SITE INSPECTION

NJDOT Maintenance Yard-Flemington

(aka: ESSO)

FLEMINGTON BOROUGH, HUNTERDON COUNTY

EPA ID No.: NJD980529473

New Jersey Department of Environmental Protection
Division of Hazardous Waste Management
Bureau of Planning and Assessment

Agrees w/ CERCLIS qual. 12/10/91
Priority - High SI I G.F.

249197

NJDOT MAINTENANCE YARD-FLEMINGTON
ROUTE 31, FLEMINGTON BOROUGH
HUNTERDON COUNTY, NEW JERSEY
EPA ID # NJD980529473

TABLE OF CONTENTS

NARRATIVE

MAPS

1. UNITED STATES GEOLOGICAL SURVEY TOPOGRAPHIC MAP - FLEMINGTON AND HOPEWELL QUADRANGLES

2A. SITE MAP

2B. BUREAU OF SITE ASSESSMENT SAMPLING MAP

3. FLEMINGTON BOROUGH AND RARITAN TOWNSHIP TAX MAP

4. HUNTERDON COUNTY ROAD MAP

5. NEW JERSEY ATLAS BASE MAP - SHEETS 24 AND 27

6. NEW JERSEY ATLAS GEOLOGIC OVERLAY - SHEETS 24 AND 27

7. NEW JERSEY ATLAS WATER SUPPLY OVERLAY - SHEETS 24 AND 27

8. COMPUTER GENERATED WATER WITHDRAWAL POINTS MAP

ATTACHMENTS

A. HAZARDOUS WASTE INVESTIGATION; SEPTEMBER 9, 1982; NJDEP, DIVISION OF HAZARDOUS WASTE MANAGEMENT (DHWM), BUREAU OF NORTHERN ENFORCEMENT (BNE).

B. MEMO FROM NJDOT CONCERNING SLUDGE BURIAL; AUGUST 24, 1990; NJDEP, DHWM, BUREAU OF PLANNING AND ASSESSMENT (BPA).

C. EPA PRELIMINARY ASSESSMENT FORM; FEBRUARY 1980; NJDEP, DHWM, BPA.

D. NJDEP INCIDENT REPORT; AUGUST 19, 1982; NJDEP, DHWM, BPA.

E. UNDERGROUND STORAGE TANK PERMIT; MARCH 12, 1979; NJDEP, DHWM, BPA.

F. POTABLE WELL SAMPLING RESULTS; JANUARY 27, 1989; HUNTERDON COUNTY DEPARTMENT OF HEALTH.

G. POTABLE WELL SAMPLING RESULTS; JANUARY 8, 1987; NJDEP, DHWM, BPA.

H. COMPLIANCE EVALUATION INSPECTION; DECEMBER 4, 1986; NJDEP, DHWM, BPA.

I. NJDOT ON-SITE WELL ANALYSIS; JULY 17, 1980; NJDEP, DHWM, BPA.

J. GROUNDWATER SAMPLING AND ANALYSIS PLAN FOR THE ADJACENT REXHAM CORP.; DECEMBER 30, 1986; NJDEP, DHWM, BPA.

K. FIELD RECORD OF VIOLATION; APRIL 15, 1988; NJDEP, DIVISION OF ENVIRONMENTAL QUALITY (DEQ), BNE.

L. PRELIMINARY SAMPLING ASSESSMENT; SEPTEMBER 25, 1990; NJDEP, DHWM, BPA.

M. SAMPLING RESULTS; OCTOBER 17, 1990; NJDEP, DHWM, BPA

NARRATIVE

NJDOT MAINTENANCE YARD-FLEMINGTON
ROUTE 31, FLEMINGTON BOROUGH
HUNTERDON COUNTY, NEW JERSEY
EPA ID # NJD980529473

GENERAL INFORMATION AND SITE HISTORY

The New Jersey Department of Transportation (NJDOT) Maintenance Yard in Flemington is a 4.55-acre facility located on Block 39, Lot 11 in Flemington Borough and Block 29, Lots 1 and 2 in Raritan Township, Hunterdon County, New Jersey. The site is adjacent to the Central Railroad of New Jersey and the Flemington Borough Memorial Park.

The property was formerly owned by the Standard Oil Company - Esso (Exxon) who operated a bulk storage station for gasoline and kerosene from 1928 to 1958. The NJDOT purchased the land in 1959 and has been operating the maintenance yard since that time. The yard includes areas for salt storage, machinery maintenance, traffic sign storage, vehicle storage and office space.

SITE OPERATIONS OF CONCERN

Between 1928 and 1958 the Standard Oil Company operated a bulk storage station which included six 10,000-gallon aboveground storage tanks. Fuels such as kerosene, unleaded gasoline and Esso Extra were stored in the tanks. In 1958 the NJDOT began to negotiate the purchase of the property and specified that all tanks and equipment be removed from the site by Esso. In the process of removing the tanks a lead sludge was collected and subsequently buried on site. A 90- by 180-foot area approximately 420 feet west of Route 31 and 28 feet southeast of the railroad tracks was used for the sludge disposal. Also, fearing lead related health problems, employees buried all gloves, boots, clothing, tools and equipment. The lead sludge was reportedly removed in 1960; however, it is not known how much material was excavated from the disposal site nor was the excavation determined to be cleaned by analytical methods.

An aerial photograph interpretation revealed the six storage tanks at the site from 1939 until 1954. Two of the northernmost tanks were approximately one-third taller than the other four. In the April 23, 1961 photograph, all of the tanks had been removed from the site and the area where the tanks were was being excavated. There were approximately 30 barrel shaped objects and a shed like building along the northern treeline and railroad tracks behind the yard. It is not clear if Esso shipped any materials via the railroad. The NJDOT has never used the railroad for shipping or receiving.

The maintenance yard currently has three underground storage tanks (UST) located on the east side of the office near Route 31. The 6,000-gallon tank nearest the office is used for gasoline storage while the 10,000-gallon tank nearest Route 31 is used for diesel storage. Both the gasoline and diesel storage tanks are permitted with the NJDEP, Division of Environmental Quality Air Pollution Control Program under ID #042424. There is a 1,000-gallon UST used for heating oil located on the southeastern corner of the office building. This tank had replaced a leaking 500-gallon #2 fuel oil tank in 1987. The leak was apparently in the top of the tank and was caused by a tractor running into the aboveground nozzle portion cracking the connection. Water was observed

inside the fuel oil tank.

The maintenance yard has a 5,400-gallon liquid calcium aboveground tank which is sprayed over the salt to activate it prior to spreading on the roadways.

There is a 500-gallon aboveground storage tank (AGST) which contains kerosene to clean equipment and to heat a tar pot used to fill cracks in roads. It is located at the northwest corner of the yard inside the fence beside the salt storage area. There is no designated area to clean equipment within the NJDOT yard and the waste solvents are discharged directly to the ground.

GROUNDWATER ROUTE

The NJDOT yard is underlain by the Brunswick Formation to a depth of at least 500 feet. The Brunswick Formation is characterized by predominantly red or reddish-brown shales and siltstones.

There are no monitoring wells on site.

Approximately two-thirds of the wells near the maintenance yard are connected to the Flemington Borough public water supply and the other one-third of the local wells are private potable wells. Flemington Borough has a 315-foot municipal well (Well #6) approximately 1,000 feet southwest of the NJDOT yard in the Flemington Memorial Field. Well #6 was sampled for lead on July 17, 1980 and on January 8, 1987 by QC, Inc. of Southampton, Pennsylvania and no detectable levels of lead were observed. This well was also sampled in December 1988 and found to be contaminated with trichloroethylene (TCE) at a level of 0.64 parts per billion (ppb), tetrachloroethylene (PCE) at 3.5 ppb and carbon tetrachloride at 0.94 ppb. Well #6 was closed as a result of these findings. The date of closing is not known. Prior to its closing Well #6 pumped 0.158 million gallons per day (mgd). Along with this well, Flemington Water Department has three other wells pumping an average of 0.664 mgd to 1,229 service locations.

The private well at the yard has never been used for drinking purposes according to Earl Coleman, a former yard foreman. The 6-inch diameter well is 115 feet deep and the upper 28 feet is cased. The remaining length of the well is a borehole into which groundwater flows.

Potable wells, mostly along Route 31, were tested by the Hunterdon County Department of Health in December 1988 and were found to contain low levels of volatile organic compounds (VOCs). The VOCs included benzene, carbon tetrachloride, TCE, 1,1,1-trichloroethane and PCE (Attachment F). Businesses within 0.25 mile of the site with potable wells include Karparts, Flemington Block and Supply, National Auto Parts and Cals Auto Service.

The NJDEP, Division of Hazardous Waste Management (DHWM), Bureau of Planning and Assessment (BPA) sampled the on-site well and also potable wells on nearby properties on October 17, 1990. PCE was detected in the on-site potable well at 180 ppb. This well is not utilized for drinking purposes.

There are 11 industrial wells within 1 mile and 35 industrial wells within a 4-mile radius of the site.

There is a potential for groundwater contamination via leaching of buried sludge. Also, the current method of cleaning equipment with kerosene and the lack of containment allows approximately 100 to 200 gallons of kerosene per year to be discharged into the soil and groundwater.

The NJDOT has no discharge permits and has not been cited for any violations.

SURFACE WATER ROUTE
Bushkill Brook, approximately 1,000 feet to the north of the NJDOT yard, empties into the South Branch of the Raritan River approximately 1.5 mile northeast of the site. There is no migration route for contaminants to enter the Bushkill Brook.

There has been no documented release of contaminants to surface water. Due to the high water table and relative low slope of the area, drainage is dominantly accomplished by direct infiltration of groundwater to surface water.

There are no federally endangered species within 1 mile of the site.

No wetlands exist within a 4-mile radius of the site.

AIR ROUTE
There is no evidence of a release to air and no potential due to the types of operations at the facility.

SOIL
The site is situated on both Penn and Reaville series soils. Both are red-brown silty loams with 10 to 20 percent red shale fragments which range in depth at the site from three to eight feet. Estimated permeabilities range from 0.63 to 6.3 inches per hour.

The NJDEP, DHWM, BPA conducted a sampling episode at the site in October 1990. Five soil samples were collected. Petroleum hydrocarbons (PHCs) ranging from 29 to 1,100 ppm. Low levels of volatile organics and pesticides were also detected.

The suspected sludge dump is located near the treeline on the northwest corner of the property and is reportedly 90 by 180 feet. PHCs were detected in this area at a depth of eight feet at 1,100 ppm.

DIRECT CONTACT
During the conversion of Esso to the NJDOT, workers reportedly encountered lead contaminated earth and buried all gloves, boots, clothing, tools and equipment fearing lead related health problems.

There is currently no potential for direct contact because the lead sludge was buried approximately 31 years ago and the area has been filled over.

FIRE AND EXPLOSION
There have been no reported incidences of fire or explosion at the NJDOT yard; however, there is a potential due to the 6,000-gallon gasoline UST, the 10,000-gallon diesel UST and the 500-gallon kerosene AGST.

ADDITIONAL CONSIDERATIONS

There has been no documented damage to flora, fauna, off-site property or contamination of the food chain; however, there is a potential via the transport of contaminants through the groundwater to surface water and/or contamination of local potable wells. Since the time of sludge burial the area has been regraded and revegetated.

ENFORCEMENT ACTIONS

On April 15, 1988 the NJDEP, Division of Environmental Quality (DEQ), Bureau of Northern Enforcement (BNE) issued a field violation to NJDOT for altering the two USTs without modifying the permit.

SUMMARY OF SAMPLING DATA

1.	Sampling dates:	July 17, 1980 March 10, 1986 September 26, 1986 April 25, 1988 April 17, 1990
	Sampled by:	NJDOT Bureau of Project Support 951 Parkway Avenue Trenton, New Jersey 08625
	Samples:	NJDOT on-site potable well samples
	Laboratories:	NJ Department of Health Public Health and Environmental Laboratories Trenton, New Jersey Lab Certification #11148
	Parameters:	Lead and petroleum hydrocarbons (PHCs)
	Sample description:	Potable water collected from men's room and garage spigot. Both are connected to the on-site well. The well is 115 feet deep and the upper 28 feet is cased.
	Contaminants detected:	Lead ranged from 0.0006 to 0.032 ppm. PHCs were not detected.
	QA/QC:	No QA/QC data was available.
	File location:	Attachment I NJDOT Bureau of Project Support 951 Parkway Avenue Trenton, New Jersey 08625
2.	Sampling date:	December 7, 1988
	Sampled by:	Recon Systems, Inc. Route 202 N Three Bridges, New Jersey 08887

Samples: Seven potable well samples

Laboratory: Recon Systems Inc.
Route 202 N
Three Bridges, New Jersey 08887
Lab Certification # 10196

Parameters: Volatile organic compounds (VOCs)

Sample description:

POTABLE WELL	LOCATION	APPROXIMATE DISTANCE FROM NJDOT YARD (ft.)
American Legion	Rt. 31	300
Flemington Memorial Well	Memorial field behind NJDOT yard	300
Karparts	Rt. 31	400
National Auto Parts	Rt. 31	800
Flemington Block and Supply (mixing building)	Rt. 31	1,200
Flemington Block and Supply (Dispatch Office)	Rt. 31	1,200
American Hero	Rt. 31 and Pennsylvania Avenue	1,700

Contaminants detected: Benzene and tetrachloroethylene were detected above action levels for drinking water (See Chart 1).

QA/QC: Field and trip blank included. No other QA/QC data available.

File location: Attachment F
Hunterdon County Department of Health
Administrative Building
Flemington, New Jersey 08822

3. Sampling date: October 17, 1990

Sampled by: NJDEP, DHWM, BPA
300 Horizon Center
Route 130
Robbinsville, New Jersey 08691

Samples: Five potable water samples and six soil samples

CHART 1

PARAMETERS (ppb)	AMERICAN LEGION	FLEMINGTON MEMORIAL WELL	KARPARTS	NATIONAL AUTO PARTS	FLEMINGTON BLOCK AND SUPPLY (MIXING)	FLEMINGTON BLOCK AND SUPPLY (DISPATCH)	AMERICAN HERO
BENZENE	-	-	-	-	1.3*	3.4*	-
CARBON TETRACHLORIDE	-	0.94	-	-	-	-	<0.24
TETRACHLOROETHYLENE (PCE)	5.3*	3.5*	-	-	3.8*	0.16	0.30
1,1,1-TRICHLOROETHANE	-	-	-	0.26	-	-	-
TRICHLOROETHYLENE (TCE)	0.24	0.64	0.29	-	0.39	-	0.24

- = NOT DETECTED
* = EXCEEDED NJDEP MAXIMUM CONTAMINANT LEVEL FOR DRINKING WATER

Laboratories: NET Mid-Atlantic
100 Grove Road
Thorofare, New Jersey 08086
Lab Certification #08153

Analytikem, Inc. (PHCs)
28 Springdale Road
Cherry Hill, New Jersey 08003
Lab Certification #04012

Parameters: Total USEPA Target Compound List and PHCs

Sample description: Four soil samples were collected near the utility pole, next to the treeline (S-1, S-2, S-3, S-5) on the northwest side of the property. S-1 was 4 to 5 feet deep, S-2 was 3 feet deep, S-3 was 4 to 5 feet deep and S-5 was 7 to 8 feet deep. S-4 was collected next to the metal storage building on the southwest corner of the fenced portion of the property and was 4 to 5 feet deep. S-6 was collected behind the salt storage shed approximately 30 feet and was 2 feet deep.

The five potable wells sampled included the NJDOT Well (PW1), Parkes Well (PW 2, Emery Avenue), Stothoff Well (PW 3, located on the corner of Route 31 and Emery Avenue), Mercer Industrial Gas Well (PW 4, Route 31) and Karparts Well (PW 5, Route 31).

Contaminants detected: Several soil samples contained low levels of volatile organics, pesticides and PHCs. One potable well contained tetrachloroethylene at 180 ppb.

CONTAMINANT	S2	S3	S4	S5	S6	PW1	PW2
heptachlor epoxide	-	-	-	-	-	-	0.15
heptachlor	10J	-	4.3J	-	-	-	-
dieldrin	-	3.8J	-	-	3.4J	-	-
endosulfan sulfate	-	2.9J	-	-	-	-	-
gamma chlordane	-	3.2J	-	-	1.0J	-	-
ethylbenzene	-	-	19	-	-	-	-
xylene	-	-	190	-	-	-	-
tetrachloroethylene	-	-	-	-	-	180	-
4-methyl-2-pentanone	-	-	-	-	-	-	9J
PHCs (ppm)	29	38	540	1,100	68	-	-

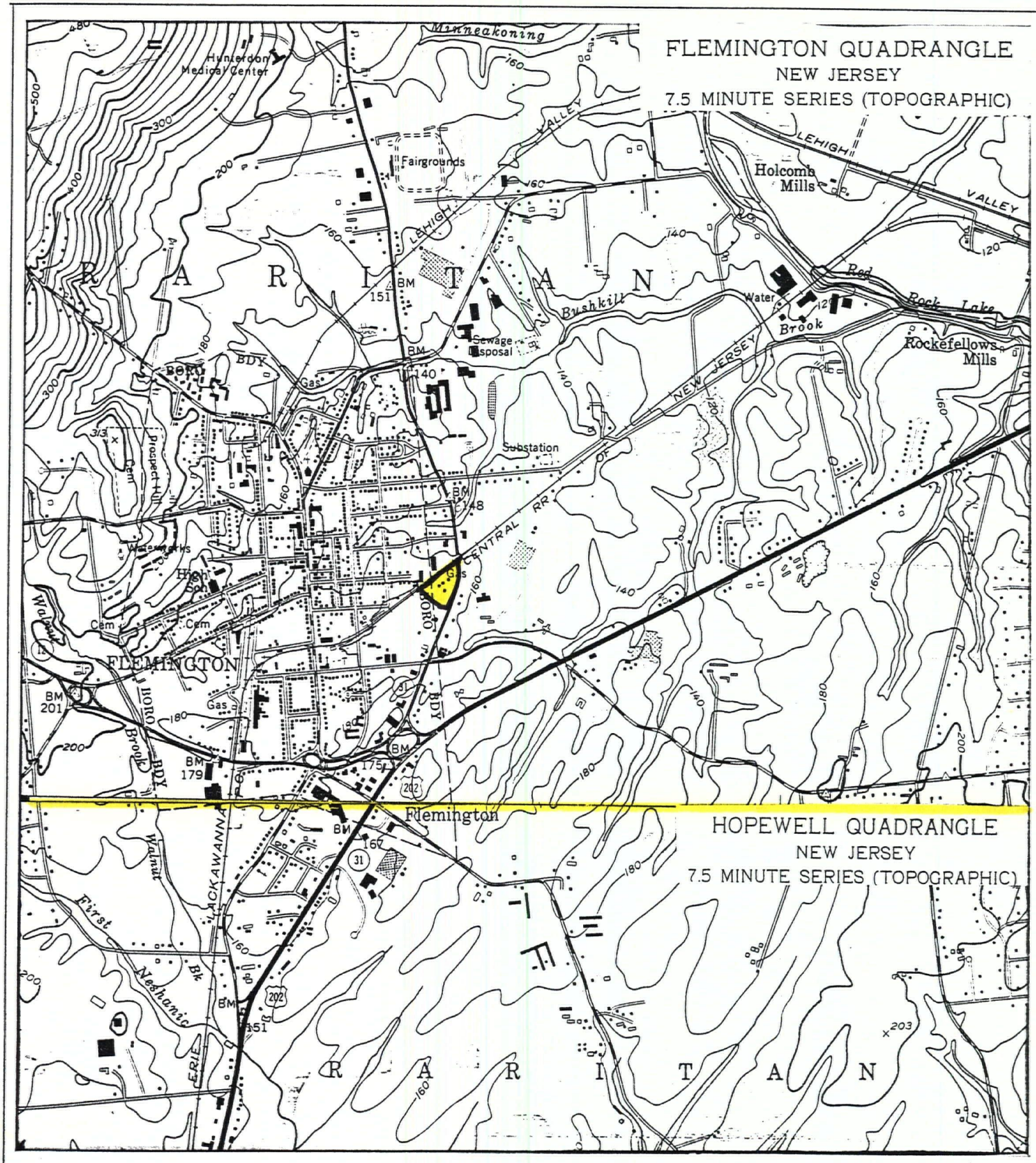
NOTE: All values are ppb except where indicated
J = ESTIMATED VALUE
- = NOT DETECTED

QA/QC:	A formal QA/QC data review was performed by NJDEP/Bureau of Environmental Measurements and Quality Assurance. A field and trip blank was prepared and a Chain-of-Custody was implemented.
File location:	Attachment M NJDEP, DHWM, BPA 300 Horizon Center Route 130 Robbinsville, New Jersey 08691

RECOMMENDATIONS

Because of the documented on site well contamination the Bureau of Planning and Assessment recommends that the case be transferred to the Division of Water Resources, Bureau of Northern Enforcement. A referral to the Bureau of Safe Drinking Water will also be completed. No further action under CERCLA is warranted as soil samples have not detected any contaminants attributable to past or present site activities.

MAPS



SCALE 1:24 000

1 ½ 0 1 MI

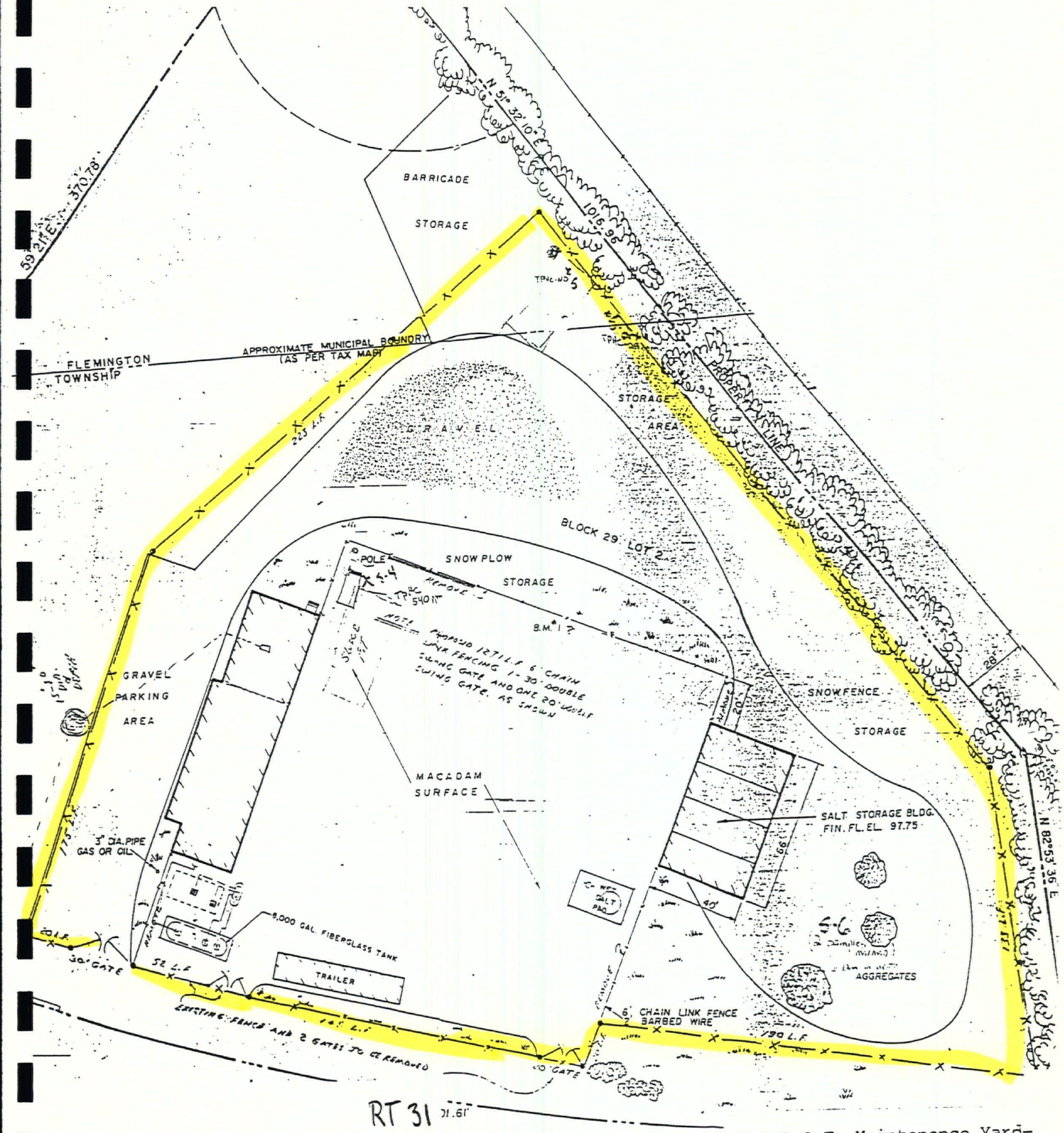
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

N.J.D.O.T. Maintenence Yard - Flemington, Rt. 31
Flemington Borough,
Hunterdon County, N.J.
Lat: 40 30 25
Lon: 74 53 27

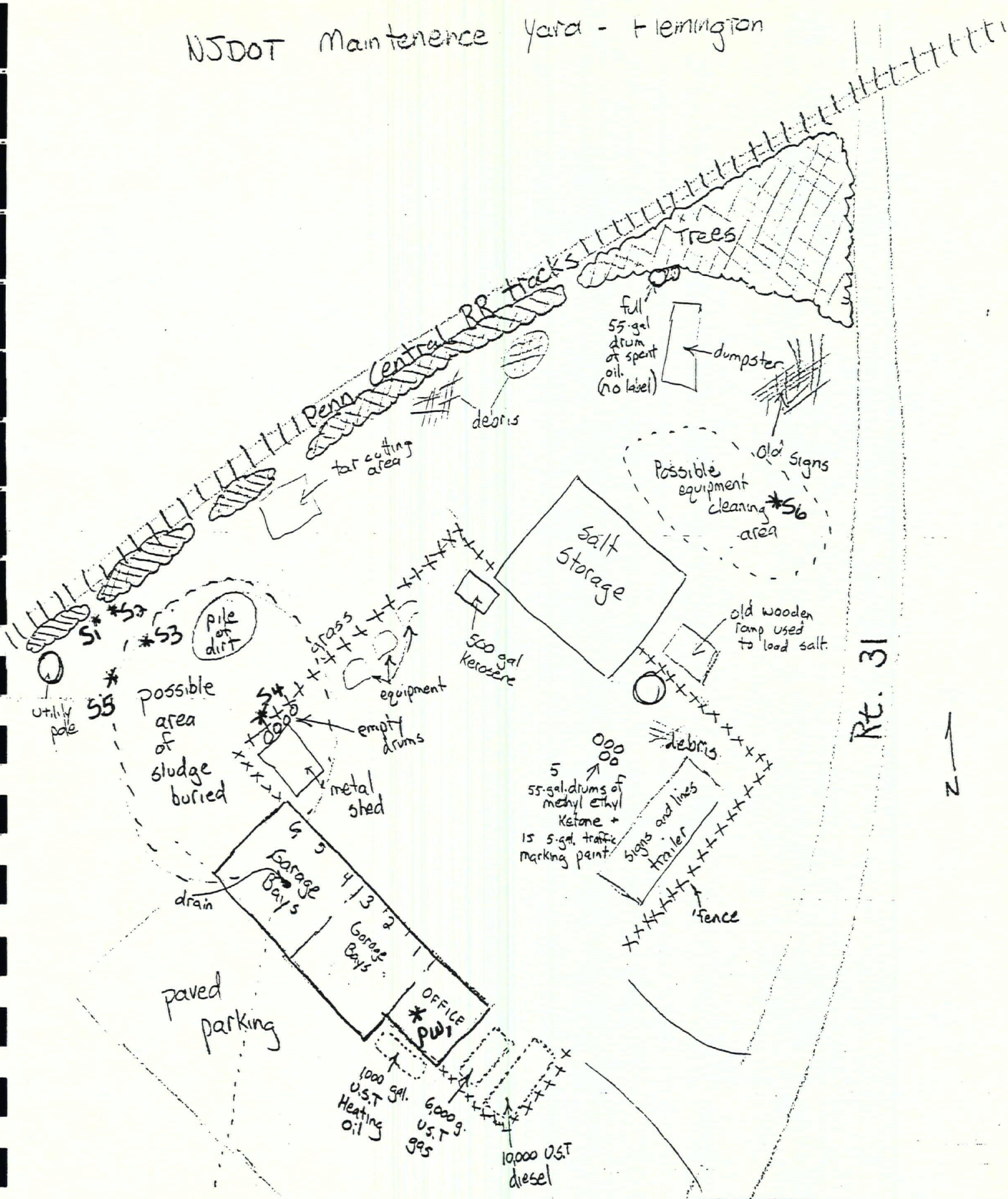
USGS TOPOGRAPHIC MAP1



N.J.D.O.T. Maintenence Yard-
Flemington, Rt. 31
Flemington Borough
Hunterdon County, N.J.
Lat: 40 30 25
Lon: 74 53 27

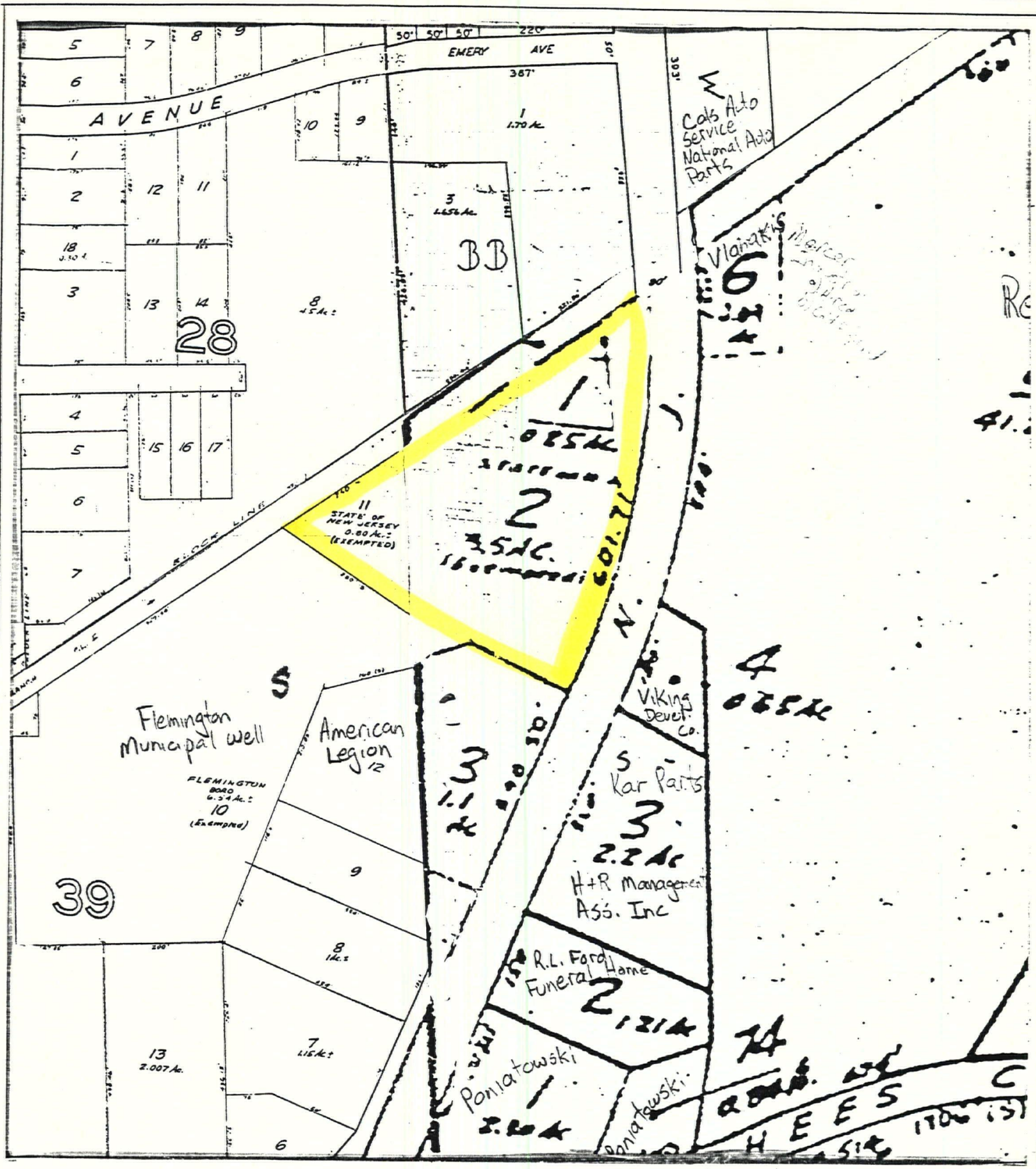
SITE MAP
MAP 2A

NJDOT Maintenence Yard - Flemington



N.J.D.O.T. Maintenence Yard-
Flemington, Rt. 31
Flemington Borough
Hunterdon County, N.J.
Lat: 40 30 25
Lon: 74 53 27

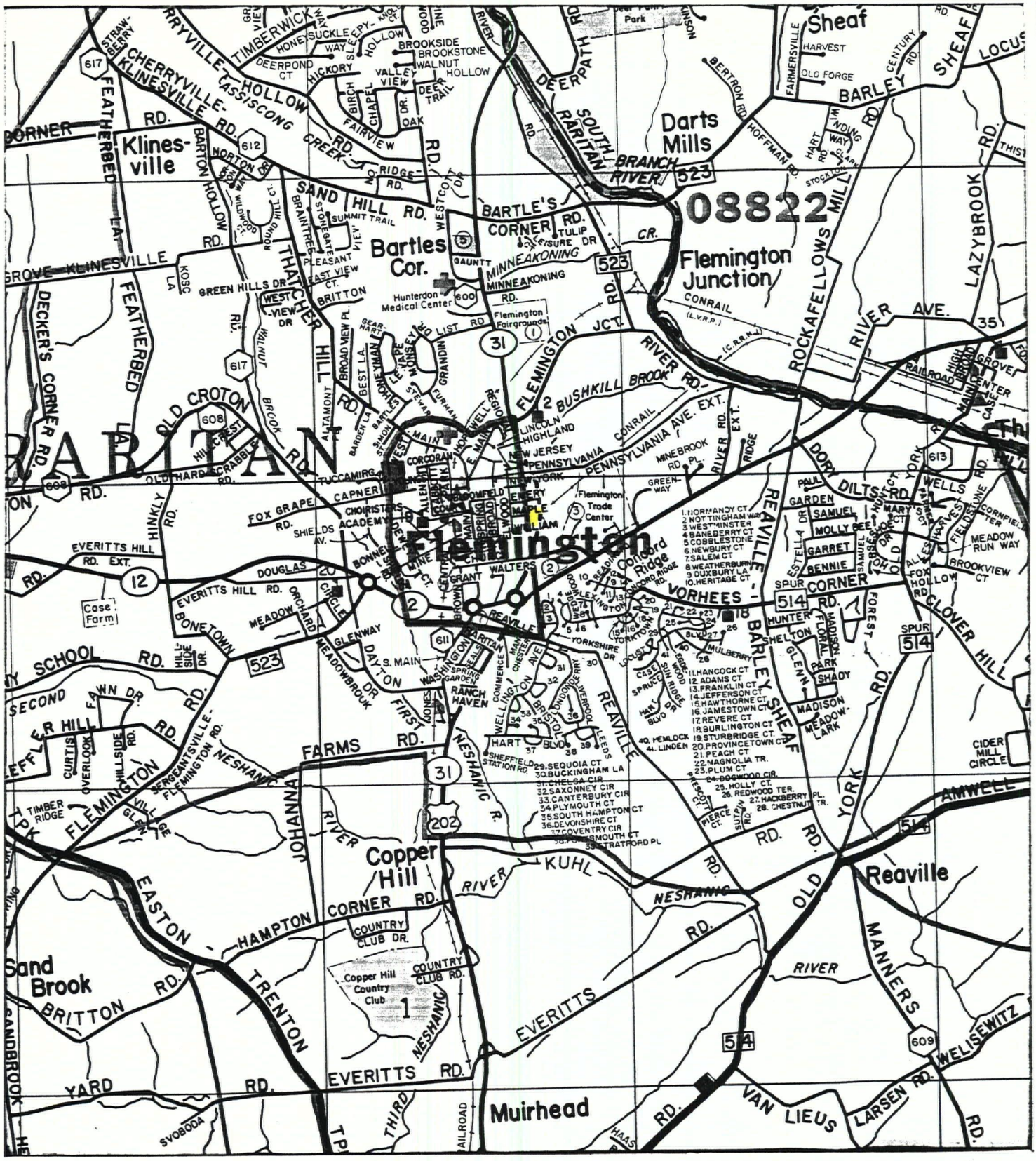
SAMPLING MAP
MAP 2B



TAX MAP

N.J.D.O.T. Maintenence Yard-
Flemington, Rt. 31
Flemington Borough
Hunterdon County, N.J.
Lat: 40 30 25
Lon: 74 53 27

MAP 3



Scale:

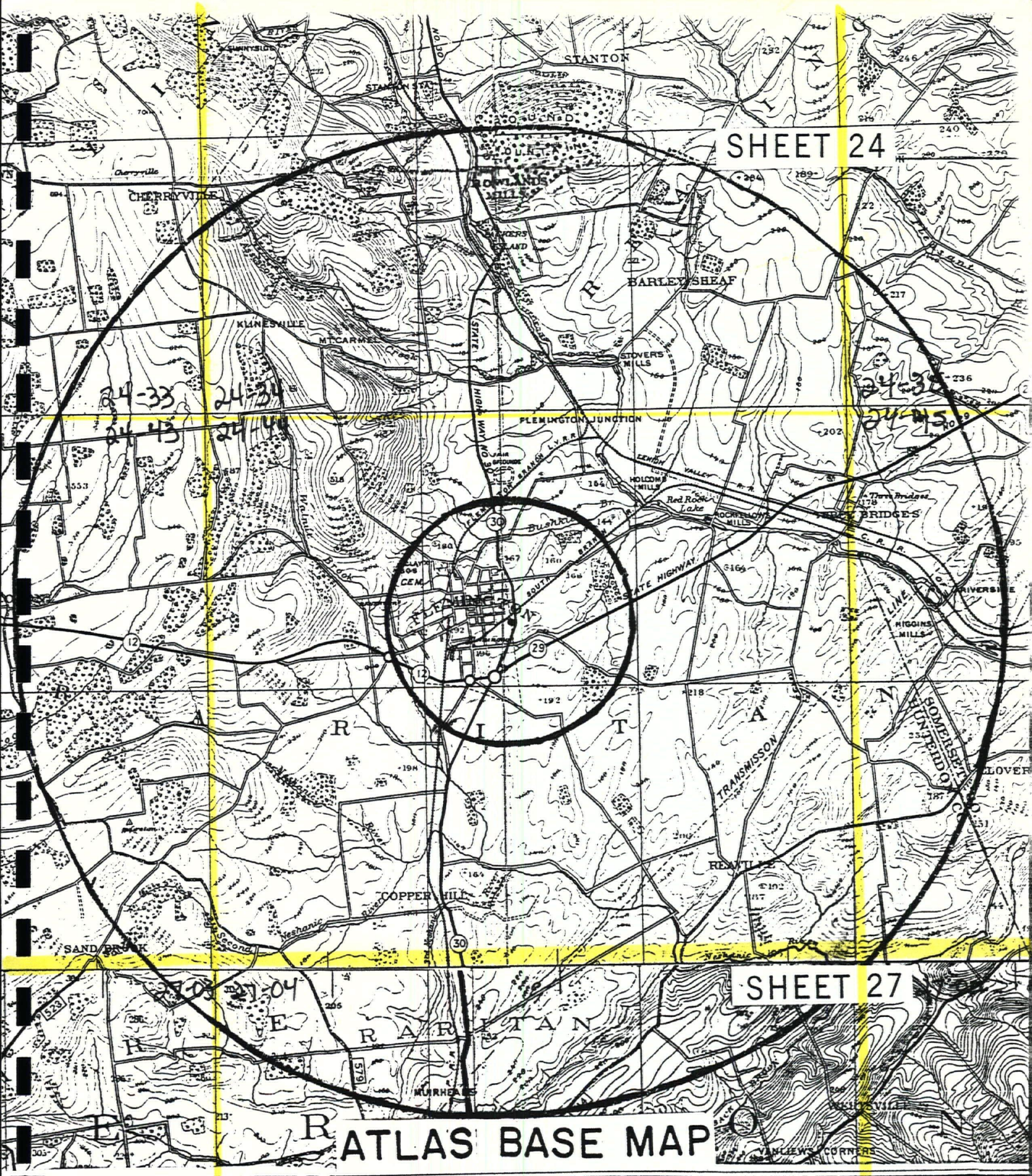
0 1/2 1 2 3 miles

0 1/2 1 2 3 kilometers

HUNTERDON COUNTY ROAD MAP

N.J.D.O.T. Maintenence Yard - Flemington, Rt. 31
Flemington Borough,
Hunterdon County, N.J.
Lat: 40 30 25
Lon: 74 53 27

MAP 4



Scale: 1 Mile to an Inch.

Miles: 1 3/4 1/2 1/4 0 1 2 3

Yards: 1000 500 0 1000 2000 3000

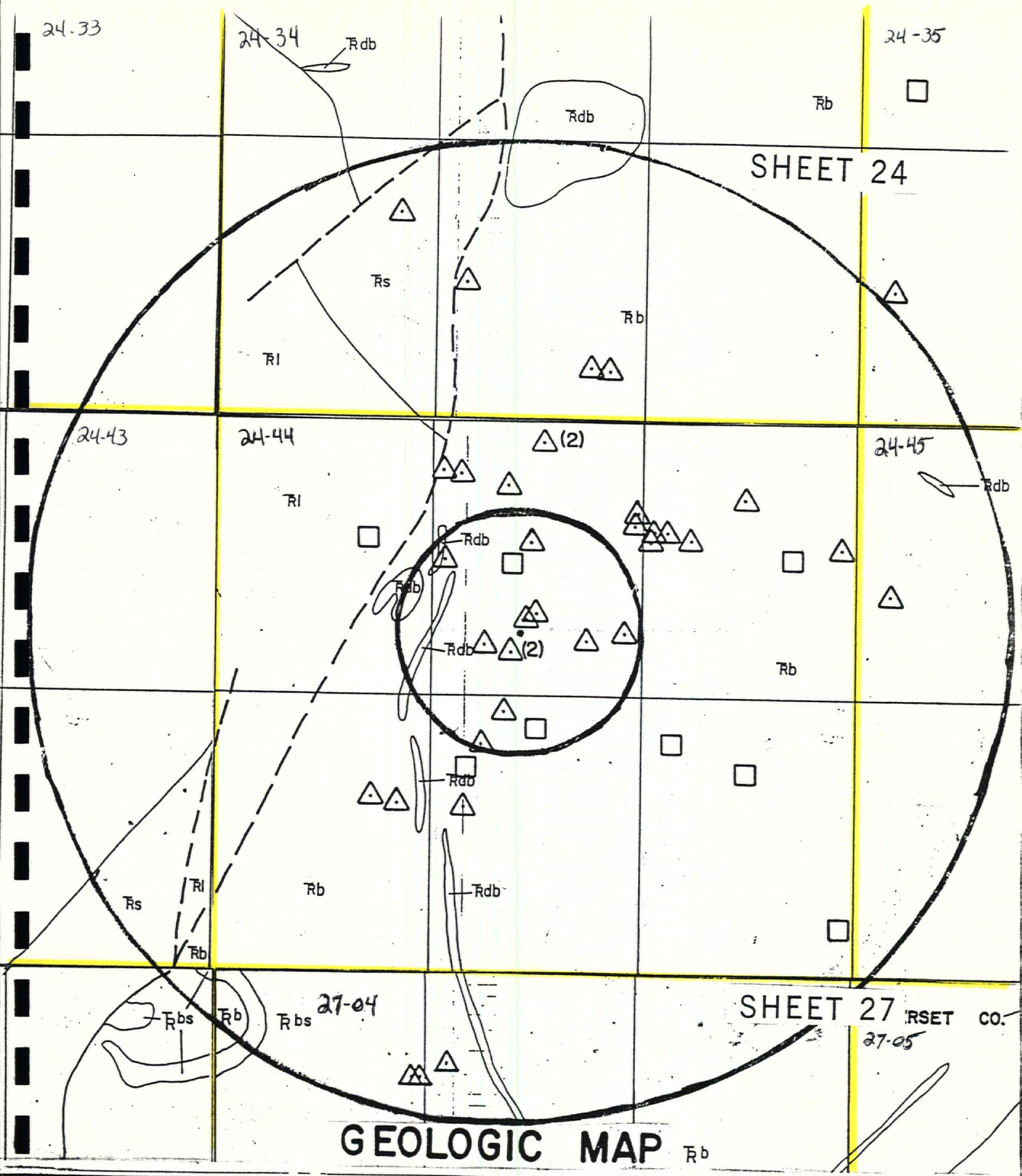
Meters: 1000 500 0 1000 2000 3000

A. HOEN & CO. BALTIMORE, MD.

Contour Interval: 20 feet

N.J.D.O.T. Maintenence Yard-
Flemington, Rt. 31
Flemington Borough
Hunterdon County, N.J.
Lat: 40 30 25
Lon: 74 53 27

MAP 5



Scale: 1 Mile to an Inch.

Miles: 1 3/4 1/2 1/4 0 1 2 3

Yards: 1000 500 0 1000 2000 3000

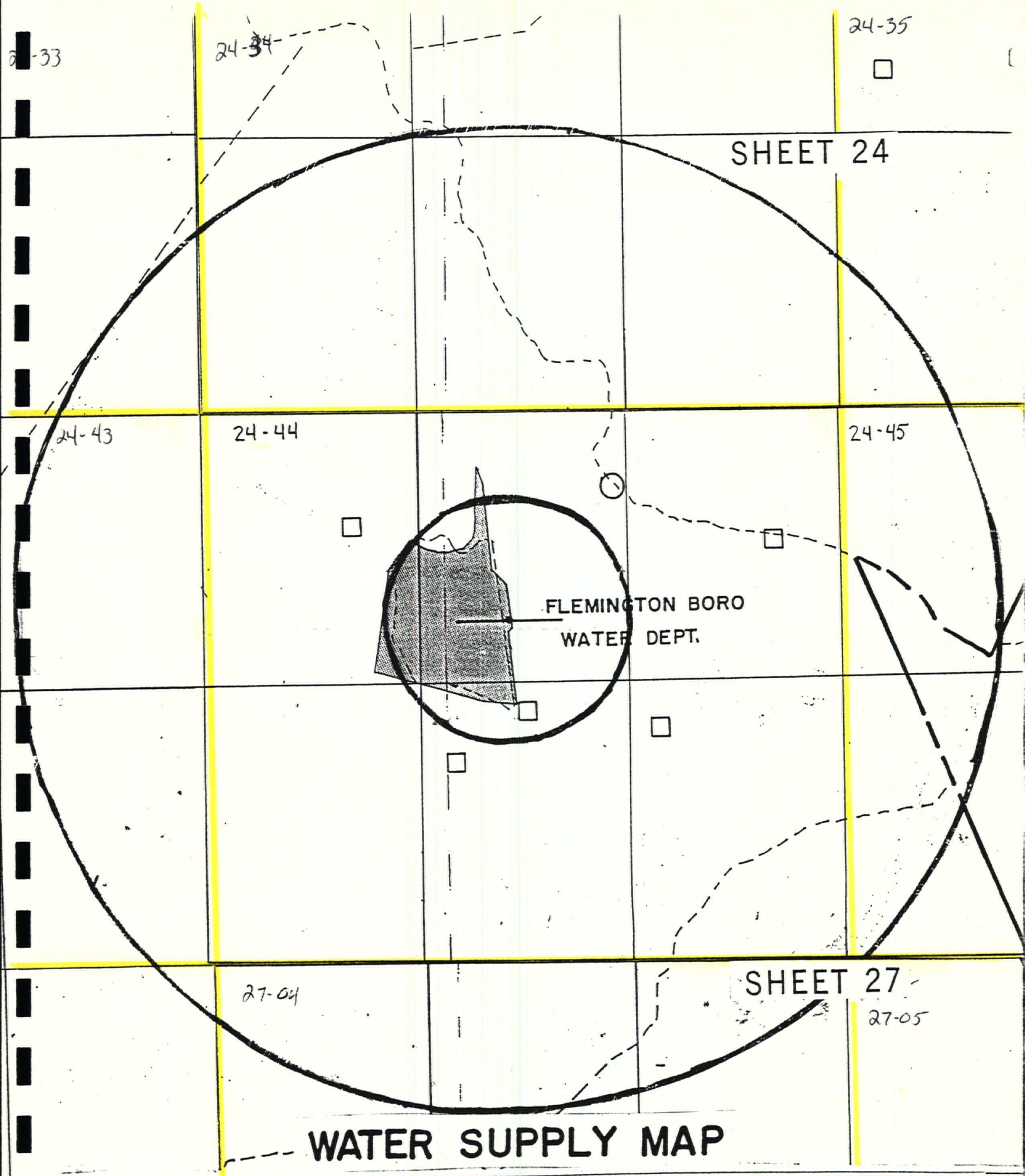
Meters: 1000 500 0 1000 2000 3000

A. HOEN & CO. BALTIMORE, MD

Contour Interval: 20 feet

N.J.D.O.T. Maintenence Yard-
Flemington, Rt. 31
Flemington Borough
Hunterdon County, N.J.
Lat: 40 30 25
Lon: 74 53 27

MAP 6



Scale: 1 Mile to an Inch.

Miles 1 3/4 1/2 1/4 0 1 2 3

Yards 1000 500 0 1000 2000 3000

Meters 1000 500 0 1000 2000 3000

A. HOEN & CO. BALTIMORE, MD

Contour interval: 20 feet

N.J.D.O.T. Maintenence Yard-
Flemington, Rt. 31
Flemington Borough
Hunterdon County, N.J.
Lat: 40 30 25
Lon: 74 53 27

MAP 7

I. Water Well Records

Location	Owner	Year Drilled	Screen Setting or Depth of Casing	Total Depth	g/m Yield	Formation
24-44-161	Somerville Water Co.	1971	252	355	100	Trb,Trl
24-44-214	Hunterdon Medical Center	1961	43	412	162	Trb
24-44-215	"	1964	52	436	242	"
24-44-222	Flemington Fair & Carnival Assoc.	1964	39	500	265	"
24-44-222	Cary Chemical Co.	1963	43	500	470	"
24-44-227	Hunter-Douglas Corp.	1955	33	500	195	"
24-44-244	Pinewall Investment Corp.	1966	50	230	75	"
24-44-252	Hunter Douglas Corp.	1955	35	518	307	"
24-44-254	Hunterdon Cent.Reg.H.S.	1959	32	207	125	"
24-44-263	Cary Chemical Co.	1961	41	500	524	"
24-44-263	Sicking Corp.	1960	-	546	517	"
24-44-276	Dural Rubber Co.	1956	32	443	440	"
24-44-282	Riegel Paper Co.	1963	42	300	272	"
24-44-282	"	1963	41	450	346	"
24-44-284	Samuel Stothoff Co.	1965	41	200	80	"
24-44-284	Flemington Auto Rentals Inc.	1965	33	375	178	"
24-44-293	U.S.Bronze Powder Wks.,Inc.	1957	30	230	103	"
24-44-294	U.S. Bronze Co.	1956	30	480	411	"
24-44-328	Standard Pressed Steel	1967	50	300	100	"
24-44-341	Cary Chemical Co.	1956	31	412	530	"
24-44-341	"	1957	29	519	703	"
24-44-341	"	1959	33	502	430	"
24-44-343	"	1964	61	552	620	"
24-44-364	Raritan Twp.	1970	50	165	70	"
24-44-366	Supreme Milk & Cream Co.	1956	24	297	328	"
24-44-461	Johanna Farms	1969	52	400	230	"
24-44-462	"	1963	41	501	70	"
24-44-516	Sussleaf Flemington, Inc.	1961	41	301	280	"
24-44-518	Raritan Twp.	1971	60	150	200	"
24-44-521	Bruce-Shalgasser	1965	40	400	450	"
24-44-522	Boro of Flemington	1973	50	400	261	"
24-44-542	Sinclair Refining Co.	1968	130	170	100	"
24-44-615	Flemington-Raritan Bd.of Ed.	1967	65	249	235	"
24-44-628	Shelton Builders, Inc.	1967	50	123	80	"
24-44-696	Reimer Const. Co.	1967	50	93	100	"
24-45-148	Ciba Pharmaceuticals	1964	32	204	65	"
24-45-148	"	1965	42	305	430	"

J. Geodetic Control Survey monuments described
Index Maps 28,32,33; adjacent Index Map 29

I. Water Well Records

Location	Owner	Year Drilled	Screen Setting or Depth of Casing	Total Depth	g/m Yield	Formation
24-34-286	Hunterdon Ed.Rec.Council	1971	40	105	100	PE
24-34-738	Armor Builders	1970	50	102	75	Trb
24-34-799	Friendship Village	1976	62	400	55	"
24-34-845	Riemer Const.Co.	1965	73	240	75	"
24-34-894	Thomas J. Lipton, Inc.	1962	44	502	584	"
24-34-895	"	1962	45	504	340	"
24-35-163	Koko Kalo Builders	1972	63	170	75	"
24-35-476	N.J. Bur. of Parks	1971	119	200	75	"
24-35-493	"	1971	130	200	75	"
24-35-745	M. Barda, Cont.	1972	60	100	100	"

J. Geodetic Control Survey monuments described
Index Map 28; adjacent Index Maps 23,29

A. Hopewell, Lambertville, Pennington, Stockton

B. Delaware River-Lockatong Creek; Raritan River-South Branch, Millstone

C. 1. Wertsville - Non-recording precipitation gauge

2. Map No.	Location	Period of Record
424	Woodsville Brook at Woodsville	1947-1958, 1964-
425	Stony Brook at Glenmoore	1957-
3. 310	Stony Brook near Hopewell	1965-

Water Quality Standards: (explained in Atlas Sheet description) FW2

D. Brunswick Formation (Trb), Lockatong Formation (Trl), Stockton Formation (Trs), Basalt Flows (Trbs), Diabase (Trdb)

E. 1. Physiographic Province: Piedmont
Subdivision: Triassic Lowlands
Major Topographic Features: Red Sandstone Plain, Sourland Mountain.
Elevations (ft.above sea level): ridges 500, valleys 200
Relief (ft.): 200

2. a. Normal Year: 45"
Dry Year: 34"
Wet Year: 55"

b. January: 31°F
July: 75°F

c. 238 days. Last killing frost: 4/25; first killing frost: 10/20

F. Div. of Fish, Game and Shellfisheries:
Amwell Lake (Linvale)

I. Water Well Records

Location	Owner	Year Drilled	Screen Setting or Depth of Casing	Total Depth	g/m Yield	Formatio
27-04-163	Copper Hill Country Club	1964	40	300	900	Trb
27-04-163	"	1964	40	156	180	"
27-04-217	A. L. Lewis, Inc.	1965	32	300	150	"
27-04-828	B. J. Costello	1968	30	100	100	"
27-05-763	Hopewell Boro	1968	50	380	125	"

J. Geodetic Control Survey monuments described
Index Maps 32,33,36; adjacent Index Map 37

LEGEND FOR ATLAS SHEET 24

△ — INDUSTRIAL WELL YIELD OVER 70 GALLONS PER MINUTE (INCLUDING PRIVATE WELLS)

□ — PUBLIC SUPPLY WELL YIELDING OVER 70 GALLONS PER MINUTE

⊕ — UNSUCCESSFUL ROCK WELL YIELDING LESS THAN 70 GALLONS PER MINUTE

⊙ — UNSUCCESSFUL SAND WELL YIELDING LESS THAN 70 GALLONS PER MINUTE

⊡ — NO TEST — NO DATA ON YIELD

FAULT (DASHED WHERE INFERRED)

CONTACT (DASHED WHERE INFERRED)

PHYSIOGRAPHIC PROVINCE BOUNDARY

QUATERNARY

Qa – RECENT ALLUVIUM

Qod – OLDER DRIFT (PRE WISCONSIN)

TRIASSIC

TRb – BRUNSWICK FORMATION (UNDIFFERENTIATED)

TRba – RED SHALE INTERBEDDED WITH SANDSTONE, SILTSTONE, AND ARGILLITE

TRl – LOCKATONG FORMATION

TRs – STOCKTON FORMATION

TRc – CONGLOMERATE

TRdb – DIABASE

ORDOVICIAN

Omb – MARTINSBURG FORMATION (UNDIFFERENTIATED)

- Om3 ARGILLACEOUS SHALE WITH A FOSSILIFEROUS ZONE
- Om2 ARGILLACEOUS SHALE AND GRAYWACKE
- Om1 BLACK FISSILE SHALE
- Oju JUTLAND MEMBER- VARI-COLORED SHALES & SILTSTONES
- Ojul JUTLAND MEMBER-LIMESTONE
- Ojus JUTLAND MEMBER-SANDSTONE, SHALE, CONGLOMERATE

Ojb – JACKSONBURG FORMATION (UNDIFFERENTIATED)

- Ojr CEMENT ROCK
- Ojl CEMENT LIMESTONE

LEGEND FOR ATLAS SHEET 24 (con't)

Oe - EPLER FORMATION
Or - RICKENBACH FORMATION

CAMBRIAN

€a - ALLENTOWN FORMATION
€l - LEITHSVILLE FORMATION
€h - HARDYSTON FORMATION

CAMBRO-ORDOVICIAN
€Ok KITTATINNY (UNDIFFERENTIATED)

PRE CAMBRIAN

P€ - (UNDIFFERENTIATED)
am - AMPHIBOLITE
gnb - BIOTITE GNEISS
gnk - POTASSIC FELDSPAR GNEISS
mr - DOLOMITE & CALCITE MARBLE
msv - METASEDIMENTARY & METAVOLCANIC (UNDIFFERENTIATED)
ga - ALASKITE
gma - MICRO PERTHITE ALASKITE
mig - AMPHIBOLITE - MIGMATITE
gno - OLIGOCLASE - QUARTZ GNEISS

LEGEND

WATER SUPPLY

- AREA SERVED BY PRIVATE WATER SERVICE COMPANIES
- AREA SERVED BY REGIONALLY OWNED WATER SERVICE COMPANIE
- AREA SERVED BY MUNICIPALLY OWNED WATER SERVICE COMPANI
- AREA NOT PRESENTLY SERVED BY WATER SERVICE
- PUBLIC SUPPLY WELLS
- WATER MAIN ACROSS HIGHWA FOR FUTURE USE
- SURFACE WATER INTAKE
- —W— MAJOR WATER MAINS

SEWAGE, LANDFILL

- AREA SERVED BY PUBLIC SEWAGE SERVICE
- AREA NOT PRESENTLY SERVED BY SEWAGE SERVICE
- SANITARY LANDFILLS
- SEWAGE TREATMENT PLANTS (CAPACITY <0.3mgd)
- SEWAGE TREATMENT PLANTS (CAPACITY ≥0.3mgd)
- —S— MAJOR SEWAGE TRANSMISSION LINES

DRAINAGE BASIN

- DRAINAGE BASIN BOUNDARY
- RIVER BASIN BOUNDARY
- HUDSON DRAINAGE BASIN NAME
- STREAMS AND RIVERS
- FLOOD PRONE AREAS

POPULATION

- COUNTY BOUNDARY
- MUNICIPAL BOUNDARY
- ( ) POPULATION DENSITY IN PERSONS PER SQUARE MILE
- [ ] AREA IN SQUARE MILES
- % PERCENT AREA OF MUNICIPALITY ON BLOCK
- MARKET ROADS
- BUILT UP AREAS
- STATE BOUNDARY

SUBJECT TO REVISION

WATER WITHDRAWAL POINTS AND NJGS CASE INDEX SITES WITHIN 5.0 MILES OF:

LATITUDE 403025
LONGITUDE 745328

DRAFT

SCALE: 1:63,360
(1 Inch = 1 Mile)

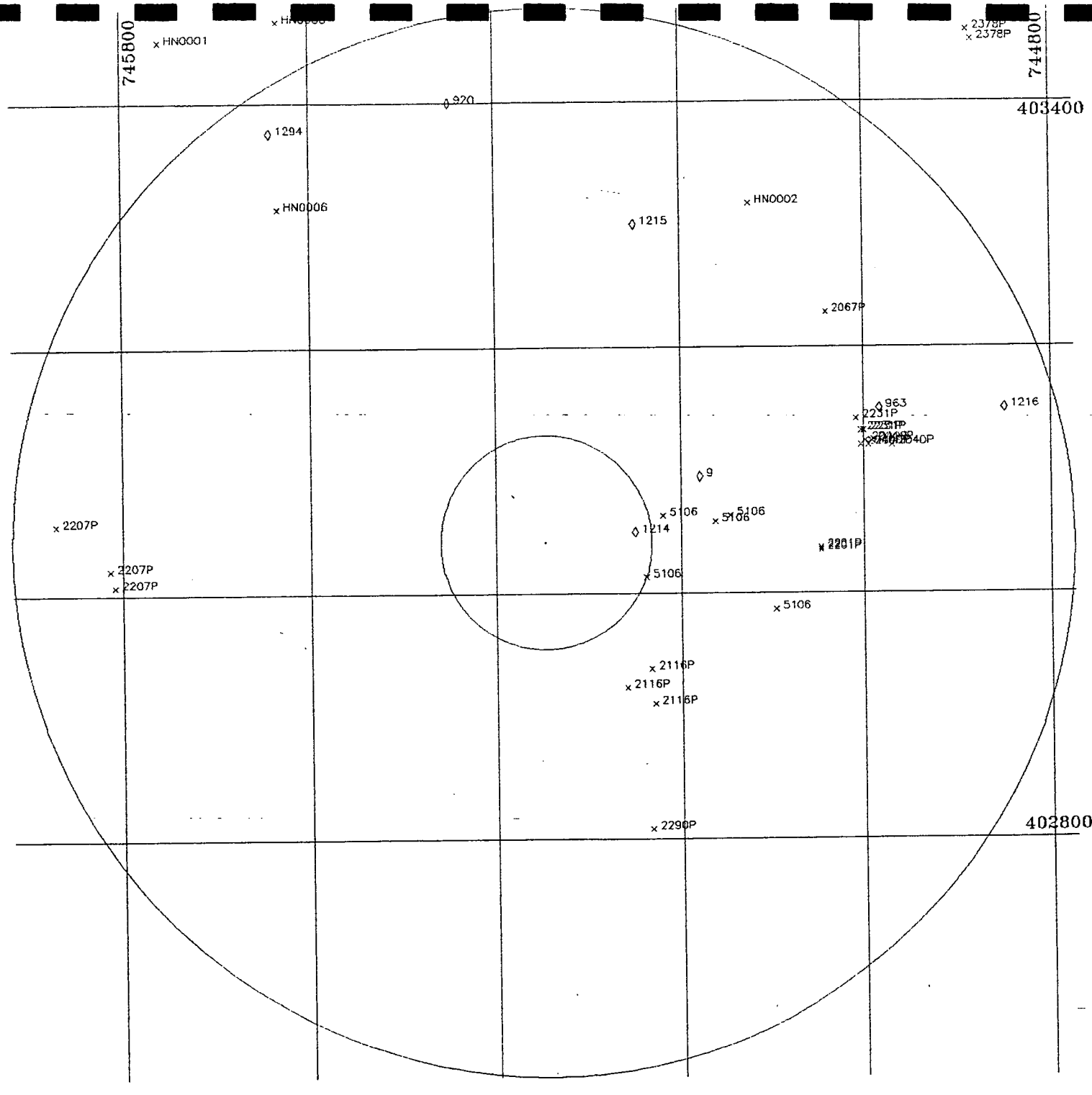
× WATER WITHDRAWAL POINTS
◊ NJGS CASE INDEX SITES
1 MILE AND 5 MILE RADII INDICATED

NJGS CASE INDEX DATA RETRIEVED FROM:
NEW JERSEY GEOLOGICAL SURVEY
ON 12/22/87

PLOT PRODUCED BY:
NJDEP
DIVISION OF WATER RESOURCES
BUREAU OF WATER ALLOCATION
CN-029
TRENTON, NJ 08625

DATE: 07/25/90

MAP 8



SUBJECT TO REVISION

 NJGS CASE INDEX SITES WITHIN 5.0 MILES OF 403025 LAT. 745328 LON. AS OF 12/22/87 (IN ORDER BY DECREASING LONGITUDE) - 07/25/90

SITENUM	NAME	LAT	LON	DISTANCE	CONTAM	FMCODE1	FMCODE2	STATUS1	STATUS2
1294	BURKHARDT RESIDENCE, FRANKLIN TWP., HUNTERDON CO.	403345	745625	4.6	63	3080		F	C
920	CLINTON WATER DEPT., CLINTON, HUNTERDON CO.	403400	745430	4.2	0	3070	6020	3	
1214	FLEMINGTON / RARITAN TWP. BARIUM CONTAM., HUNTERDON CO.	403030	745230	0.9	35	3070	3080	1	
1215	CHERRY HILL ESTATES WELL CONTAM., RARITAN TWP., HUNTERDON CO.	403300	745230	3.1	86	3090		1	G
9	AGWAY, FLEMINGTON, HUNTERDON CO.	403057	745148	1.6	63	0	0	7	
963	AGWAY PETROLEUM, FLEMINGTON JCT., HUNTERDON CO.	403130	744950	3.4	0	0	0	3	
1216	HEATHER RUN WELL CONTAMINATION, READINGTON TWP., HUNTERDON CO.	403130	744830	4.5	66	3070		1	

Number of Observations: 7

 NJGS CASE INDEX SITES WITHIN 5.0 MILES OF 403025 LAT. 745328 LON. AS OF 12/22/87 (IN ORDER BY SITE NUMBER) - 07/25/90

SITENUM	NAME	LAT	LON	DISTANCE	CONTAM	FMCODE1	FMCODE2	STATUS1	STATUS2
9	AGWAY, FLEMINGTON, HUNTERDON CO.	403057	745148	1.6	63	0	0	7	
910	CLINTON WATER DEPT., CLINTON, HUNTERDON CO.	403400	745430	4.2	0	3070	6020	3	
963	AGWAY PETROLEUM, FLEMINGTON JCT., HUNTERDON CO.	403130	744950	3.4	0	0	0	3	
1214	FLEMINGTON / RARITAN TWP. BARIUM CONTAM., HUNTERDON CO.	403030	745230	0.9	35	3070	3050	1	
1215	CHERRY HILL ESTATES WELL CONTAM., RARITAN TWP., HUNTERDON CO.	403300	745230	3.1	66	3090		1	G
1216	HEATHER RUN WELL CONTAMINATION, READINGTON TWP., HUNTERDON CO.	403130	744830	4.5	66	3070		1	
1294	BURKHARDT RESIDENCE, FRANKLIN TWP., HUNTERDON CO.	403345	745625	4.6	63	3080		F	C

Number of Observations: 7

 PRELIMINARY SURVEY OF WATER WITHDRAWAL POINTS WITHIN 5.0 MILES OF 403025 LAT. 745328 LON. (IN ORDER BY DECREASING LONGITUDE) - 07/25/90

NUMBER	NAME	SOURCEID	LOCID	LAT	LON	LLADC	DISTANCE	COUNTY	MUN	DEPTH	GEO1	GEO2	CAPACITY
2207P	MAGNESIUM ELEKTRON, INC.	2401955	2	403034	745843		4.6	19	16	150	GTRL		75
2207P	MAGNESIUM ELEKTRON, INC.	2404293	3	403012	745808		4.1	19	16	108	GTRL		75
2207P	MAGNESIUM ELEKTRON, INC.	4400006	HOUSE	403012	745808	U	4.1	19	16	65	GTRL		5
2207P	MAGNESIUM ELEKTRON, INC.	2400793	1	403004	745805		4.1	19	16	100	GTRL		70
HN0001	HODULIK BROTHERS	CAPOOLOOG CRK	STREAM 1	403430	745735	F	5.9	19	10		SRSSR		500
HN0006	PANECK, HERMAN JR.	2414477	WELL 1	403308	745620	F	4.0	19	10	200	GTRL		35
HN0006	PANECK, HERMAN JR.	POND	1	403308	745620	F	4.0	19	10	8.5	GTRL		
HN0006	PANECK, HERMAN JR.	2418729	WELL 2	403440	745620	F	5.5	19	10	480	GTRL		50
2116P	JOHANNA FARMS INC.	2407201	5	402914	745236	T	1.6	19	21	400	GTRB		230
5106	FLEMINGTON BOROUGH	2415044	RT 12, #7	403008	745223		1.0	19	09	510	GTRB		250
2116P	JOHANNA FARMS INC.	2415203	STANDBY #7	402923	745220	T	1.5	19	21	400	GTRB		300
2290P	COPPER HILL COUNTRY CLUB	2405461	2	402805	745220		2.9	19	21	166	GTRB		550
2290P	COPPER HILL COUNTRY CLUB	4400017	1	402805	745220		2.9	19	21	300	GTRB		50
2116P	JOHANNA FARMS INC.	2411368	6	402906	745218	T	1.8	19	21	400	GTRB		300
5106	FLEMINGTON BOROUGH	4400045	FILTER PL.	403038	745212	U	1.1	19	09	405	GTRB		60
5106	FLEMINGTON BOROUGH	2411748	COURT #5	403035	745139		1.6	19	09	350	GTRB		225
5106	FLEMINGTON BOROUGH	2411822	MEMORIAL 6	403038	745128		1.8	19	09	400	GTRB		
HN0002	FARM SOLD	SD. BR RARITAN	STREAM 1	403310	745115	F	3.7	19	22		SRSBR		
5106	FLEMINGTON BOROUGH	2409411	REAVIL 4	402952	745059		2.3	19	09	400	GTRB		250
2201P	U.S. BRONZE POWDERS, INC.	2402354	1	403021	745029		2.6	19	21	480	GTRB		300
2201P	U.S. BRONZE POWDERS, INC.	2406561	2	403022	745029		2.6	19	21	500	GTRB		250
2067P	LIPTON PRODUCTION, INC.	2404387	1	403217	745025		3.4	19	21	502	GTRB		600
2067P	LIPTON PRODUCTION, INC.	2404388	2	403217	745025		3.4	19	21	504	GTRB		325
2067P	LIPTON PRODUCTION, INC.	2403719	3	403217	745025		3.4	19	21	450	GTRB		
2231P	ETHYL CORP., VISQUEEN DIVISION	SOUTH BRANCH	RARITAN R.	403125	745005	U	3.2	19	21		SRSBR		
2040P	TENNECO INC.	2404192	5	403112	745002	F	3.1	19	21	500	GTRB		450
2040P	TENNECO INC.	SOUTH BRANCH	RARITAN R.	403112	745002		3.1	19	21		SRSBR		3000
2231P	ETHYL CORP., VISQUEEN DIVISION	2401510	2	403119	745002	T	3.2	19	21	400	GTRB		600
2231P	ETHYL CORP., VISQUEEN DIVISION	2401460	1	403119	745000	T	3.2	19	21	420	GTRB		600
2040P	TENNECO INC.	2403298	4	403114	744959		3.2	19	21	101	GTRB		450
2040P	TENNECO INC.	2402063	1	403112	744957		3.2	19	21	418	GTRB		450
2040P	TENNECO INC.	2402355	2	403112	744957	F	3.2	19	21	519	GTRB		450
2040P	TENNECO INC.	2403297	3	403112	744957	F	3.2	19	21	502	GTRB		450
2040P	TENNECO INC.	2405097	7	403114	744955	F	3.2	19	21	450	GTRB		450
2040P	TENNECO INC.	2404997	6	403112	744942	F	3.4	19	21	500	GTRB		450
2378P	STANTON PROPERTIES	PROPOSED WELL	2	403435	744853	F	6.2	19	22		GTRB		
2378P	STANTON PROPERTIES	2423341	3	403430	744850	F	6.2	19	22	300	GTRB		220

Number of Observations: 37

NUMBER	NAME	SOURCEID	LOCID	LAT	LON	LLACC	DISTANCE	COUNTY	MUN	DEPTH	GEO1	GEO2	CAPACITY
0040P	TENNECO INC.	2402063	1	403112	744957		3.2	19	21	418	GTRB		450
	TENNECO INC.	2402355	2	403112	744957	F	3.2	19	21	519	GTRB		450
	TENNECO INC.	2403297	3	403112	744957	F	3.2	19	21	502	GTRB		450
	TENNECO INC.	2403298	4	403114	744959		3.2	19	21	101	GTRB		450
	TENNECO INC.	2404192	5	403112	745002	F	3.1	19	21	500	GTRB		450
	TENNECO INC.	2404997	6	403112	744942	F	3.4	19	21	500	GTRB		450
	TENNECO INC.	2405097	7	403114	744955	F	3.2	19	21	450	GTRB		450
	TENNECO INC.	SOUTH BRANCH	RARITAN R.	403112	745002		3.1	19	21		SRSBR		3000
0067P	LIPTON PRODUCTION, INC.	2404387	1	403217	745025		3.4	19	21	502	GTRB		600
	LIPTON PRODUCTION, INC.	2404388	2	403217	745025		3.4	19	21	504	GTRB		325
	LIPTON PRODUCTION, INC.	2403719	3	403217	745025		3.4	19	21	450	GTRB		
2116P	JOHANNA FARMS INC.	2407201	5	402914	745236	T	1.6	19	21	400	GTRB		230
	JOHANNA FARMS INC.	2411368	6	402906	745218	T	1.8	19	21	400	GTRB		300
	JOHANNA FARMS INC.	2415203	STANDBY #7	402923	745220	T	1.5	19	21	400	GTRB		300
2201P	U.S. BRONZE POWDERS, INC.	2402354	1	403021	745029		2.6	19	21	480	GTRB		300
	U.S. BRONZE POWDERS, INC.	2406561	2	403022	745029		2.6	19	21	500	GTRB		250
2207P	MAGNESIUM ELEKTRON, INC.	2400793	1	403004	745805		4.1	19	16	100	GTRL		70
	MAGNESIUM ELEKTRON, INC.	2401955	2	403034	745843		4.6	19	16	150	GTRL		75
	MAGNESIUM ELEKTRON, INC.	2404293	3	403012	745808		4.1	19	16	108	GTRL		75
	MAGNESIUM ELEKTRON, INC.	4400006	HOUSE	403012	745808	U	4.1	19	16	68	GTRL		5
2231P	ETHYL CORP., VISQUEEN DIVISION	2401460	1	403119	745000	T	3.2	19	21	420	GTRB		600
	ETHYL CORP., VISQUEEN DIVISION	2401510	2	403119	745002	T	3.2	19	21	400	GTRB		600
	ETHYL CORP., VISQUEEN DIVISION	SOUTH BRANCH	RARITAN R.	403125	745005	U	3.2	19	21		SRSBR		
2290P	COPPER HILL COUNTRY CLUB	2405461	2	402805	745220		2.9	19	21	166	GTRB		550
	COPPER HILL COUNTRY CLUB	4400017	1	402805	745220		2.9	19	21	300	GTRB		50
2378P	STANTON PROPERTIES	2423341	3	403430	744850	F	6.2	19	22	300	GTRB		220
	STANTON PROPERTIES	PROPOSED WELL	2	403435	744853	F	6.2	19	22		GTRB		
5106	FLEMINGTON BOROUGH	2411748	COURT #5	403035	745138		1.6	19	09	350	GTRB		225
	FLEMINGTON BOROUGH	2411822	MEMORIAL 6	403038	745128		1.8	19	09	400	GTRB		
	FLEMINGTON BOROUGH	2415044	RT 12, #7	403008	745223		1.0	19	09	510	GTRB		250
	FLEMINGTON BOROUGH	2409411	REAVIL 4	402952	745059		2.3	19	09	400	GTRB		250
	FLEMINGTON BOROUGH	4400045	FILTER PL.	403038	745212	U	1.1	19	09	405	GTRB		60
HN0001	HODULIK BROTHERS	CAFOOLOOG CRK	STREAM 1	403430	745735	F	5.9	19	10		SRSBR		500
HN0002	FARM SOLD	SO. BR RARITAN	STREAM 1	403310	745115	F	3.7	19	22		SRSBR		
HN0006	PANECK, HERMAN JR.	2414477	WELL 1	403308	745620	F	4.0	19	10	200	GTRL		35
	PANECK, HERMAN JR.	POND	1	403308	745620	F	4.0	19	10	8.5	GTRL		
	PANECK, HERMAN JR.	2416729	WELL 2	403440	745620	F	5.5	19	10	480	GTRL		50

Number of Observations: 37

ATTACHMENT A

HA' 'DOUS WASTE INVESTIGATION

HW/EF _____

82-08-19-011

Inspector: Bruce Venner
Ferdinand Scaccetti

Date: 9/9/82

Location: N.J.D.O.T. Maintenance yard - Flemington

St: Rt. 31

Property owner: State of New Jersey
N.J.D.O.T.
1035 Parkway Ave.
Trenton, N.J.

Town: Raritan Twp.

County: Hunderton County

Lot: 2

Block: 29

Origin of Complaint:

Complaint: possible hazardous waste site.

Findings: At 1035 hrs. Bruce Venner and Ferdinand Scaccetti arrived at the N.J.D.O.T. Maintenance Yard in Flemington. Upon identifing ourselves to Mr. Earl Coleman (yard foreman) we were informed that no information could be given to N.J.D.E.P. personnel by Region I maintenance employees. Citing a memo dated 1/19/82 from Mr. Worth A. Cunningham, Regional Maintenance Engineer, Mr. Coleman informed us that permission to inspect and/or investigate the facility had to be granted through Mr. Cunningham's office. Mr. Cunningham was contacted by phone and permission was granted to conduct this investigation.

According to Mr. Coleman the Flemington maintenance yard property was formerly owned by Esso (Exxon Corp.). The property was purchased by the State (N.J.D.O.T.) in 1960. At this time we spoke to Mr. Edward Kerr, maintenance operator and an employee of the N.J.D.O.T. since 1957 Mr. Kerr stated that during the conversion of the Exxon property to the current D.O.T. facility, maintenance employees encountered leaded gasoline contaminated earth and shale. Fearing lead related health problems all clothing, tools, gloves, boots and equipment were buried at a site on the west border of the property (see map). This burial site is designated as a "LEAD DUMP" on N.J.D.O.T. site plans for this property. Mr. Coleman felt that this investigation was probably initiated by someone noting the "LEAD DUMP" on the site plans.

As of this writing, no evidence of N.J.D.E.P.-DWM violations were noted during an evaluation of the facility's daily operations.

1130 hrs. - We left the site.

ekd/

c: George King

ATTACHMENT A1

ADM-012

MEMO

NEW JERSEY STATE DEPARTMENT OF E ;RONMENTAL PROTECTION

TO File #82-08-19-011

FROM Ferdinand Scaccetti/Bruce Venner DATE 9/9/82

SUBJECT Recommendations

Since this investigation was probably initiated due to the expansion of US Rt. 31, it is our recommendation that any further investigative work be conducted by the Dept. of Transportation.

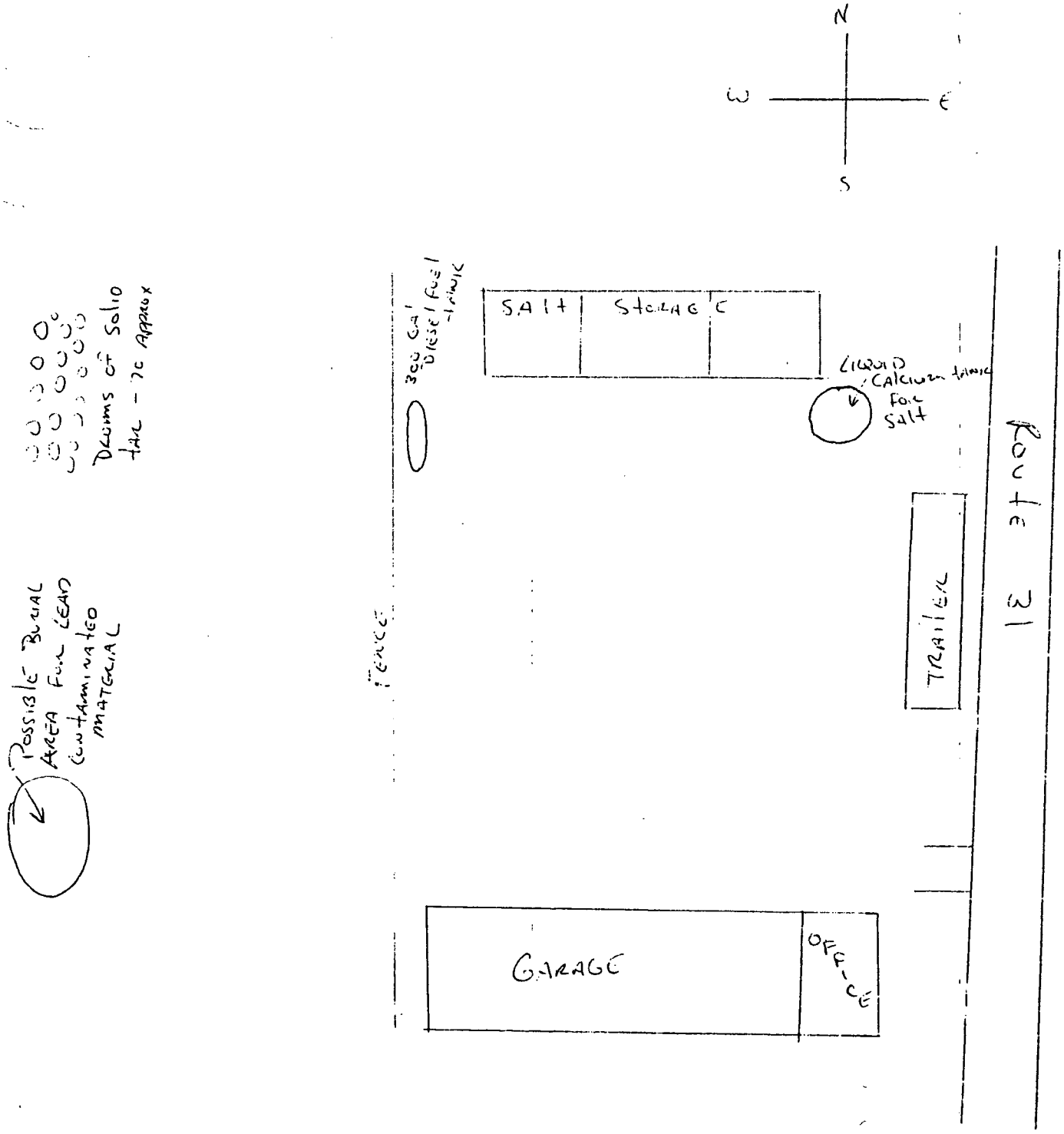
An investigation of this facility was conducted by Wayne Howitz, DWM and Bill Althoff, DWR, on 4/18/80. As a result of this investigation, potable water wells in the area were sampled and analyzed for lead content. Lead levels in these wells were found to be normal.

cc: F. Howard Zahn, Chief, Bureau of Envl. Analysis
NJ Dept. of Transportation
1035 Parkway Ave.
Trenton, NJ 08625
Attn: J. Lee Hendricks

A2

82-08-19-011
FORD SCARCETT.
NJDOT. MAIN. YARD Flemington
9/9/82
3 ACRES
Not to Scale

A3



Form VSC-005
6/82

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT

10-SP

INCIDENT REPORT

D.W.M. ASSIGNED CASE NUMBER 82-08-19-011		HOT LINE ☐	INDEXED ☐
DATE 08-19-82	TIME (Military) 1666	D.W.M. ID NO. 1449	

INCIDENT REPORTED BY:

NAME LEE HENDRICKS - DOT		PHONE (609) 452-9525 EX 279	
AFFILIATION (MARY HOHMMAN HUD (201) 645-3336 NEWARK HUD)			CODE
STREET			
CITY THIS WOMAN CALLED DOT		STATE	ZIP CODE

INCIDENT LOCATION:

NAME OFF OF HWY 31		PHONE	
STREET BLOCK 37 LOT 11		UTM VERT	UTM HORIZ
CITY RARITAN TWP HUNDERTON COUNTY	COUNTY	STATE	ZIP CODE

SOURCE OF SPILLED AND/OR DISCHARGED SUBSTANCE: Confirmed ☐ Alleged ☐ More Than 1 Source ☐

COMPANY NAME NJDOT		PHONE	
CONTACT	TITLE		
STREET		DEP COMPANY NO.	
CITY	COUNTY	STATE	ZIP CODE

SUSPECTED SPILLED AND/OR DISCHARGED SUBSTANCE: ☐ Confirmed ☐ Alleged ☐ More Than 2 Substances

1.			SUBSTANCE NO.
AMOUNT SPILLED	UNITS	A/P/E	S/L/G/M
2.			SUBSTANCE NO.
AMOUNT SPILLED	UNITS	A/P/E	S/L/G/M

DATE OF INCIDENT	TIME (Military)	TEMP.	WEATHER	WIND (Dir. & Vel.)
SPILL ORIGIN OLD TANK FARM - BEFORE DOT GOT IT				CODE
CAUSE COMPLETELY EXCAVATED AND REMOVED MATERIAL				CODE
WATER BODY AFFECTED BACK IN THE 1960				CODE
ASSOCIATED FIRE AND/OR HAZARDS ↑ MR BRITON TOLD THIS.				

INCIDENT REFERRED TO:

AGENCY	PHONE
CONTACT	AGENCY CODE

PRIMARY D.W.M. INVESTIGATOR VENNER	FOLLOWUP
NO FURTHER ACTION	DATE

COMMENTS:

NJDOT YARD - THEY OWNED THE SITE - POSSIBLE UNDERGROUND CONTAMINATION
(RIVER RD - TENNECO - [JAMES KOVACS 788-1351] HEALTH DEPT. INACTIVE - SOLID MATERIALS ONLY)
MR CUNNINGHAM 8-256-2223 - NETCONG REGION I
MR GETNER - NEAR OLD ARMORY - 4-3767
BOB BRITON → FLEMINGTON YARD
PROPERTY WAS OWNED BY ESSO - WAS A TANK FARM

A4

ATTACHMENT B

NJDO

NEW JERSEY DEPARTMENT OF TRANSPORTATION

M E M O R A N D U M

To: Memo of Record

From: Bob Lane

Principal Env. Engineer

Bureau of Project Support

Subject: Flemington Maintenance Facility Date: 8/24/90 Telephone No: 5-4292

As a result of a request by Mr. M. B. Kjetsaa to Regional Maintenance with regards to information pertaining to the subsurface disposal of regulated wastes, both solid and hazardous, Region I Maintenance indicated that "lead sludge" waste was buried at the above captioned by the previous property owner who operated a service station at the location. Interviews with Regional Maintenance forces indicated that the "lead sludge" had been buried when the underground storage tanks were removed by the previous owner and the Hunterdon County Health Department was aware of the situation. Discussions with the County Health Department revealed that local wells had been tested and found to be contaminated with low levels of chlorinated and non-chlorinated solvents, typical of degreasing agents. Additionally, the situation was reported to the NJDEP for action. Since an on-site well was used for equipment and personnel washing, the Bureau of Project Support decided to sample the well to determine if there were any worker health concerns. April 17 sampling results indicated the presence of contamination similar to, but in much higher concentrations than near by private wells, although not in high enough concentrations to be a worker health concern, unless ingested. Well water is not used for drinking water purposes at this facility.

The above information was subsequently brought to the attention of management and authorization to conduct further investigations (i.e. hydrogeology and soil sampling) was obtained. However, the writer received a telephone call from a Mr. Dan Moltees (NJDEP, Hazardous Waste Management) on August 24. Mr. Moltees indicated that the Flemington Maintenance facility was a low priority site on the CERCLIST of potential hazardous waste sites. At this time Mr. Moltees is conducting a records search and wishes to review the Department's records, conduct an on-site inspection and conduct interviews with departmental personnel familiar with the history of the site. A review of this office's records is scheduled for 10:00 on August 28.

Bob Lane

BL:th

cc: J. Walz
W. Smith
M. B. Kjetsaa

ATTACHMENT B1

ATTACHMENT C

EPA

POTENTIAL HAZARDOUS WASTE SITE
IDENTIFICATION AND PRELIMINARY ASSESSMENT

II | G-7

NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections.

GENERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II (*Preliminary Assessment*). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (*EN-335*); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME: Flemmington Dot Yard

B. STREET (or other identifier): Rt 31 North

C. CITY: Flemmington

D. STATE: N.J.

E. ZIP CODE:

F. COUNTY NAME: Hunterdon

G. OWNER/OPERATOR (*if known*)

1. NAME: N.J. Dept. of Transportation (State of N.J.)

2. TELEPHONE NUMBER:

H. TYPE OF OWNERSHIP

[ ] 1. FEDERAL [X] 2. STATE [ ] 3. COUNTY [ ] 4. MUNICIPAL [ ] 5. PRIVATE [ ] 6. UNKNOWN

I. SITE DESCRIPTION

A 4.2 acre site formerly a bulk station for standard oil; (1928-1958).

J. HOW IDENTIFIED (*i.e., citizen's complaints, OSHA citations, etc.*)

Paul F. Toft Principal Engineer. Bureau of Plant Engineering & operatings. N.J. Dept. of Transportation

K. DATE IDENTIFIED (*mo., day, & yr.*): 2/7/80

L. PRINCIPAL STATE CONTACT

1. NAME:

2. TELEPHONE NUMBER:

II. PRELIMINARY ASSESSMENT (*complete this section last*)

A. APPARENT SERIOUSNESS OF PROBLEM

[ ] 1. HIGH [ ] 2. MEDIUM [X] 3. LOW [ ] 4. NONE [ ] 5. UNKNOWN

B. RECOMMENDATION

[ ] 1. NO ACTION NEEDED (*no hazard*)

[X] 2. SITE INSPECTION NEEDED

a. TENTATIVELY SCHEDULED FOR: 4/18/80

b. WILL BE PERFORMED BY: Wayne Howitz

[ ] 3. IMMEDIATE SITE INSPECTION NEEDED

a. TENTATIVELY SCHEDULED FOR:

b. WILL BE PERFORMED BY:

[ ] 4. SITE INSPECTION NEEDED (*low priority*)

C. PREPARER INFORMATION

1. NAME: Wayne Howitz

2. TELEPHONE NUMBER: (609) 292-9120

3. DATE (*mo., day, & yr.*):

III. SITE INFORMATION

A. SITE STATUS

[ ] 1. ACTIVE (*Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.*)

[ ] 2. INACTIVE (*Those sites which no longer receive wastes.*)

[X] 3. OTHER (*specify*): (*Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.*)

B. IS GENERATOR ON SITE?

[ ] 1. NO [ ] 2. YES (*specify generator's four-digit SIC Code*):

C. AREA OF SITE (*in acres*): 4.2

D. IF APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES

1. LATITUDE (*deg.-min.-sec.*): 40° 30' 25"

2. LONGITUDE (*deg.-min.-sec.*): 74° 53' 27.5"

E. ARE THERE BUILDINGS ON THE SITE?

[ ] 1. NO [X] 2. YES (*specify*): Dot Garage

Continue On Reverse

T2070.2 (10-79)

ATTACHMENT C1 E

A. TRANSPORTER	B. STORER	C. TREATER	D. DISPOSER
1. RAIL	1. PILE	1. FILTRATION	1. LANDFILL
2. SHIP	2. SURFACE IMPOUNDMENT	2. INCINERATION	2. LANDFARM
3. BARGE	3. DRUMS	3. VOLUME REDUCTION	3. OPEN DUMP
4. TRUCK	4. TANK, ABOVE GROUND	4. RECYCLING/RECOVERY	4. SURFACE IMPOUNDMENT
5. PIPELINE	5. TANK, BELOW GROUND	5. CHEM./PHYS. TREATMENT	5. MIDNIGHT DUMPING
6. OTHER (specify)	6. OTHER (specify)	6. BIOLOGICAL TREATMENT	6. INCINERATION
		7. WASTE OIL REPROCESSING	7. UNDERGROUND INJECTION
		8. SOLVENT RECOVERY	8. OTHER (specify)
		9. OTHER (specify)	

E. SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED

Over a 30 year period (1928-1958) standard oil (ESSO) owned this 4.27 acre site, used as a bulk station. 4 10K tanks occupied this site, containing the following as reported by STD. oil, EHM, ESSO extra, kerosene and ESSO. All equipment was removed by ESSO.

V. WASTE RELATED INFORMATION

A. WASTE TYPE

[ ] 1 UNKNOWN [ ] 2 LIQUID [ ] 3. SOLID [X] 4 SLUDGE [ ] 5 GAS

B. WASTE CHARACTERISTICS

[ ] 1 UNKNOWN [ ] 2. CORROSIVE [ ] 3. IGNITABLE [ ] 4 RADIOACTIVE [ ] 5 HIGHLY VOLATILE
[X] 6 TOXIC [ ] 7 REACTIVE [ ] 8 INERT [ ] 9 FLAMMABLE

[ ] 10. OTHER (specify)

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

No

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT ?	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE
X (1) PAINT, PIGMENTS	X (1) OILY WASTES	X (1) HALOGENATED SOLVENTS	X (1) ACIDS	X (1) FLYASH	X (1) LABORATORY PHARMACEUT.
(2) METALS SLUDGES	(2) OTHER (specify)	(2) NON-HALOGNTD SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL
(3) POTW		(3) OTHER (specify)	(3) CAUSTICS	(3) MILLING/ MINE TAILINGS	(3) RADIOACTIVE
(4) ALUMINUM SLUDGE			(4. PESTICIDES	(4) FERROUS SMLTG. WASTES	(4) MUNICIPAL
(5) OTHER (specify)			(5) DYES/INKS	(5) NONFERROUS SMLTG. WASTES	(5) OTHER (specify)
			(6) CYANIDE	(6) OTHER (specify)	
			(7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			(10) METALS		
			(11) OTHER (specify)		

Continue On Page 3

C2

ATTACHMENT D

(6)

INCIDENT REPORT

D.W.M. ASSIGNED CASE NUMBER 82-08-19-01		HOT LINE ☐	INDEXED ☐
DATE 08-19-82	TIME (Military) 1600	D.W.M. ID NO. 144	

INCIDENT REPORTED BY:

NAME LEE HENDRICKS - DOT		PHONE (609) 452-9535 EX 27	
AFFILIATION MARY HOHMMAN HUD (201) 645-3336 NEWARK HUD			CODE
STREET			
CITY THIS WOMAN CALLED DOT		STATE	ZIP CODE

INCIDENT LOCATION:

NAME OFF OF HWY 31		PHONE	
STREET BLOCK 37 LOT 11		UTM VERT	UTM HORIZ
CITY RARITAN TWP HUNDERTON COUNTY	COUNTY	STATE	ZIP CODE

SOURCE OF SPILLED AND/OR DISCHARGED SUBSTANCE: Confirmed ☐ Alleged ☐ More Than 1 Source ☐

COMPANY NAME NJDOT		PHONE	
CONTACT	TITLE		
STREET		DEP COMPANY NO.	
CITY	COUNTY	STATE	ZIP CODE

SUSPECTED SPILLED AND/OR DISCHARGED SUBSTANCE: ☐ Confirmed ☐ Alleged ☐ More Than 2 Substances

1. AMOUNT SPILLED	UNITS	A/P/E	SUBSTANCE NO. / S/L/G/M
2. AMOUNT SPILLED	UNITS	A/P/E	SUBSTANCE NO. / S/L/G/M

DATE OF INCIDENT	TIME (Military)	TEMP.	WEATHER	WIND (Dir. & Vel.)

SPILL ORIGIN OLD TANK FARM - BEFORE DOT GOT IT	CODE
CAUSE COMPLETELY EXCAVATED AND REMOVED MATERIAL BACK IN THE 1960	CODE
WATER BODY AFFECTED	CODE
ASSOCIATED FIRE AND/OR HAZARDS	

MR BRITON TOLD THIS.

INCIDENT REFERRED TO:

AGENCY 5	PHONE
CONTACT	AGENCY CODE

PRIMARY D.W.M. INVESTIGATOR VENNER	FOLLOWUP
	DATE

ATTACHMENT D1

Hunterdon County Democrat
Rocky Valencia, Nick Burdett 7-10-80
Groundwater Mngt. Potable Water

Wells To Be Tested For Traces Of Lead

By Jean Hays

Tests for lead are being made today in one Flemington Borough municipal water well and two private wells just over the boundary line in Raritan Township. Authorities are concerned because concentrations of lead in the body can be poisonous.

The wells are all located close to Route 31 near the Pioneers' football field and the Black River and Western railroad tracks where the Exxon Corp. buried lead sludge when it sold its property to the state Department of Transportation (DOT) in 1959. The department uses the area for storage of vehicles and materials for highway maintenance.

DOT moved the sludge in 1959, but authorities are concerned that traces may remain.

According to Richard Stothoff, the borough's water superintendent, the water from the municipal well being checked could "go to all people in Flemington since it feeds the entire system."

If high concentrations of lead are found in today's check, the state Department of Environmental Protection (DEP) will do further water and soil tests in the vicinity — especially in the seven or eight commercial and residential wells nearby.

"We simply won't know anything positive," said Stothoff, "until the water test results come back next week." He said the state requires that there be no more than .05 parts of lead per million parts of water.

According to records at the bureau of plant engineering and operation at DOT, Exxon had a "bulk" or holding station on Route 31 from 1928 to 1958. There were five tanks at the site that held gasoline. When, in 1958, DOT began negotiating the purchase of the land, it specified that all equipment and tanks be taken away.

Cleaned Out Tanks

"We figure that at that time," said Robert Britton, who is the chief of DOT's plant engineering office, "Exxon must have cleaned out those holding tanks. The lead was partly settled in the bottom. It was, according to a sketched map we have from Exxon, simply buried behind their building."

In February of 1959, DOT asked Exxon to address the problem of the sludge. The reply, from Exxon's G.F. Starkweather, said that DOT should dig up the stuff and redeposit it elsewhere.

"At present," said Starkweather, in a letter to DOT early in 1959, "the only acceptable method of disposing of such toxic leaded material is to bury it. We would recommend that it be transferred to a more suitable area. The area behind the rear fence in the open field might offer a possible solution."

According to Britton, the sludge was removed later that year.

The whole project was done and financed, he said, by DOT with technical advice from the Ethyl Corp. of New York. Ethyl is a manufacturer of tetraethyl lead, which is added to gasoline to boost octane ratings. Britton said he was not sure how much sludge was removed or where it was taken.

According to Ken Smith of the Exxon Corp., information on such an old site is limited. He said that these days, lead sludge is turned over to "private contractors who are required to dispose of the material in accordance with safe and approved methods set down by the state and federal governments."

lea[illegible] field, DEP was called in to do a dou[illegible] check so that DOT could authorize use of the land with a clear conscience. He said that was done in spite of the thorough clean up DOT did 21 years ago.

A visual check of the site was made three months ago, according to Wayne Hallets from the toxic substances investigative unit at DEP.

"The check," said Hallets, "revealed no signs of dying vegetation, residue or chemical leachate and there were no noticable caustic odors."

The area has been regraded since the lead was dumped and Hallets said that visible effects in a case such as this would be rare.

"I am recommending," he said, "soil samples and I would also like to see a ground water monitoring well go in there. Also, there is a special lead study being conducted by DEP of the state's old junk yards—I'd like to see this site included."

Robert Reed, also from DEP's toxics investigative team, said that whether any lead traveled from where it was dumped depends on the site. The rock formation, the solubility of the lead and the nature of the aquifer all make a difference, he said, in the ability of the lead to leach into ground water.

"Until we know whether the lead has contaminated nearby water supplies," said Reed, "we will hold off on the soil samples and a monitoring well. This is an old site that hasn't caused any trouble before. Once we know how much lead, if any, is there, we can place the site on a higher priority."

Poisoning Rare

According to Dr. Glenn Lambert, who is part of the Hunterdon Medical Center's poison control team, lead poisoning is a very rare problem in this county. He said that excessive automobile traffic is one of the biggest causes of lead problems, due to lead additives in gas.

"Around 10 to 35 micrograms of lead per 100 milliliters of whole blood is considered normal," said Dr. Lambert. "Over 60 is when medical treatment is usually needed."

According to Stothoff, the borough well being tested today was drilled three years ago, strictly for the South Hunterdon Little League. He said the well turned out to be a 150-gallon-per-minute producer and was redesignated for municipal use. All Flemington wells, he said, are tested weekly for detergents, nitrates, bacteria, iron, suspended solids, color, hardness and other things — but not lead. And the private wells in the township are checked only at the discretion of their owners.

According to Stothoff, testing for lead is not normally done unless there is reason to suspect concentrations. He said that the test is relatively simple and inexpensive; it would cost about $20 to have a private company test for lead. The borough, he said, has its water tested by Quality Control of Southhampton, Pa., but there are a number of other companies in the area that do such testing.

"Really," said Stothoff, "I'm not that surprised about this. We're talking about over 20 years ago; back then, it was just standard procedure to bury stuff like this. If you were to look at most every service station, I bet you would find the very same

D2

ATTACHMENT E

Form VEM 017

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number 042424

APC PLANT ID H0009

(Mailing Address)

NEW JERSEY DEPARTMENT OF TRANSPORTATION
1035 PARKWAY AVE
TRENTON NJ 08625

(Plant Location)

RT 31 NORTH OF RT 222
FLEMINGTON

Applicant's Designation of Equipment GASOLINE STORAGE 110 16

N.J. Source No. 001 No. of Stacks 001 No. of Sources 01

Approval 03/12/79 Effective 03/12/79 Expiration 03/10/94

* CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT *

* FIVE YEAR RENEWAL *

THIS RENEWED FIVE YEAR CERTIFICATE IS BEING ISSUED UNDER THE AUTHORITY OF CHAPTER 106, P.L. 1967 (N.J.S.A.26:2C-9.2). THE POSSESSION OF THIS DOCUMENT DOES NOT RELIEVE YOU FROM THE OBLIGATION OF COMPLYING WITH ALL PROVISIONS OF THE NEW JERSEY ADMINISTRATIVE CODE, TITLE 7, CHAPTER 27.

IN ACCORDANCE WITH N.J.S.A. 54:4-3.56 TO 3.58, YOU MAY BE ENTITLED TO AN EXEMPTION OF TAXATION IF YOUR EQUIPMENT IS TAXED AND IS CONSIDERED TO BE AN AIR POLLUTION CONTROL DEVICE. A TAX EXEMPTION APPLICATION MAY BE OBTAINED FROM THE BUREAU OF NEW SOURCE REVIEW.(SEE OTHER SIDE)

IF IT IS NECESSARY TO AMEND YOUR EMERGENCY STANDBY PLANS, PLEASE CONSULT WITH THE APPROPRIATE REGIONAL OFFICE. (SEE OTHER SIDE)

IN ACCORDANCE WITH N.J.A.C. 7:27-8.3(D), THIS PERMIT AND CERTIFICATE MUST BE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

N.J. Department of Environmental Protection
Division of Environmental Quality
CN-027, 401 East State Street
Trenton, New Jersey 08625

Approved by: _____

ATTACHMENT E1

ATTACHMENT F

Hunterdon County

JOHN W. BECKLEY, M.P.H.
Director/Health Officer

COUNTY COMPLEX
ROUTE 12

Mailing Address
ADMINISTRATION BUILDING
FLEMINGTON, N.J.08822
(201)788-1351
TELEFAX (201) 782-7510

DEPARTMENT OF HEALTH

January 27, 1989

National Parts Supply Co.
Highway 31
Flemington, New Jersey 08822

Re: National Parts Supply Co.
well sample #13888

Dear Sir:

Preliminary testing of your well by Recon Systems, Inc. on - changed to original December 7, 1988 shows .26 ppb of 1,1,1-Trichloroethane, a degreasing solvent.

The Division of Water Resources, New Jersey Department of Environmental Protection has established the maximum contaminant level of 26.0 ppb for 1,1,1-Trichloroethane.

We recommend that periodic spot sampling be initiated to ensure that this contaminant does not increase above the MCL, which at that time would require confirmatory sampling, on site treatment of your water supply or provide an alternate water source.

Please do not hesitate to contact our office if you have any further questions.

Very truly yours,

James A. Gallos

James A. Gallos,
Senior Sanitarian

JAG/m.

cc: Charles Viviani, Bureau of Safe Drinking water
Blaine Fresco, NJDEP/ECRA

ATTACHMENT E1

Hunterdon County

JOHN W. BECKLEY, M.P.H.
Director/Health Officer

COUNTY COMPLEX
ROUTE 12

Mailing Address
ADMINISTRATION BUILDING
FLEMINGTON, N.J.08822

(201)788-1351
TELEFAX (201) 782-7510

DEPARTMENT OF HEALTH

January 27, 1989

American Legion Post 159
Highway 31
Flemington, New Jersey 08822

Re: Legion well sample #13885

Dear Sir:

Preliminary testing of your well by Recon Systems, Inc. on December 7, 1988 shows 5.3 ppb of Perchloroethylene, a dry-cleaning/degreasing solvent, present.

The Division of Water Resources, New Jersey Department of Environmental Protection has established the maximum contaminant level for this contaminant to be 1.0 ppb.

We recommend that you re-sample your individual water supply to confirm the initial test results.

If your re-sample analysis verifies the presence of this contaminant above the MCL you should consider on site treatment of you water supply or provide and alternate water source.

Please do not hesitate to contact our office if you have any further questions.

Very truly yours,

James A. Gallos,
Senior Sanitarian

JAG/m.

cc: Charles Viviani, Bureau of Safe Drinking Water
Blaine Fresco, NJDEP/ECRA

F2

Hunterdon County

JOHN W. BECKLEY, M.P.H.
Director/Health Officer

DEPARTMENT OF HEALTH

COUNTY COMPLEX
ROUTE 12

Mailing Address
ADMINISTRATION BUILDING
FLEMINGTON, N.J.08822

(201)788-1351

TELEFAX (201) 782-7510

January 27, 1989

All American Hero's
Highway 31
Flemington, New Jersey 08822

Re: All American Hero's well sample
13892

Dear Sir:

Preliminary testing of your well by Recon Systems, Inc. on December 7, 1988 shows .30 ppb of Perchloroethylene, a dry-cleaning/degreasing solvent, present.

The Division of Water Resources, New Jersey Department of Environmental Protection has established the maximum contaminant level for this contaminant to be 1.0 ppb.

We recommend that periodic spot sampling be initiated to ensure that this contaminant does not increase above the MCL, which at that time would require confirmatory sampling, on site treatment of your water supply or provide an alternate water source.

Please do not hesitate to contact our office if you have any further questions.

Very truly yours,

James A. Gallos

James A. Gallos,
Senior Sanitarian

JAG/m.

cc: Charles Viviani, Bureau of Safe Drinking Water
Blaine Fresco, NJDEP/ECRA

F3

Hunterdon County

JOHN W. BECKLEY, M.P.H.
Director/Health Officer

COUNTY COMPLEX
ROUTE 12

Mailing Address
ADMINISTRATION BUILDING
FLEMINGTON, N.J.08822

(201)788-1351

TELEFAX (201) 782-7510

DEPARTMENT OF HEALTH

January 27, 1989

Kar Parts
Highway 31
Flemington, New Jersey 08822

Re: Kar Parts well sample #13890

Dear Sir:

Preliminary testing of your well by Recon Systems, Inc. on December 7, 1988 shows .29 ppb of Trichlorethylene, a dry-cleaning/degreasing solvent, present.

The Division of Water Resources, New Jersey Department of Environmental Protection has established the maximum contaminant level for this contaminant to be 1.0 ppb.

We recommend that periodic spot sampling be initiated to ensure that this contaminant does not increase above the MCL, which at that time would require confirmatory sampling, on site treatment of your water supply or provide an alternate water source.

Please do not hesitate to contact our office if you have any further questions.

Very truly yours,

James A. Gallos

James A. Gallos,
Senior Sanitarian

JAG/m.

cc: Charles Viviani, Bureau of Safe Drinking Water
Blaine Fresco, NJDEP/ECRA

F4

Hunterdon County

JOHN W. BECKLEY, M.P.H.
Director/Health Officer

COUNTY COMPLEX
ROUTE 12

Mailing Address
ADMINISTRATION BUILDING
FLEMINGTON, N.J.08822

(201)788-1351
TELEFAX (201) 782-7510

DEPARTMENT OF HEALTH

January 27, 1989

Flemington Block & Supply
c/o Bill Hannigan
Route 31
P.O. Box 757
Flemington, New Jersey 08822

Re: Plant well samples
#13886 , #13887

Dear Bill:

Preliminary testing of your wells by Recon Systems, Inc. on December 7, 1988 shows 1.3 ppb of Benzene, used in detergents, insecticides and motor fuels, .39 ppb of Trichlorethylene and 3.8 ppb of Perchloroethylene, both dry-cleaning/degreasing solvents, located in the mixing building well.

Test analysis also shows 3.9 ppb of Benzene and .16 ppb of Perchlorethylene in the dispatch office well.

The Division of Water Resources, New Jersey Department of Environmental Protection has established the maximum contaminant levels for these contaminants to be 1.0 ppb for Benzene, 1.0 ppb for Perchloroethylene and 1.0 ppb for Trichloroethylene.

We recommend that you re-sample these wells to confirm the initial test results.

If your re-samples verify the presence of these contaminants above the MCL you should consider on site treatment, periodic monitoring or an alternative water source.

Please do not hesitate to contact our office if you have any further questions.

Very truly yours,

James A. Gallos

James A. Gallos,
Senior Sanitarian

JAG/m.

F5

cc: Charles Viviani, Bureau of Safe Drinking Water
Blaine Fresco, NJDEP/ECRA

Hunterdon County

JOHN W. BECKLEY, M.P.H.
Director/Health Officer

COUNTY COMPLEX
ROUTE 12

Mailing Address
ADMINISTRATION BUILDING
FLEMINGTON, N.J.08822

(201)788-1351

TELEFAX (201) 782-7510

DEPARTMENT OF HEALTH

January 27, 1989

Flemington Water Department
c/o John Gorman
38 Park Avenue
Flemington, New Jersey 08822

Re: Municipal Well Sample
13889 (Behind American Legion)

Dear John:

Preliminary testing of the Flemington municipal well on December 7, 1988 shows 3.5 ppb of Perchloroethylane, a dry-cleaning/degreasing solvent, .94 ppb of Carbon Tetra Chloride and .64 ppb of 1,1,1-Trichlorethylene, which are both degreasing solvents.

The Division of Water Resources, New Jersey Department of Environmental Protection has established the maximum contaminant levels for these contaminants to be 1.0 ppb for Perchloroethylane, 2.0 ppb for Carbon Tetra Chloride and 26.0 for 1,1,1-Trichlorethane.

We recommend that you re-sample this municipal supply well to confirm these initial test results.

If your re-sample analysis verifies the presence of these contaminants above the MCL you should consider on site treatment, periodic monitoring, or an alternative water source.

Please do not hesitate to contact our office if you have any further questions.

Very truly yours,

James A. Gallos

James A. Gallos,
Senior Sanitarian

JAG/m.

cc: Charles Viviani, Bureau of Safe Drinking Water
Blaine Fresco, NJDEP/ECRA

F6

12/16/88 15:38

RECON SYSTEMS INC.

ROUTE 202N, P.O. BOX 460, THREE BRIDGES, N.J. 08887
201-782-5900
NEW ENGLAND 617-752-4217 PENNSYLVANIA 215-433-5511

ANALYSIS REPORT

December 13, 1988

EMERGENCY RUSH

TO: REXHAM Project

Attn: D. R. Green
RECON Project No. 1319

SAMPLE: WATER, sampled 12/7/88, Flemington, New Jersey

Via EPA Methods 502.1

RECON ID	National Parts 13888	Municipal Well 13889	Kar Parts 13890	Flemington Block-Block 13891	Minimum Detection Limit
	ug/l				
Benzene	ND		ND	ND	0.40
Bromomethane	ND	ND	ND	ND	2.4
Bromoform	ND	ND	ND	ND	0.40
Carbon Tetrachloride	ND	0.94	ND	ND	0.24
Chlorobenzene	ND	ND	ND	ND	0.50
Dichlorobromomethane	ND	ND	ND	ND	0.20
Chloroethane	ND	ND	ND	ND	1.0
2-Chloroethylvinyl Ether	ND	ND	ND	ND	0.26
Chloroform	ND	ND	ND	ND	0.10
Chlorodibromomethane and/or	ND	ND	ND	ND	0.18
1,1,2-Trichloroethane and/or	ND	ND	ND	ND	0.04
cis 1,3-Dichloropropene	ND	ND	ND	ND	0.40
1,2-Dichlorobenzene	ND	ND	ND	ND	0.40
1,3-Dichlorobenzene	ND	ND	ND	ND	0.40
1,4-Dichlorobenzene	ND	ND	ND	ND	0.40
Dichlorodifluoromethane	ND	ND	ND	ND	0.50
1,1-Dichloroethane	ND	ND	ND	ND	0.14
1,2-Dichloroethane	ND	ND	ND	ND	0.06
1,1-Dichloroethylene	ND	ND	ND	ND	0.26
1,2-Dichloropropane	ND	ND	ND	ND	0.08
Trans 1,3-Dichloropropene	ND	ND	ND	ND	0.68
Ethylbenzene	ND	ND	ND	ND	0.40
Methyl Chloride	ND	ND	ND	ND	0.16
Methylene Chloride	ND	ND	ND	ND	0.50
Tetrachloroethylene and/or	ND	3.5	ND	ND	0.06
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.06
Toluene	ND	ND	ND	ND	0.40
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	0.20
1,1,1-Trichloroethane	0.26	ND	ND	ND	0.06
Trichloroethylene	ND	0.64	0.29	ND	0.24
Trichlorofluoromethane	ND	ND	ND	ND	2.4
Vinyl Chloride	[illegible]	ND	ND	ND	1.8
Meta-Xylene	ND	ND	ND	ND	0.40
Ortho + Para-Xylenes (as Para)	ND	ND	ND	ND	0.40
Analytical Remarks	-	-	-	-	

a = Possibly significant, unidentified peaks observed during normal run time
b = Possibly significant, unidentified peaks observed subsequent to normal run time

Samples from this project will be retained for sixty days from the date of this report unless otherwise directed.

ND = none detected, less than value shown
< = less than value shown
* = Probable laboratory contamination

Submitted By
Patrick J. Mulrooney
Patrick J. Mulrooney, B.S.
Manager, Instrument Lab
John R. Geissler
Per John R. Geissler, A.S.
Staff Chemist

JRG/lcj(REXHAM#2)
1319.DOU

New Jersey State Certified Water Laboratory
Certification No. 10196

F7

RECON SYSTEMS INC.

ROUTE 202N, P.O. BOX 460, THREE BRIDGES, N.J. 08887
201-782-5900
NEW ENGLAND 617-752-4217 PENNSYLVANIA 215-433-5511

ANALYSIS REPORT

December 13, 1988

EMERGENCY RUSH

TO: REXHAM Project

Attn: D. R. Green
RECON Project No. 1319

SAMPLE: WATER, sampled 12/7/88, Flemington, New Jersey

Via EPA Methods 502.1

RECON ID	Trip Blank 13893	Amer. Her. 13892	Minimum Detection Limit
	ug/l		
Benzene	ND	ND	0.40
Bromomethane	ND	ND	2.4
Bromoform	ND	ND	0.40
Carbon Tetrachloride	ND	<0.24	0.24
Chlorobenzene	ND	ND	0.50
Dichlorobromomethane	ND	ND	0.20
Chloroethane	ND	ND	1.0
2-Chloroethylvinyl Ether	ND	ND	0.26
Chloroform	ND	ND	0.10
Chlorodibromomethane and/or	ND	ND	0.18
1,1,2-Trichloroethane and/or	ND	ND	0.04
cis 1,3-Dichloropropene	ND	ND	0.40
1,2-Dichlorobenzene	ND	ND	0.40
1,3-Dichlorobenzene	ND	ND	0.40
1,4-Dichlorobenzene	ND	ND	0.40
Dichlorodifluoromethane	ND	ND	0.50
1,1-Dichloroethane	ND	ND	0.14
1,2 Dichloroethane	ND	ND	0.06
1,1-Dichloroethylene	ND	ND	0.26
1,2-Dichloropropane	ND	ND	0.08
Trans 1,3 Dichloropropene	ND	ND	0.68
Ethylbenzene	ND	ND	0.40
Methyl Chloride	ND	ND	0.16
Methylene Chloride	ND	ND	0.50
Tetrachloroethylene and/or	ND	0.30	0.06
1,1,2,2-Tetrachloroethane	ND	ND	0.06
Toluene	ND	ND	0.40
Trans 1,2-Dichloroethylene	ND	ND	0.20
1,1,1-Trichloroethane	ND	[illegible]	0.06
Trichloroethylene	ND	.24	0.24
Trichlorofluoromethane	ND	ND	2.4
Vinyl Chloride	ND	ND	1.8
Meta Xylenes	ND	ND	0.40
Ortho Xylenes (as Para)	ND	ND	0.40
Analytical Remarks	-	-	

a = Possibly significant, unidentified peaks observed during normal run time
b = Possibly significant, unidentified peaks observed subsequent to normal run time

Samples from this project will be retained for sixty days from the date of this report unless otherwise directed.

ND = none detected, less than value shown
< = less than value shown
* = probable laboratory contamination

Submitted By

Patrick J. Mulrooney, B.S.
Manager, Instrument Lab

John R. Geissler, A.S.
Staff Chemist

JRG/lej(REXHAM#2)
1319.DOU

New Jersey State Certified Water Laboratory
Certification No. 10196

F8

12/16/88 15:38

RECON SYSTEMS INC.

ROUTE 202N, P.O. BOX 460, THREE BRIDGES, N.J. 08887
201-782-5900
NEW ENGLAND 617-752-4217 PENNSYLVANIA 215-433-5511

ANALYSIS REPORT

December 13, 1988

EMERGENCY RUSH

TO: REXHAM Project

Attn: D. R. Green
RECON Project No. 1319

SAMPLE: WATER, sampled 12/7/88, Flemington, New Jersey

Via EPA Methods 502.1

RECON ID	Field Blank 13884	Legion Well 13885	Flemington Block Mix 13886	Flemington Block-Well 13887	Minimum Detection Limit
		ug/l			
Benzene	ND	ND	1.3	3.4	0.40
Bromomethane	ND	ND	ND	ND	2.4
Bromoform	ND	ND	ND	ND	0.40
Carbon Tetrachloride	ND	ND	ND	ND	0.24
Chlorobenzene	ND	ND	ND	ND	0.50
Dichlorobromomethane	ND	ND	ND	ND	0.20
Chloroethane	ND	ND	ND	ND	1.0
2-Chloroethylvinyl Ether	ND	ND	ND	ND	0.26
Chloroform	ND	ND	ND	ND	0.10
Chlorodibromomethane and/or	ND	ND	ND	ND	0.18
1,1,2-Trichloroethane and/or	ND	ND	ND	ND	0.04
cis 1,3-Dichloropropene	ND	ND	ND	ND	0.40
1,2-Dichlorobenzene	ND	ND	ND	ND	0.40
1,3-Dichlorobenzene	ND	ND	ND	ND	0.40
1,4-Dichlorobenzene	ND	ND	ND	ND	0.40
Dichlorodifluoromethane	ND	ND	ND	ND	0.50
1,1-Dichloroethane	ND	ND	ND	ND	0.14
1,2-Dichloroethane	ND	ND	ND	ND	0.06
1,1-Dichloroethylene	ND	ND	ND	ND	0.26
1,2 Dichloropropane	ND	ND	ND	ND	0.08
Trans 1,3-Dichloropropene	ND	ND	ND	ND	0.68
Ethylbenzene	ND	ND	ND	ND	0.40
Methyl Chloride	ND	ND	ND	ND	0.16
Methylene Chloride	ND	ND	ND	ND	0.50
Tetrachloroethylene and/or	ND	5.3	3.8	0.16	0.06
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.06
Toluene	ND	ND	ND	ND	0.40
Trans 1,2-Dichloroethylene	ND	[illegible]	ND	ND	0.20
1,1,1-Trichloroethane	ND	[illegible]	ND	ND	0.06
Trichloroethylene	ND	0.24	0.39	ND	0.24
Trichlorofluoromethane	ND	ND	ND	ND	2.4
Vinyl Chloride	ND	[illegible]	ND	ND	1.8
Meta-Xylene	ND	ND	[illegible]	ND	0.40
Ortho + Para-Xylenes (as Para)	ND	ND	[illegible]	ND	0.40
Analytical Remarks	-	-	-	-	

a = Possibly significant, unidentified peaks observed during normal run time
b = Possibly significant, unidentified peaks observed subsequent to normal run time

Samples from this project will be retained for sixty days from the date of this report unless otherwise directed.

ND = none detected, less than value shown
< = less than value shown
* = Probable laboratory contamination

Submitted By

Patrick J. Mulrooney, B.S.
Manager, Instrument Lab

Per John R. Geissler, A.S.
Staff Chemist

JRG/lej(REXHAM#2)
1319.DOU

New Jersey State Certified Water Laboratory
Certification No. 10196

F9

RECON SYSTEMS, INC.

Route 202 North, P.O. Box 460
Three Bridges, N.J. 08887
201-782-5900

New England 617-752-4217 Pennsylvania 215-433-5511

MEMORANDUM

TO: RECON Project File No. 1319
REXHAM CORPORATION

FROM: J. Douglas Reid-Green

RE: Results of Drinking Water Samples Taken from REXHAM Corporation's Neighbors

DATE: December 14, 1988

Preliminary results received by telephone from RECON's laboratory have indicated that Flemington Block's well in the cement mixing building, Flemington Block's well near the dispatch office and the Municipal Well near the Legion Hall need further study.

legion well is Municipal

	Benzene (RMCL=1.0)	PCE (RMCL=1.0)	Carbon Tetra-Chloride	trichloro ethylene
Legion Well	ND	5.3	ND	0.24
Flemington Block Well in Cement Mixing Bldg.	1.3	3.8	ND	0.39
Flemington Block Well Near Dispatch Office	3.4	0.16	ND	ND
Municipal Well	ND	3.5	0.94	0.64
Action Level 1	0-0.68	0-0.67	0-0.27	
Action Level 2	0.68-6.8	0.67-6.6	0.27-2.7	
Action Level 3	6.8-68.0	6.6-66.0	2.7-27.0	

All results are in ug/l.

Action Level 1 = Periodic sampling.

Action Level 2 = Conformation sampling periodic monitoring recommend treatment or alternative sources.

Submitted by

J. Douglas Reid-Green
Project Geologist

DRG/ab

ENGINEERING, CONSULTING, LABORATORY,
PILOT PLANT, PLANT TEST SERVICES

POLLUTION CONTROL, WASTE DISPOSAL
RESOURCE RECOVERY, CHEMICAL PROCESS SYSTEMS

F10

HUNTERDON COUNTY HEALTH DEPARTMENT

CONVERSATION SUMMARY REPORT

DATE 12-7-88 ☐ Telephone ☐ Office ☒ Field

WITH Doug Reid-Green FROM Recon PHONE 782-5700

SUBJECT Sampling of wells

SUMMARY OF CONVERSATION

The following locations were sampled for VOA, Pet. Hydrocarbons and (alcohol acetates?):

1. Flemington H^2O Company Supply well behind the Legion. 315' "Memorial" well. From tap.
2. Flemington American Legion - Tank
3. Karparts, Speedway Plaza, Mercer Welding, Communication Solutions all on one well. Well tested in sink at Karparts.
4. National Auto Parts - Bathroom sink
5. Flemington Block - Main office bathroom sink.
6. Flemington Block - Loading Bldg.
7. Flemington Block - Block Production Area
8. All American Hero - Sink

Project was done without the help of EWS at all.

RAB F11

Health Department Representative

ATTACHMENT G

ACCOUNT NO: W00219

[redacted]ORT N[redacted]R: 87[redacted]0
REPORT DATE :01/14/87

SAMPLE DATE :01/08/87
SAMPLE TIME :04:20PM
SAMPLE TEMP :NA F
SAMPLED BY :JC
COLLECTED BY :JC
ANALYSIS DATE :01/09/87
P.O. NUMBER :VOUCHER
PWS-ID NUMBER :1009001

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514
SOUTHAMPTON, PA. 18966 • 215/355-3900

FLEMINGTON WATER DEPT.
38 PARK AVENUE
FLEMINGTON, NJ
08822

SAMPLE/CONTAINER	TEST NUMBER → W0214-MGL	TEST NAME → LEAD	UNIT MEASURE → MG/L
WATER SAMPLE-MEMORIAL PARK WELL HOUSE 392476 SINK	<0.005		

SAMPLE# COMMENT NOTE: EACH SAMPLE ABOVE IS GIVEN A UNIQUE ID# (PRINTED JUST BELOW THE SAMPLE)
SAMPLED BY JOAN CUMMINGS
392476 QC#55322
392476 ALL TESTING IS CONDUCTED IN ACCORDANCE WITH E.P.A. METHODOLOGY.
NO DETECTABLE CONCENTRATION OF LEAD WAS FOUND IN YOUR WATER SUPPLY.THE EPA RECOMMENDED MAXIMUM LEVEL IS 0.05 PPM.

Allen D. Schopbach, President

ATTACHMENT G

> - Greater Than < - Less Th

QC INC

QUALITY CONTROL LABORATORY
1205 Industrial Highway, P.O. Box 514, Southampton, PA 18966

(215) 673-4900
355-3900
E. W. Cook, V.M.D.
A. F. Zimmermann

Community
analytical - non-regulatory
Hunterdon
Flemington W.D.

RECEIVED
JUL 29 1980
DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF POTABLE WATER

Flemington Water Dept.
38 Park Ave.
Flemington, New Jersey 08822

BACTERIOLOGICAL WATER ANALYSIS REPORT

date sampled 7-10-80
date tested 7-11-80
date reported 7-24-80
sampled by CFB
frequency weekly
copies to Hunterdon Co.
R. Stothoff
N.J. DEP

SAMPLE Water Samples	Standard Plate Count per ml	Total Coliform Count per 100 ml MPN	Fecal Coliform Count per 100 ml MPN	Iron	Lead		
(QC #6493) Memorial Well				<.01	<.001		
(QC #6494) Sam Stothoff Well				<.01	<.001		

Q C INC.

cdj

Albert F Zimmermann

G2

C

All analyses conform to the current edition of "Standard Methods for the Examination of Water and Wastewater"
Approved for the bacteriological examination of water by the Pennsylvania Department of Health, Certificate I-38B

ATTACHMENT H

Form OWR-143
7/81

NEW JE[illegible]Y DEPARTMENT OF ENVIRONMENTAL P[illegible]ECTION
DIVISION OF WATER RESOURCES
ENFORCEMENT & REGULATORY SERVICES

Country [illegible]

COMPLIANCE EVALUATION INSPECTION
PUBLIC COMMUNITY WATER SUPPLY

DATE December 4, 1986

GENERAL INFORMATION

PURVEYOR/FACILITY: Flemington Water Department

FILE LOCATION: Borough of Flemington, Hunterdon Co. | PW-ID #: 1009001

MAILING ADDRESS: 38 Park Ave, Flemington, NJ 08822

ADMIN.: Richard Stothoff | REQUIRED LICENSES: T-1 Richard, W-2 STOTHOFF

BUSINESS TELEPHONE # Admin.: (201) 782-8840 Licensed Operators: T-4 (201) 782-8840 W-4 (201) 782-8840

FACILITY DESCRIPTION

SOURCES: descriptions, locations, capacities(mgd): Well #4, Reaville Ave 0.262 Mgd
#5 - Court Street - 0.331 mgd ; #6 - Memorial Park - 0.158 mgd
#7 - Route 12 0.302 mgd

Est Tot Eff Cap: 1.053 mgd

TREATMENT: source, type, capacities(mgd): #4 - Gas chlorination - Wallace & Tiernan - 10 lb/day ca
#5 - Gas Chlorination, W&T 10 lb/day cap #6 - Gas Chlorination,
W&T - 4#/day ; #7 - Gas Chlorination - W&T, 10 lb/day capacity

Est Tot Eff Cap: 1.053 mgd

FINISHED WATER STORAGE: descriptions, locations, capacities(mg): Standpipe located off
Shields Ave, 1.00 mg, Gravity Feed

Est Tot Cap: 1.0 mgd

EMERGENCY INTERCONNECTIONS: descriptions, available gallonage(mgd):
Elizabethtown Water Co, 4" main
Maple Glen supply 6" main

[illegible]
GARAGE

ATTACHMENT H1

ATTACHMENT G

NJDEP · DIVISION OF WATER RESOURCES
PUBLIC COMMUNITY WATER SUPPLY INSPECTION

DELIVERY INFORMATION

PLANT DELIVERED WATER (mgd,month,year) Max 0.722 5/86 Min 0.628 8/86 Annual Average .664

BULK PURCHASES (provider,mgd) None

BULK SALES (customer, mgd) None

% METERED 100%

NUMBER OF SERVICES 1229

MUNICIPALITIES SERVED (est. services in each) Flemington Borough, Raritan Twp.

TOTAL ESTIMATED POPULATION SERVICED 4237

CURRENT/RECENT WATER RESTRICTIONS None

NEW CONSTRUCTION (Project Numbers) None

DISTRIBUTION MAINS: Sizing 4" (min) to 12" (max)
Pressures 40 PSI (min) to 60 PSI (max)
Hydrants/Flushing Program Yes / twice per year

MONITORING & REPORTING

PARAMETER(S)	FREQUENCY REQUIRED	FREQUENCY PERFORMED
Coliform	5 per month	per month
Inorganics	1 per 3 years	one 6/84 due 6/87
Nitrate	1 per 3 years	one 6/84 due 6/87
Trihalomethanes		
Organics		
Turbidity		
Radiological	every 4 years	completed 6/86
Secondary	every 3 years	done 5/84 due 5/87
A2&C	twice per year	5/86 due 12/86

NAME OF LABORATORY Quality Control Lab CERTIFICATION # 77166

ADDRESS Southampton PA

COMPLIANCE EVALUATION

SOURCE DEFICIENCIES None

TREATMENT DEFICIENCIES None

H2

ATTACHMENT I

(215) 673-4900
355-3900

QUALITY CONTROL LABORATORY DIVISION

1205 Industrial Highway, Southampton, PA 18966

E. W. Cook, V.M.D.
A. F. Zimmermann

New Jersey Dept. of Transportation
999 Parkway Ave.
Fernwood Service Street
Trenton, N.J. 08625

CHEMICAL WATER ANALYSIS REPORT

date sampled	7/17/80
date tested	7/18/80
date reported	8/5/80
sampled by	CFB
frequency	
copies to	S. Stothoff

(QC #6661) ANALYSIS OF ON-SITE WELL

pH	mg/l	
Total Hardness, as $CaCO_3$	mg/l	
Calcium Hardness, as $CaCO_3$	mg/l	
P Alkalinity	mg/l	
M Alkalinity	mg/l	
Acidity	mg/l	
Total Dissolved Solids	mg/l	
Total Suspended Solids	mg/l	
Total Solids	mg/l	
Volatile Residue	mg/l	
Fixed Residue	mg/l	
Settleable Solids	ml/l	
Color	units	
Conductivity	mmhos	
Odor, Threshhold Number		
Turbidity	units	
Chloride	mg/l	
Cyanide	mg/l	
Detergent (Syndets MBAS)	mg/l	
Fluoride	mg/l	
Oil and Grease	mg/l	
Phenols	mg/l	
Phosphate, Ortho, as P	mg/l	
Phosphate, Total, as P	mg/l	
Phosphorus, Total	mg/l	
Silica	mg/l	
Sulfate	mg/l	
Sulfide	mg/l	
Sulfite	mg/l	

Ammonia, as N	mg/l	
Kjeldahl Nitrogen	mg/l	
Nitrate, as N	mg/l	
Nitrite, as N	mg/l	
Organic Nitrogen	mg/l	
Chlorine Demand	mg/l	
Dissolved Oxygen	mg/l	
Biochemical Oxygen Demand	mg/l	
Chemical Oxygen Demand	mg/l	
Total Organic Carbon	mg/l	
Aluminum	mg/l	
Arsenic	mg/l	
Barium	mg/l	
Cadmium	mg/l	
Calcium	mg/l	
Chromium, Hexavalent	mg/l	
Chromium, Total	mg/l	
Copper	mg/l	
Iron	mg/l	
Lead	mg/l	<.001
Magnesium	mg/l	
Manganese	mg/l	
Mercury	mg/l	
Nickel	mg/l	
Potassium	mg/l	
Selenium	mg/l	
Silver	mg/l	
Sodium	mg/l	
Tin	mg/l	
Zinc	mg/l	

Q C INC.

lei

ATTACHMENT II

All analyses conform to the current edition of "Standard Methods for the Examination of Water and Wastewater"

WATER QUALITY ANALYSIS

SERIAL NUMBER 408024

Charged to: Flemington Maintenance Yard

Location:				
Date Collected:	March 10, 1986			
Hour: AM (PM)	1:00			
Marks on sample:	Flemington			
Temperature:				
Flow:				

Sampled by: A. Longo

Weather Conditions: Partly sunny, 45°

Other:

Reported to:

William Amerine
Bureau of Plant Engineering
& Operation

B.O.M.

CHEMICAL AND PHYSICAL ANALYSES (mg./liter, unless otherwise noted)

Sample No.	Flemington			Max.	Sample No.	Flemington			Max.
Color					Dissolved Oxygen				
Turbidity (NTU's)	2.0			5	Phosphorus, Total				
PH					Phosphorus, Ortho				
Alkalinity (24 hours)					Phenolics				
Oil and Grease					BOD				
Petroleum Hydrocarbons					COD				
Nitrate N	0.5			30.0	Conductivity (UMHOS)				
Nitrite N					Chlorides	344.0			250.0
Ammonia N					Salinity (0/00)				
Total Nitrogen					Heavy Metals				
Total Dissolved Solids	1032.0			500.0	Pb	0.006			0.05
Total Suspended Solids					Cu	0.10			1.0
Total Solids					Fe	0.92			0.3
Hardness (as $CaCO_3$)	535.0			250.0	Mn	0.02			0.05
Sulfate	16.0			250.0	Na	80.0			50.0
TOC									
					Total Coliform	Neg.			

REMARKS:

Sample taken from garage spigot.

I2

SERIAL NUMBER 430923

Charged to: Flemington Maintenance Yard

Location:				
Date Collected:	September 26, 1986			
Hour: AM (PM)	12:00			
Marks on sample:	Flemington			
Temperature:				
Flow:				
Sampled by: A. Longo				
Weather Conditions: Sunny, 60°				
Other:				

Reported to:

William Amerine
Bureau of Plant Engineering
& Operation

B.O.M.

CHEMICAL AND PHYSICAL ANALYSES (mg./liter, unless otherwise noted)

Sample No.	Flemington			Max.	Sample No.	Flemington			Max.
Color					Dissolved Oxygen				
Turbidity (NTU's)	0.75			5	Phosphorus, Total				
PH					Phosphorus, Ortho				
Alkalinity (24 hours)					Phenolics				
Oil and Grease					BOD				
Petroleum Hydrocarbons					COD				
Nitrate N	0.1			30.0	Conductivity (UMHOS)				
Nitrite N					Chlorides	52.0			250.0
Ammonia N					Salinity (0/00)				
Total Nitrogen					Heavy Metals				
Total Dissolved Solids	369.0			500.0	Pb	0.012			0.05
Total Suspended Solids					Cu	0.00			1.0
Total Solids					Fe	0.05			0.3
Hardness (as $CaCO_3$)	200.0			250.0	Mn	0.01			0.05
Sulfate	20.6			250.0	Na	10.0			50.0
TOC									
					Total Coliform	Neg.			

REMARKS:

Sample taken from garage spigot.

I3

Form LB-284 2-83

NEW JERSEY DEPARTMENT OF TRANSPORTATION
WATER QUALITY ANALYSIS

SERIAL NUMBER 480389

Charged to: Flemington Maintenance Yard

Location:					
Date Collected:	April 25, 1988				
Hour: (AM) PM	11:00				
Marks on sample:	Flemington				
Temperature:					
Flow:					
Sampled by: R. Brooks					
Weather Conditions: Sunny, 60°					
Other:					

Reported to:

William Amerine
Bureau of Plant Engineering
& Operation

J. Heilman

CHEMICAL AND PHYSICAL ANALYSES (mg./liter, unless otherwise noted)

Sample No.	Flemington			Max.	Sample No.	Flemington			Max.
Color					Dissolved Oxygen				
Turbidity (NTU's)	1.4			5	Phosphorus, Total				
PH					Phosphorus, Ortho				
Alkalinity (24 hours)					Phenolics				
Oil and Grease					BOD				
Petroleum Hydrocarbons					COD				
Nitrate N	0.70			30.0	Conductivity (UMHOS)				
Nitrite N					Chlorides	868.0			250.0
Ammonia N					Salinity (0/00)				
Total Nitrogen					Heavy Metals				
Total Dissolved Solids	1948.0			500.0	Pb	0.032			0.05
Total Suspended Solids					Cu	1.70			1.0
Total Solids					Fe	0.06			0.3
Hardness (as $CaCO_3$)	1186.0			250.0	Mn	0.02			0.05
Sulfate	14.0			250.0	Na	115.0			50.0
TOC									
					Total Coliform	Neg.			

REMARKS:

Sample taken from men's room spigot.

I4

NJ001

New Jersey State Department of Health
Public Health and Environmental Laboratories
CN 361, Trenton, NJ 08625-0361

AQUEOUS SAMPLE ANALYSIS REQUEST

Lab Sample Number

☒ Routine (9) ☐ Priority (2) ☐ Emergency (1)

SAMPLE INFORMATION

Sampling Point/Station Identification Number: S-1

Collection Date (MM/DD/YY): 4/17/90

Collection Time (Military): 14:15

Field Sample Number: 77116

Sampling Site/Facility/Supply/Location: Flemington Maintenance Yard

Stream: —

Municipality: Borough of Flemington

County: Hunterdon

Sample Type
- ☐ Stream/Surface
- ☐ Sewage ☐ Raw ☐ Effluent
- ☐ Industrial ☐ Raw ☐ Effluent
- ☐ Ground Water
- ☒ Potable-Raw
- ☐ Potable-Finished
- ☐ Private Well
- ☐ Ocean/Saline
- ☐ Other

Chain of Custody ☐ Yes ☒ No

Data Package ☒ Tier II ☐ Tier I

Retain Sample ☐ Yes ☒ No

AGENCY INFORMATION

Submitting Agency:

Sample Collector: Joseph Birchenough

Street Address:

DEP Agency No.:

DEP Project Code:

City, State, Zip Code:

Send Results To:
Joseph A. Birchenough
NJ Dept. of Transportation
Bureau of Project Support
951 Parkway Avenue
Trenton, N.J. 08625

Comments: No Trip Blank

Field Information

Water Temp °C (P00010)		Stream Flow-CFS (P00061)	
Do-Winkler (P00300)		Gage Height-Ft. (P00065)	
Do-Probe (P00299)		Spec. Cond. @ 25°C (P00095)	
pH (Field) (P00400)		Salinity (P00480)	
Sample Depth Ft. (P00003)		Tide Stage (P70211)	

ANALYSIS REQUESTS

BACTERIOLOGY

Bact. Lab. Sample No.:

Date Received:

- ☐ Fecal Coli (MPN)
- ☐ Tot. Coli (MPN)
- ☐ Fecal Coli (MF)
- ☐ Tot. Coli (MF)
- ☐ Fecal Streptococci (MPN)

DILUTIONS REQUESTED

Fecal Coli / Total Coli	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Strep.	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

NUTRIENTS

- ☐ NO2-N (NAN02N)
- ☐ NO2 + NO3-N (NAN03N)
- ☐ NH3-N (NANH3N)
- ☐ TKN (NATKN)
- ☐ ORTHO-P (NAOP)
- ☐ TOTAL-P (NATP)

DEMANDS

- ☐ COD (COD)
- ☐ TOC (DATOC)
- ☐ BOD5 (BOD5)
- ☐ CBOD5 (CBOD5)
- ☐ BOD20 (BOD2)
- ☐ CBOD20 (CBOD2)

BOD DILUTIONS REQUESTED

BOD_5			
$CBOD_5$			
BOD_{20}			
$CBOD_{20}$			

RESIDUES

- ☐ Non-Filterable Residue (RASS)
- ☐ Total Residue (RATS)
- ☐ Filterable Residue (RATDS)
- ☐ Non-Filterable Volatile Residue (RAVSS)
- ☐ Total Volatile Residue (RAVTS)
- ☐ Filterable Volatile Residue (RAVDS)
- ☐ Settable Matter (RASM)

GENERAL

- ☐ Color (GAC)
- ☐ Odor (GAO)
- ☐ Turbidity (GAT)
- ☐ PH (GAPH)
- ☐ Alkalinity (GAALK)
- ☐ Acidity (GAACID)
- ☐ Chloride (GACL)
- ☐ MBAS (GAMBAS)
- ☐ Phenols (SSI) (GAPHE)
- ☐ Phenols (PW) (GAPHEX)
- ☐ Hardness (GARHARD)
- ☐ Sulfate (GASO4)
- ☐ Oil & Grease (GAOG)
- ☒ Petroleum Hydrocarbons (GAPHC) NFP J
- ☐ Cyanide (GACN)
- ☐ Conductance (GACOND)
- ☐ Dissolved Oxy. (GADO)
- ☐ Fluoride (GAF)
- ☐ Fluoride w/Dist. (GAFD)
- ☐ Silica (GASI)
- ☐ Sulfide (GAS)

METALS

- ☐ Ag (MAAG)
- ☐ Al (MAAL)
- ☐ As (MBAS)
- ☐ Ba (MABA)
- ☐ Be (MABE)
- ☐ Ca (MACA)
- ☐ Cd (MACD)
- ☐ Cr-H (MACRH)
- ☐ Cr-T (MACR)
- ☐ Co (MACO)
- ☐ Cu (MACU)
- ☐ Fe (MAFE)
- ☐ Hg (MAHG)
- ☐ K (MAK)
- ☐ Mg (MAMG)
- ☐ Mn (MAMN)
- ☐ Na (MANA)
- ☐ Ni (MANI)
- ☐ Pb (MAPB)
- ☐ Sb (MBSB)
- ☐ Se (MBSE)
- ☐ Sn (MBSN)
- ☐ Tl (MBTI)
- ☐ Tl (MBTL)
- ☐ Zn (MAZN)

ORGANICS

- ☐ EPA 601 (VO601)
- ☐ EPA 602 (VO602)
- ☐ EPA 612 (VO612)*
- ☒ EPA 624 (VO624)*
- ☐ EPA 625 (VO625)
- ☐ EPA 625 Base Neut. only (M625B)
- ☐ EPA 625 Acids only (M625A)
- ☐ EPA 503.1 (VO503)*
- ☐ PEST 1 Organochlorines and PCB's*
- ☐ PEST 2 Organophosphates
- ☐ PEST 3 Herbicides
- ☐ PEST 4 Drinking Water
- ☐ PCB's Only

OTHER

- ☐ PHC ppm 1 K
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐

REPORT SUBMITTED
MAY 22 1990
NJDOH ENVIRONMENTAL CHEMISTRY LABORATORY

*A280 Analysis

I5

CHEM-4
FEB-87

Distribution: White-Submitting Agency; Canary-Chem. Lab. Central File; Pink-Bacteriology Lab; Gold-Sample Collector

P8912

ATTACHMENT J

RECON SYSTEMS INC.
ROUTE 202N, P.O. BOX 460, THREE BRIDGES, N.J. 08887
201-782-5900
NEW ENGLAND 617-752-4217 PENNSYLVANIA 215-433-5511

HUNTERDON COUNTY
DEPARTMENT OF HEALTH
Administration Building
Flemington, New Jersey 08822

GROUNDWATER SAMPLING AND ANALYSIS PLAN

for

REXHAM CORPORATION
Flemington, New Jersey 08822

RECON Project No. 1225

Prepared by:

RECON SYSTEMS INC.

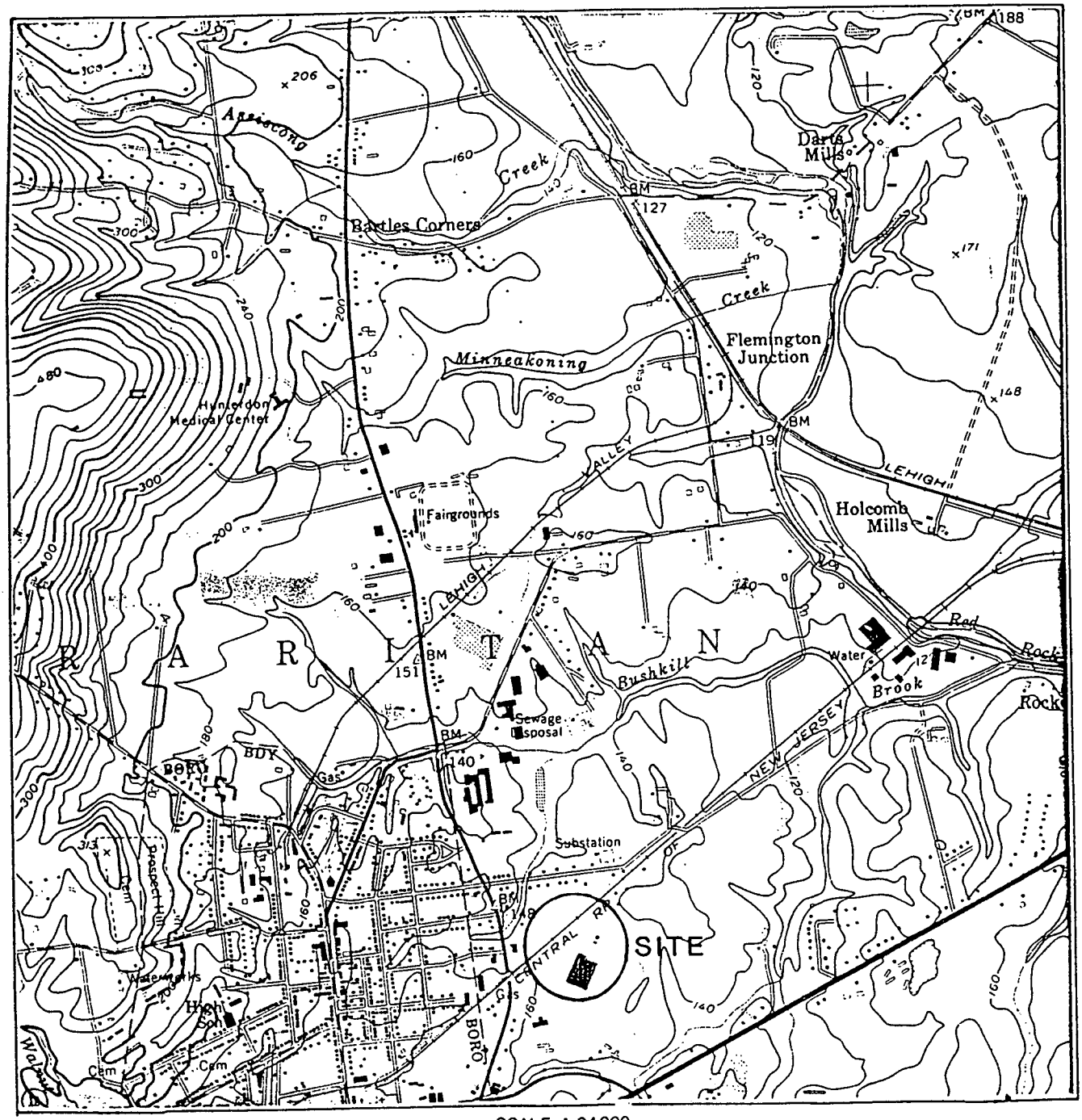
RECON Project No. 1225

December 30, 1986

1225.GSAP 12.30.86

ATTACHMENT J1

FIGURE 1



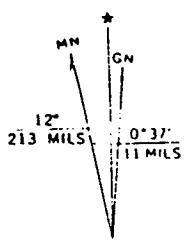
SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



RECON SYSTEMS, INC.
ROUTE 202 NORTH, THREE BRIDGES, N.J. 08887

TITLE SITE LOCATION MAP

CLIENT REXHAM CORPORATION J2

b. Soils

The site is mapped as being situated upon both Penn and Reaville series soils (figure 4; Jablonski, 1974). Both are red-brown silty loams with 10 or 20 percent red shale fragments. Both terminate at shale bedrock at relatively shallow depths (20 or 30 inches). Estimated permeabilities for Penn series range from 2.0 through 6.3 inches per hour, with available water capacities ranging from 0.06 through 0.20 inches per inch of soil. Estimated permeabilities for Reaville series range from 0.63 through 2.0 inches per hour, with available water capacities ranging from 0.12 through 0.24 inches per inch of soil.

c. Topography/Drainage

The site is situated at roughly 150 feet above Mean Sea Level (MSL), in the Raritan Valley Lowland (figure 5) roughly commensurate with the South Branch of the Raritan River drainage basin (figure 6). Surface drainage, as direct surface run-off or via a spill prevention adapted storm sewer system, is to the small creek just north of the facility. Due to the moderate soil permeability and low paved to open land ratio, drainage is dominantly accomplished by direct infiltration. Groundwater seepage to the stream north of the facility is clearly evident.

d. Geology

Test pits conducted in conjunction with Recon Systems Inc. soil investigation at the Rexham facility (table 3) indicate that to a depth ranging from three through eight (3-8) feet the site is underlain by a weathered shale sequence ranging from ten through eighty (10-80) percent shale fragments in a silty clay matrix. Nearby well records (Appendix II; Table 2) indicate that Brunswick Formation shale exists below the facility to a depth of at least five hundred (500) feet. The Brunswick Formation is characterized by " Predominantly red or reddish-brown shales and siltstones with lesser amounts of fine grained feldspathic sandstone and green, yellow, gray or purple shales and argillite... Includes coarse sandstones and conglomerates in the northeastern portion of the [Flemington] quadrangle" (Mullikin, 1984). The body of Brunswick Formation below the facility occurs as a horst isolated by northeast striking normal faults, among which is the nearly vertically dipping Flemington Fault one and one half miles northwest of the facility (figures 7a, 7b; Kasabach, 1966). Bedding within the formation at the facility strikes northeast and dips roughly 35 degrees to the northwest (Mullikin, 1984).

e. Hydrogeology

On-site test pit data and proximal well records indicate that depth to groundwater is roughly two to ten (2-10) feet below the facility (Appendix II) at roughly one hundred and forty through one hundred and forty eight (140-148) feet above mean sea level (msl). The aquifer in question is a water table aquifer occurring in the upper Brunswick Formation. The porosity and permeability of the Brunswick is almost entirely secondary with jointing occurring both parallel to bedding and as a conjugate set at high angles to bedding. The bedding plane fractures are more important near the surface while the high angle fractures dominate at great depth.

Aquifer parameters are largely dependent upon both the degree of fracturing and the plasticity of the fractured material. These properties can vary considerably within a limited volume lending an erratic or chaotic heterogeneity to the aquifer. In the course of test pit excavation it was noted that TP-6 recovered from a total depth of five (5) feet to a standing water level of two (2) feet within ten minutes of excavation. However, ten (10) feet to the northeast TP-7 recovered from a total depth of six (6) feet to a standing water level of two (2) feet over a period of twenty six hours. Furthermore, within one mile of the facility static water levels as low as one hundred (100) feet and as high as one (1) foot below grade can be found. In that the well records for two Flemington Block wells (adjacent to Rexham) indicate a static water level of ten (10) feet and test pits dug throughout the site encountered water at three through ten (3-10) feet, it can be said with some confidence that a saturated zone extensive enough to be monitored exists at depths of less than forty (40) feet throughout the site.

Specific capacities of industrial supply or municipal wells within the Brunswick Formation in the Flemington area range from 0.45 - 95.5 gpm per foot of drawdown. Well yields ranged from 15 to 765 gpm and average 281 gpm.

It is anticipated that ground water flow will be directed to the northeast, toward the south branch of the Raritan river. However flow may be influenced by heavy pumping on the part of both Rexham and US Bronze Powder Works to the east.

3. Areas of Potential Environmental Concern

This investigation is directed at the known seepage of petroleum hydrocarbons and potentially other substances from the water table to surface water within the trenched area (a network of trenches cut within a drainage swale forming the headwaters of the creek to the northeast of the facility, figure 2). There are several potential sources for contamination at the facility:

J4

ATTACHMENT K

DEQ-012

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF ENVIRONMENTAL QUALITY

FIELD RECORD OF VIOLATION

VIOLATION DATE 4-15-88 TIME AT SITE 2:35 a.m./p.m. from 3:00 a.m./p.m. to I.D. # H8009

OFFICE/BUREAU M.S.C.T. / H.C.H.D.

Sec. A — PERSON IN VIOLATION

FULL BUSINESS NAME N.J.DOT.

MAILING ADDRESS 1035 Parkway Avenue (No. Street) Trenton (City) New Jersey 08625 (Zip Code)

TYPE OF OWNERSHIP: ☐ Individual ☐ Partnership ☐ Corporation ☐ Municipal STATE (Type)

NAME OF OWNER, PARTNERS, OFFICERS, OFFICIALS

TITLE Crew Supervisor PHONE: 782-3024

PERSONS INTERVIEWED Earl Coleman

PERSON AUTHORIZED TO RECEIVE PROCESSES (Name)

MAILING ADDRESS (No. Street) (City) (Zip Code)

REMARKS:

Sec. B — LOCATION OF VIOLATION

LOCATION ADDRESS Route 31 North (No. Street) Flemington Boro (Municipality) Hunterdon (County)

Book Plate Lot 11 Block 39

PREMISES OCCUPIED AS: ☒ Owner ☐ Lessee ☐ Tenant

OWNER NJDOT (Name) 1035 Parkway Avenue (Street) Trenton (City)

Sec. C — DETAILS OF VIOLATION

CODE REFERENCE: Chapter(s) 7:27 Section(s) 8.3 Paragraph(s) (e)'

DETAILS One 10,000 and one 6,000 gallon U.G.S.T.'s specified on P/CT 042424 has been altered to one 6,000 gallon U.G.S.T. equipped with submerged fill pipes and a separate vapor control system failing to fulfill the conditions and provisions of the Certificate 042424.

REMARKS 10,000 gallon U.G.S.T. is now used for diesel storage. Permit/CT is incorrect.

RECOMMENDED ACTION

Inspector's Signature: Robert L. Brost

Print Name: Robert L. Brost

Title: P.H.I.

Reviewed By _____ Date _____

Date _____

Date _____

ATTACHMENT K1 (OVER)

☐ Check here if reverse side is used.

Form DEQ-067
6/82

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR POLLUTION CONTROL OPERATIONS

REPORT OF GASOLINE STORAGE INSPECTION

DEP PLANT ID G- H8009

STATION NAME NJDOT Flem. Yd LOGO

LOCATION (Names of Cross Streets) RT 31 N Flem -

CITY/TWP Flem Boro COUNTY Hunterdon

INSPECTION DATE 4-15-88 TIME: IN 2:35 OUT 2:50

PERSON INTERVIEWED Earl Coleman TITLE Crew Supervisor

PHONE 782-3025 NJ P/CT NO. 042424

1/10 16 3/10/89

TANK DATA

	1	2	3	4	5	6	7	8	9
1. CAPACITY, GALLONS (10^3)	10	6							
2. ABOVE, BELOW GROUND	BG	BG							
3. CONTENTS - REG, NO LEAD, PREMIUM	R	PL							

No Longer using 10,000 gal. Reg gas used for diesel

CONTROLS (See Reverse)

4. SUBMERGED FILL - YES, NO, OFFSET	Y	Y							
5. SEPARATE or MANIFOLDED VAPOR RETURN, NONE	S	S							
6. COAXIAL VAPOR RETURN - YES, NO									

ATMOSPHERIC VENT LINE RESTRICTION

7. ORIFICE - YES, NO									
8. PRESSURE/VACUUM VALVE - YES, NO	Y	Y							
9. NONE									

OBSERVATION

10. WAS A TRANSFER OBSERVED ☐ YES ☒ NO

11. ADDITIONAL COMMENTS ON REVERSE ☐

12. 8.3(d) CERTIFICATE AVAILABLE? ☐ YES – IF "YES" RECORD CT NUMBER _____
☒ NO – IF "NO" OBTAIN SUPPLIERS:
NAME CAD
ADDRESS _____

ALLEGED VIOLATION

13. ALLEGED VIOLATION OBSERVED, DEQ-012 SUBMITTED FOR SUBCHAPTER: 8.3 e 1

THE STATION OWNER-OPERATOR WAS NOTIFIED OF MY FINDINGS

K2

INSPECTOR'S SIGNATURE _____

DEQ-062
1/88

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL QUALITY
BUREAU OF ENFORCEMENT OPERATIONS

FIELD INVESTIGATION ASSIGNMENT REPORT

PLANT ID #	INSPECTOR ASSIGNED
48000	Brost

DATE ASSIGNED	DATE DUE
4-15-98	
DATE COMPLETED	COUNTY
4-15-98	Hunterdon

COMPANY NAME NJDOT 1035 Parkway Ave Trenton N.J. 08625

LOCATION Flemington Yard RT 31 N Flemington

TYPE OF ASSIGNMENT ☐ Complaint ☐ APEDS ☐ Order Followup ☒ Other (by code) REN

CYCLE

CLASS: A1 ___ A2 ___ B ___ NSPS ___ NESHAPS ___ PSD ___

AIR GRANT (105): ☐ Yes ☐ No PLLT: PT ___ S2 ___ CO ___ N2 ___ VO ___ Other ___

COMPLAINANT NAME ___ PHONE # ___

COMPLAINANT ADDRESS ___

DATE RECEIVED ___ TIME RECEIVED ___ RECORDED BY ___

ASSIGNMENT ___

PLANT CONTACT Earl Coleman

TITLE Crew Supervisor

ARRIVAL TIME AT PLANT 2:35

TOTAL ASSIGNMENT TIME 3:00

STACKS INSPECTED ___ TEMPS ___

TOTAL SOURCES INSPECTED 2

DEQ-012 COMPLETED FOR SUBCHAPTERS 8, 3(a)

SUBCHAPTER	# INSP
8	1
OTHER	

COMPLAINT	TYPE	NUMBER

Time/Date at Complainant ___/___

Verified: ☐ Yes ☐ No

Give details below

VIOLATION FOLLOWUP INSPECTION

Violation Log # ___

Order Dated ___

Subchapter Violated ___

Compliance Achieved ☐ Yes ☐ No

Give details below

TYPE SAMPLE COLLECTED ___

OF SAMPLES COLLECTED ___

COMMENTS (by code) M2

DETAILS OF INSPECTION

One 10,000 and one 6,000 gallon U.G.S.T. specified on P/C.T. 052424 has been altered to one 6,000 gallon U.G.S.T. equipped with a submerged filling and a single point vapor control system failing to fulfill the fund [illegible] and drawings at the complaint 052424.

Mr. Coleman advises regular gas and diesel fuel (one gallon) is no longer used for gas but for diesel storage.

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 4

To	From
DAN MALTESE	VINCE GIORDANO
Co. DEP	Co. H.C.H.D
Dept.	Phone # 201 2981351
Fax # 609 292 3239	Fax # 201 782 7510

INSPECTOR'S SIGNATURE [signature]

TITLE: P.H.I.

SUPERVISOR'S REVIEW INITIALS: ___ DATE: K3

SEE /

ATTACHMENT L

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT
CN 028
Trenton, N.J. 08625-0028
(609) 633-1408
Fax # (609) 633-1454

M E M O R A N D U M

TO: Files

FROM: Dan Maltese, HSMS IV
Bureau of Planning and Assessment

SUBJECT: PRELIMINARY SAMPLING ASSESSMENT,
NJDOT MAINTENANCE YARD - FLEMINGTON

On September 25, 1990, Frank Sorce and myself of the NJDEP, DHWM, BPA conducted a Preliminary Sampling Assessment of the NJDOT Maintenance Yard in Flemington, Hunterdon County, New Jersey. An organic vapor analyzer (OVA) and HNu photoionzer were used to detect soil gas.

We were met at the site at 10:00 a.m. by Mike Unangst, yard foreman and John Cree, assistant foreman.

We proceeded to walk the outside perimeter of the property to where the lead sludge was suspected to have been buried in 1960 during the conversion of the property from Esso to the NJDOT. From past conversations with Earl Coleman, former yard supervisor, past employees, local residents and file searches, the area in question is located between the northwest corner of the garage building and the RR tracks (see attached map). The sludge was reportedly buried in a pit approximately 20 by 12 feet and 10 to 12 feet deep.

The area is currently under a dirt road which winds around the outside of the fence and circles back to Route 31. No expected signs of stressed vegetation or other signs of contamination were observed due to the depth of possible contaminants below the soil and lack of vegetation in the yard.

Behind the maintenence yard is the Penn Central RR tracks and a line of trees which border both sides of the tracks. We continued to walk the treeline probing the soil occasionally getting low readings from the OVA (2-4 ppm). The area along the treeline has scattered debris such as old road signs and piles of dirt. There is an area used for cutting 55-gallon drums of joint filler/tar along the RR tracks. The NJDOT cuts the drums with a cable attached to a tractor so that the semi-solid material can be melted down in the tar pot.

A full 55-gallon drum was observed along the treeline/RR tracks behind a dumpster. The drum was not labeled and after asking another NJDOT employee it was noted that the drum contained spent oil.

New Jersey is an Equal Opportunity Employer
Recycled Paper

ATTACHMENT 21

The area behind the salt storage shed is suspected to be where machinery is cleaned with kerosene and other solvents. No levels above background were observed with the OVA or HNu.

We proceeded to inspect the area inside of the fence. The area on the east side of the building is where the signs and lines crew works. Five 55-gallon drums of methyl-ethyl ketone and fifteen 5-gallon buckets of traffic marking paint were in front of the trailer. The entire yard area inside the fence is paved.

There is a 5,400-gallon liquid calcium storage tank beside the salt storage area which is sprayed onto the loaded salt trucks to activate the salt. The liquid contains a 33% calcium and 67% water mixture. On the other side of the salt storage sheds there is a 500-gallon above ground tank of kerosene used for cleaning equipment. Mr. Cree stated that there is no special equipment cleaning area and the yard has used approximately 200 to 300 gallons of kerosene for cleaning purposes within the past year.

There is a metal shed in the southwest corner inside the fence where plow parts and signs are stored. Empty 55-gallon drums are stored behind the shed.

There are six garage bays used for storing and working on equipment/vehicles. Former yard supervisor, Earl Coleman, said that the drain in garage bays 4, 5 and 6 leads to a dry well and then to an outfall pipe near Rt. 31. He remembers workers sweeping oil and other debris which collected on the floor into the drain. During the inspection, a plate was over the drain and a tractor pulled over the plate. John Cree stated that when snow covered equipment is pulled in the garage the melted snow gets backed up in the drain.

The site has a 6,000-gallon underground storage tank (UST) used for gasoline, a 10,000-gallon UST for diesel and a 1,000-gallon UST for heating oil. The 1,000-gallon UST was replaced 3 years ago when a tractor hit the aboveground portion and water was observed in the tank. No evidence of stained soil or spillage was observed.

Frank Sorce and I left the site at 11:30 a.m.

DM:mz

L2

ATTACHMENT M

ANALYTICAL DATA REPORT PACKAGE
FOR THE
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NEW JERSEY 08625

CASE NAME: _____

CASE NUMBER: _____

Field Sample Numbers	Laboratory Sample Numbers	Sample Location	Date and Time of Collection
BSA10170163	49278	SOIL 1	1000 10/17
BSA10170164	49279	SOIL 2	1030 10/17
BSA10170165	49280	SOIL 3	1150 10/17
BSA10170166	49281	SOIL 4	1245 10/17
BSA10170167	49282	SOIL 5	1220 10/17
BSA10170168	49283	SOIL 6	1115 10/17
BSA10170158	49284	PW 1	1200 10/17
BSA10170159	49285	PW 2	1002 10/17
BSA10170160	49286	PW 3	1025 10/17
BSA10170161	49287	PW 4	1038 10/17
BSA10170162	49288	PW 5	1122 10/17
BSA10170169	49289	FIELD BLANK	0900 10/17
BSA10170170	49290	TB	---- 10/17

LABORATORY NAME: NET Atlantic, Inc.

NJDEP CERTIFICATION NUMBER: 08153
(IF APPLICABLE)

LABORATORY PROJECT MANAGER: Doug Weiler
(PRINT)

LABORATORY PROJECT MANAGER: _____
(SIGNATURE)

LABORATORY REPORTS MANAGER: Kenneth Bond
(PRINT)

LABORATORY REPORTS MANAGER: _____
(SIGNATURE)

DATE SUBMITTED: _____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49283MSD

Contract:

Name: NET

Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D6627

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 14. Date Analyzed: 10/27/90

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl Chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene Chloride	6.	U
67-64-1	Acetone	12.	U
75-15-0	Carbon Disulfide	6.	U
75-35-4	1,1-Dichloroethene		
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon Tetrachloride	6.	U
108-05-4	Vinyl Acetate	12.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene		
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene		
10061-02-6	Trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
108-10-1	4-Methyl-2-Pentanone	12.	U
591-78-6	2-Hexanone	12.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene		
108-90-7	Chlorobenzene		
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylene (total)	6.	U

000[illegible]

ATTACHMENT ML

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49283MS

Contract:

Name: NET

Code: NET Case No.: SAS No.: SDG No.:

trix: (soil/water) SOIL Lab Sample ID:

ple wt/vol: 5.0 (g/mL) G Lab File ID: D6616

vel: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 14. Date Analyzed: 10/26/90

lumn: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl Chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene Chloride	6.	U
67-64-1	Acetone	12.	U
75-15-0	Carbon Disulfide	6.	U
75-35-4	1,1-Dichloroethene		
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon Tetrachloride	6.	U
108-05-4	Vinyl Acetate	12.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene		
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene		
10061-02-6	Trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
108-10-1	4-Methyl-2-Pentanone	12.	U
591-78-6	2-Hexanone	12.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene		
108-90-7	Chlorobenzene		
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylene (total)	6.	U

000230

M2

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49284MSD

b Name: NET Contract:

b Code: NET Case No.: SAS No.: SDG No.:

trix: (soil/water) WATER Lab Sample ID:

mple wt/vol: 5.0 (g/mL) ML Lab File ID: E1012

vel: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 100. Date Analyzed: 10/24/90

olumn: (pack/cap) PACK Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	50.	U
74-83-9	Bromomethane	50.	U
75-01-4	Vinyl Chloride	50.	U
75-00-3	Chloroethane	50.	U
75-09-2	Methylene Chloride	25.	U
67-64-1	Acetone	50.	U
75-15-0	Carbon Disulfide	25.	U
75-35-4	1,1-Dichloroethene		
75-34-3	1,1-Dichloroethane	25.	U
540-59-0	1,2-Dichloroethene (total)	25.	U
67-66-3	Chloroform	25.	U
107-06-2	1,2-Dichloroethane	25.	U
78-93-3	2-Butanone	50.	U
71-55-6	1,1,1-Trichloroethane	25.	U
56-23-5	Carbon Tetrachloride	25.	U
108-05-4	Vinyl Acetate	50.	U
75-27-4	Bromodichloromethane	25.	U
78-87-5	1,2-Dichloropropane	25.	U
10061-01-5	cis-1,3-Dichloropropene	25.	U
79-01-6	Trichloroethene		
124-48-1	Dibromochloromethane	25.	U
79-00-5	1,1,2-Trichloroethane	25.	U
71-43-2	Benzene		
10061-02-6	Trans-1,3-Dichloropropene	25.	U
75-25-2	Bromoform	25.	U
108-10-1	4-Methyl-2-Pentanone	50.	U
591-78-6	2-Hexanone	50.	U
127-18-4	Tetrachloroethene	180.	
79-34-5	1,1,2,2-Tetrachloroethane	25.	U
108-88-3	Toluene		
108-90-7	Chlorobenzene		
100-41-4	Ethylbenzene	25.	U
100-42-5	Styrene	25.	U
1330-20-7	Xylene (total)	25.	U

000127

M3

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49284MS

Contract:

NET

NET Case No.: SAS No.: SDG No.:

(soil/water) WATER Lab Sample ID:

wt/vol: 5.0 (g/mL) ML Lab File ID: E1011

(low/med) LOW Date Received: 10/18/90

ture: not dec. 100. Date Analyzed: 10/24/90

(pack/cap) PACK Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	50.	U
74-83-9	Bromomethane	50.	U
75-01-4	Vinyl Chloride	50.	U
75-00-3	Chloroethane	50.	U
75-09-2	Methylene Chloride	25.	U
67-64-1	Acetone	50.	U
75-15-0	Carbon Disulfide	25.	U
75-35-4	1,1-Dichloroethene		
75-34-3	1,1-Dichloroethane	25.	U
540-59-0	1,2-Dichloroethene (total)	25.	U
67-66-3	Chloroform	25.	U
107-06-2	1,2-Dichloroethane	25.	U
78-93-3	2-Butanone	50.	U
71-55-6	1,1,1-Trichloroethane	25.	U
56-23-5	Carbon Tetrachloride	25.	U
108-05-4	Vinyl Acetate	50.	U
75-27-4	Bromodichloromethane	25.	U
78-87-5	1,2-Dichloropropane	25.	U
10061-01-5	cis-1,3-Dichloropropene	25.	U
79-01-6	Trichloroethene		
124-48-1	Dibromochloromethane	25.	U
79-00-5	1,1,2-Trichloroethane	25.	U
71-43-2	Benzene		
10061-02-6	Trans-1,3-Dichloropropene	25.	U
75-25-2	Bromoform	25.	U
108-10-1	4-Methyl-2-Pentanone	50.	U
591-78-6	2-Hexanone	50.	U
127-18-4	Tetrachloroethene	180.	
79-34-5	1,1,2,2-Tetrachloroethane	25.	U
108-88-3	Toluene		
108-90-7	Chlorobenzene		
100-41-4	Ethylbenzene	25.	U
100-42-5	Styrene	25.	U
1330-20-7	Xylene (total)	25.	U

000192

M4

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49290

Name: NET

Contract:

Code: NET

Case No.:

SAS No.:

SDG No.:

trix: (soil/water) WATER

Lab Sample ID:

ple wt/vol: 5.0 (g/mL) ML

Lab File ID: E1002

vel: (low/med) LOW

Date Received: 10/18/90

oisture: not dec. 100.

Date Analyzed: 10/24/90

umn: (pack/cap) PACK

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
67-64-1	Acetone	15.	
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	Trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylene (total)	5.	U

000122

MS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49289

Name: NET Contract:

Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1009

Level: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 100. Date Analyzed: 10/24/90

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	Trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylene (total)	5.	U

0001LS

M6

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49288

Lab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1007

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 100. Date Analyzed: 10/24/90

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	Trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylene (total)	5.	U

000111

M7

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49287

Lab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1008

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 100. Date Analyzed: 10/24/90

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	Trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylene (total)	5.	U

000110

M8

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49286

Lab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1006

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 100. Date Analyzed: 10/24/90

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	Trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylene (total)	5.	U

000126

M9

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49285

b Name: NET Contract:

b Code: NET Case No.: SAS No.: SDG No.:

trix: (soil/water) WATER Lab Sample ID:

ple wt/vol: 5.0 (g/mL) ML Lab File ID: E1001

vel: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 100. Date Analyzed: 10/24/90

lumn: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	Trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	9.	J
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylene (total)	5.	U

M10

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49284

Lab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1010

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 100. Date Analyzed: 10/24/90

Column: (pack/cap) PACK Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	50.	U
74-83-9	Bromomethane	50.	U
75-01-4	Vinyl Chloride	50.	U
75-00-3	Chloroethane	50.	U
75-09-2	Methylene Chloride	25.	U
67-64-1	Acetone	50.	U
75-15-0	Carbon Disulfide	25.	U
75-35-4	1,1-Dichloroethene	25.	U
75-34-3	1,1-Dichloroethane	25.	U
540-59-0	1,2-Dichloroethene (total)	25.	U
67-66-3	Chloroform	25.	U
107-06-2	1,2-Dichloroethane	25.	U
78-93-3	2-Butanone	50.	U
71-55-6	1,1,1-Trichloroethane	25.	U
56-23-5	Carbon Tetrachloride	25.	U
108-05-4	Vinyl Acetate	50.	U
75-27-4	Bromodichloromethane	25.	U
78-87-5	1,2-Dichloropropane	25.	U
10061-01-5	cis-1,3-Dichloropropene	25.	U
79-01-6	Trichloroethene	25.	U
124-48-1	Dibromochloromethane	25.	U
79-00-5	1,1,2-Trichloroethane	25.	U
71-43-2	Benzene	25.	U
10061-02-6	Trans-1,3-Dichloropropene	25.	U
75-25-2	Bromoform	25.	U
108-10-1	4-Methyl-2-Pentanone	50.	U
591-78-6	2-Hexanone	50.	U
127-18-4	Tetrachloroethene	180.	
79-34-5	1,1,2,2-Tetrachloroethane	25.	U
108-88-3	Toluene	25.	U
108-90-7	Chlorobenzene	25.	U
100-41-4	Ethylbenzene	25.	U
100-42-5	Styrene	25.	U
1330-20-7	Xylene (total)	25.	U

000026

M11

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49283

Contract:

Lab Name: NET

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D6615

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 14. Date Analyzed: 10/26/90

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl Chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene Chloride	6.	U
67-64-1	Acetone	12.	U
75-15-0	Carbon Disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon Tetrachloride	6.	U
108-05-4	Vinyl Acetate	12.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	Trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
108-10-1	4-Methyl-2-Pentanone	12.	U
591-78-6	2-Hexanone	12.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	6.	U
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylene (total)	6.	U

000092 M12

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

43282

Contract:

Name: NET

Code: NET Case No.: SAS No.: SDG No.:

Lab Sample ID:

Matrix: (soil/water) SOIL

Lab File ID: D6618

Sample wt/vol: 5.0 (g/mL) G

Date Received: 10/18/90

Level: (low/med) LOW

Date Analyzed: 10/26/90

Moisture: not dec. 29.

Dilution Factor: 1.00

Column: (pack/cap) PACK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14.	U
74-83-9	Bromomethane	14.	U
75-01-4	Vinyl Chloride	14.	U
75-00-3	Chloroethane	14.	U
75-09-2	Methylene Chloride	7.	U
67-64-1	Acetone	14.	U
75-15-0	Carbon Disulfide	7.	U
75-35-4	1,1-Dichloroethene	7.	U
75-34-3	1,1-Dichloroethane	7.	U
540-59-0	1,2-Dichloroethene (total)	7.	U
67-66-3	Chloroform	7.	U
107-06-2	1,2-Dichloroethane	7.	U
78-93-3	2-Butanone	14.	U
71-55-6	1,1,1-Trichloroethane	7.	U
56-23-5	Carbon Tetrachloride	7.	U
108-05-4	Vinyl Acetate	14.	U
75-27-4	Bromodichloromethane	7.	U
78-87-5	1,2-Dichloropropane	7.	U
10061-01-5	cis-1,3-Dichloropropene	7.	U
79-01-6	Trichloroethene	7.	U
124-48-1	Dibromochloromethane	7.	U
79-00-5	1,1,2-Trichloroethane	7.	U
71-43-2	Benzene	7.	U
10061-02-6	Trans-1,3-Dichloropropene	7.	U
75-25-2	Bromoform	7.	U
108-10-1	4-Methyl-2-Pentanone	14.	U
591-78-6	2-Hexanone	14.	U
127-18-4	Tetrachloroethene	7.	U
79-34-5	1,1,2,2-Tetrachloroethane	7.	U
108-88-3	Toluene	7.	U
108-90-7	Chlorobenzene	7.	U
100-41-4	Ethylbenzene	7.	U
100-42-5	Styrene	7.	U
1330-20-7	Xylene (total)	7.	U

000050 M13

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

49282

Contract:

Case No.: SAS No.: SDG No.:

Lab Sample ID:

(soil/water) SOIL

Lab File ID: D6618

t/vol: 5.0 (g/mL) G

Date Received: 10/18/90

(low/med) LOW

Date Analyzed: 10/26/90

not dec. 29.

Dilution Factor: 1.00

(pack/cap) PACK

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

TICs found: 9

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	28.76	10.	J
2. - -	UNKNOWN	31.04	20.	J
3. 62108-23-0	DECANE256TRIMETHYL	22.62	100.	J
4. - -	UNKNOWN	25.25	7.	J
5. - -	UNKNOWN	25.79	8.	J
6. - -	UNKNOWN	29.46	10.	J
7. - -	UNKNOWN	32.66	10.	J
8. - -	UNKNOWN	34.17	30.	J
9. - -	UNKNOWN	34.59	30.	J
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

000031

M14

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49281

Lab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D6621

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 12. Date Analyzed: 10/26/90

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11.	U
74-83-9	Bromomethane	11.	U
75-01-4	Vinyl Chloride	11.	U
75-00-3	Chloroethane	11.	U
75-09-2	Methylene Chloride	6.	U
67-64-1	Acetone	11.	U
75-15-0	Carbon Disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	11.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon Tetrachloride	6.	U
108-05-4	Vinyl Acetate	11.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	Trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
108-10-1	4-Methyl-2-Pentanone	11.	U
591-78-6	2-Hexanone	11.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	6.	U
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	19.	
100-42-5	Styrene	6.	U
1330-20-7	Xylene (total)	190.	

000033

M15

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

49281

b Name: NET Contract:

b Code: NET Case No.: SAS No.: SDG No.:

trix: (soil/water) SOIL Lab Sample ID:

mple wt/vol: 5.0 (g/mL) G Lab File ID: D6621

vel: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 12. Date Analyzed: 10/26/90

lumn: (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 11 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	22.63	10.	J
2.	- -	UNKNOWN	25.79	20.	J
3.	- -	UNKNOWN	26.53	6.	J
4.	- -	UNKNOWN	27.03	20.	J
5.	- -	UNKNOWN	28.69	20.	J
6.	- -	UNKNOWN	29.54	100.	J
7.	103-65-1	PROPYLBENZENE	31.48	200.	J
8.	- -	UNKNOWN	32.60	20.	J
9.	- -	UNKNOWN	32.75	30.	J
10.	98-82-8	METHYLETHYLBENZENE	34.22	600.	J
11.	611-14-3	1ETHY2METHYLBENZENE	35.26	400.	J
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

000084

M16

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49280

ab Name: NET Contract:

ab Code: NET Case No.: SAS No.: SDG No.:

atrix: (soil/water) SOIL Lab Sample ID:

ample wt/vol: 5.0 (g/mL) G Lab File ID: D6613

evel: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 10. Date Analyzed: 10/26/90

olumn: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11.	U
74-83-9	Bromomethane	11.	U
75-01-4	Vinyl Chloride	11.	U
75-00-3	Chloroethane	11.	U
75-09-2	Methylene Chloride	8.	
67-64-1	Acetone	11.	U
75-15-0	Carbon Disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	11.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon Tetrachloride	6.	U
108-05-4	Vinyl Acetate	11.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	Trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
108-10-1	4-Methyl-2-Pentanone	11.	U
591-78-6	2-Hexanone	11.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	6.	U
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylene (total)	6.	U

000015

M17

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49279

ab Name: NET Contract:

Code: NET Case No.: SAS No.: SDG No.:

trix: (soil/water) SOIL Lab Sample ID:

mple wt/vol: 5.0 (g/mL) G Lab File ID: D6612

el: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 13. Date Analyzed: 10/26/90

umn: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11.	U
74-83-9	Bromomethane	11.	U
75-01-4	Vinyl Chloride	11.	U
75-00-3	Chloroethane	11.	U
75-09-2	Methylene Chloride	6.	U
67-64-1	Acetone	11.	U
75-15-0	Carbon Disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	11.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon Tetrachloride	6.	U
108-05-4	Vinyl Acetate	11.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	Trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
108-10-1	4-Methyl-2-Pentanone	11.	U
591-78-6	2-Hexanone	11.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	6.	U
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylene (total)	6.	U

000075

M18

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49278

b Name: NET Contract:

b Code: NET Case No.: SAS No.: SDG No.:

trix: (soil/water) SOIL Lab Sample ID:

ample wt/vol: 5.0 (g/mL) G Lab File ID: D6611

vel: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 23. Date Analyzed: 10/26/90

lumn: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13.	U
74-83-9	Bromomethane	13.	U
75-01-4	Vinyl Chloride	13.	U
75-00-3	Chloroethane	13.	U
75-09-2	Methylene Chloride	6.	U
67-64-1	Acetone	13.	U
75-15-0	Carbon Disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	13.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon Tetrachloride	6.	U
108-05-4	Vinyl Acetate	13.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	Trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
108-10-1	4-Methyl-2-Pentanone	13.	U
591-78-6	2-Hexanone	13.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	6.	U
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylene (total)	6.	U

M19

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49289

ab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

atrix: (soil/water) WATER Lab Sample ID:

ample wt/vol: 1000.0 (g/mL) ML Lab File ID: F2792

Level: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

PC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-Chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49289

Lab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: F2792

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	7.	J
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49288

Lab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: F2791

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-Chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

M22

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49288

Lab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: F2791

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	U
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from diphenylamine

000353

M23

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49287

Lab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: F2814

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-Chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49287

Lab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: F2814

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	U
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49286

ab Name: NET Contract:

ab Code: NET Case No.: SAS No.: SDG No.:

atrix: (soil/water) WATER Lab Sample ID:

ample wt/vol: 1000.0 (g/mL) ML Lab File ID: F2789

evel: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

xtraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

PC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-Chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

M26

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49286

Lab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: F2789

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	U
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from diphenylamine

M27

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49285

Lab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: F2788

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-Chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

000021 M28

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49285

Lab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: F2788

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	U
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49284

Lab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: F2804

Level: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-Chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

M30

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49284

Lab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: F2804

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	U
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

49284

Lab Name: NET Contract:

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: F2804

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

Number TICs found: 01

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	127184	Ethene, tetrachloro- (9CI)	3.79	32.00	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49283

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2809

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 15. dec. 15. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390.	U
111-44-4	bis(2-Chloroethyl)ether	390.	U
95-57-8	2-Chlorophenol	390.	U
541-73-1	1,3-Dichlorobenzene	390.	U
106-46-7	1,4-Dichlorobenzene	390.	U
100-51-6	Benzyl alcohol	390.	U
95-50-1	1,2-Dichlorobenzene	390.	U
95-48-7	2-Methylphenol	390.	U
39638-32-9	bis(2-Chloroisopropyl)ether	390.	U
106-44-5	4-Methylphenol	390.	U
621-64-7	N-Nitroso-di-n-propylamine	390.	U
67-72-1	Hexachloroethane	390.	U
98-95-3	Nitrobenzene	390.	U
78-59-1	Isophorone	390.	U
88-75-5	2-Nitrophenol	390.	U
105-67-9	2,4-Dimethylphenol	390.	U
65-85-0	Benzoic acid	2000.	U
111-91-1	bis(2-Chloroethoxy)methane	390.	U
120-83-2	2,4-Dichlorophenol	390.	U
120-82-1	1,2,4-Trichlorobenzene	390.	U
91-20-3	Naphthalene	390.	U
106-47-8	4-Chloroaniline	390.	U
87-68-3	Hexachlorobutadiene	390.	U
59-50-7	4-Chloro-3-methylphenol	390.	U
91-57-6	2-Methylnaphthalene	390.	U
77-47-4	Hexachlorocyclopentadiene	390.	U
88-06-2	2,4,6-Trichlorophenol	390.	U
95-95-4	2,4,5-Trichlorophenol	2000.	U
91-58-7	2-Chloronaphthalene	390.	U
88-74-4	2-Nitroaniline	2000.	U
131-11-3	Dimethylphthalate	390.	U
208-96-8	Acenaphthylene	390.	U
606-20-2	2,6-Dinitrotoluene	390.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49283

ab Name: NET Contract: 68-W8-0078

ab Code: NET Case No.: SAS No.: SDG No.:

atrix: (soil/water) SOIL Lab Sample ID:

ample wt/vol: 30.0 (g/mL) G Lab File ID: F2809

evel: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 15. dec. 15. Date Extracted: 10/24/90

xtraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/13/90

PC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2000.	U
83-32-9	Acenaphthene	390.	U
51-28-5	2,4-Dinitrophenol	2000.	U
100-02-7	4-Nitrophenol	2000.	U
132-64-9	Dibenzofuran	390.	U
121-14-2	2,4-Dinitrotoluene	390.	U
84-66-2	Diethylphthalate	390.	U
7005-72-3	4-Chlorophenyl-phenylether	390.	U
86-73-7	Fluorene	390.	U
100-01-6	4-Nitroaniline	2000.	U
534-52-1	4,6-Dinitro-2-methylphenol	2000.	U
86-30-6	N-Nitrosodiphenylamine (1)	390.	U
101-55-3	4-Bromophenyl-phenylether	390.	U
118-74-1	Hexachlorobenzene	390.	U
87-86-5	Pentachlorophenol	2000.	U
85-01-8	Phenanthrene	390.	U
120-12-7	Anthracene	390.	U
84-74-2	Di-n-butylphthalate	390.	U
206-44-0	Fluoranthene	390.	U
129-00-0	Pyrene	390.	U
85-68-7	Butylbenzylphthalate	390.	U
91-94-1	3,3'-Dichlorobenzidine	780.	U
56-55-3	Benzo(a)anthracene	390.	U
218-01-9	Chrysene	390.	U
117-81-7	bis(2-Ethylhexyl)phthalate	390.	U
117-84-0	Di-n-octylphthalate	390.	U
205-99-2	Benzo(b)fluoranthene	390.	U
207-08-9	Benzo(k)fluoranthene	390.	U
50-32-8	Benzo(a)pyrene	390.	U
193-39-5	Indeno(1,2,3-cd)pyrene	390.	U
53-70-3	Dibenz(a,h)anthracene	390.	U
191-24-2	Benzo(g,h,i)perylene	390.	U

(1) - Cannot be separated from diphenylamine

000216 4/87 Rev
M34

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

49283

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2809

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 15. dec. 15. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	113-00-8	Guanidine (8CI9CI)	4.52	7000.	BJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49282

ab Name: NET Contract: 68-W8-0078

ab Code: NET Case No.: SAS No.: SDG No.:

atrix: (soil/water) SOIL Lab Sample ID:

ample wt/vol: 30.0 (g/mL) G Lab File ID: F2816

evel: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 29. dec. 29. Date Extracted: 10/24/90

xtraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

PC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	470.	U
111-44-4	bis(2-Chloroethyl)ether	470.	U
95-57-8	2-Chlorophenol	470.	U
541-73-1	1,3-Dichlorobenzene	470.	U
106-46-7	1,4-Dichlorobenzene	470.	U
100-51-6	Benzyl alcohol	470.	U
95-50-1	1,2-Dichlorobenzene	470.	U
95-48-7	2-Methylphenol	470.	U
39638-32-9	bis(2-Chloroisopropyl)ether	470.	U
106-44-5	4-Methylphenol	470.	U
621-64-7	N-Nitroso-di-n-propylamine	470.	U
67-72-1	Hexachloroethane	470.	U
98-95-3	Nitrobenzene	470.	U
78-59-1	Isophorone	470.	U
88-75-5	2-Nitrophenol	470.	U
105-67-9	2,4-Dimethylphenol	470.	U
65-85-0	Benzoic acid	2300.	U
111-91-1	bis(2-Chloroethoxy)methane	470.	U
120-83-2	2,4-Dichlorophenol	470.	U
120-82-1	1,2,4-Trichlorobenzene	470.	U
91-20-3	Naphthalene	470.	U
106-47-8	4-Chloroaniline	470.	U
87-68-3	Hexachlorobutadiene	470.	U
59-50-7	4-Chloro-3-methylphenol	470.	U
91-57-6	2-Methylnaphthalene	470.	U
77-47-4	Hexachlorocyclopentadiene	470.	U
88-06-2	2,4,6-Trichlorophenol	470.	U
95-95-4	2,4,5-Trichlorophenol	2300.	U
91-58-7	2-Chloronaphthalene	470.	U
88-74-4	2-Nitroaniline	2300.	U
131-11-3	Dimethylphthalate	470.	U
208-96-8	Acenaphthylene	470.	U
606-20-2	2,6-Dinitrotoluene	470.	U

000288

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49282

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2816

Level: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 29. dec. 29. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2300.	U
83-32-9	Acenaphthene	470.	U
51-28-5	2,4-Dinitrophenol	2300.	U
100-02-7	4-Nitrophenol	2300.	U
132-64-9	Dibenzofuran	470.	U
121-14-2	2,4-Dinitrotoluene	470.	U
84-66-2	Diethylphthalate	470.	U
7005-72-3	4-Chlorophenyl-phenylether	470.	U
86-73-7	Fluorene	470.	U
100-01-6	4-Nitroaniline	2300.	U
534-52-1	4,6-Dinitro-2-methylphenol	2300.	U
86-30-6	N-Nitrosodiphenylamine (1)	470.	U
101-55-3	4-Bromophenyl-phenylether	470.	U
118-74-1	Hexachlorobenzene	470.	U
87-86-5	Pentachlorophenol	2300.	U
85-01-8	Phenanthrene	470.	U
120-12-7	Anthracene	470.	U
84-74-2	Di-n-butylphthalate	470.	U
206-44-0	Fluoranthene	470.	U
129-00-0	Pyrene	470.	U
85-68-7	Butylbenzylphthalate	470.	U
91-94-1	3,3'-Dichlorobenzidine	930.	U
56-55-3	Benzo(a)anthracene	470.	U
218-01-9	Chrysene	470.	U
117-81-7	bis(2-Ethylhexyl)phthalate	470.	U
117-84-0	Di-n-octylphthalate	470.	U
205-99-2	Benzo(b)fluoranthene	470.	U
207-08-9	Benzo(k)fluoranthene	470.	U
50-32-8	Benzo(a)pyrene	470.	U
193-39-5	Indeno(1,2,3-cd)pyrene	470.	U
53-70-3	Dibenz(a,h)anthracene	470.	U
191-24-2	Benzo(g,h,i)perylene	470.	U

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

49282

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2816

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 29. dec. 29. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	75-91-2	Hydroperoxide, 1,1-dimethyle	4.31	4000.	J
2.	6044-71-9	Dodecane, 6-methyl- (8CI9CI)	12.35	400.	J
3.	62016-34-6	Octane, 2,3,7-trimethyl- (9C	13.45	400.	J
4.	629-50-5	Tridecane (8CI9CI)	13.94	300.	J
5.	50871-03-9	1-Decene, 3,4-dimethyl- (9CI	14.15	200.	J
6.	74645-98-0	Dodecane, 2,7,10-trimethyl-	15.29	500.	J
7.	544-76-3	Hexadecane (8CI9CI)	15.69	400.	J
8.	54832-83-6	1H-Indene, octahydro-2,2,4,4	16.12	300.	J
9.	17301-30-3	Undecane, 3,8-dimethyl- (8CI	16.72	1000.	J
10.	17312-53-7	Decane, 3,6-dimethyl- (8CI9C	17.34	600.	J
11.	- -	UNKNOWN	18.08	200.	J
12.	544-76-3	Hexadecane (8CI9CI)	18.89	700.	J
13.	1921-70-6	Pentadecane, 2,6,10,14-tetra	19.62	800.	J
14.	629-78-7	Heptadecane (8CI9CI)	20.36	800.	J
15.	1921-70-6	Pentadecane, 2,6,10,14-tetra	20.45	2000.	J
16.	544-76-3	Hexadecane (8CI9CI)	21.76	700.	J
17.	638-36-8	Hexadecane, 2,6,10,14-tetram	21.89	600.	J
18.	54833-48-6	Heptadecane, 2,6,10,15-tetra	23.09	600.	J
19.	112-95-8	Eicosane (8CI9CI)	24.36	400.	J
20.	10544-50-0	Sulfur, mol. (S8) (8CI9CI)	24.83	300.	J
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49281

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2823

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 12. dec. 12. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 3.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1100.	U
111-44-4	bis(2-Chloroethyl)ether	1100.	U
95-57-8	2-Chlorophenol	1100.	U
541-73-1	1,3-Dichlorobenzene	1100.	U
106-46-7	1,4-Dichlorobenzene	1100.	U
100-51-6	Benzyl alcohol	1100.	U
95-50-1	1,2-Dichlorobenzene	1100.	U
95-48-7	2-Methylphenol	1100.	U
39638-32-9	bis(2-Chloroisopropyl)ether	1100.	U
106-44-5	4-Methylphenol	1100.	U
621-64-7	N-Nitroso-di-n-propylamine	1100.	U
67-72-1	Hexachloroethane	1100.	U
98-95-3	Nitrobenzene	1100.	U
78-59-1	Isophorone	1100.	U
88-75-5	2-Nitrophenol	1100.	U
105-67-9	2,4-Dimethylphenol	1100.	U
65-85-0	Benzoic acid	5700.	U
111-91-1	bis(2-Chloroethoxy)methane	1100.	U
120-83-2	2,4-Dichlorophenol	1100.	U
120-82-1	1,2,4-Trichlorobenzene	1100.	U
91-20-3	Naphthalene	460.	J
106-47-8	4-Chloroaniline	1100.	U
87-68-3	Hexachlorobutadiene	1100.	U
59-50-7	4-Chloro-3-methylphenol	1100.	U
91-57-6	2-Methylnaphthalene	1000.	J
77-47-4	Hexachlorocyclopentadiene	1100.	U
88-06-2	2,4,6-Trichlorophenol	1100.	U
95-95-4	2,4,5-Trichlorophenol	5700.	U
91-58-7	2-Chloronaphthalene	1100.	U
88-74-4	2-Nitroaniline	5700.	U
131-11-3	Dimethylphthalate	1100.	U
208-96-8	Acenaphthylene	1100.	U
606-20-2	2,6-Dinitrotoluene	1100.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49281

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2823

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 12. dec. 12. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 3.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	5700.	U
83-32-9	Acenaphthene	1100.	U
51-28-5	2,4-Dinitrophenol	5700.	U
100-02-7	4-Nitrophenol	5700.	U
132-64-9	Dibenzofuran	1100.	U
121-14-2	2,4-Dinitrotoluene	1100.	U
84-66-2	Diethylphthalate	1100.	U
7005-72-3	4-Chlorophenyl-phenylether	1100.	U
86-73-7	Fluorene	1100.	U
100-01-6	4-Nitroaniline	5700.	U
534-52-1	4,6-Dinitro-2-methylphenol	5700.	U
86-30-6	N-Nitrosodiphenylamine (1)	1100.	U
101-55-3	4-Bromophenyl-phenylether	1100.	U
118-74-1	Hexachlorobenzene	1100.	U
87-86-5	Pentachlorophenol	5700.	U
85-01-8	Phenanthrene	1100.	U
120-12-7	Anthracene	1100.	U
84-74-2	Di-n-butylphthalate	1100.	U
206-44-0	Fluoranthene	1100.	U
129-00-0	Pyrene	1100.	U
85-68-7	Butylbenzylphthalate	1100.	U
91-94-1	3,3'-Dichlorobenzidine	2300.	U
56-55-3	Benzo(a)anthracene	1100.	U
218-01-9	Chrysene	1100.	U
117-81-7	bis(2-Ethylhexyl)phthalate	1100.	U
117-84-0	Di-n-octylphthalate	1100.	U
205-99-2	Benzo(b)fluoranthene	1100.	U
207-08-9	Benzo(k)fluoranthene	1100.	U
50-32-8	Benzo(a)pyrene	1100.	U
193-39-5	Indeno(1,2,3-cd)pyrene	1100.	U
53-70-3	Dibenz(a,h)anthracene	1100.	U
191-24-2	Benzo(g,h,i)perylene	1100.	U

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

49281

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2823

Level: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 12. dec. 12. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 3.00

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	141-79-7	3-Penten-2-one, 4-methyl- (8	3.50	7000.	J
2.	75-91-2	Hydroperoxide, 1,1-dimethyle	4.35	7000.	J
3.	620-14-4	Benzene, 1-ethyl-3-methyl- (	7.72	3000.	J
4.	526-73-8	Benzene, 1,2,3-trimethyl- (8	8.35	1000.	J
5.	1074-43-7	Benzene, 1-methyl-3-propyl-	9.00	2000.	J
6.	1074-55-1	Benzene, 1-methyl-4-propyl-	9.08	2000.	J
7.	535-77-3	Benzene, 1-methyl-3-(1-methy	9.55	2000.	J
8.	488-23-3	Benzene, 1,2,3,4-tetramethyl	10.36	1000.	J
9.	488-23-3	Benzene, 1,2,3,4-tetramethyl	10.44	1000.	J
10.	824-22-6	1H-Indene, 2,3-dihydro-4-met	10.81	1000.	J
11.	17059-48-2	1H-Indene, 2,3-dihydro-1,6-d	11.80	900.	J
12.	- -	UNKNOWN	12.00	1000.	J
13.	6044-71-9	Dodecane, 6-methyl- (8CI9CI)	12.36	1000.	J
14.	74645-98-0	Dodecane, 2,7,10-trimethyl-	15.30	1000.	J
15.	- -	UNKNOWN	15.76	800.	J
16.	569-41-5	Naphthalene, 1,8-dimethyl- (	16.01	900.	J
17.	17301-30-3	Undecane, 3,8-dimethyl- (8CI	16.74	1000.	J
18.	74645-98-0	Dodecane, 2,7,10-trimethyl-	19.62	1000.	J
19.	1921-70-6	Pentadecane, 2,6,10,14-tetra	20.46	2000.	J
20.	10544-50-0	Sulfur, mol. (S8) (8CI9CI)	24.85	2000.	J
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

000230

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49280

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2822

Level: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 10. dec. 10. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370.	U
111-44-4	bis(2-Chloroethyl)ether	370.	U
95-57-8	2-Chlorophenol	370.	U
541-73-1	1,3-Dichlorobenzene	370.	U
106-46-7	1,4-Dichlorobenzene	370.	U
100-51-6	Benzyl alcohol	370.	U
95-50-1	1,2-Dichlorobenzene	370.	U
95-48-7	2-Methylphenol	370.	U
39638-32-9	bis(2-Chloroisopropyl)ether	370.	U
106-44-5	4-Methylphenol	370.	U
621-64-7	N-Nitroso-di-n-propylamine	370.	U
67-72-1	Hexachloroethane	370.	U
98-95-3	Nitrobenzene	370.	U
78-59-1	Isophorone	370.	U
88-75-5	2-Nitrophenol	370.	U
105-67-9	2,4-Dimethylphenol	370.	U
65-85-0	Benzoic acid	1800.	U
111-91-1	bis(2-Chloroethoxy)methane	370.	U
120-83-2	2,4-Dichlorophenol	370.	U
120-82-1	1,2,4-Trichlorobenzene	370.	U
91-20-3	Naphthalene	370.	U
106-47-8	4-Chloroaniline	370.	U
87-68-3	Hexachlorobutadiene	370.	U
59-50-7	4-Chloro-3-methylphenol	370.	U
91-57-6	2-Methylnaphthalene	370.	U
77-47-4	Hexachlorocyclopentadiene	370.	U
88-06-2	2,4,6-Trichlorophenol	370.	U
95-95-4	2,4,5-Trichlorophenol	1800.	U
91-58-7	2-Chloronaphthalene	370.	U
88-74-4	2-Nitroaniline	1800.	U
131-11-3	Dimethylphthalate	370.	U
208-96-8	Acenaphthylene	370.	U
606-20-2	2,6-Dinitrotoluene	370.	U

142

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49280

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2822

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 10. dec. 10. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1800.	U
83-32-9	Acenaphthene	370.	U
51-28-5	2,4-Dinitrophenol	1800.	U
100-02-7	4-Nitrophenol	1800.	U
132-64-9	Dibenzofuran	370.	U
121-14-2	2,4-Dinitrotoluene	370.	U
84-66-2	Diethylphthalate	370.	U
7005-72-3	4-Chlorophenyl-phenylether	370.	U
86-73-7	Fluorene	370.	U
100-01-6	4-Nitroaniline	1800.	U
534-52-1	4,6-Dinitro-2-methylphenol	1800.	U
86-30-6	N-Nitrosodiphenylamine (1)	370.	U
101-55-3	4-Bromophenyl-phenylether	370.	U
118-74-1	Hexachlorobenzene	370.	U
87-86-5	Pentachlorophenol	1800.	U
85-01-8	Phenanthrene	370.	U
120-12-7	Anthracene	370.	U
84-74-2	Di-n-butylphthalate	370.	U
206-44-0	Fluoranthene	370.	U
129-00-0	Pyrene	370.	U
85-68-7	Butylbenzylphthalate	370.	U
91-94-1	3,3'-Dichlorobenzidine	740.	U
56-55-3	Benzo(a)anthracene	370.	U
218-01-9	Chrysene	370.	U
117-81-7	bis(2-Ethylhexyl)phthalate	370.	U
117-84-0	Di-n-octylphthalate	370.	U
205-99-2	Benzo(b)fluoranthene	370.	U
207-08-9	Benzo(k)fluoranthene	370.	U
50-32-8	Benzo(a)pyrene	370.	U
193-39-5	Indeno(1,2,3-cd)pyrene	370.	U
53-70-3	Dibenz(a,h)anthracene	370.	U
191-24-2	Benzo(g,h,i)perylene	370.	U

(1) - Cannot be separated from diphenylamine

M43

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

49280

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2822

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 10. dec. 10. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	4.39	6000.	J
2.	14167-59-0	Tetratriacontane (8CI9CI)	35.38	200.	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49279

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2821

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 13. dec. 13. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380.	U
111-44-4	bis(2-Chloroethyl)ether	380.	U
95-57-8	2-Chlorophenol	380.	U
541-73-1	1,3-Dichlorobenzene	380.	U
106-46-7	1,4-Dichlorobenzene	380.	U
100-51-6	Benzyl alcohol	380.	U
95-50-1	1,2-Dichlorobenzene	380.	U
95-48-7	2-Methylphenol	380.	U
39638-32-9	bis(2-Chloroisopropyl)ether	380.	U
106-44-5	4-Methylphenol	380.	U
621-64-7	N-Nitroso-di-n-propylamine	380.	U
67-72-1	Hexachloroethane	380.	U
98-95-3	Nitrobenzene	380.	U
78-59-1	Isophorone	380.	U
88-75-5	2-Nitrophenol	380.	U
105-67-9	2,4-Dimethylphenol	380.	U
65-85-0	Benzoic acid	1900.	U
111-91-1	bis(2-Chloroethoxy)methane	380.	U
120-83-2	2,4-Dichlorophenol	380.	U
120-82-1	1,2,4-Trichlorobenzene	380.	U
91-20-3	Naphthalene	380.	U
106-47-8	4-Chloroaniline	380.	U
87-68-3	Hexachlorobutadiene	380.	U
59-50-7	4-Chloro-3-methylphenol	380.	U
91-57-6	2-Methylnaphthalene	380.	U
77-47-4	Hexachlorocyclopentadiene	380.	U
88-06-2	2,4,6-Trichlorophenol	380.	U
95-95-4	2,4,5-Trichlorophenol	1900.	U
91-58-7	2-Chloronaphthalene	380.	U
88-74-4	2-Nitroaniline	1900.	U
131-11-3	Dimethylphthalate	380.	U
208-96-8	Acenaphthylene	380.	U
606-20-2	2,6-Dinitrotoluene	380.	U

M45

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

49279

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2821

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 13. dec. 13. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1900.	U
83-32-9	Acenaphthene	380.	U
51-28-5	2,4-Dinitrophenol	1900.	U
100-02-7	4-Nitrophenol	1900.	U
132-64-9	Dibenzofuran	380.	U
121-14-2	2,4-Dinitrotoluene	380.	U
84-66-2	Diethylphthalate	380.	U
7005-72-3	4-Chlorophenyl-phenylether	380.	U
86-73-7	Fluorene	380.	U
100-01-6	4-Nitroaniline	1900.	U
534-52-1	4,6-Dinitro-2-methylphenol	1900.	U
86-30-6	N-Nitrosodiphenylamine (1)	380.	U
101-55-3	4-Bromophenyl-phenylether	380.	U
118-74-1	Hexachlorobenzene	380.	U
87-86-5	Pentachlorophenol	1900.	U
85-01-8	Phenanthrene	380.	U
120-12-7	Anthracene	380.	U
84-74-2	Di-n-butylphthalate	380.	U
206-44-0	Fluoranthene	380.	U
129-00-0	Pyrene	380.	U
85-68-7	Butylbenzylphthalate	380.	U
91-94-1	3,3'-Dichlorobenzidine	770.	U
56-55-3	Benzo(a)anthracene	380.	U
218-01-9	Chrysene	380.	U
117-81-7	bis(2-Ethylhexyl)phthalate	380.	U
117-84-0	Di-n-octylphthalate	380.	U
205-99-2	Benzo(b)fluoranthene	380.	U
207-08-9	Benzo(k)fluoranthene	380.	U
50-32-8	Benzo(a)pyrene	380.	U
193-39-5	Indeno(1,2,3-cd)pyrene	380.	U
53-70-3	Dibenz(a,h)anthracene	380.	U
191-24-2	Benzo(g,h,i)perylene	380.	U

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

49279

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2821

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 13. dec. 13. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	75-91-2	Hydroperoxide, 1,1-dimethyle	4.39	6000.	J
2.	10544-50-0	Sulfur, mol. (S8) (8CI9CI)	24.86	3000.	J
3.	- -	UNKNOWN	25.62	800.	J
4.	74764-11-7	Iron, tricarbonyl[N-(phenyl-	35.38	200.	J
5.	- -	UNKNOWN	37.46	500.	J
6.	- -	UNKNOWN	37.80	1000.	J
7.	- -	UNKNOWN	38.03	300.	J
8.	- -	UNKNOWN	38.28	2000.	J
9.	- -	UNKNOWN	38.75	5000.	J
10.	- -	UNKNOWN	39.33	2000.	J
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49278

Contract: 68-W8-0078

Lab Name: NET

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2818

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 33. dec. 33. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	500.	U
111-44-4	bis(2-Chloroethyl)ether	500.	U
95-57-8	2-Chlorophenol	500.	U
541-73-1	1,3-Dichlorobenzene	500.	U
106-46-7	1,4-Dichlorobenzene	500.	U
100-51-6	Benzyl alcohol	500.	U
95-50-1	1,2-Dichlorobenzene	500.	U
95-48-7	2-Methylphenol	500.	U
39638-32-9	bis(2-Chloroisopropyl)ether	500.	U
106-44-5	4-Methylphenol	69.	J
621-64-7	N-Nitroso-di-n-propylamine	500.	U
67-72-1	Hexachloroethane	500.	U
98-95-3	Nitrobenzene	500.	U
78-59-1	Isophorone	500.	U
88-75-5	2-Nitrophenol	500.	U
105-67-9	2,4-Dimethylphenol	500.	U
65-85-0	Benzoic acid	2500.	U
111-91-1	bis(2-Chloroethoxy)methane	500.	U
120-83-2	2,4-Dichlorophenol	500.	U
120-82-1	1,2,4-Trichlorobenzene	500.	U
91-20-3	Naphthalene	500.	U
106-47-8	4-Chloroaniline	500.	U
87-68-3	Hexachlorobutadiene	500.	U
59-50-7	4-Chloro-3-methylphenol	500.	U
91-57-6	2-Methylnaphthalene	500.	U
77-47-4	Hexachlorocyclopentadiene	500.	U
88-06-2	2,4,6-Trichlorophenol	500.	U
95-95-4	2,4,5-Trichlorophenol	2500.	U
91-58-7	2-Chloronaphthalene	500.	U
88-74-4	2-Nitroaniline	2500.	U
131-11-3	Dimethylphthalate	500.	U
208-96-8	Acenaphthylene	500.	U
606-20-2	2,6-Dinitrotoluene	500.	U

M48

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49278

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2818

Level: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 33. dec. 33. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2500.	U
83-32-9	Acenaphthene	500.	U
51-28-5	2,4-Dinitrophenol	2500.	U
100-02-7	4-Nitrophenol	2500.	U
132-64-9	Dibenzofuran	500.	U
121-14-2	2,4-Dinitrotoluene	500.	U
84-66-2	Diethylphthalate	500.	U
7005-72-3	4-Chlorophenyl-phenylether	500.	U
86-73-7	Fluorene	500.	U
100-01-6	4-Nitroaniline	2500.	U
534-52-1	4,6-Dinitro-2-methylphenol	2500.	U
86-30-6	N-Nitrosodiphenylamine (1)	500.	U
101-55-3	4-Bromophenyl-phenylether	500.	U
118-74-1	Hexachlorobenzene	500.	U
87-86-5	Pentachlorophenol	2500.	U
85-01-8	Phenanthrene	500.	U
120-12-7	Anthracene	500.	U
84-74-2	Di-n-butylphthalate	500.	U
206-44-0	Fluoranthene	500.	U
129-00-0	Pyrene	500.	U
85-68-7	Butylbenzylphthalate	500.	U
91-94-1	3,3'-Dichlorobenzidine	990.	U
56-55-3	Benzo(a)anthracene	500.	U
218-01-9	Chrysene	500.	U
117-81-7	bis(2-Ethylhexyl)phthalate	500.	U
117-84-0	Di-n-octylphthalate	500.	U
205-99-2	Benzo(b)fluoranthene	500.	U
207-08-9	Benzo(k)fluoranthene	500.	U
50-32-8	Benzo(a)pyrene	500.	U
193-39-5	Indeno(1,2,3-cd)pyrene	500.	U
53-70-3	Dibenz(a,h)anthracene	500.	U
191-24-2	Benzo(g,h,i)perylene	500.	U

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

49278

ab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

atrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2818

Level: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 33. dec. 33. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

PC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	4.39	7000.	J
2.	10544-50-0	Sulfur, mol. (S8) (8CI9CI)	24.85	4000.	J
3.	- -	UNKNOWN	38.72	500.	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

MSD

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49284MSD

ab Name: NET Contract:

ab Code: NET Case No.: SAS No.: SDG No.:

atrix: (soil/water) WATER Lab Sample ID:

ample wt/vol: 1000.0 (g/mL) ML Lab File ID: F2806

evel: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

xtraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

PC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	130.	
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	150.	
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	62.	
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-Chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	70.	
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	66.	
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	150.	
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

M51

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49284MSD

b Name: NET Contract:

ab Code: NET Case No.: SAS No.: SDG No.:

trix: (soil/water) WATER Lab Sample ID:

mple wt/vol: 1000.0 (g/mL) ML Lab File ID: F2806

evel: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

xtraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

C Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	67.	
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	98.	
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	50.	
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	170.	
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	93.	
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	U
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from diphenylamine

FORM I SV-2

1/87 Rev.

000454

M52

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49284MS

ab Name: NET Contract:

ab Code: NET Case No.: SAS No.: SDG No.:

atrix: (soil/water) WATER Lab Sample ID:

ample wt/vol: 1000.0 (g/mL) ML Lab File ID: F2805

evel: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

xtraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

PC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	140.	
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	150.	
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	71.	
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-Chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	80.	
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	76.	
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	160.	
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

M53

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49284MS

ab Name: NET Contract:

ab Code: NET Case No.: SAS No.: SDG No.:

atrix: (soil/water) WATER Lab Sample ID:

ample wt/vol: 1000.0 (g/mL) ML Lab File ID: F2805

evel: (low/med) LOW Date Received: 10/18/90

Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

xtraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

PC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	73.	
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	100.	
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	58.	
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	150.	
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	84.	
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	U
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from diphenylamine

M54

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49278MS

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2819

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 33. dec. 33. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2700.	
111-44-4	bis(2-Chloroethyl)ether	500.	U
95-57-8	2-Chlorophenol	2800.	
541-73-1	1,3-Dichlorobenzene	500.	U
106-46-7	1,4-Dichlorobenzene	1400.	
100-51-6	Benzyl alcohol	500.	U
95-50-1	1,2-Dichlorobenzene	500.	U
95-48-7	2-Methylphenol	500.	U
39638-32-9	bis(2-Chloroisopropyl)ether	500.	U
106-44-5	4-Methylphenol	200.	J
621-64-7	N-Nitroso-di-n-propylamine	1500.	
67-72-1	Hexachloroethane	500.	U
98-95-3	Nitrobenzene	500.	U
78-59-1	Isophorone	500.	U
88-75-5	2-Nitrophenol	500.	U
105-67-9	2,4-Dimethylphenol	500.	U
65-85-0	Benzoic acid	2500.	U
111-91-1	bis(2-Chloroethoxy)methane	500.	U
120-83-2	2,4-Dichlorophenol	500.	U
120-82-1	1,2,4-Trichlorobenzene	1600.	
91-20-3	Naphthalene	500.	U
106-47-8	4-Chloroaniline	500.	U
87-68-3	Hexachlorobutadiene	500.	U
59-50-7	4-Chloro-3-methylphenol	3500.	
91-57-6	2-Methylnaphthalene	500.	U
77-47-4	Hexachlorocyclopentadiene	500.	U
88-06-2	2,4,6-Trichlorophenol	500.	U
95-95-4	2,4,5-Trichlorophenol	2500.	U
91-58-7	2-Chloronaphthalene	500.	U
88-74-4	2-Nitroaniline	2500.	U
131-11-3	Dimethylphthalate	500.	U
208-96-8	Acenaphthylene	500.	U
606-20-2	2,6-Dinitrotoluene	500.	U

MSS

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49278MS

Contract: 68-W8-0078

Lab Name: NET

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2819

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 33. dec. 33. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2500.	U
83-32-9	Acenaphthene	1500.	
51-28-5	2,4-Dinitrophenol	2500.	U
100-02-7	4-Nitrophenol	2500.	J
132-64-9	Dibenzofuran	500.	U
121-14-2	2,4-Dinitrotoluene	1400.	
84-66-2	Diethylphthalate	500.	U
7005-72-3	4-Chlorophenyl-phenylether	500.	U
86-73-7	Fluorene	500.	U
100-01-6	4-Nitroaniline	2500.	U
534-52-1	4,6-Dinitro-2-methylphenol	2500.	U
86-30-6	N-Nitrosodiphenylamine (1)	500.	U
101-55-3	4-Bromophenyl-phenylether	500.	U
118-74-1	Hexachlorobenzene	500.	U
87-86-5	Pentachlorophenol	1200.	J
85-01-8	Phenanthrene	500.	U
120-12-7	Anthracene	500.	U
84-74-2	Di-n-butylphthalate	500.	U
206-44-0	Fluoranthene	500.	U
129-00-0	Pyrene	2100.	
85-68-7	Butylbenzylphthalate	500.	U
91-94-1	3,3'-Dichlorobenzidine	990.	U
56-55-3	Benzo(a)anthracene	500.	U
218-01-9	Chrysene	500.	U
117-81-7	bis(2-Ethylhexyl)phthalate	500.	U
117-84-0	Di-n-octylphthalate	500.	U
205-99-2	Benzo(b)fluoranthene	500.	U
207-08-9	Benzo(k)fluoranthene	500.	U
50-32-8	Benzo(a)pyrene	500.	U
193-39-5	Indeno(1,2,3-cd)pyrene	500.	U
53-70-3	Dibenz(a,h)anthracene	500.	U
191-24-2	Benzo(g,h,i)perylene	500.	U

(1) - Cannot be separated from diphenylamine

MSG

CC0460

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49278MSD

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2820

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 33. dec. 33. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2200.	
111-44-4	bis(2-Chloroethyl)ether	500.	U
95-57-8	2-Chlorophenol	2300.	
541-73-1	1,3-Dichlorobenzene	500.	U
106-46-7	1,4-Dichlorobenzene	1200.	
100-51-6	Benzyl alcohol	500.	U
95-50-1	1,2-Dichlorobenzene	500.	U
95-48-7	2-Methylphenol	500.	U
39638-32-9	bis(2-Chloroisopropyl)ether	500.	U
106-44-5	4-Methylphenol	220.	J
621-64-7	N-Nitroso-di-n-propylamine	1100.	
67-72-1	Hexachloroethane	500.	U
98-95-3	Nitrobenzene	500.	U
78-59-1	Isophorone	500.	U
88-75-5	2-Nitrophenol	500.	U
105-67-9	2,4-Dimethylphenol	500.	U
65-85-0	Benzoic acid	2500.	U
111-91-1	bis(2-Chloroethoxy)methane	500.	U
120-83-2	2,4-Dichlorophenol	500.	U
120-82-1	1,2,4-Trichlorobenzene	1300.	
91-20-3	Naphthalene	500.	U
106-47-8	4-Chloroaniline	500.	U
87-68-3	Hexachlorobutadiene	500.	U
59-50-7	4-Chloro-3-methylphenol	2600.	
91-57-6	2-Methylnaphthalene	500.	U
77-47-4	Hexachlorocyclopentadiene	500.	U
88-06-2	2,4,6-Trichlorophenol	500.	U
95-95-4	2,4,5-Trichlorophenol	2500.	U
91-58-7	2-Chloronaphthalene	500.	U
88-74-4	2-Nitroaniline	2500.	U
131-11-3	Dimethylphthalate	500.	U
208-96-8	Acenaphthylene	500.	U
606-20-2	2,6-Dinitrotoluene	500.	U

M57

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49278MSD

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2820

Level: (low/med) LOW Date Received: 10/18/90

% Moisture: not dec. 33. dec. 33. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/14/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2500.	U
83-32-9	Acenaphthene	1200.	
51-28-5	2,4-Dinitrophenol	2500.	U
100-02-7	4-Nitrophenol	1600.	J
132-64-9	Dibenzofuran	500.	U
121-14-2	2,4-Dinitrotoluene	990.	
84-66-2	Diethylphthalate	500.	U
7005-72-3	4-Chlorophenyl-phenylether	500.	U
86-73-7	Fluorene	500.	U
100-01-6	4-Nitroaniline	2500.	U
534-52-1	4,6-Dinitro-2-methylphenol	2500.	U
86-30-6	N-Nitrosodiphenylamine (1)	500.	U
101-55-3	4-Bromophenyl-phenylether	500.	U
118-74-1	Hexachlorobenzene	500.	U
87-86-5	Pentachlorophenol	2400.	J
85-01-8	Phenanthrene	500.	U
120-12-7	Anthracene	500.	U
84-74-2	Di-n-butylphthalate	500.	U
206-44-0	Fluoranthene	500.	U
129-00-0	Pyrene	1600.	
85-68-7	Butylbenzylphthalate	500.	U
91-94-1	3,3'-Dichlorobenzidine	990.	U
56-55-3	Benzo(a)anthracene	500.	U
218-01-9	Chrysene	500.	U
117-81-7	bis(2-Ethylhexyl)phthalate	500.	U
117-84-0	Di-n-octylphthalate	500.	U
205-99-2	Benzo(b)fluoranthene	500.	U
207-08-9	Benzo(k)fluoranthene	500.	U
50-32-8	Benzo(a)pyrene	500.	U
193-39-5	Indeno(1,2,3-cd)pyrene	500.	U
53-70-3	Dibenz(a,h)anthracene	500.	U
191-24-2	Benzo(g,h,i)perylene	500.	U

(1) - Cannot be separated from diphenylamine

000466

M58

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49278MSD

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: A459A018

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 33. dec. 33. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/15/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	83.	U
319-85-7	beta-BHC	83.	U
319-86-8	delta-BHC	83.	U
58-89-9	gamma-BHC (Lindane)	34 ~~83.~~	~~U~~ J
76-44-8	Heptachlor	83.	U
309-00-2	Aldrin	83.	U
1024-57-3	Heptachlor epoxide	83.	U
959-98-8	Endosulfan I	83.	U
60-57-1	Dieldrin	75. ~~170.~~	~~U~~ J
72-55-9	4,4'-DDE	170.	U
72-20-8	Endrin	130. ~~87. 170.~~	~~U~~ J
33213-65-9	Endosulfan II	170.	U
72-54-8	4,4'-DDD	170.	U
1031-07-8	Endosulfan sulfate	170.	U
50-29-3	4,4'-DDT	140. ~~170.~~	~~U~~ J
72-43-5	Methoxychlor	830.	U
53494-70-5	Endrin ketone	170.	U
5103-71-9	alpha-Chlordane	830.	U
5103-74-2	gamma-Chlordane	830.	U
8001-35-2	Toxaphene	1700.	U
12674-11-2	Aroclor-1016	830.	U
11104-28-2	Aroclor-1221	830.	U
11141-16-5	Aroclor-1232	830.	U
53469-21-9	Aroclor-1242	830.	U
12672-29-6	Aroclor-1248	830.	U
11097-69-1	Aroclor-1254	1700.	U
11096-82-5	Aroclor-1260	1700.	U

CC0837

M59

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49278MS

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: A459A017

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 33. dec. 33. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/15/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	83.	U
319-85-7	beta-BHC	83.	U
319-86-8	delta-BHC	83.	U
58-89-9	gamma-BHC (Lindane)	33.	J
76-44-8	Heptachlor	83.	U
309-00-2	Aldrin	83.	U
1024-57-3	Heptachlor epoxide	83.	U
959-98-8	Endosulfan I	83.	U
60-57-1	Dieldrin	75.	J
72-55-9	4,4'-DDE	170.	U
72-20-8	Endrin	120.	J
33213-65-9	Endosulfan II	170.	U
72-54-8	4,4'-DDD	170.	U
1031-07-8	Endosulfan sulfate	170.	U
50-29-3	4,4'-DDT	140.	J
72-43-5	Methoxychlor	830.	U
53494-70-5	Endrin ketone	170.	U
5103-71-9	alpha-Chlordane	830.	U
5103-74-2	gamma-Chlordane	830.	U
8001-35-2	Toxaphene	1700.	U
12674-11-2	Aroclor-1016	830.	U
11104-28-2	Aroclor-1221	830.	U
11141-16-5	Aroclor-1232	830.	U
53469-21-9	Aroclor-1242	830.	U
12672-29-6	Aroclor-1248	830.	U
11097-69-1	Aroclor-1254	1700.	U
11096-82-5	Aroclor-1260	1700.	U

000024

M60

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49284MSD

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000. (g/mL)ML Lab File ID: C394A018

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/20/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/12/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC (Lindane)	.38	
76-44-8	Heptachlor	.34	
309-00-2	Aldrin	.29	
1024-57-3	Heptachlor epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.78	
72-55-9	4,4'-DDE	.10	U
72-20-8	Endrin	.87	
33213-65-9	Endosulfan II	.10	U
72-54-8	4,4'-DDD	.10	U
1031-07-8	Endosulfan sulfate	.10	U
50-29-3	4,4'-DDT	.70	
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.10	U
5103-71-9	alpha-Chlordane	.50	U
5103-74-2	gamma-Chlordane	.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

000032

M61

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49284MS

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000. (g/mL)ML Lab File ID: C394A017

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/20/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/12/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC (Lindane)	.43	
76-44-8	Heptachlor	.37	
309-00-2	Aldrin	.28	
1024-57-3	Heptachlor epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.81	
72-55-9	4,4'-DDE	.10	U
72-20-8	Endrin	.91	
33213-65-9	Endosulfan II	.10	U
72-54-8	4,4'-DDD	.10	U
1031-07-8	Endosulfan sulfate	.10	U
50-29-3	4,4'-DDT	.74	
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.10	U
5103-71-9	alpha-Chlordane	.50	U
5103-74-2	gamma-Chlordane	.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

000020

M62

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49289

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000. (g/mL)ML Lab File ID: C394A024 49289

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/20/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	Q
319-84-6	alpha-BHC	.050 U
319-85-7	beta-BHC	.050 U
319-86-8	delta-BHC	.024 J
58-89-9	gamma-BHC (Lindane)	.050 U
76-44-8	Heptachlor	.050 U
309-00-2	Aldrin	.050 U
1024-57-3	Heptachlor epoxide	.050 U
959-98-8	Endosulfan I	.050 U
60-57-1	Dieldrin	.10 U
72-55-9	4,4'-DDE	.10 U
72-20-8	Endrin	.10 U
33213-65-9	Endosulfan II	.10 U
72-54-8	4,4'-DDD	.10 U
1031-07-8	Endosulfan sulfate	.10 U
50-29-3	4,4'-DDT	.10 U
72-43-5	Methoxychlor	.50 U
53494-70-5	Endrin ketone	.10 U
5103-71-9	alpha-Chlordane	.50 U
5103-74-2	gamma-Chlordane	.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	.50 U
11104-28-2	Aroclor-1221	.50 U
11141-16-5	Aroclor-1232	.50 U
53469-21-9	Aroclor-1242	.50 U
12672-29-6	Aroclor-1248	.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U

000510

M63

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49288

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000. (g/mL)ML Lab File ID: C394A023

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/20/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC (Lindane)	.050	U
76-44-8	Heptachlor	.050	U
309-00-2	Aldrin	.050	U
1024-57-3	Heptachlor epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.10	U
72-55-9	4,4'-DDE	.10	U
72-20-8	Endrin	.10	U
33213-65-9	Endosulfan II	.10	U
72-54-8	4,4'-DDD	.10	U
1031-07-8	Endosulfan sulfate	.10	U
50-29-3	4,4'-DDT	.10	U
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.10	U
5103-71-9	alpha-Chlordane	.50	U
5103-74-2	gamma-Chlordane	.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

000507

M64

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49287

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000. (g/mL)ML Lab File ID: C394A022

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/20/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC (Lindane)	.050	U
76-44-8	Heptachlor	.050	U
309-00-2	Aldrin	.050	U
1024-57-3	Heptachlor epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.10	U
72-55-9	4,4'-DDE	.10	U
72-20-8	Endrin	.10	U
33213-65-9	Endosulfan II	.10	U
72-54-8	4,4'-DDD	.10	U
1031-07-8	Endosulfan sulfate	.10	U
50-29-3	4,4'-DDT	.10	U
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.10	U
5103-71-9	alpha-Chlordane	.50	U
5103-74-2	gamma-Chlordane	.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

000504

M65

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49286

ab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

atrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000. (g/mL)ML Lab File ID: C394A021

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec.100. dec. 0. Date Extracted: 10/20/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC (Lindane)	.050	U
76-44-8	Heptachlor	.050	U
309-00-2	Aldrin	.050	U
1024-57-3	Heptachlor epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.10	U
72-55-9	4,4'-DDE	.10	U
72-20-8	Endrin	.10	U
33213-65-9	Endosulfan II	.10	U
72-54-8	4,4'-DDD	.10	U
1031-07-8	Endosulfan sulfate	.10	U
50-29-3	4,4'-DDT	.10	U
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.10	U
5103-71-9	alpha-Chlordane	.50	U
5103-74-2	gamma-Chlordane	.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

000501

1466

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49285

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000. (g/mL)ML Lab File ID: C394A019

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/20/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.25	U
319-85-7	beta-BHC	.25	U
319-86-8	delta-BHC	.25	U
58-89-9	gamma-BHC (Lindane)	.25	U
76-44-8	Heptachlor	.25	U
309-00-2	Aldrin	.25	U
1024-57-3	Heptachlor epoxide	.15	J
959-98-8	Endosulfan I	.25	U
60-57-1	Dieldrin	.50	U
72-55-9	4,4'-DDE	.50	U
72-20-8	Endrin	.50	U
33213-65-9	Endosulfan II	.50	U
72-54-8	4,4'-DDD	.50	U
1031-07-8	Endosulfan sulfate	.50	U
50-29-3	4,4'-DDT	.50	U
72-43-5	Methoxychlor	2.5	U
53494-70-5	Endrin ketone	.50	U
5103-71-9	alpha-Chlordane	2.5	U
5103-74-2	gamma-Chlordane	2.5	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	2.5	U
11104-28-2	Aroclor-1221	2.5	U
11141-16-5	Aroclor-1232	2.5	U
53469-21-9	Aroclor-1242	2.5	U
12672-29-6	Aroclor-1248	2.5	U
11097-69-1	Aroclor-1254	5.0	U
11096-82-5	Aroclor-1260	5.0	U

000128

M67

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49284

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 1000. (g/mL)ML Lab File ID: C394A016

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/20/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/12/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC (Lindane)	.050	U
76-44-8	Heptachlor	.050	U
309-00-2	Aldrin	.050	U
1024-57-3	Heptachlor epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.10	U
72-55-9	4,4'-DDE	.10	U
72-20-8	Endrin	.10	U
33213-65-9	Endosulfan II	.10	U
72-54-8	4,4'-DDD	.10	U
1031-07-8	Endosulfan sulfate	.10	U
50-29-3	4,4'-DDT	.10	U
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.10	U
5103-71-9	alpha-Chlordane	.50	U
5103-74-2	gamma-Chlordane	.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

000485

M68

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49283

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: A459A024

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 15. dec. 15. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/15/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	6.5	U
319-85-7	beta-BHC	6.5	U
319-86-8	delta-BHC	6.5	U
58-89-9	gamma-BHC (Lindane)	6.5	U
76-44-8	Heptachlor	6.5	U
309-00-2	Aldrin	6.5	U
1024-57-3	Heptachlor epoxide	6.5	U
959-98-8	Endosulfan I	6.5	U
60-57-1	Dieldrin	3.4	J
72-55-9	4,4'-DDE	13.	U
72-20-8	Endrin	13.	U
33213-65-9	Endosulfan II	13.	U
72-54-8	4,4'-DDD	13.	U
1031-07-8	Endosulfan sulfate	13.	U
50-29-3	4,4'-DDT	13.	U
72-43-5	Methoxychlor	65.	U
53494-70-5	Endrin ketone	13.	U
5103-71-9	alpha-Chlordane	65.	U
5103-74-2	gamma-Chlordane	1.0	J
8001-35-2	Toxaphene	130.	U
12674-11-2	Aroclor-1016	65.	U
11104-28-2	Aroclor-1221	65.	U
11141-16-5	Aroclor-1232	65.	U
53469-21-9	Aroclor-1242	65.	U
12672-29-6	Aroclor-1248	65.	U
11097-69-1	Aroclor-1254	130.	U
11096-82-5	Aroclor-1260	130.	U

000492

M69

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49282

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: A459A023

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 29. dec. 29. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/15/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	78.	U
319-85-7	beta-BHC	78.	U
319-86-8	delta-BHC	78.	U
58-89-9	gamma-BHC (Lindane)	78.	U
76-44-8	Heptachlor	78.	U
309-00-2	Aldrin	78.	U
1024-57-3	Heptachlor epoxide	78.	U
959-98-8	Endosulfan I	78.	U
60-57-1	Dieldrin	160.	U
72-55-9	4,4'-DDE	160.	U
72-20-8	Endrin	160.	U
33213-65-9	Endosulfan II	160.	U
72-54-8	4,4'-DDD	160.	U
1031-07-8	Endosulfan sulfate	160.	U
50-29-3	4,4'-DDT	160.	U
72-43-5	Methoxychlor	780.	U
53494-70-5	Endrin ketone	160.	U
5103-71-9	alpha-Chlordane	780.	U
5103-74-2	gamma-Chlordane	780.	U
8001-35-2	Toxaphene	1600.	U
12674-11-2	Aroclor-1016	780.	U
11104-28-2	Aroclor-1221	780.	U
11141-16-5	Aroclor-1232	780.	U
53469-21-9	Aroclor-1242	780.	U
12672-29-6	Aroclor-1248	780.	U
11097-69-1	Aroclor-1254	1600.	U
11096-82-5	Aroclor-1260	1600.	U

000139

M70

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49281

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: A459A022

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 12. dec. 12. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/15/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	63.	U
319-85-7	beta-BHC	63.	U
319-86-8	delta-BHC	63.	U
58-89-9	gamma-BHC (Lindane)	63.	U
76-44-8	Heptachlor	4.3	J
309-00-2	Aldrin	63.	U
1024-57-3	Heptachlor epoxide	63.	U
959-98-8	Endosulfan I	63.	U
60-57-1	Dieldrin	130.	U
72-55-9	4,4'-DDE	130.	U
72-20-8	Endrin	130.	U
33213-65-9	Endosulfan II	130.	U
72-54-8	4,4'-DDD	130.	U
1031-07-8	Endosulfan sulfate	130.	U
50-29-3	4,4'-DDT	130.	U
72-43-5	Methoxychlor	630.	U
53494-70-5	Endrin ketone	130.	U
5103-71-9	alpha-Chlordane	630.	U
5103-74-2	gamma-Chlordane	630.	U
8001-35-2	Toxaphene	1300.	U
12674-11-2	Aroclor-1016	630.	U
11104-28-2	Aroclor-1221	630.	U
11141-16-5	Aroclor-1232	630.	U
53469-21-9	Aroclor-1242	630.	U
12672-29-6	Aroclor-1248	630.	U
11097-69-1	Aroclor-1254	1300.	U
11096-82-5	Aroclor-1260	1300.	U

000186

M71

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49280

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: A459A021

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 10. dec. 10. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/15/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 3.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	18.	U
319-85-7	beta-BHC	18.	U
319-86-8	delta-BHC	18.	U
58-89-9	gamma-BHC (Lindane)	18.	U
76-44-8	Heptachlor	18.	U
309-00-2	Aldrin	18.	U
1024-57-3	Heptachlor epoxide	18.	U
959-98-8	Endosulfan I	18.	U
60-57-1	Dieldrin	3.8	J
72-55-9	4,4'-DDE	37.	U
72-20-8	Endrin	37.	U
33213-65-9	Endosulfan II	37.	U
72-54-8	4,4'-DDD	37.	U
1031-07-8	Endosulfan sulfate	2.9	J
50-29-3	4,4'-DDT	37.	U
72-43-5	Methoxychlor	180.	U
53494-70-5	Endrin ketone	37.	U
5103-71-9	alpha-Chlordane	180.	U
5103-74-2	gamma-Chlordane	3.2	J
8001-35-2	Toxaphene	370.	U
12674-11-2	Aroclor-1016	180.	U
11104-28-2	Aroclor-1221	180.	U
11141-16-5	Aroclor-1232	180.	U
53469-21-9	Aroclor-1242	180.	U
12672-29-6	Aroclor-1248	180.	U
11097-69-1	Aroclor-1254	370.	U
11096-82-5	Aroclor-1260	370.	U

000483

M72

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49279

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: A459A019

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 13. dec. 13. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/15/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	64.	U
319-85-7	beta-BHC	64.	U
319-86-8	delta-BHC	64.	U
58-89-9	gamma-BHC (Lindane)	64.	U
76-44-8	Heptachlor	10.	J
309-00-2	Aldrin	64.	U
1024-57-3	Heptachlor epoxide	64.	U
959-98-8	Endosulfan I	64.	U
60-57-1	Dieldrin	130.	U
72-55-9	4,4'-DDE	130.	U
72-20-8	Endrin	130.	U
33213-65-9	Endosulfan II	130.	U
72-54-8	4,4'-DDD	130.	U
1031-07-8	Endosulfan sulfate	130.	U
50-29-3	4,4'-DDT	130.	U
72-43-5	Methoxychlor	640.	U
53494-70-5	Endrin ketone	130.	U
5103-71-9	alpha-Chlordane	640.	U
5103-74-2	gamma-Chlordane	640.	U
8001-35-2	Toxaphene	1300.	U
12674-11-2	Aroclor-1016	640.	U
11104-28-2	Aroclor-1221	640.	U
11141-16-5	Aroclor-1232	640.	U
53469-21-9	Aroclor-1242	640.	U
12672-29-6	Aroclor-1248	640.	U
11097-69-1	Aroclor-1254	1300.	U
11096-82-5	Aroclor-1260	1300.	U

000480

M73

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

49278

Lab Name: NET Contract: 68-W8-0078

Lab Code: NET Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: A459A016

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 33. dec. 33. Date Extracted: 10/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/15/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	83.	U
319-85-7	beta-BHC	83.	U
319-86-8	delta-BHC	83.	U
58-89-9	gamma-BHC (Lindane)	83.	U
76-44-8	Heptachlor	83.	U
309-00-2	Aldrin	83.	U
1024-57-3	Heptachlor epoxide	83.	U
959-98-8	Endosulfan I	83.	U
60-57-1	Dieldrin	170.	U
72-55-9	4,4'-DDE	170.	U
72-20-8	Endrin	170.	U
33213-65-9	Endosulfan II	170.	U
72-54-8	4,4'-DDD	170.	U
1031-07-8	Endosulfan sulfate	170.	U
50-29-3	4,4'-DDT	170.	U
72-43-5	Methoxychlor	830.	U
53494-70-5	Endrin ketone	170.	U
5103-71-9	alpha-Chlordane	830.	U
5103-74-2	gamma-Chlordane	830.	U
8001-35-2	Toxaphene	1700.	U
12674-11-2	Aroclor-1016	830.	U
11104-28-2	Aroclor-1221	830.	U
11141-16-5	Aroclor-1232	830.	U
53469-21-9	Aroclor-1242	830.	U
12672-29-6	Aroclor-1248	830.	U
11097-69-1	Aroclor-1254	1700.	U
11096-82-5	Aroclor-1260	1700.	U

55 ?

000277

FORM I PEST 1/87 Rev.

474

6
DUPLICATES

EPA SAMPLE NO.

49284D

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET Case No.: 90.2974 SAS No.: SDG No.: 49278

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		36.0000	U	36.0000	U			P
Antimony		39.0000	B	37.0000	B	5.3		P
Arsenic		4.0000	U	4.0000	U			F
Barium	400.0	1776.0000		1772.0000		0.2		P
Beryllium		3.0000	U	3.0000	U			P
Cadmium		3.0000	U	3.0000	U			P
Calcium		420953.0000		417058.0000		0.9		P
Chromium		6.0000	U	6.0000	U			P
Cobalt		7.0000	U	7.0000	U			P
Copper		17.0000	B	15.0000	B	12.5		P
Iron		31.0000	U	31.0000	U			P
Lead	3.0	3.0000		2.0000	B	40.0		F
Magnesium								NR
Manganese		4.0000	U	4.0000	U			P
Mercury	0.2	*5>1.0 0.2000	U	0.3846		200.0	*	CV
Nickel		12.0000	U	12.0000	U			P
Potassium		2212.0000	B	1986.0000	B	10.8		P
Selenium		20.0000	U	2.0000	U			F
Silver		6.0000	U	6.0000	U			P
Sodium		185817.0000		185520.0000		0.2		P
Thallium		2.0000	U	2.0000	U			F
Vanadium		10.0000	U	10.0000	U			P
Zinc		416.0000		411.0000		1.2		P
Cyanide		10.0000	U	10.0000	U			~~NR~~ CN

000071

M75

6
DUPLICATES

EPA SAMPLE NO.

49278D

Lab Name: NET ATLANTIC THOROFARE DI Contract:

SDG No.: 49278

Lab Code: NET Case No.: 90.2974 SAS No.:

Level (low/med): LOW

Matrix (soil/water): SOIL

% Solids for Duplicate: 67.2

% Solids for Sample: 67.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M	
Aluminum		8462.7963		8180.3558		3.4		P	
Antimony		21.7262	B	23.5119	B	7.9		P	
Arsenic		1.1905	U	1.4881	B	200.0		F	OK
Barium	119.0	129.1666		102.0833	B	23.4		P	
Beryllium		0.8929	U	0.8929	U			P	
Cadmium		0.8929	U	0.8929	B	200.0		P	
Calcium		1297.3212	B	1486.6069	B	13.6		P	
Chromium	6.0	12.5000		12.5000		0.0		P	
Cobalt		10.7143	B	10.1190	B	5.7		P	
Copper		5.3571	B	5.3571	B	0.0		P	
Iron		10625.8912		9708.3318		9.0		P	
Lead		15.1786		13.9881		8.2		F	
Magnesium	2976.2	4830.3564		4886.3087		1.2		P	
Manganese		892.8570		631.8451		34.2	*	P	15
Mercury		0.1488	U	0.1488	U			CV	
Nickel		22.0238	B	22.0238	B	0.0		P	
Potassium		1001.7856	B	1125.5951	B	11.6		P	
Selenium		5.9524	U	0.5952	U			F	
Silver		1.7857	U	1.7857	U			P	
Sodium		355.6547	B	452.9761	B	24.1		P	
Thallium		0.5952	U	0.5952	U			F	
Vanadium		14.5833	B	13.6905	B	6.3		P	
Zinc		49.1071		49.7024		1.2		P	
Cyanide	11.9	1.4700	U	1.4600	U			~~NR~~	CN

000070

FORM VI -IN

7/88

M76

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

49289

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET Case No.: 90.2974 SAS No.: SDG No.: 49278

Matrix (soil/water): WATER Lab Sample ID:

Level (low/med): LOW Date Received: 10/18/90

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	36.00	U		P
7440-36-0	Antimony	34.00	B		P
7440-38-2	Arsenic	4.00	U		F
7440-39-3	Barium	6.00	U		P
7440-41-7	Beryllium	3.00	U		P
7440-41-7	Cadmium	3.00	U		P
7440-70-2	Calcium	86.00	B		P
7440-47-3	Chromium	6.00	U		P
7440-48-4	Cobalt	7.00	U		P
7440-50-8	Copper	5.00	U		P
7439-89-6	Iron	37.00	B	N	P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	30.00	U		P
7439-96-5	Manganese	4.00	U		P
7439-97-6	Mercury	0.20	U	N*	CV
7440-02-0	Nickel	12.00	U		P
7440-09-7	Potassium	225.00	B		P
7782-49-2	Selenium	2.00	U	N	F
7440-22-4	Silver	6.00	U	N	P
7440-23-5	Sodium	224.00	B		P
7440-28-0	Thallium	2.00	U	NW	F
7440-62-2	Vanadium	10.00	U		P
7440-66-6	Zinc	9.00	U		P
	Cyanide	10.00	U		~~NR~~ CN

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000051

FORM I - IN 7/88

M77

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

49288

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET Case No.: 90.2974 SAS No.: SDG No.: 49278

Matrix (soil/water): WATER Lab Sample ID:

Level (low/med): LOW Date Received: 10/18/90

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	36.00	U		P
7440-36-0	Antimony	42.00	B		P
7440-38-2	Arsenic	5.00	B	W	F
7440-39-3	Barium	208.00	B		P
7440-41-7	Beryllium	3.00	U		P
7440-41-7	Cadmium	3.00	B		P
7440-70-2	Calcium	67500.00			P
7440-47-3	Chromium	6.00	U		P
7440-48-4	Cobalt	7.00	U		P
7440-50-8	Copper	29.00	B		P
7439-89-6	Iron	31.00	U	N	P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	29200.00			P
7439-96-5	Manganese	36.00			P
7439-97-6	Mercury	0.20	U	N*	CV
7440-02-0	Nickel	12.00	U		P
7440-09-7	Potassium	1080.00	B		P
7782-49-2	Selenium	2.00	U	N	F
7440-22-4	Silver	6.00	U	N	P
7440-23-5	Sodium	20200.00			P
7440-28-0	Thallium	2.00	U	N	F
7440-62-2	Vanadium	12.00	B		P
7440-66-6	Zinc	173.00			P
	Cyanide	10.00	U		~~NR~~ CN

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CHROMO

M78

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

49278

Lab Name: NET ATLANTIC THOROFARE D1 Contract:

Lab Code: NET Case No.: 90.2974 SAS No.: SDG No.: 49278

Matrix (soil/water): SOIL Lab Sample ID:

Level (low/med): LOW Date Received: 10/18/90

% Solids: 67.2

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8460.00			P
7440-36-0	Antimony	21.70	~~B~~		P
7440-38-2	Arsenic	1.20	U		F
7440-39-3	Barium	129.00			P
7440-41-7	Beryllium	0.89	U		P
7440-41-7	Cadmium	0.89	U		P
7440-70-2	Calcium	1300.00	B		P
7440-47-3	Chromium	12.50			P
7440-48-4	Cobalt	10.70	B		P
7440-50-8	Copper	5.40	B		P
7439-89-6	Iron	10600.00			P
7439-92-1	Lead	15.20		N	F
7439-95-4	Magnesium	4830.00			P
7439-96-5	Manganese	893.00		*	P
7439-97-6	Mercury	0.15	U		CV
7440-02-0	Nickel	22.00	~~B~~		P
7440-09-7	Potassium	1000.00	B		P
7782-49-2	Selenium	6.00	U	N	F
7440-22-4	Silver	1.80	U		P
7440-23-5	Sodium	356.00	B		P
7440-28-0	Thallium	0.60	U	W	F
7440-62-2	Vanadium	14.60	B		P
7440-66-6	Zinc	49.10		N	P
	Cyanide	1.47	U		~~NR~~ CN

1/7/91 (BAW)

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

M71

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

49279

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET Case No.: 90.2974 SAS No.: SDG No.: 49278

Matrix (soil/water): SOIL Lab Sample ID:

Level (low/med): LOW Date Received: 10/18/90

% Solids: 87.1

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9110.00			P
7440-36-0	Antimony	22.50	~~B~~		P
7440-38-2	Arsenic	0.92	B		F
7440-39-3	Barium	99.70			P
7440-41-7	Beryllium	0.69	U		P
7440-41-7	Cadmium	0.69	B		P
7440-70-2	Calcium	2600.00			P
7440-47-3	Chromium	13.10			P
7440-48-4	Cobalt	11.30	B		P
7440-50-8	Copper	4.60	B		P
7439-89-6	Iron	12700.00			P
7439-92-1	Lead	13.30		N	F
7439-95-4	Magnesium	5670.00			P
7439-96-5	Manganese	538.00		*	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	22.00			P
7440-09-7	Potassium	877.00	B		P
7782-49-2	Selenium	0.46	U	NW	F
7440-22-4	Silver	1.40	U		P
7440-23-5	Sodium	95.10	B		P
7440-28-0	Thallium	0.46	U	W	F
7440-62-2	Vanadium	14.90	~~B~~		P
7440-66-6	Zinc	53.00		N	P
-	Cyanide	1.12	U		~~NR~~ CN

1/7/91 BW

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CONTINUED

M80

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

49280

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET Case No.: 90.2974 SAS No.: SDG No.: 49278

Matrix (soil/water): SOIL Lab Sample ID:

Level (low/med): LOW Date Received: 10/18/90

% Solids: 90.2

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9230.00			P
7440-36-0	Antimony	22.60	~~B~~		P
7440-38-2	Arsenic	1.80	B		F
7440-39-3	Barium	98.70			P
7440-41-7	Beryllium	0.67	U		P
7440-41-7	Cadmium	0.89	B		P
7440-70-2	Calcium	3030.00			P
7440-47-3	Chromium	17.10			P
7440-48-4	Cobalt	12.00	~~B~~		P
7440-50-8	Copper	12.60			P
7439-89-6	Iron	15400.00			P
7439-92-1	Lead	57.60		N	F
7439-95-4	Magnesium	5380.00			P
7439-96-5	Manganese	662.00		*	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	21.70			P
7440-09-7	Potassium	912.00	B		P
7782-49-2	Selenium	0.44	U	NW	F
7440-22-4	Silver	1.30	U		P
7440-23-5	Sodium	79.20	B		P
7440-28-0	Thallium	0.44	U	W	F
7440-62-2	Vanadium	17.50	~~B~~		P
7440-66-6	Zinc	72.50		N	P
	Cyanide	1.10	U		~~NR~~ CN

1/7/91 BDW

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

49281

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET Case No.: 90.2974 SAS No.: SDG No.: 49278

Matrix (soil/water): SOIL Lab Sample ID:

Level (low/med): LOW Date Received: 10/18/90

% Solids: 88.0

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5530.00			P
7440-36-0	Antimony	16.10	~~B~~		P
7440-38-2	Arsenic	0.91	U		F
7440-39-3	Barium	119.00			P
7440-41-7	Beryllium	0.68	U		P
7440-41-7	Cadmium	0.68	B		P
7440-70-2	Calcium	1960.00	~~B~~		P
7440-47-3	Chromium	8.90			P
7440-48-4	Cobalt	8.00	B		P
7440-50-8	Copper	4.10	B		P
7439-89-6	Iron	6720.00			P
7439-92-1	Lead	25.00		N	F
7439-95-4	Magnesium	3450.00			P
7439-96-5	Manganese	344.00		*	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	16.10	~~B~~		P
7440-09-7	Potassium	1090.00	B		P
7782-49-2	Selenium	0.45	U	NW	F
7440-22-4	Silver	1.40	U		P
7440-23-5	Sodium	513.00	B		P
7440-28-0	Thallium	0.45	U		F
7440-62-2	Vanadium	11.60	~~B~~		P
7440-66-6	Zinc	36.10		N	P
	Cyanide	1.12	U		~~NR~~ CN

1/7/91

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

182

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

49282

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET Case No.: 90.2974 SAS No.: SDG No.: 49278

Matrix (soil/water): SOIL Lab Sample ID:

Level (low/med): LOW Date Received: 10/18/90

% Solids: 71.3

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6200.00			P
7440-36-0	Antimony	18.20	~~B~~		P
7440-38-2	Arsenic	1.10	B		F
7440-39-3	Barium	64.50	~~B~~		P
7440-41-7	Beryllium	0.84	U		P
7440-41-7	Cadmium	0.84	U		P
7440-70-2	Calcium	1770.00	~~B~~		P
7440-47-3	Chromium	10.40			P
7440-48-4	Cobalt	7.00	B		P
7440-50-8	Copper	5.60	B		P
7439-89-6	Iron	8150.00			P
7439-92-1	Lead	47.70		N	F
7439-95-4	Magnesium	3200.00			P
7439-96-5	Manganese	410.00		*	P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	12.30	~~B~~		P
7440-09-7	Potassium	647.00	B		P
7782-49-2	Selenium	0.56	U	NW	F
7440-22-4	Silver	1.70	U		P
7440-23-5	Sodium	113.00	B		P
7440-28-0	Thallium	0.56	U		F
7440-62-2	Vanadium	11.80	B		P
7440-66-6	Zinc	35.30		N	P
	Cyanide	140	U		~~NR~~ CN

1/7/91

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

M83

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

49283

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET Case No.: 90.2974 SAS No.: SDG No.: 49278

Matrix (soil/water): SOIL Lab Sample ID:

Level (low/med): LOW Date Received: 10/18/90

% Solids: 85.3

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10900.00			P
7440-36-0	Antimony	27.00	~~B~~		P
7440-38-2	Arsenic	0.94	B		F
7440-39-3	Barium	56.30	~~B~~		P
7440-41-7	Beryllium	0.70	U		P
7440-41-7	Cadmium	0.94	B		P
7440-70-2	Calcium	1840.00	~~B~~		P
7440-47-3	Chromium	14.30			P
7440-48-4	Cobalt	15.20	~~B~~		P
7440-50-8	Copper	4.00	B		P
7439-89-6	Iron	12900.00			P
7439-92-1	Lead	17.10		N	F
7439-95-4	Magnesium	6180.00			P
7439-96-5	Manganese	408.00		*	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	20.90			P
7440-09-7	Potassium	1070.00	B		P
7782-49-2	Selenium	0.47	U	NW	F
7440-22-4	Silver	1.40	U		P
7440-23-5	Sodium	852.00	B		P
7440-28-0	Thallium	0.47	U		F
7440-62-2	Vanadium	15.70	~~B~~		P
7440-66-6	Zinc	69.90		N	P
	Cyanide	1.15	U		~~NR~~ CN

1/7/91 BDW

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

M84

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

49285

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET Case No.: 90.2974 SAS No.: SDG No.: 49278

Matrix (soil/water): WATER Lab Sample ID:

Level (low/med): LOW Date Received: 10/18/90

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	61.00	B		P
7440-36-0	Antimony	43.00	B		P
7440-38-2	Arsenic	4.00	U		F
7440-39-3	Barium	217.00	~~B~~		P
7440-41-7	Beryllium	3.00	U		P
7440-41-7	Cadmium	3.00	U		P
7440-70-2	Calcium	42300.00			P
7440-47-3	Chromium	6.00	U		P
7440-48-4	Cobalt	7.00	U		P
7440-50-8	Copper	51.00			P
7439-89-6	Iron	563.00		N	P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	11300.00			P
7439-96-5	Manganese	10.00	B		P
7439-97-6	Mercury	0.20	U	N*	CV
7440-02-0	Nickel	12.00	U		P
7440-09-7	Potassium	1300.00	B		P
7782-49-2	Selenium	2.00	U	N	F
7440-22-4	Silver	6.00	U	N	P
7440-23-5	Sodium	9260.00	~~B~~		P
7440-28-0	Thallium	2.00	U	NW	F
7440-62-2	Vanadium	10.00	U		P
7440-66-6	Zinc	159.00			P
	Cyanide	10.00	U		~~NR~~ CN

1/7/91

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN 7/8

1485

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

49286

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET Case No.: 90.2974 SAS No.: SDG No.: 49278

Matrix (soil/water): WATER Lab Sample ID:

Level (low/med): LOW Date Received: 10/18/90

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	36.00	U		P
7440-36-0	Antimony	35.00	B		P
7440-38-2	Arsenic	4.00	U		F
7440-39-3	Barium	142.00	B		P
7440-41-7	Beryllium	3.00	U		P
7440-41-7	Cadmium	3.00	U		P
7440-70-2	Calcium	86600.00			P
7440-47-3	Chromium	6.00	U		P
7440-48-4	Cobalt	7.00	U		P
7440-50-8	Copper	27.00	~~B~~		P
7439-89-6	Iron	31.00	U	N	P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	28000.00			P
7439-96-5	Manganese	4.00	U		P
7439-97-6	Mercury	0.20	U	N*	CV
7440-02-0	Nickel	12.00	U		P
7440-09-7	Potassium	1300.00	B		P
7782-49-2	Selenium	2.00	U	NW	F
7440-22-4	Silver	6.00	U	N	P
7440-23-5	Sodium	23900.00			P
7440-28-0	Thallium	2.00	U	N	F
7440-62-2	Vanadium	10.00	U		P
7440-66-6	Zinc	9.00	U		P
	Cyanide	10.00	U		~~NR~~ CN

1/7/91 BDW

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

COMMENTS

M86

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

49287

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET Case No.: 90.2974 SAS No.: SDG No.: 49278

Matrix (soil/water): WATER Lab Sample ID:

Level (low/med): LOW Date Received: 10/18/90

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	36.00	U		P
7440-36-0	Antimony	38.00	B		P
7440-38-2	Arsenic	6.00	B		F
7440-39-3	Barium	385.00	~~B~~		P
7440-41-7	Beryllium	3.00	U		P
7440-41-7	Cadmium	3.00	U		P
7440-70-2	Calcium	37600.00			P
7440-47-3	Chromium	6.00	U		P
7440-48-4	Cobalt	7.00	U		P
7440-50-8	Copper	6.00	B		P
7439-89-6	Iron	965.00		N	P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	21500.00			P
7439-96-5	Manganese	10.00	B		P
7439-97-6	Mercury	0.20	U	N*	CV
7440-02-0	Nickel	12.00	U		P
7440-09-7	Potassium	1130.00	B		P
7782-49-2	Selenium	2.00	U	N	F
7440-22-4	Silver	6.00	U	N	P
7440-23-5	Sodium	9820.00	~~B~~		P
7440-28-0	Thallium	2.00	U	N	F
7440-62-2	Vanadium	14.00	B		P
7440-66-6	Zinc	9.00	U		P
	Cyanide	10.00	U		~~NR~~ CN

1/7/91 BD

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

M87

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

49288

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET Case No.: 90.2974 SAS No.: SDG No.: 49278

Matrix (soil/water): WATER Lab Sample ID:

Level (low/med): LOW Date Received: 10/18/90

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	36.00	U		P
7440-36-0	Antimony	42.00	B		P
7440-38-2	Arsenic	5.00	B	W	F
7440-39-3	Barium	208.00	~~B~~		P
7440-41-7	Beryllium	3.00	U		P
7440-41-7	Cadmium	3.00	B		P
7440-70-2	Calcium	67500.00			P
7440-47-3	Chromium	6.00	U		P
7440-48-4	Cobalt	7.00	U		P
7440-50-8	Copper	29.00	~~B~~		P
7439-89-6	Iron	31.00	U	N	P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	29200.00			P
7439-96-5	Manganese	36.00			P
7439-97-6	Mercury	0.20	U	N*	CV
7440-02-0	Nickel	12.00	U		P
7440-09-7	Potassium	1080.00	B		P
7782-49-2	Selenium	2.00	U	N	F
7440-22-4	Silver	6.00	U	N	P
7440-23-5	Sodium	20200.00			P
7440-28-0	Thallium	2.00	U	N	F
7440-62-2	Vanadium	12.00	B		P
7440-66-6	Zinc	173.00			P
	Cyanide	10.00	U		~~NR~~ CN

1/7/91 BM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

MB8

NJDOT

AnalytiKEM *An American NuKEM Company*

AnalytiKEM Inc.
28 Springdale Road
Cherry Hill, NJ 08003
609/751-1122
215/923-2068
Fax: 609/751-0824

Analytical Data Report Package

for the

NJDEP/DHWM/BPA
300 Horizon Center
Route 130
Robbinsville, NJ 08691

Attention: Frank Sorce

Field Sample #	Laboratory Sample #	Sample Location	Day & Time Collection
S-1 BSA 10170171	A23005-1	Soil 1	10/17/90;1000
S-2 BSA 10170172	A23005-2	Soil 2	10/17/90;1030
S-3 BSA 10170173	A23005-3	Soil 3	10/17/90;1150
S-4 BSA 10170174	A23005-4	Soil 4	10/17/90;1245
S-5 BSA 10170175	A23005-5	Soil 5	10/17/90;1220
S-6 BSA 10170176	A23005-6	Soil 6	10/17/90;1115

Laboratory Name: AnalytiKEM, Inc.

NJDEP Certification Number: NJ 04012

Laboratory QA Officer: Edward J. Palmer, Jr.

Laboratory QA Officer:

Laboratory Manager: William Fithian

Laboratory Manager:

Date Submitted: October 17, 1990

NJDEP Form A-1 (2/89)

M89

VII. GENERAL ANALYSIS DATA SHEET

Laboratory Name: AnalytiKEM

Laboratory Code: NJ 04012

Case Number: --

Contract Number: X-408

Laboratory Sample ID: A23005-1

Matrix: Nonaqueous

Date Received: 10/18/90

Date Analyzed: 10/25/90

Sample Wt/Vol: 10.5 g/ml 100

Analytical Method #: 418.1 Modified

% Moisture: 29;27*

Dilution Factor: --

Decanted: No

GENERAL RESULTS

PARAMETER	SAMPLE CONCENTRATION UNITS: ug/kg dw	METHOD BLANK UNITS: ug/kg	METHOD DETECTION UNITS: ug/kg
Petroleum Hydrocarbons, by IR	28,000 U	20,000 U	20,000

NJDEP FORM G-1 (2/89)

* Duplicate analysis

M90

VII. GENERAL ANALYSIS DATA SHEET

Laboratory Name: AnalytiKEM

Laboratory Code: NJ 04012

Case Number: --

Contract Number: X-408

Laboratory Sample ID: A23005-2

Matrix: Nonaqueous

Date Received: 10/18/90

Date Analyzed: 10/25/90

Sample Wt/Vol: 10.6 g/ml 100

Analytical Method #: 418.1 Modified

% Moisture: 10

Dilution Factor: --

Decanted: No

GENERAL RESULTS

PARAMETER	SAMPLE CONCENTRATION UNITS: ug/kg dw	METHOD BLANK UNITS: ug/kg	METHOD DETECTION UNITS: ug/kg
Petroleum Hydrocarbons, by IR	29,000	20,000 U	20,000

NJDEP FORM G-1 (2/89)

VII. GENERAL ANALYSIS DATA SHEET

Laboratory Name: AnalytiKEM

Laboratory Code: NJ 04012

Case Number: --

Contract Number: X-408

Laboratory Sample ID: A23005-3

Matrix: Nonaqueous

Date Received: 10/18/90

Date Analyzed: 10/25/90

Sample Wt/Vol: 10.0 g/ml 100

Analytical Method #: 418.1 Modified

% Moisture: 8.0

Dilution Factor: --

Decanted: No

GENERAL RESULTS

PARAMETER	SAMPLE CONCENTRATION UNITS: ug/kg dw	METHOD BLANK UNITS: ug/kg	METHOD DETECTION UNITS: ug/kg
Petroleum Hydrocarbons, by IR	38,000	20,000 U	20,000

NJDEP FORM G-1 (2/89)

M92

VII. GENERAL ANALYSIS DATA SHEET

Laboratory Name: AnalytiKEM

Laboratory Code: NJ 04012

Case Number: --

Contract Number: X-408

Laboratory Sample ID: A23005-4

Matrix: Nonaqueous

Date Received: 10/18/90

Date Analyzed: 10/25/90

Sample Wt/Vol: 10.2 g/ml 100

Analytical Method #: 418.1 Modified

% Moisture: 4.0

Dilution Factor: 1:5

Decanted: No

GENERAL RESULTS

PARAMETER	SAMPLE CONCENTRATION UNITS: ug/kg dw	METHOD BLANK UNITS: ug/kg	METHOD DETECTION UNITS: ug/kg
Petroleum Hydrocarbons, by IR	540,000	20,000 U	20,000

NJDEP FORM G-1 (2/89)

M93

VII. GENERAL ANALYSIS DATA SHEET

Laboratory Name: AnalytiKEM

Laboratory Code: NJ 04012

Case Number: --

Contract Number: X-408

Laboratory Sample ID: A23005-5

Matrix: Nonaqueous

Date Received: 10/18/90

Date Analyzed: 10/25/90

Sample Wt/Vol: 10.5 g/ml 100

Analytical Method #: 418.1 Modified

% Moisture: 25

Dilution Factor: --

Decanted: No

GENERAL RESULTS

PARAMETER	SAMPLE CONCENTRATION UNITS: ug/kg dw	METHOD BLANK UNITS: ug/kg	METHOD DETECTION UNITS: ug/kg
Petroleum Hydrocarbons, by IR	1,100,000	20,000 U	20,000

NJDEP FORM G-1 (2/89)

VII. GENERAL ANALYSIS DATA SHEET

Laboratory Name: AnalytiKEM

Laboratory Code: NJ 04012

Case Number: --

Contract Number: X-408

Laboratory Sample ID: A23005-6

Matrix: Nonaqueous

Date Received: 10/18/90

Date Analyzed: 10/25/90

Sample Wt/Vol: 10.4 g/ml 100

Analytical Method #: 418.1 Modified

% Moisture: 17

Dilution Factor: --

Decanted: No

GENERAL RESULTS

PARAMETER	SAMPLE CONCENTRATION UNITS: ug/kg dw	METHOD BLANK UNITS: ug/kg	METHOD DETECTION UNITS: ug/kg
Petroleum Hydrocarbons, by IR	68,000	20,000 U	20,000

NJDEP FORM G-1 (2/89)

M95

VII. GENERAL ANALYSIS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY DATA SHEET

Laboratory Name: AnalytiKEM

Laboratory Code: NJ 04012

Contract Number: X-408

DEP Sample Number: A23005-3

Data Release Authorized By: G. Miller

Matrix: Nonaqueous

Date: November 1, 1990

ANALYTE	BLANK RESULTS	SAMPLE RESULTS CONCEN.	UNITS	AMOUNT ADDED	UNITS	MATRIX SPIKE CONCEN.	UNITS	MS % RECOVERY	MATRIX SPIKE DUP CONCEN.	UNITS	MSD % RECOVERY	RELATIVE % DIFFERENCE
Petroleum Hydrocarbons	20000 U	38,000	ug/kgdw	500000	ug/kg	490000	ug/kg	88	520000	ug/kg	96	9

NJDEP FORM G-2 (2/89)