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02-8403-59A-SI

FINAL DRAFT
SITE INSPECTION REPORT
AND HAZARD RANKING SYSTEM MODEL
CONGOLEUM CORPORATION
TRENTON, NEW JERSEY

PREPARED UNDER

TECHNICAL DIRECTIVE DOCUMENT NO. 02-8403-59A
CONTRACT NO. 68-01-6699

FOR THE

ENVIRONMENTAL SERVICES DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

AUGUST 25, 1986

NUS CORPORATION
SUPERFUND DIVISION

SUBMITTED BY

SCOTT W. ENGLE
PROJECT MANAGER

REVIEWED/APPROVED BY

RONALD M. NAMAN
REGIONAL PROJECT MANAGER

NUS CORPORATION
RARITAN PLAZA III
KING GEORGE ROAD
EDISON, NEW JERSEY 08837
(201) 225-6160

C-584-09-86-33

September 12, 1986

Ms. Diana Messina
U.S Environmental Protection Agency
Region II
Edison, New Jersey 08817

Dear Diana:

Enclosed are the Final Site Inspection Report (EPA Form 2070-13) and the Hazard Ranking System (HRS) documents for Congoleum Corporation. The site inspection was authorized under TDD #02-8403-59A.

Very truly yours,

Scott W. Engle

Reviewed and Approved:

SWE:jls

Enclosures

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SECTION 1

SITE INSPECTION REPORT EXECUTIVE SUMMARY

NUS CORPORATION
A Halliburton Company

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
EXECUTIVE SUMMARY

Congoleum Corporation
Site Name

NJD080796782
EPA Site ID Number

861 Sloan Avenue
Trenton, New Jersey
Address

02-8403-59A
TDD Number

SITE DESCRIPTION

The Congoleum Corporation site is an 18.5 acre industrial plant located in Trenton, New Jersey. Congoleum has manufactured resilient floor coverings at the site since 1953. The Sloan Corporation, previous owners and operators of the site, began operations prior to 1947.

The Sloan Corporation landfilled waste products on site. The wastes included: demolition debris, oxidized linseed oil, calendered vinyls, fly ash, phthalate plasticizers, naptha and paint pigments. Portions of the old landfill areas are currently overlain by parking lot and warehouse additions at the eastern and western ends of the plant facilities. The remainder of the landfill surfaces are now grass and weed covered. Only the extreme western end of the old landfill extends beyond the confines of the fence enclosing the entire facility.

No landfill activities have taken place since Congoleum began operations at the plant. All waste products generated are temporarily stored and shipped off-site by licensed haulers. Waste products generated include ink sludges containing lead and chromium, solvent mixtures, plastisol, polyurethane and spent oil from routine maintenance of company machinery and vehicles.

An old surface leaching bed was located with historical aerial photography in the southeast portion of the present Congoleum property. Its use was discontinued between 1947 and 1951.

SEE ATTACHMENT

HAZARD RANKING SCORE: $S_M = 24.55$ (S_{gw} 39.37 $S_{sw} = 15.94$ $S_a = 0$)
$S_{FE} = 0$
$S_{DC} = 50$

Prepared by: Scott W. Engle
of NUS Corporation

Date: 8/22/86

SITE DESCRIPTION

Two permitted discharges, one into the township drainage ditch the other into Miry Run, are located at Congoleum. Both carry non-contact cooling water and surface drainage from the plant to their respective containment basins prior to discharging to the above water bodies.

A third discharge, assumed to originate at or near the plant, was located near the old fire reservoir on the south side of the plant buildings. This discharge empties from a containment basin, which is not maintained, into Miry Run. The presence of this discharge was unknown to Congoleum personnel and does not have a current permit.

Sampling during the site inspection on April 15, 1986 included: surface and shallow sub-surface soil samples on the old landfill areas and leaching bed, surface water samples upstream and downstream from all discharges and the plant itself, and stream sediment sampling coincident with the surface water samples.

The following organic compounds appeared in the downstream sediment and surface water samples of Miry Run (NJY5-SW1, SED-1): Chloroform, Butyl benzyl phthalate, Bis (2-ethylhexyl) Phthalate, Di-n-octyl phthalate. Phenanthrene, Fluoranthene, Pyrene, Chrysene and Benzo(a) pyrene were also noted but were present in equal or greater concentrations in samples located upstream of the Congoleum facility (NJY5-SW6, SED6, SW5, SED5). Other materials which appeared downstream of the 3 discharges but did not appear in the upstream or downstream Miry Run samples were: 2-Butanone, Bromodichloromethane and Phenol.

The following organic compounds appeared in the soil samples from the old landfills and surface leaching bed: Methylene chloride, Toluene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Butyl benzyl phthalate, Chrysene, Bis (2-ethylhexyl) phthalate, Di-n-octyl phthalate, Benzo(b) fluoranthene and Benzo(a) pyrene. The highest concentrations of these materials were found in the soils from the old fill area at the west end of the Congoleum facility (samples: NJY5-S1, S2, S3). No off-site migration of soil contaminants was evident from the sampling results. However, Butyl benzyl phthalate, Bis (2-ethylhexyl) Phthalate and Di-n-octyl phthalate did appear in the mid- and downstream sediments.

Inorganic concentrations in the surface water and sediment samples taken on-site and downstream were in accordance with the levels found in the upstream samples. The soil samples taken from the old fill areas at the west end of the Congoleum facility showed concentrations at least 10 times higher than background (sample NJY5-S4) of the following materials: Arsenic, Barium, Calcium, Chromium, Cobalt, Copper, Lead, Magnesium, Manganese, Nickel, Tin, Vanadium, and Zinc.

Two pesticides, Beta-BHC and Heptachlor, were found in trace amounts in the samples taken in the old fill material inside the western fence of the Congoleum facility (samples NJY5-S2, S3).

No enforcement actions have been recorded or are pending for this facility.

SECTION 2

ENVIRONMENTAL PROTECTION AGENCY FORM 2070-13

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D080796782

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)
Congoleum Corporation

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
861 Sloan Avenue

03 CITY
Trenton

04 STATE: NJ
05 ZIP CODE: 08619
06 COUNTY: Mercer
07 COUNTY CODE: 021
08 CONG DIST.: 04

09 COORDINATES
LATITUDE: 4 0° 1 5' 0 0".N
LONGITUDE: 0 7 2° 4 2' 2 6".W

10 TYPE OF OWNERSHIP (Check one)
X A. PRIVATE
_ B. FEDERAL
_ C. STATE
_ D. COUNTY
_ E. MUNICIPAL
_ F. OTHER
_ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 04 / 15 / 86 (MONTH DAY YEAR)

02 SITE STATUS
X ACTIVE
_ INACTIVE

03 YEARS OF OPERATION
Unknown / Present
BEGINNING YEAR / ENDING YEAR
_ UNKNOWN

AGENCY PERFORMING INSPECTION (Check all that apply)
_ A. EPA
X B. EPA CONTRACTOR NUS Corporation (Name of firm)
_ C. MUNICIPAL
_ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
_ E. STATE
_ F. STATE CONTRACTOR _____ (Name of firm)
_ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Scott W. Engle	Project Manager	NUS Corp.	(201) 225-6160

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Don Hessemer	Site Safety Officer	NUS Corp.	(201) 225-6160
Rick Adkisson	Sample Mgmt. Officer	NUS Corp.	(201) 225-6160
Mike Young	Sampler	NUS Corp.	(201) 225-6160
Peter Morton	Sampler	NUS Corp.	(201) 225-6160
Jeff Diamond	Documentation	NUS Corp.	(201) 225-6160

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
Martin Sendecki	Mgr. Env. Prot.	861 Sloan Avenue Trenton, NJ	(609) 587-1000
Robert Rucker	Asst. to Mgr.	861 Sloan Avenue Trenton, NJ	(609) 587-1000

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
X PERMISSION _ WARRANT	1000	50°F, Sunny, Light Winds - Rain late in afternoon

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Diana Messina	U.S. Environmental Protection Agency	(201) 321-6685

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Scott W. Engle		NUS Corp.	(201) 225-6160	09/01/ 86 (MONTH DAY YEAR)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D080796782

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

X A. SOLID
X B. POWDER, FINES
_ C. SLUDGE
_ D. OTHER _____ (Specify)
_ E. SLURRY
X F. LIQUID
_ G. GAS

02 WASTE QUANTITY AT SITE

(Measures of waste quantities must be independent)

TONS Unknown
CUBIC YARDS Unknown
NO. OF DRUMS Unknown

03 WASTE CHARACTERISTICS (Check all that apply)

X A. TOXIC
_ B. CORROSIVE
_ C. RADIOACTIVE
_ D. PERSISTENT
_ E. SOLUBLE
_ F. INFECTIOUS
_ G. FLAMMABLE
_ H. IGNITABLE
X I. HIGHLY VOLATILE
_ J. EXPLOSIVE
_ K. REACTIVE
_ L. INCOMPATIBLE
M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	Unknown	55 Gal. Drum	Ink wastes
OLW	OILY WASTE	Unknown	55 Gal. Drum	Maintenance fluids
SOL	SOLVENTS	Unknown	55 Gal. Drum	Several hundred drums containing feedstock ink solutions are located in an outdoor secure storage area on site. As feedstocks they are not considered waste materials.
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	Unknown	55 Gal. Drum	
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Unknown	55 Gal. Drum	Another secure indoor storage area containing organisol solutions in drums is also present on site.

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
*SOL	Benzene	71-43-2	Unknown	10	ppb
*SOL	1,1,1 Trichloroethane	71-55-6	Unknown	10	ppb
SOL	Methylene chloride	75-09-2	Unknown	J	ppb
*SOL	Methylene chloride	75-09-2	Unknown	13	ppb
SOL	Chloroform	67-66-3	Unknown	14	ppb
*SOL	Chloroform	67-66-3	Unknown	26	ppb
OCC	2-Butanone	78-93-3	Unknown	J	
OCC	Bromodichloromethane	75-27-4	Unknown	J	
SOL	Toluene	108-88-3	Unknown	520	ppb
SOL	Phenol	108-95-2	Unknown	21	ppb
*SOL	Phenol	108-95-2	Unknown	65	ppb
OCC	Fluorene	86-73-7	Unknown	J	
OCC	Phenanthrene	85-01-8	Unknown	J	
OCC	Anthracene	120-12-7	Unknown	3300	ppb
OCC	Fluoranthene	206-44-0	Unknown	J	
OCC	Pyrene	129-00-0	Unknown	J	
OCC	Butyl benzyl phthalate	85-68-7	Unknown	150,000	ppb
OCC	Chrysene	218-01-9	Unknown	J	
OCC	Bis(2-ethylhexyl) phthalate	117-81-7	Unknown	238,000	ppb
OCC	Di-n-Octyl Phthalate	117-84-0	Unknown	3250	ppb
OCC	Benzo(b) fluoranthene	205-99-2	Unknown	J	
OCC	Benzo(a) pyrene	50-32-8	Unknown	J	
PSD	Beta-BHC	319-85-7	Unknown	190	ppb

SEE ATTACHMENT

J - compound present below the specified detection limit.
* - Results from Hamilton Township Sampling.

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	Chromium (In Ink)	7440-47-3	FDS	Benzene (In Ink)	71-43-2
FDS	Lead (In Ink)	7439-92-1	FDS	Di-n-Octyl Phthalate	117-84-0
FDS	Toluene (In Ink)	108-88-3	FDS	Methyl ethyl ketone	78-93-3
FDS	Xylene (In Ink)	1330-20-7	FDS	Cyclo hexanone	108-94-1
				Butyl benzyl phthalate	85-68-7

VI. SOURCES OF INFORMATION (See specific references. e.g., state files, sample analysis, reports)

NUS Corporation, Site Inspection, 4/15/86, Congoleum Corp.
Hamilton Township Municipal Industrial Pretreatment Program, Sample Results 11/82.
NJDEP Site Inspection, 7/26/83, Congoleum Corp.

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	CONCENTRATION
PSD	Heptachlor	76-44-8	Unknown	200	ppb
IOC	Arsenic	7440-38-2	Unknown	16	ppm
IOC	Barium	7440-39-3	Unknown	5460	ppm
MES	Chromium	7440-47-3	Unknown	361	ppm
MES	Cobalt	7440-48-4	Unknown	89	ppm
MES	Copper	7440-50-8	Unknown	261	ppm
MES	Lead	7439-92-1	Unknown	5910	ppm
MES	Nickel	7440-02-0	Unknown	72	ppm
MES	Tin	7440-31-5	Unknown	63	ppm
MES	Vanadium	7440-62-2	Unknown	330	ppm
MES	Zinc	7440-66-6	Unknown	11500	ppm

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D080796782

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X A. GROUNDWATER CONTAMINATION — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 27,000 — 04 NARRATIVE DESCRIPTION

Low potential exists from old landfill area or old leaching beds. Contaminants located in Miry Run may indicate the potential for contamination of the waters recharging the local aquifer.

01. X B. SURFACE WATER CONTAMINATION — 02 X OBSERVED (DATE: 4/15/86) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 76,706 — 04 NARRATIVE DESCRIPTION

Runoff from site and stormwater on paved surfaces is directed through two containment structures prior to release to streams. An additional discharge from an unmaintained containment structure near the fire reservoir was noted. Contamination of the surface water and sediment has been documented in sampling on the above date and in November, 1982.

01 X C. CONTAMINATION OF AIR — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 144,546 — 04 NARRATIVE DESCRIPTION

Releases of Methyl ethyl ketone from incinerator, as reported by M. Sendecki on 4/15/86, may affect local area. No quantitative monitoring was conducted to certify the identity or amount of release.

01. _ D. FIRE/EXPLOSIVE CONDITIONS — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

No known potential exists.

01. X E. DIRECT CONTACT — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 4712 — 04 NARRATIVE DESCRIPTION

Direct contact of landfilled wastes with worker and local population is possible. Majority of fill area is within fence enclosure surrounding the plant. Contact with local surface water is unrestricted. Local residents were observed fishing in the stream during the site reconnaissance on 4/2/86.

01 X F. CONTAMINATION OF SOIL — 02 X OBSERVED (DATE: 4/15/86) X POTENTIAL _ ALLEGED
03 AREA POTENTIALLY AFFECTED: Approx. 3 (ACRES) — 04 NARRATIVE DESCRIPTION

Waste materials were identified in the soil located on the old fill areas. Migration is unrestricted by liners or containment structures. Wastes were also identified in the old leaching bed.

01. X G. DRINKING WATER CONTAMINATION — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 27,000 — 04 NARRATIVE DESCRIPTION

Potential is very low. However, groundwater wells for one local resident lies within 2 miles, and 3 municipal wells lie within 3 miles. No surface water intakes are within 3 miles.

01 X H. WORKER EXPOSURE/INJURY — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 400 — 04 NARRATIVE DESCRIPTION

Waste materials have been identified in the soils in the old fill areas on site. Access to these old fill areas by workers is unrestricted. Consequently, the possibility for worker exposure does exist.

01 X I. POPULATION EXPOSURE/INJURY — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 144,546 — 04 NARRATIVE DESCRIPTION

Access to portions of the old fill areas, surface water and sediments is unrestricted. Air releases of Methyl ethyl ketone pose the most potential to affect the greatest number of people. The potential for exposure or injury appears very low.

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 X J. DAMAGE TO FLORA — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

Potential for waste materials to affect the local flora is low but does exist. Migration of solvent wastes to the surface water, sediment or soils pose the most imminent threat. No damage to plant life due to lethal toxicity was noted during the site inspection.

01 X K. DAMAGE TO FAUNA — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

Potential for waste materials to affect the local fauna is low but does exist. Aquatic fauna would be immediatly affected if toxic levels of solvent materials were contained in the liquid discharges to Miry Run. No damage due to lethal toxicity was noted during the site inspection.

01 X L. CONTAMINATION OF FOOD CHAIN — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

If the native plant and animal populations are affected by toxic levels of waste materials being discharged to Miry Run or migrating from the landfills, the potential for damage to the food chain does exist. No evidence to support the existence of damage to the local plants and animals, and subsequently to the food chain, was identified.

01 X M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 X OBSERVED (DATE: 4/2/86) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 400 workers
04 NARRATIVE DESCRIPTION

Some minor stains were noted near approximately 50 empty drums outside the indoor waste storage building during the site recon. No containment structures were present on the old fill areas.

01 X N. DAMAGE TO OFFSITE PROPERTY — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

If contamination of the water and sediment in Miry Run became extreme, down stream properties could be affected.

01 X O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 X OBSERVED (DATE: 4/15/86) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

Contamination was identified in the discharge from the storm sewers and the township drainage ditch leading into Miry Run.

01 _ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

No known incidents on the site. The area is patrolled by private security personnel.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

No other known hazards.

III. TOTAL POPULATION POTENTIALLY AFFECTED: Pop. within 3 miles = 76,706

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references. e.g., state files, sample analysis, reports)

Site Inspection, Congoleum Corporation, conducted by NUS Corporation, 4/15/86.
Site Reconnaissance, Congoleum Corporation, conducted by NUS Corporation, 4/2/86.
Hamilton Township Municipal Industrial Pretreatment Program, sample results 11/82.
Telecon Note: 3/14/86, between Scott Engle (NUS) and Jack Langmuir, Superintendent-Garden State Water Co.
Telecon Note: 4/16/86, between Scott Engle (NUS) and Bob Rucker, Congoleum Corporation.
Graphical Exposure Modeling System (GEMS), General Software Corporation. 1984.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D080796782

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
X A. NPDES	NJ0004537	3/30/74	Current	
_ B. UIC				
_ C. AIR				
X D. RCRA	NJD080796782	Unknown	Current	Waste generator only
_ E. RCRA INTERIM STATUS				
_ F. SPCC PLAN				
_ G. STATE (Specify)				
_ H. LOCAL (Specify)				
_ I. OTHER (Specify)				
_ J. NONE				

III. SITE DESCRIPTION

01 Storage/Disposal (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
_ A. SURFACE IMPOUNDMENT		
_ B. PILES		
_ C. DRUMS, ABOVE GROUND		
_ D. TANK, ABOVE GROUND		
_ E. TANK, BELOW GROUND		
X F. LANDFILL	Unknown	
_ G. LANDFARM		
_ H. OPEN DUMP		
_ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- _ A. INCINERATION
- _ B. UNDERGROUND INJECTION
- _ C. CHEMICAL/PHYSICAL
- _ D. BIOLOGICAL
- _ E. WASTE OIL PROCESSING
- X F. SOLVENT RECOVERY
- _ G. OTHER RECYCLING/RECOVERY
- _ H. OTHER (Specify)

05 OTHER

X A. BUILDINGS ON SITE

06 AREA OF SITE

18.5 (Acres)

07 COMMENTS

Approximately 140 drums containing reusable waste ink sludges, solvents and fungicide additives were found in non-secure storage areas on-site. These materials are feedstocks, and, as such, are not considered as part of the wastes on-site. In addition to the drums noted above, several hundred drums of ink dyes and plastisols are stored in two secure storage areas on site.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

_ A. ADEQUATE, SECURE X B. MODERATE _ C. INADEQUATE, POOR _ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

The two secure drum storage areas have cement pads with curbing to control spills. The outdoor secure area has an additional earthen berm built up all the way around. The old landfill areas had no recorded dikes, barriers or liners. The old surface leaching bed was bermed and had a sand and gravel substrate designed to allow filtration from the beds.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: X YES _ NO

02 COMMENTS

Most of the old landfill areas and all of the drum storage/handling areas are inside the fence surrounding the Congoleum plant. Workers have unrestricted access to these areas, however. The western end of the fill area and the old surface leaching bed are outside the facility fence and are easily accessible to the general public.

VI SOURCES OF INFORMATION (Cite specific references. e.g., state files, sample analysis, reports)

Site Inspection - field notes, notebook #2054, Congoleum Corporation, conducted by NUS Corporation, 4/15/86.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D080796782

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable) / 02 STATUS / 03 DISTANCE TO SITE

	SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED	
COMMUNITY	A. _	B. X	A. _	B. _	C. X	A. Approx. 2.5 (mi)
NON-COMMUNITY	C. _	D. X	D. _	E. _	F. _	B. Approx. 1.5 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

_ A. ONLY SOURCE FOR DRINKING X B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) _ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) _ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER: 27,000 03 DISTANCE TO NEAREST DRINKING WATER WELL: Approx. 1.5 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
0-5 (ft)	Southeast	0 (ft)	325 M (gpd)	_ YES X NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

One residential well is reported to be approx. 1.5 miles from the site on the property of Louis Barry on Sloan Ave., Lenox operates an industrial well also 1.5 miles from the site. The Garden State Water Company owns and operates 3 supply wells approx. 2.5 miles from the site.

10 RECHARGE AREA

X YES
_ NO

COMMENTS The area consists largely of highly permeable sandy soils typical of Gales Town - Evesboro Association. It is an unconfined aquifer of the Raritan - Magothy - Potomac Formation.

11. DISCHARGE AREA

_ YES
X NO

COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

X A. RESERVOIR, RECREATION DRINKING WATER SOURCE _ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES _ C. COMMERCIAL, INDUSTRIAL _ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Miry Run		0 (on-site) (mi)
Assunpink Creek		1 (mi)
Delaware River		3 (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 4712 NO. OF PERSONS	B. 31,582 NO. OF PERSONS	C. 76,706 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION: 0.1 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE: 11,421

04 DISTANCE TO NEAREST OFF-SITE BUILDING: 0.1 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site. e.g., rural, village, densely populated urban area)

Population within the immediate vicinity is very sparse except to the west, southwest where the suburbs of Trenton begin. The Great Swamp occupies the majority of the area within ½ mile to the North, East and Southeast. Beyond that lies the housing areas of Hamilton Township. American Standard operates a facility on the north side of Sloan Ave. No other heavy industry is nearby. Prime Agriculture areas are located on the east side of I-295 approx. 0.1 mile from the site.

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

_ A. 10^{-6} - 10^{-8} cm/sec _ B. 10^{-4} - 10^{-6} cm/sec _ C. 10^{-4} - 10^{-3} cm/sec X D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

X A. IMPERMEABLE (Less than 10^{-6} cm/sec) _ B. RELATIVELY IMPERMEABLE (10^{-4} - 10^{-6} cm/sec) _ C. RELATIVELY PERMEABLE (10^{-2} - 10^{-4} cm/sec) _ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK: 600 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE: 1.3 (ft)

05 SOIL pH: Neutral to slightly acid.

06 NET PRECIPITATION: 12 (in)

07 ONE YEAR 24 HOUR RAINFALL: 2.5 (in)

08 SLOPE
SITE SLOPE: 0-1 %
DIRECTION OF SITE SLOPE: South
TERRAIN AVERAGE SLOPE: 0-2 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN 10 _ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)
OTHER: B. 0.2 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species): greater than 1 (mi)

ENDANGERED SPECIES: None

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS: NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. 0.1 (mi)	B. 0.1 (mi)	C. 0.1 (mi)	D. 0.1 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The area surrounding the site is predominantly flat sloping downward 2-3 feet beyond the margins of the industrial area and the roadway surfaces. The lower areas are marshy bottomland hardwood type areas.

The road grade for Route I-295 is approximately 20 feet high and lies 0.1 mile to the east of the site.

Prime agriculture areas lie to the northeast and southeast of the site.

VII SOURCES OF INFORMATION (Cite specific references e.g., state files, sample analysis, reports)

Uncontrolled Hazardous Waste Site Ranking System, A Users Manual, U.S. EPA, 1984.
USGS Topographic Maps, Trenton East and Princeton.
Evaluation of Water Levels in Major Aquifers of the New Jersey Coastal Plain, 1978, U.S. Geological Resources Investigations, Report 82-4077.
Hydrogeologic Conditions in the Coastal Plain of New Jersey. U.S. Geological Survey, Open-File Report 81-405.
Generalized Structural Contour Maps of the New Jersey Coastal Plain. Geologic Report Series #4. New Jersey Geological Survey.
Soil Survey of Mercer County, New Jersey, 1972. U.S. Department of Agriculture Soil Conservation Service.
Well Log Records, New Jersey Department of Conservation, Division of Water Policy and Supply.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D080796782

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER		Organics: Federal Express #153141564	July 15, 1986
SURFACE WATER	6	Versar Inc. 6850 Versar Center Springfield, VA Attn: Charlie Carter	
WASTE			
AIR			
RUNOFF			
SPILL		Inorganics: Federal Express #153141575	July 15, 1986
SOIL	6	Rocky Mnt. Analytical Lab Inc. 5530 Marshal St. Arvada, CO 80002	
VEGETATION			
OTHER Sediment	6		

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Ambient Air	Monitoring with an HNu photoionization unit and an OVA flame ionization unit was performed for health and safety precautions.

IV. PHOTOGRAPHS AND MAPS

01 TYPE X GROUND X AERIAL

02 IN CUSTODY OF NUS Corporation, Congoleum Corporation Files
(Name of organization or individual)

03 MAPS
X YES
_ NO

04 LOCATION OF MAPS
NUS Corporation - Map Files and Congoleum Files

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references. e.g., state files, sample analysis, reports)

Site Inspection - field notes, Congoleum Corporation, conducted by NUS Corporation, 4/15/86.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D080796782

II. CURRENT OWNER(S)

01 NAME		02 D + B NUMBER	PARENT COMPANY (If applicable) 08 NAME		09 D + B NUMBER
Congoleum Corporation			Same		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)		11 SIC CODE
861 Sloan Avenue					
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
Trenton	NJ	08619			

01 NAME		02 D + B NUMBER	08 NAME		09 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME		02 D + B NUMBER	08 NAME		09 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)		11 SIC CODE
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01 NAME		02 D + B NUMBER	08 NAME		09 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME		02 D + B NUMBER	IV. REALTY OWNER(S) (If applicable; list most recent first) 01 NAME		02 D + B NUMBER
Sloan Corporation					
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
861 Sloan Avenue					
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
Trenton	NJ	08619			

01 NAME		02 D + B NUMBER	01 NAME		02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME		02 D + B NUMBER	01 NAME		02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NUS Background Files, Congoleum Corp.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D080796782

II. CURRENT OPERATOR(S)

01 NAME		02 D + B Number	OPERATOR'S PARENT COMPANY (If applicable) 10 NAME		11 D + B NUMBER
Congoleum Corp.			Same		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)		13 SIC CODE
861 Sloan Avenue					
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
Trenton	NJ	08619			
08 YEARS OF OPERATION	09 NAME OF OWNER				
1953 - Present	Congoleum Corp.				

III. PREVIOUS OPERATOR(S) (List most recent first: Provide only if different from owner)

01 NAME		02 D + B Number	PREVIOUS OPERATOR'S PARENT COMPANIES (If applicable) 10 NAME		11 D + B NUMBER
Sloan Corp.					
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)		13 SIC CODE
861 Sloan Avenue					
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
Trenton	NJ	08619			
08 YEARS OF OPERATION	09 NAME OF OWNER				
Unknown - 1953	Sloan Corp.				

01 NAME		02 D + B Number	10 NAME		11 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)		13 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER				

01 NAME		02 D + B Number	10 NAME		11 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)		13 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER				

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NUS Background Files, Congoleum Corp.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D080796782

II ON-SITE GENERATOR

01 NAME		02 D + B NUMBER
Congoleum Corp.		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
861 Sloan Avenue		
05 CITY	06 STATE	07 ZIP CODE
Trenton	NJ	08619

III OFF-SITE GENERATOR(S)

01 NAME		02 D + B NUMBER	01 NAME		02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D + B NUMBER	01 NAME		02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME		02 D + B NUMBER	01 NAME		02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D + B NUMBER	01 NAME		02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NUS Background Files, Congoleum Corp.

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D080796782

II. PAST RESPONSE ACTIVITIES

01 ___ A. WATER SUPPLY CLOSED — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No Previous Record

01 ___ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No Previous Record

01 ___ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No Previous Record

01 X D. SPILLED MATERIAL REMOVED — 02 DATE: 11-04-82 — 03 AGENCY: _____
04 DESCRIPTION

465 gallons of Urethane coating was spilled near the loading docks and railroad tracks. Material was promptly cleaned up, placed in drums and transported to CECOS, Niagara Falls, New York.

01 X E. CONTAMINATED SOIL REMOVED — 02 DATE: 11-04-82 — 03 AGENCY: NJDEP
04 DESCRIPTION

Contaminated soil associated with above spill was drummed and transported to CECOS, Niagara Falls, New York.

01 ___ F. WASTE REPACKAGED — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No Previous Record

01 ___ G. WASTE DISPOSED ELSEWHERE — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No Previous Record

01 ___ H. ON SITE BURIAL — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No Previous Record - Burial that took place was not a response activity.

01 ___ I. IN SITU CHEMICAL TREATMENT — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No Previous Record

01 ___ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No Previous Record

01 ___ K. IN SITU PHYSICAL TREATMENT — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No Previous Record

01 ___ L. ENCAPSULATION — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No Previous Record

01 ___ M. EMERGENCY WASTE TREATMENT — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No Previous Record

01 ___ N. CUTOFF WALLS — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No Previous Record

01 ___ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No Previous Record

01 ___ P. CUTOFF TRENCHES/SUMP — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No Previous Record

01 ___ Q. SUBSURFACE CUTOFF WALL — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No Previous Record

II. PAST RESPONSE ACTIVITIES

01 ___ R. BARRIER WALLS CONSTRUCTED 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION

No Previous Record
01 ___ S. CAPPING/COVERING 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION

No Previous Record
01 ___ T. BULK TANKAGE REPAIRED 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION

No Previous Record
01 ___ U. GROUT CURTAIN CONSTRUCTED 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION

No Previous Record
01 ___ V. BOTTOM SEALED 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION

No Previous Record
01 ___ W. GAS CONTROL 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION

No Previous Record
01 ___ X. FIRE CONTROL 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION

No Previous Record
01 ___ Y. LEACHATE TREATMENT 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION

No Previous Record
01 ___ Z. AREA EVACUATED 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION

No Previous Record
01 ___ 1. ACCESS TO SITE RESTRICTED 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION

No Previous Record related to response activity.
01 ___ 2. POPULATION RELOCATED 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION

No Previous Record
01 ___ 3. OTHER REMEDIAL ACTIVITIES 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION

No other remedial activities recorded.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NUS Background Files, Congoleum Corp.
Incident Report, 11/4/83, New Jersey Department of Environmental Protection, Division of Waste Management.

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION _ YES X NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, report)

NUS Background Files, Congoleum Corp.

SECTION 3

MAPS AND PHOTOGRAPHS

MAPS AND PHOTOGRAPHS

CONGOLEUM CORPORATION
TRENTON, NEW JERSEY
TDD #02-8403-59A

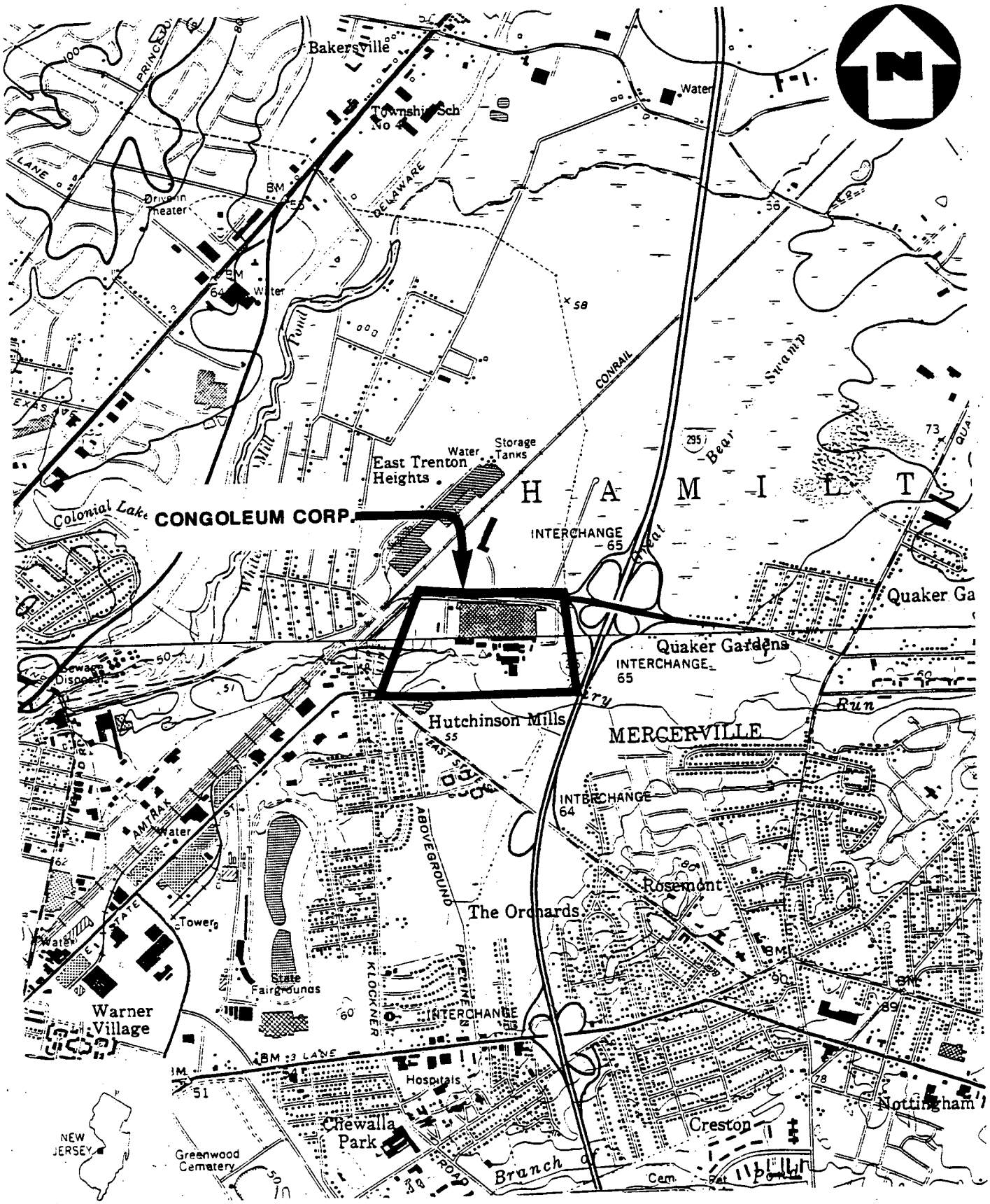
Figure 1 provides a Site Location Map

Figure 2 provides a Site Map

Figure 2A provides a Historical Feature Site Map

Figure 3 provides a Sample Location Map

Exhibit 1 provides photographs of the site on April 2 and April 15, 1986



(QUAD) PRINCETON & TRENTON E, N.J.

FIGURE 1

SITE LOCATION MAP

CONGOLEUM CORP., TRENTON, N.J.

SCALE: 1"=2000'

NUS CORPORATION

A Halliburton Company

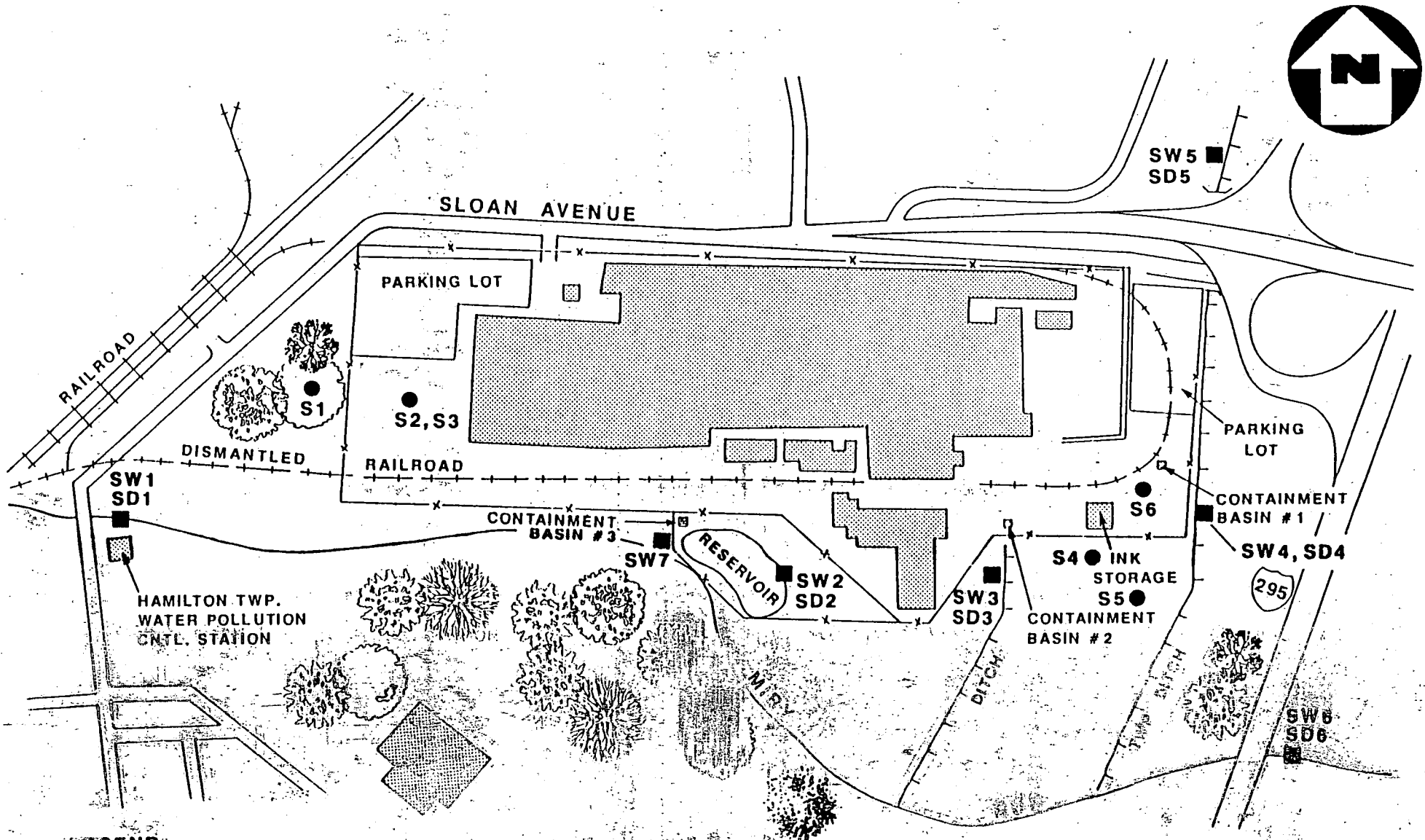


FIGURE 3

SAMPLE LOCATION MAP.

CONGOLEUM CORP. TRENTON, N.J.

(SCALE UNKNOWN)

NUS CORPORATION

A Halliburton Company

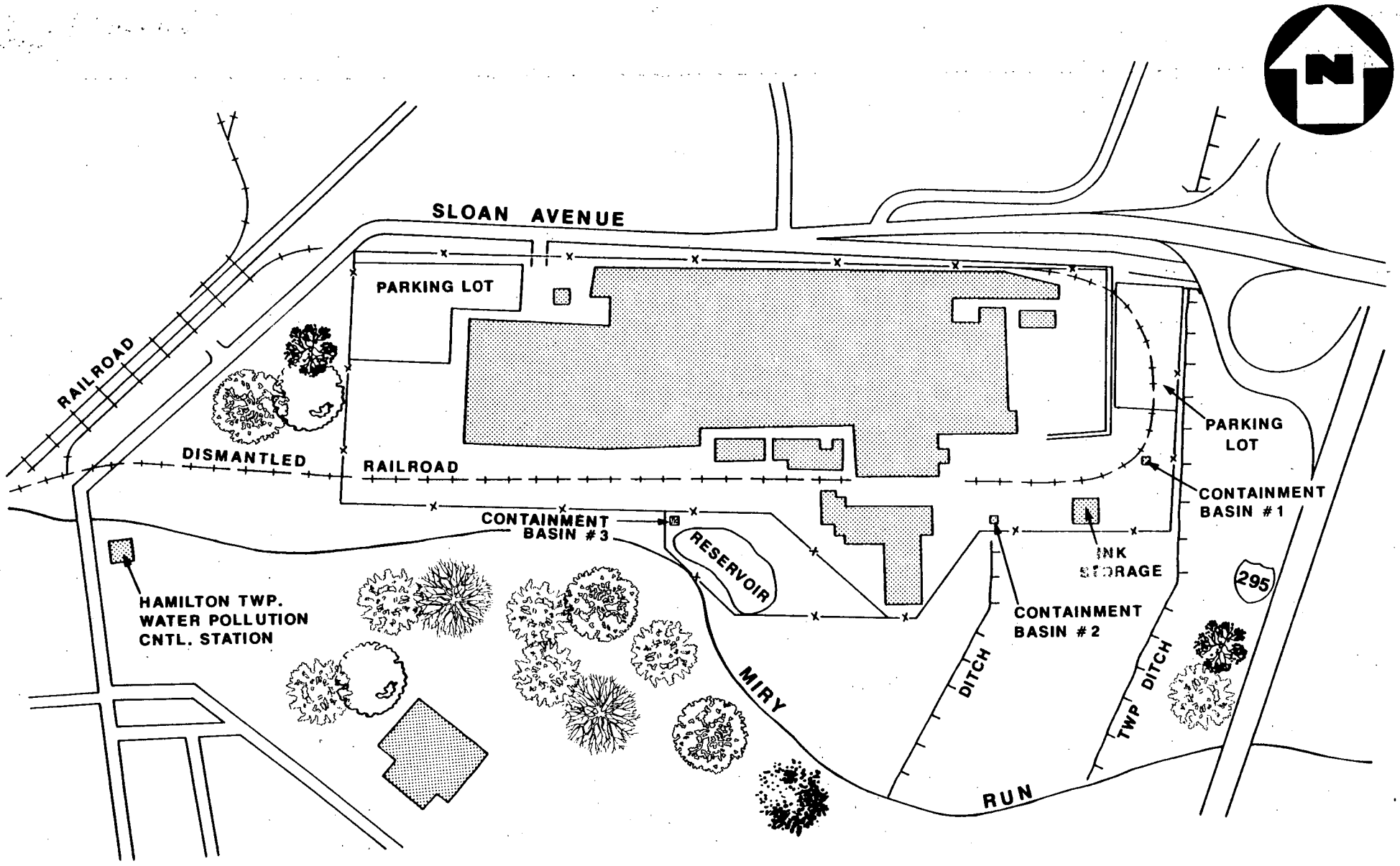


FIGURE 2

SITE MAP

CONGOLEUM CORP., TRENTON, N.J.

(SCALE UNKNOWN)

NUS CORPORATION
A Halliburton Company

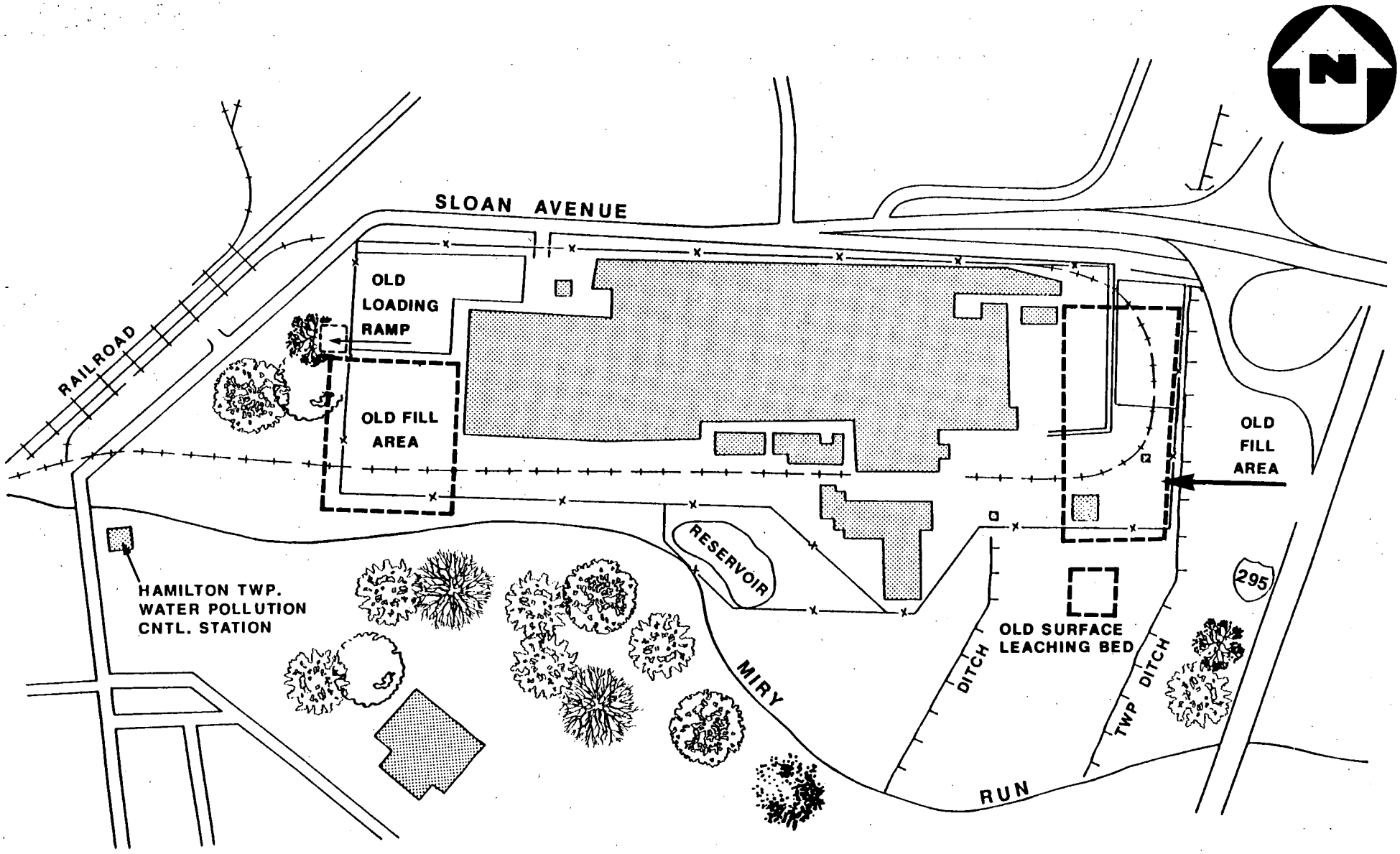


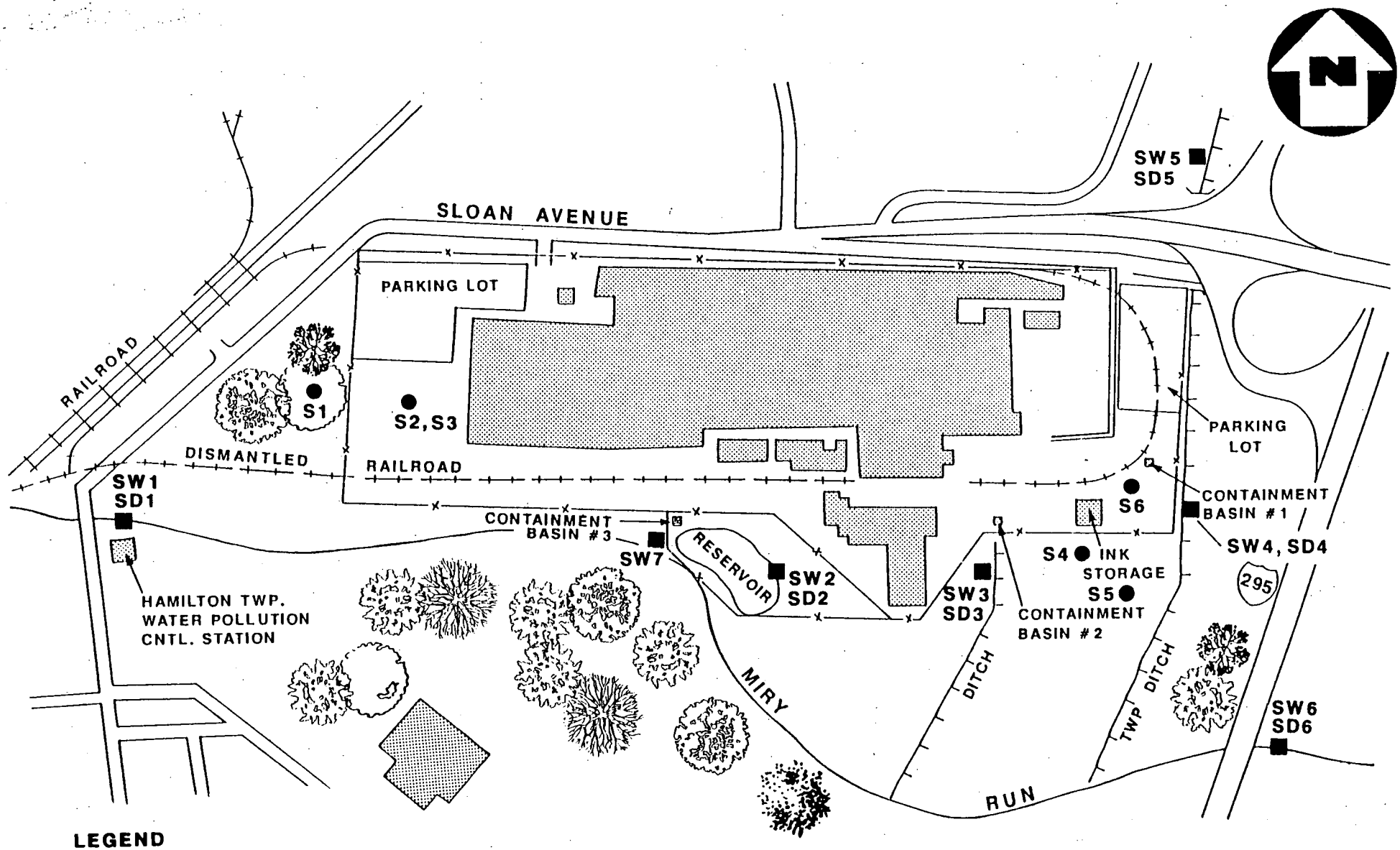
FIGURE 2A

HISTORICAL SITE MAP

CONGOLEUM CORP., TRENTON, N.J.

(SCALE UNKNOWN)

NUS CORPORATION
A Halliburton Company



LEGEND

- ● SOIL SAMPLE
- ■ SURFACE WATER/SEDIMENT SAMPLE

FIGURE 3

SAMPLE LOCATION MAP

CONGOLEUM CORP., TRENTON, N.J.

(SCALE UNKNOWN)

NUS CORPORATION
A Halliburton Company

CONGOLEUM CORPORATION
TRENTON, NEW JERSEY
TDD# 02-8403-59A
APRIL 2, 1986, APRIL 15, 1986

PHOTOGRAPH INDEX

EXHIBIT 1

CONGOLEUM CORPORATION
TRENTON, NEW JERSEY
TDD# 02-8403-59A
APRIL 2, 1986, APRIL 15, 1986

PHOTOGRAPH INDEX

Photo Number	Description	Time
	April 2, 1986	
1.	Outdoor ink storage area. Photographer: Valerie Smith. Ref.# 1P-9.	1047
2.	Baffles in containment basin #1. Photographer: Valerie Smith. Ref.# 1P-10.	1049
3.	Discharge pipe of basin #1 into township drainage ditch. Photographer: Valerie Smith. Ref.# 1P-11.	1050
4.	Baffles in containment basin #2. Photographer: Valerie Smith. Ref.# 1P-12.	1108
5.	Indoor ink storage area. Drums contain "organisol" solutions used for lower grade vinyl production. Photographer: Valerie Smith. Ref.# 1P-19.	1159
6.	Fire reservoir on south side of Congoleum plant. Photographer: Valerie Smith. Ref.# 1P-14.	1118
7.	Grass covered landfill surface located at the western end of the Congoleum plant. Photographer: Valerie Smith. Ref.# 1P-17.	1135
8.	Landfill and old loading ramp area beyond the fence enclosing the western end of the Congoleum plant. Photographer: Valerie Smith. Ref.# 1P-18.	1135
	April 15, 1986	
9.	Mike Young collecting sample NJY5-SW1 from Miry Run. Photographer: Jeff Diamond. Ref.# 1P-2-AE.	1045
10.	Mike Young collecting sample NJY5-SED1 from Miry Run. Photographer: Jeff Diamond. Ref.# 1P-1-M.	1115
11.	Orange-stained sediments on south shore of Miry Run approximately 50 feet upstream from SW-1 location. Photographer: Jeff Diamond. Ref.# 1P-2-M.	1116

CONGOLEUM CORPORATION
TRENTON, NEW JERSEY
TDD# 02-8403-59A
APRIL 2, 1986, APRIL 15, 1986

PHOTOGRAPH INDEX

Photo Number	Description	Time
	April 15, 1986	
12.	Mike Young collecting sample NJY5-S1 from composite in bowl. Photographer: Jeff Diamond. Ref.# 1P-3- AE.	1138
13.	Mike Young collecting sample NJY5-S2 from composite in bowl. Photographer: Jeff Diamond. Ref.# 1P-7-AE.	1216
14.	Mike Young collecting sample NJY5-S3 from composite in bowl. Photographer: Jeff Diamond. Ref.# 1P-8-AE.	1225
15.	Pete Morton collecting sample NJY5-SW2 from small pier in fire reservoir. Photographer: Jeff Diamond. Ref.# 1P-6-M.	1237
16.	Mike Young collecting sample NJY5-SED2 from small pier in fire reservoir. Photographer: Jeff Diamond. Ref.# 1P-7-M.	1300
17.	Mike Young collecting sample NJY5-S6 from composite in bowl. Photographer: Jeff Diamond. Ref.# 1P-12-AE.	1345
18.	Pete Morton collecting sample NJY5-S4 from composite in bowl. Photographer: Jeff Diamond. Ref.# 1P-13-AE.	1404
19.	Sampling team preparing to sample from old surface leaching bed. Photographer: Jeff Diamond. Ref.# 1P-14-AE.	1420
20.	Pete Morton collecting sample NJY5-S5 from old surface leaching bed. Photographer: Jeff Diamond. Ref.# 1P-17-AE.	1425
21.	Mike Young collecting sample NJY5-SW4 from township drainage ditch. Photographer: Jeff Diamond. Ref.# 1P-18-AE.	1508
22.	Mike Young collecting sample NJY5-SED4 from township drainage ditch. Photographer: Jeff Diamond. Ref.# 1P-19-AE.	1523

CONGOLEUM CORPORATION
TRENTON, NEW JERSEY
TDD# 02-8403-59A
APRIL 2, 1986, APRIL 15, 1986

PHOTOGRAPH INDEX

Photo Number	Description	Time
	April 15, 1986	
23.	Mike Young collecting sample NJY5-SW6 from Miry Run. Photographer: Jeff Diamond. Ref.# 1P-20-AE.	1555
24.	Mike Young collecting sample NJY5-SW5 from township drainage ditch. Photographer: Jeff Diamond. Ref.# 1P-22-AE.	1635
25.	Mike Young collecting sample NJY5-SED5 from township drainage ditch. Photographer: Jeff Diamond. Ref.# 1P-23-AE.	1650
26.	Mike Young collecting sample NJY5-SW3 from ditch below discharge #2. Photographer: Jeff Diamond. Ref.# 1P-24-AE.	1730
27.	Mike Young collecting sample NJY5-SED3 from ditch below discharge #2. Photographer: Jeff Diamond. Ref.# 1P-25-AE.	1755

CONGOLEUM CORPORATION
TRENTON, NEW JERSEY
TDD# 02-8403-59A
APRIL 2, 1986, APRIL 15, 1986

PHOTOGRAPH INDEX

CONGOLEUM CORPORATION
TRENTON, NEW JERSEY
TDD# 02-8403-59A
APRIL 2, 1986, APRIL 15, 1986

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4.	Baffles in containment basin #2. Photographer: Valerie Smith. Ref.# 1P-12.	1108
5.	Indoor ink storage area. Drums contain "organisol" solutions used for lower grade vinyl production. Photographer: Valerie Smith. Ref.# 1P-19.	1159
6.	Fire reservoir on south side of Congoleum plant. Photographer: Valerie Smith. Ref.# 1P-14.	1118
7.	Grass covered landfill surface located at the western end of the Congoleum plant. Photographer: Valerie Smith. Ref.# 1P-17.	1135
8.	Landfill and old loading ramp area beyond the fence enclosing the western end of the Congoleum plant. Photographer: Valerie Smith. Ref.# 1P-18.	1135
	April 15, 1986	
9.	Mike Young collecting sample NJY5-SW1 from Miry Run. Photographer: Jeff Diamond. Ref.# 1P-2-AE.	1045
10.	Mike Young collecting sample NJY5-SED1 from Miry Run. Photographer: Jeff Diamond. Ref.# 1P-1-M.	1115
11.	Orange-stained sediments on south shore of Miry Run approximately 50 feet upstream from SW-1 location. Photographer: Jeff Diamond. Ref.# 1P-2-M.	1116

CONGOLEUM CORPORATION
TRENTON, NEW JERSEY
TDD# 02-8403-59A
APRIL 2, 1986, APRIL 15, 1986

PHOTOGRAPH INDEX

Photo Number	Description	Time
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23.	Mike Young collecting sample NJY5-SW6 from Miry Run. Photographer: Jeff Diamond. Ref.# 1P-20-AE.	1555
24.	Mike Young collecting sample NJY5-SW5 from township drainage ditch. Photographer: Jeff Diamond. Ref.# 1P-22-AE.	1635
25.	Mike Young collecting sample NJY5-SED5 from township drainage ditch. Photographer: Jeff Diamond. Ref.# 1P-23-AE.	1650
26.	Mike Young collecting sample NJY5-SW3 from ditch below discharge #2. Photographer: Jeff Diamond. Ref.# 1P-24-AE.	1730
27.	Mike Young collecting sample NJY5-SED3 from ditch below discharge #2. Photographer: Jeff Diamond. Ref.# 1P-25-AE.	1755

NUS CORPORATION

CONGOLEUM CORPORATION, TRENTON, NEW JERSEY

1. April 2, 1986 1047
Outdoor ink storage area.
Photographer: Valerie Smith. Ref.# 1P-9.

2. April 2, 1986 1049
Baffles in containment basin #1.
Photographer: Valerie Smith. Ref.# 1P-10.

NUS CORPORATION

CONGOLEUM CORPORATION, TRENTON, NEW JERSEY

3. April 2, 1986 1050
Discharge pipe of basin #1 into township drainage ditch.
Photographer: Valerie Smith. Ref.# 1P-11.

4. April 2, 1986 1108
Baffles in containment basin #2.
Photographer: Valerie Smith. Ref.# 1P-12.

NUS CORPORATION

CONGOLEUM CORPORATION, TRENTON, NEW JERSEY

5. April 2, 1986 1159
Indoor ink storage area. Drums contain "organisol" solutions used for lower grade vinyl production.
Photographer: Valerie Smith. Ref.# 1P-19.

6. April 2, 1986 1118
Fire reservoir on south side of Congoleum plant.
Photographer: Valerie Smith. Ref.# 1P-14.

NUS CORPORATION

CONGOLEUM CORPORATION, TRENTON, NEW JERSEY

7. April 2, 1986 1135
Grass covered landfill surface located at the western end of the Congoleum plant.
Photographer: Valerie Smith. Ref.# 1P-17.

8. April 2, 1986 1135
Landfill and old loading ramp area beyond the fence enclosing the western end of the Congoleum plant.
Photographer: Valerie Smith. Ref.# 1P-18.

NUS CORPORATION

CONGOLEUM CORPORATION, TRENTON, NEW JERSEY

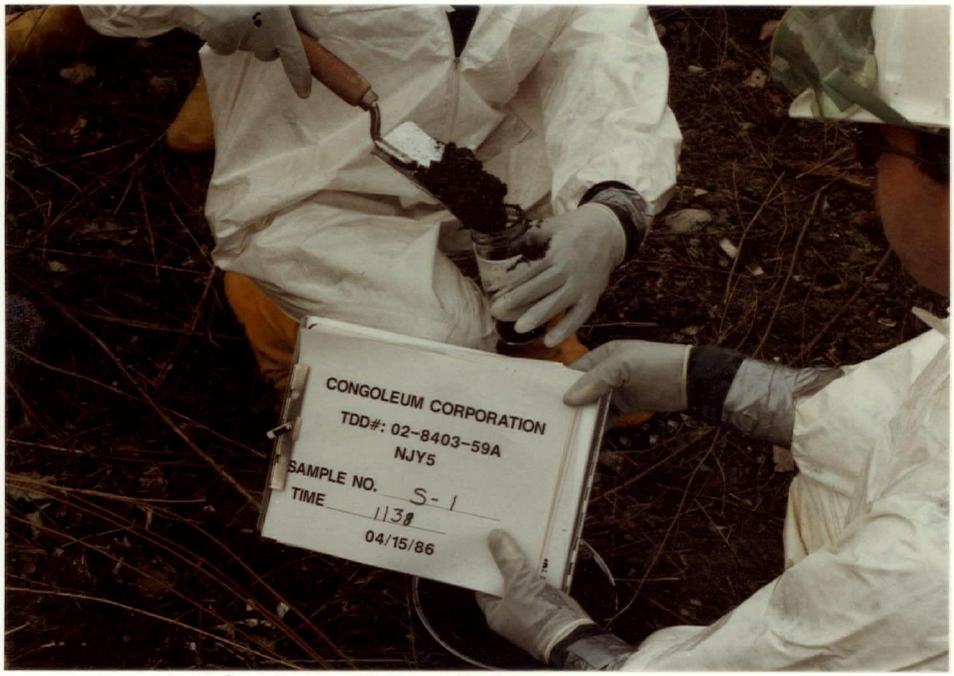
9. April 15, 1986 1045
Mike Young collecting sample NJY5-SW1 from Miry Run.
Photographer: Jeff Diamond. Ref.# 1P-2-AE.

10. April 15, 1986 1115
Mike Young collecting sample NJY5-SED1 from Miry Run.
Photographer: Jeff Diamond. Ref.# 1P-1-M.

NUS CORPORATION

CONGOLEUM CORPORATION, TRENTON, NEW JERSEY

11. April 15, 1986 1116
Orange-stained sediments on south shore of Miry Run approximately 50 feet upstream from SW-1 location.
Photographer: Jeff Diamond. Ref.# 1P-2-M.



12. April 15, 1986 1138
Mike Young collecting sample NJY5-S1 from composite in bowl.
Photographer: Jeff Diamond. Ref.# 1P-3- AE.

NUS CORPORATION

CONGOLEUM CORPORATION, TRENTON, NEW JERSEY

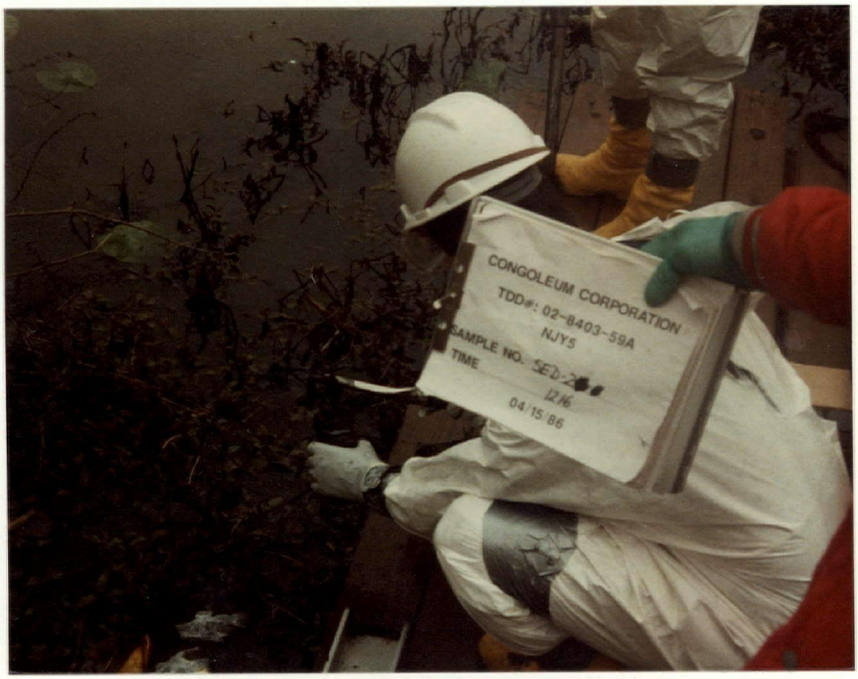
13. April 15, 1986 1216
Mike Young collecting sample NJY5-S2 from composite in bowl.
Photographer: Jeff Diamond. Ref.# 1P-7-AE.

14. April 15, 1986 1225
Mike Young collecting sample NJY5-S3 from composite in bowl.
Photographer: Jeff Diamond. Ref.# 1P-8-AE.

NUS CORPORATION

CONGOLEUM CORPORATION, TRENTON, NEW JERSEY

15. April 15, 1986 1237
Pete Morton collecting sample NJY5-SW2 from small pier in fire reservoir.
Photographer: Jeff Diamond. Ref.# 1P-6-M.



16. April 15, 1986 1300
Mike Young collecting sample NJY5-SED2 from small pier in fire reservoir.
Photographer: Jeff Diamond. Ref.# 1P-7-M.

NUS CORPORATION

CONGOLEUM CORPORATION, TRENTON, NEW JERSEY

17. April 15, 1986 1345
Mike Young collecting sample NJY5-S6 from composite in bowl.
Photographer: Jeff Diamond. Ref.# 1P-12-AE.

18. April 15, 1986 1404
Pete Morton collecting sample NJY5-S4 from composite in bowl.
Photographer: Jeff Diamond. Ref.# 1P-13-AE.

19. April 15, 1986 1420
Sampling team preparing to sample from old surface leaching bed.
Photographer: Jeff Diamond. Ref.# 1P-14-AE.

20. April 15, 1986 1425
Pete Morton collecting sample NJY5-S5 from old surface leaching bed.
Photographer: Jeff Diamond. Ref.# 1P-17-AE.

NUS CORPORATION

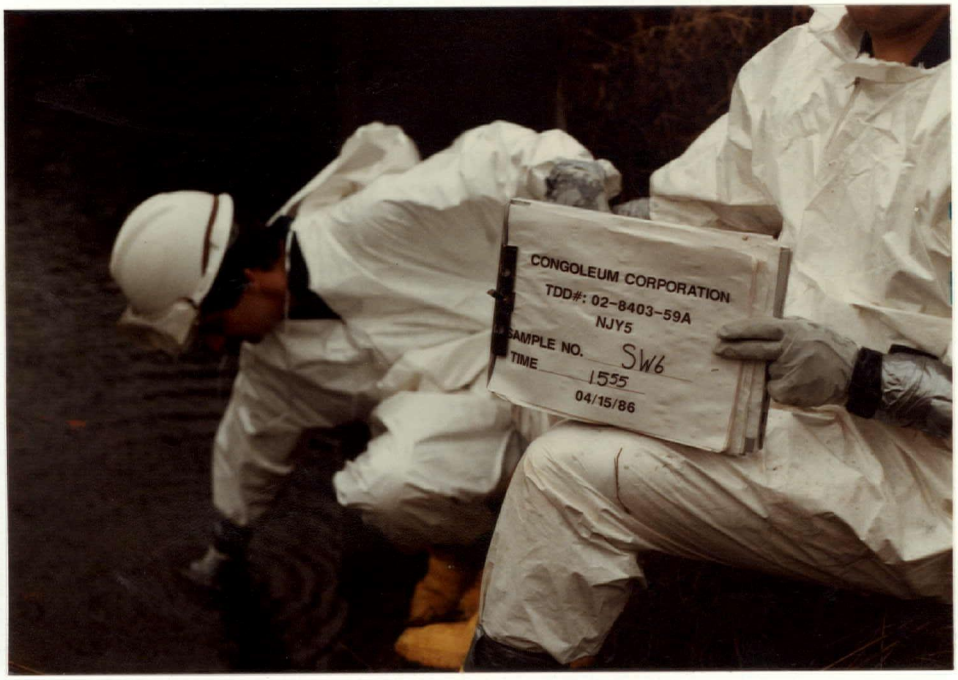
CONGOLEUM CORPORATION, TRENTON, NEW JERSEY

21. April 15, 1986 1508
Mike Young collecting sample NJY5-SW4 from township drainage ditch.
Photographer: Jeff Diamond. Ref.# 1P-18-AE.

22. April 15, 1986 1523
Mike Young collecting sample NJY5-SED4 from township drainage ditch.
Photographer: Jeff Diamond. Ref.# 1P-19-AE.

NUS CORPORATION

CONGOLEUM CORPORATION, TRENTON, NEW JERSEY



23. April 15, 1986 1555
Mike Young collecting sample NJY5-SW6 from Miry Run.
Photographer: Jeff Diamond. Ref.# 1P-20-AE.

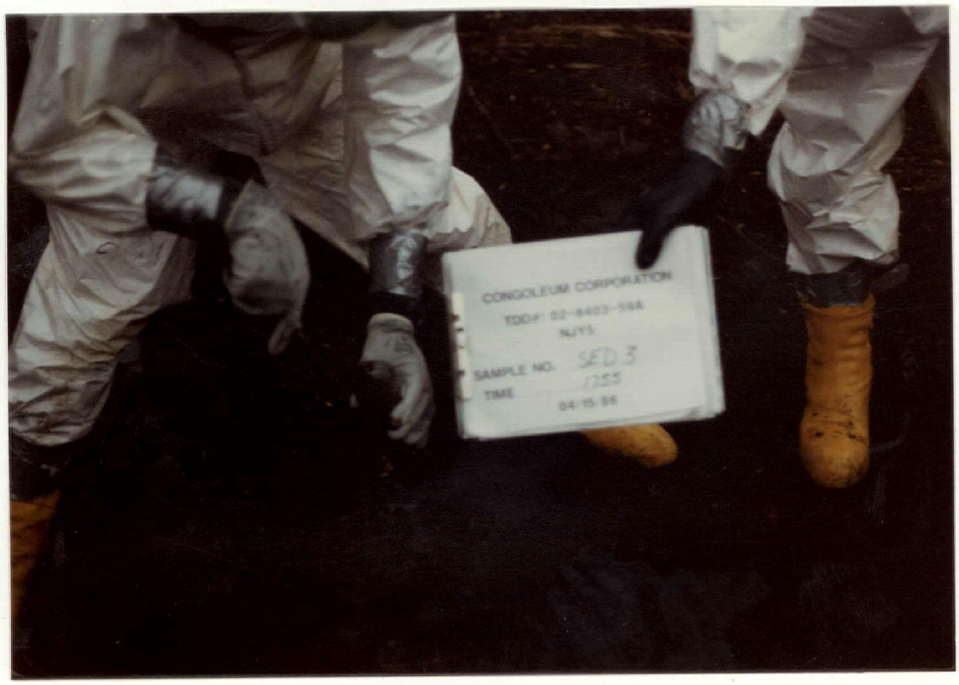
24. April 15, 1986 1635
Mike Young collecting sample NJY5-SW5 from township drainage ditch.
Photographer: Jeff Diamond. Ref.# 1P-22-AE.

25. April 15, 1986 1650
Mike Young collecting sample NJY5-SED5 from township drainage ditch.
Photographer: Jeff Diamond. Ref.# 1P-23-AE.

26. April 15, 1986 1730
Mike Young collecting sample NJY5-SW3 from ditch below discharge #2.
Photographer: Jeff Diamond. Ref. # 1P-24-AE.

NUS CORPORATION

CONGOLEUM CORPORATION, TRENTON, NEW JERSEY



27. April 15, 1986 1755
Mike Young collecting sample NJY5-SED3 from ditch below discharge #2.
Photographer: Jeff Diamond. Ref.# 1P-25-AE.

SECTION 4

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

FIT QUALITY ASSURANCE TEAM

DOCUMENTATION RECORDS

FOR

HAZARD RANKING SYSTEM

INSTRUCTIONS: As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference. Include the location of the document.

FACILITY NAME: Congoleum Corporation

LOCATION: Trenton, New Jersey

DATE SCORED: 8/21/86

PERSON SCORING: Scott W. Engle

PRIMARY SOURCE(S) OF INFORMATION (e.g., EPA region, state, FIT, etc.):

Site Inspection - field notes 4/15/86, NUS Corporation, Region II.

Sample results collected 4/15/86 by NUS Corporation, Region II FIT.

FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION:

COMMENTS OR QUALIFICATIONS:

No quantitative monitoring to determine the presence of airborne contaminants was conducted. Qualitative monitoring for health and safety considerations was conducted during all on-site activities. "0" ppm was recorded above background on the HNu and OVA of all ambient air samples.

No substances or conditions exhibiting an imminent fire or explosion hazard were noted during the site inspections or in previous investigations.

GROUNDWATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

Groundwater sampling was not conducted for this investigation.

Ref: #3

Rationale for attributing the contaminants to the facility:

Not applicable. See comments above.

* * *

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

Raritan - Magothy - Potomac Formation.

Ref: #10, 11

Depth(s) from the ground surface to the highest seasonal level of the saturated zone water table(s) of the aquifer of concern:

The aquifer of concern is unconfined and extends up into the highly permeable sandy surface soils in the region. Depth to highest seasonal level is 0 ft.

Ref: #10, 11

Depth from the ground surface to the lowest point of waste disposal/storage:

Soil samples at a depth of 1.3 feet exhibited contamination. This was the lowest documented extent of contamination.

Ref: #1, 3

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

44 inches.

Ref: #8

Mean annual lake or seasonal evaporation (list months for seasonal):

32 inches.

Ref: #8

Net precipitation (subtract the above figures):

12 inches.

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Soils in the area are of the Gales Town - Evesboro Association.

Ref: #13

Permeability associated with soil type:

10^{-3} cm/sec.

Ref: #8

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Much of the fill material is solid calendered vinyls discarded from processing activities prior to 1953. Contamination from toluene (liquid) used in the manufacturing process was present in the soils on the old fill areas. The physical state of chloroform, which appeared in the surface water and sediment samples, at the time of disposal is unknown.

Ref: #1, 2, 3, 6, 15, 18

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Containment structures are present to restrict the flow of contaminants to the surface water but are inadequate to inhibit migration of the materials detected in sampling. The old fill area is unlined with waste having been deposited directly on to the ground surface. No cap or surface containment structures are present.

Ref: #1, 2, 3, 4

Method with highest score:

No containment.

Value = 3

Ref: #8

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Chloroform, Toluene, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Di-n-octyl phthalate.

Ref: #1, 2, 3, 4

Compound with highest score:

Chloroform.

Value = 18

Ref: #8

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Hazardous substances, determined to be present through sampling, are in the form of soil and water contaminants. Records are not available for volumes of waste deposited in the fill areas.

Ref: #1, 2, 3, 4, 18.

Basis of estimating and/or computing waste quantity:

See comments above.

5 TARGETS

Groundwater Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Drinking water, industrial.

Ref: #5, 14, 16

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

Private home, owned by Louis Barry on Flock Road (Sloan Avenue).

Ref: #14

Distance to above well or building:

1.5 miles.

Ref: #14

Population Served by Groundwater Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

The Raritan - Magothy - Potomac Formation provides water through 4 wells for the Hamilton Square Water Company (currently Garden State Water Co.). The system services 27,000 people. The only additional wells identified within a 3-mile radius were an industrial well owned by Lenox and the private well noted above. An emergency connection between the Trenton Water Company and the Hamilton Square system exists to provide an alternate source of water for each.

Ref: #5, 14

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre).

No information currently available indicated the usage of groundwater for irrigation purposes.

Ref: #5, 16, 17

Total population served by groundwater within a 3-mile radius:

27,000.

Ref: #5

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

Chloroform, Phenol, Butylbenzylphthalate, Bis(2-ethylhexyl)phthalate, Di-n-octyl phthalate.

Ref: #1, 3, 4

Rationale for attributing the contaminants to the facility:

Upstream and downstream sampling determined that the above materials entered Miry Run from discharges originating at Congoleum.

Ref: #1, 3, 4

* * *

2 ROUTE CHARACTERISTICS

<u>Facility Slope and Intervening Terrain</u>

Average slope of facility in percent:

0-2%.

Ref: #2, 3

Name/description of nearest downslope surface water:

Miry Run, a tributary to Assunpink Creek which in turn enters the Delaware River approximately 3 miles downstream.

Ref: #9

Average slope of terrain between facility and above-cited surface water body in percent:

0-2%.

Ref: #2, 3

Is the facility located either totally or partially in surface water?

Yes, a fire reservoir, connected to Miry Run by two culverts, is located on the south side of the Congoleum plant facilities.

Ref: #2, 3, 9

Is the facility completely surrounded by areas of higher elevation?

No, the only area of higher elevation near the facility is the Route I-295 roadbed. The roadbed is approximately 20 feet above the natural terrain 0.1 mile east of the Congoleum facilities.

Ref: #2, 3, 9

1-Year 24-Hour Rainfall in Inches

2.5 inches.

Ref: #8

Distance to Nearest Downslope Surface Water

On-site, distance is 0.

Ref: #2

Physical State of Waste

Much of the fill material is solid calendered vinyls discarded from processing activities prior to 1953. Contamination from toluene (liquid) used in the manufacturing process was present in the soils on the old fill area.

Ref: #1, 18

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Containment structures are present to restrict the flow of contaminants to the surface water but are inadequate to inhibit migration of the materials detected in sampling. No containment structures are present in the old fill areas.

Ref: #1, 2, 3, 4

Method with highest score:

No containment.

Value = 3.

Ref: #8

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Chloroform, Phenol, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Di-n-octyl phthalate.

Ref: #1, 2, 3, 4

Compound with highest score:

Chloroform.

Value = 18.

Ref: #8

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Hazardous substances, determined to be present through sampling, are in the form of soil and water contaminants. Records are not available for volumes of waste deposited in the fill areas.

Ref: #1, 2, 3, 4, 18

Basis of estimating and/or computing waste quantity:

See comments above.

* * *

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Surface water use within 3 miles is for recreational use only below the Congoleum Plant. Background information indicates the Trenton water supply is drawn from the Delaware River at a point greater than 3 miles and upstream from where the waters of Miry Run enter the Delaware.

Ref: #2, 9, 17, 18

Is there tidal influence?

No tidal influence.

Ref: #9

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

No coastal wetlands within 2 miles.

Ref: #9

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Fresh water wetlands (Great Bear Swamp) are located approximately 0.2 miles northeast of Congoleum.

Ref: #9

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

No refuges, critical habitats, nor endangered species are located within 1 mile of Congoleum.

Ref: #19

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

No intakes are located within 3 miles.

Ref: #17

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

No irrigation intakes are present.

Ref: #9

Total population served:

Zero.

Name/description of nearest of above water bodies:

Not applicable. See comments above.

Distance to above-cited intakes, measured in stream miles.

Not applicable. See comments above.

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

No quantitative monitoring to determine the presence of airborne contaminants was conducted. Qualitative monitoring for health and safety considerations was conducted during all on-site activities. "0" ppm was recorded above background on the HNu and OVA of all ambient air samples.

Ref: #2, 3

Date and location of detection of contaminants

No contaminants detected. See comments above.

Methods used to detect the contaminants:

HNu photoionization unit and an OVA flame ionization unit.

Ref: #2, 3

Rationale for attributing the contaminants to the site:

No contaminants detected. See comments above.

* * *

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Not applicable. See comments above.

Most incompatible pair of compounds:

Not applicable. See comments above.

Toxicity

Most toxic compound:

Not applicable. See comments in Section 1.

Hazardous Waste Quantity

Total quantity of hazardous waste:

Not applicable. See comments in Section 1.

Basis of estimating and/or computing waste quantity:

Not applicable. See comments in Section 1.

* * *

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi **0 to 1 mi** **0 to 1/2 mi** **0 to 1/4 mi**

Not applicable. See comments in Section 1.

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Not applicable. See comments in Section 1.

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Not applicable. See comments in Section 1.

Distance to critical habitat of an endangered species, if 1 mile or less:

Not applicable. See comments in Section 1.

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Not applicable. See comments in Section 1.

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Not applicable. See comments in Section 1.

Distance to residential area, if 2 miles or less:

Not applicable. See comments in Section 1.

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Not applicable. See comments in Section 1.

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Not applicable. See comments in Section 1.

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

Not applicable. See comments in Section 1.

FIRE AND EXPLOSION

1 CONTAINMENT

Hazardous substances present:

No substances or conditions exhibiting an imminent fire or explosion hazard were noted during the site inspections or in previous investigations.

Ref: #2, 3, 18

Type of containment, if applicable:

Not applicable. See comments above.

* * *

2 WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

Not applicable. See comments above.

Ignitability

Compound used:

Not applicable. See comments above.

Reactivity

Most reactive compound:

Not applicable. See comments above.

Incompatibility

Most incompatible pair of compounds:

Not applicable. See comments above.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

Not applicable. See comments in Section 1.

Basis of estimating and/or computing waste quantity:

Not applicable. See comments in Section 1.

* * *

3 TARGETS

Distance to Nearest Population

Not applicable. See comments in Section 1.

Distance to Nearest Building

Not applicable. See comments in Section 1.

Distance to Sensitive Environment

Distance to wetlands:

Not applicable. See comments in Section 1.

Distance to critical habitat:

Not applicable. See comments in Section 1.

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Not applicable. See comments in Section 1.

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Not applicable. See comments in Section 1.

Distance to residential area, if 2 miles or less:

Not applicable. See comments in Section 1.

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Not applicable. See comments in Section 1.

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Not applicable. See comments in Section 1.

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

Not applicable. See comments in Section 1.

Population Within 2-Mile Radius

Not applicable. See comments in Section 1.

Buildings Within 2-Mile Radius

Not applicable. See comments in Section 1.

DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

No incidents of injury or illness resulting from contact with wastes on site were reported.

Ref: #2, 3, 18

* * *

2 ACCESSIBILITY

Describe type of barrier(s):

All wastes are readily accessible. A fence enclosure surrounds the Congoleum facility including most of the old fill areas. The westernmost portion of the fill is outside the fence, however. The surface waters and sediment of Miry Run are easily accessible. No barriers exist to foot access.

Ref: #2, 3, 18

* * *

3 CONTAINMENT

Type of containment, if applicable:

No containment of wastes.

Ref: #2, 3

* * *

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Chloroform, Phenol, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Di-n-octyl phthalate.

Ref: #1, 2, 3, 4, 8

Compound with highest score:

Chloroform.

Value = 18.

Ref: #8

5 TARGETS

Population Within One-Mile Radius

4,712.

Ref: #7

Distance to Critical Habitat (of Endangered Species)

No refuges, critical habitats, nor endangered species are located within a 1-mile radius of Congoleum.

Ref: #19

SECTION 5

HAZARD RANKING SYSTEM SCORING FORMS

Facility name: Congoleum Corporation

Location: 861 Sloan Avenue, Trenton, New Jersey

EPA Region: II

Persons(s) in charge of the facility: Martin Sendecki - Manager of Environmental Protection

Name of Reviewer: Scott Engle **Date:** 8/21/86

General description of the facility:
(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; type of information needed for rating; agency action, etc.)

The Congoleum Corporation site is an 18.5 acre industrial plant located in Trenton, New Jersey. Congoleum has manufactured resilient floor coverings at the site since 1953. The Sloan Corporation, previous owners and operators of the site, began operations prior to 1947.

The Sloan Corporation landfilled waste products on site. The wastes included: demolition debris, oxidized linseed oil, calendered vinyls, fly ash, phthalate plasticizers, naptha and paint pigments. Portions of the old landfill areas are currently overlain by parking lot and warehouse additions at the eastern and western ends of the plant facilities. The remainder of the landfill surfaces are now grass and weed covered. Only the extreme western end of the old landfill extends beyond the confines of the fence enclosing the entire facility.

No landfill activities have taken place since Congoleum began operations at the plant. All waste products generated are temporarily stored and shipped off-site by licensed haulers. Waste products generated include ink sludges containing lead and chromium, solvent mixtures, plastisol, polyurethane and spent oil from routine maintenance of company machinery and vehicles.

An old surface leaching bed was located with historical aerial photography in the southeast portion of the present Congoleum property. Its use was discontinued between 1947 and 1951.

See Attachment

Score: $S_M = 24.55$ ($S_{gw} = 39.37$ $S_{sw} = 15.94$ $S_a = 0^-$)

$S_{FE} = 0$

$S_{DC} = 50$

HRS COVER SHEET

SITE DESCRIPTION

Two permitted discharges, one into the township drainage ditch the other into Miry Run, are located at Congoleum. Both carry non-contact cooling water and surface drainage from the plant to their respective containment basins prior to discharging to the above water bodies.

A third discharge, assumed to originate at or near the plant, was located near the old fire reservoir on the south side of the plant buildings. This discharge empties from a containment basin, which is not maintained, into Miry Run. The presence of this discharge was unknown to Congoleum personnel and does not have a current permit.

Sampling during the site inspection on April 15, 1986 included: surface and shallow sub-surface soil samples on the old landfill areas and leaching bed, surface water samples upstream and downstream from all discharges and the plant itself, and stream sediment sampling coincident with the surface water samples.

Sample results showed low levels of phthalate plasticizers, chloroform and phenol in the water and sediment of Miry Run. The soils from the old landfills exhibited low levels of several polycyclic aromatic hydrocarbons as well as plasticizers.

No enforcement actions have been recorded or are pending for this facility.

Surface Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 (45)	1	45	45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					4.2
Facility Slope and Intervening Terrain	0 1 2 3	1		3	
1-yr. 24-hr. Rainfall	0 1 2 3	1		3	
Distance to Nearest Surface Water	0 1 2 3	2		6	
Physical State	0 1 2 3	1		3	
Total Route Characteristics Score				15	
3 Containment	0 1 2 3	1		3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	
Total Waste Characteristics Score			19	26	
5 Targets					4.5
Surface Water Use	0 1 (2) 3	3	6	9	
Distance to a Sensitive Environment	0 1 2 (3)	2	6	6	
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 / 12 16 18 20 / 24 30 32 35 40	1		40	
Total Targets Score			12	55	
6 If line 1 is 45, multiply 1 x 4 x 5 / If line 1 is 0, multiply 2 x 3 x 4 x 5			10260	64,350	
7 Divide line 6 by 64,350 and multiply by 100			S_{sw} = 15.94		

SURFACE WATER ROUTE WORK SHEET

Ground Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	3.1
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2 Route Characteristics					3.2
Depth to Aquifer of Concern	0 1 2 (3)	2	6	6	
Net Precipitation	0 1 (2) 3	1	2	3	
Permeability of the Unsaturated Zone	0 1 2 (3)	1	3	3	
Physical State	(0) 1 2 3	1	0	3	
Total Route Characteristics Score			11	15	
3 Containment	0 1 2 (3)	1	3	3	3.3
4 Waste Characteristics					3.4
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	
Total Waste Characteristics Score			19	26	
5 Targets					3.5
Ground Water Use	0 1 (2) 3	3	6	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 / 12 16 18 20 / 24 (30) 32 35 40	1	30	40	
Total Targets Score			36	49	
6 If line 1 is 45, multiply 1 x 4 x 5 / If line 1 is 0, multiply 2 x 3 x 4 x 5			22572	57,330	
7 Divide line 6 by 57,330 and multiply by 100		S_{gw} = 39.37			

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Air Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 45	1		45	5.1
Date and Location:	No observed releases recorded.				
Sampling Protocol:	Ambient air monitoring with an HNu and OVA				
If line 1 is 0, the S_a = 0. Enter on line 5. If line 1 is 45, then proceed to line 2.					
2 Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score			20	
3 Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
	Total Targets Score			39	
4 Multiply 1 x 2 x 3				35,100	
5 Divide line 4 by 35,100 and multiply by 100		S_a = 0			

FIGURE 9
AIR ROUTE WORK SHEET

	S	S^2
Groundwater Route Score (S_{gw})	39.37	1550.00
Surface Water Route Score (S_{sw})	15.94	254.08
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		1804.08
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		42.47
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		24.55

WORKSHEET FOR COMPUTING S_M

Fire and Explosion Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Containment	1 3	1		3	7.1
2 Waste Characteristics					7.2
Direct Evidence	0 3	1		3	
Ignitability	0 1 2 3	1		3	
Reactivity	0 1 2 3	1		3	
Incompatibility	0 1 2 3	1		3	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score				20	
3 Targets					7.3
Distance to Nearest Population	0 1 2 3 4 5	1		5	
Distance to Nearest Building	0 1 2 3	1		3	
Distance to Sensitive Environment	0 1 2 3	1		3	
Land Use	0 1 2 3	1		3	
Population Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Buildings Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Total Targets Score				24	
4 Multiply 1 x 2 x 3				1,440	
5 Divide line 4 by 1,440 and multiply by 100			S_{FE} =		

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

Direct Contact Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Incident	(0) 45	1	0	45	8.1
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 2 (3)	1	3	3	8.2
3 Containment	0 (15)	1	15	15	8.3
4 Waste Characteristics Toxicity	0 1 2 (3)	5	15	15	8.4
5 Targets					8.5
Population Within a 1-Mile Radius	0 1 2 3 (4) 5	4	16	20	
Distance to a Critical Habitat	(0) 1 2 3	4	0	12	
Total Targets Score			16	32	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			10,800	21,600	
7 Divide line 6 by 21,600 and multiply by 100		SOC = 50			

FIGURE 12
DIRECT CONTACT WORK SHEET

SECTION 6

BIBLIOGRAPHY OF INFORMATION SOURCES

BIBLIOGRAPHY OF INFORMATION SOURCES

HRS MODEL

	SOURCE	LOCATION
1.	U.S. EPA Contract Laboratory Program Sample Management Office. Analytical Results of Samples Collected 4/15/86 by NUS Corp., Region II FIT.	NUS Corp. Edison, NJ
2.	Site Reconnaissance - Field Notes, NUS Corp., Region II FIT, 4/2/86.	NUS Corp. Edison, NJ
3.	Site Inspection - Field Notes, NUS Corp., Region II FIT, 4/15/86.	NUS Corp. Edison, NJ
4.	Hamilton Township Municipal Industrial Pretreatment Program, Sample Results, 11/82.	NUS Corp. Edison, NJ
5.	Telecon Note: 3/14/86, Between Scott Engle (NUS) and Jack Longmuir, Superintendant - Garden State Water Co.	NUS Corp. Edison, NJ
6.	Telecon Note: 4/16/86, Between Scott Engle (NUS) and Bob Rucker, Congoleum Corp.	NUS Corp. Edison, NJ
7.	Graphical Exposure Modeling System (GEMS). 1984. General Software Corp. Prepared for U.S. EPA, Office of Pesticides and Toxic Substances, Landover, MD.	NUS Corp. Edison, NJ
8.	U.S. Environmental Protection Agency. 1984. Uncontrolled Hazardous Waste Site Ranking System. A User's Manual (HW-10). 60 pp.	NUS Corp. Edison, NJ
9.	U.S. Department of Interior, Geological Survey Topographic Map, "Princeton and Trenton East Quadrangles, NJ", Photorevised, 1981.	NUS Corp. Edison, NJ
10.	Evaluation of Water Levels in Major Aquifers of the New Jersey Coastal Plain, 1978. U.S. Geological Survey, Water Resources Investigations, Report 82-4077.	NUS Corp. Edison, NJ
11.	Hydrogeologic Conditions in the Coastal Plain of New Jersey, U.S. Geological Survey, Open-File Report 81-405.	NUS Corp. Edison, NJ
12.	Generalized Structural Contour Maps of the New Jersey Coastal Plain, Geologic Report Series No. 4. New Jersey Geological Service.	NUS Corp. Edison, NJ
13.	Soil Survey of Mercer County, New Jersey, 1972. U.S. Department of Agriculture Soil Conservation Service.	NUS Corp. Edison, NJ

BIBLIOGRAPHY OF INFORMATION SOURCES (Cont'd)

HRS MODEL

	SOURCE	LOCATION
14.	Well Log Records, New Jersey Department of Conservation, Division of Water Policy and Supply.	NUS Corp. Edison, NJ
15.	Incident Report, 11/04/83, New Jersey Department of Environmental Protection, Division of Waste Management.	NUS Corp. Edison, NJ
16.	Telecon Note: 3/12/86, Between Scott Engle (NUS) and John Mercurio - Hamilton Township Health Department.	NUS Corp. Edison, NJ
17.	Telecon Note: 4/5/86, Between Scott Engle (NUS) and Louis Didinato, District System Technician - Trenton Water Co.	NUS Corp. Edison, NJ
18.	Preliminary Assessment of Congoleum Corporation, NUS Corp., Region II FIT, 5/10/84.	NUS Corp. Edison, NJ
19.	Endangered and Threatened Wildlife and Plants, 1/1/86, Department of the Interior, U.S. Fish and Wildlife Service, CFR 17.11 and 17.12.	NUS Corp. Edison, NJ

SECTION 7

PRESS RELEASE SUMMARY-MITRE HAZARD RANKING SYSTEM

SUMMARY STATEMENT
CONGOLEUM CORPORATION
TRENTON, NEW JERSEY

The Congoleum Corporation site is an 18.5 acre industrial plant located in Trenton, Mercer County, New Jersey. The plant is located in a rural area with the nearest residential area lying approximately ¼ mile to the southwest. The Great Bear Swamp and farmland are located to the north and east. Congoleum has manufactured resilient floor coverings at the site since 1953. The Sloan Corporation, previous owners and operators of the site, began operations prior to 1947.

The Sloan Corporation landfilled waste products on site. The wastes included: demolition debris, oxidized linseed oil, calendered vinyls, fly ash, phthalate plasticizers, naptha and paint pigments. Portions of the old landfill areas are currently overlain by parking lot and warehouse additions at the eastern and western ends of the plant facilities. The remainder of the landfill surfaces are now grass and weed covered. Only the extreme western end of the old landfill extends beyond the confines of the fence enclosing the entire facility.

No landfill activities have taken place since Congoleum began operations at the plant. All waste products generated are temporarily stored and shipped off-site by licensed haulers. Waste products generated include ink sludges containing lead and chromium, solvent mixtures, plastisol, polyurethane and spent oil from routine maintenance of company machinery and vehicles.

Sampling during the site inspection on April 15, 1986 included: surface and shallow sub-surface soil samples on the old landfill areas and leaching bed, surface water samples upstream and downstream from all discharges and the plant itself, and stream sediment coincident with the surface water samples.

Sample results showed low levels of phthalate plasticizers, chloroform and phenol in the water and sediment of Miry Run. The soils from the old landfills exhibited low levels of several polycyclic aromatic hydrocarbons as well as plasticizers.

No enforcement actions have been recorded or are pending for this facility.

SECTION 8

ATTACHMENTS- CITED DOCUMENTS

REFERENCE #1

Ref # 1

ORGANIC DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags must be explicit.

Value -If the result is a value greater than or equal to the detection limit, report the value.

U -Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J -Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J)

C -This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides $\geq$10 ng/ul in the final extract should be confirmed by GC/MS.

B -This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other -Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

INORGANIC DATA QUALIFIER

Footnotes:

NR - not required by contract at this time.

Form I:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]. Indicate the analytical method used with P (for ICP/Flame AA) or F (for furnace).

U - Indicates elemant was analyzed for but not detected. Report with the detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

s - Indicates value determined by Method of Standard Addition.

R - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis in not within control limits.

\+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

TABLE 1

SAMPLE DESCRIPTIONS
CONGOLEUM CORPORATION
TRENTON, NEW JERSEY
CASE #5846
APRIL 15, 1986

Sample ID Number	Sample Type	Traffic Report #	Federal Express Airbill #	Time, (Hours)	Sample Location
NJY5-B1	Organic aqueous Inorganic aqueous	BF725 MBF627	153141564 153141575	1000 4/14/86	EPA, Edison, New Jersey.
NJY5-SW1	Organic aqueous Inorganic aqueous	BF726 MBF628	153141564 153141575	1058	Downstream sample of Miry Run, at intersection with gas line right-of-way.
NJY5-SW2	Organic aqueous Inorganic aqueous	BF727 MBF629	153141564 153141575	1237	Reservoir sample from fishing pier.
NJY5-SW3	Organic aqueous Inorganic aqueous	BF728 MBF630	153141564 153141575	1729	Downstream sample from discharge of containment basin #2.
NJY5-SW4	Organic aqueous Inorganic aqueous	BF729 MBF631	153141564 153141575	1500	Downstream sample from discharge of containment basin #1.
NJY5-SW5	Organic aqueous Inorganic aqueuos	BF730 MBF665	153141564 153141575	1635	Upstream sample of township drainage ditch on north side of Sloan Ave.
NJY5-SW6	Organic aqueous Inorganic aqueous	BF773 MBF666	153141564 153141575	1552	Upstream sample of Miry Run on east side of I-295 culvert.
NJY5-SW7	Organic aqueous Inorganic aqueous	BF786 MBF679	153141564 153141575	1825	Sample from discharge of containment basin #3.
NJY5-SD1	Organic aqueous Inorganic aqueous	BF774 MBF667	153141564 153141575	1110	Same location as SW-1.
NJY5-SD2	Organic sediment Inorganic sediment	BF775 MBF668	153141564 153141575	1300	Same location as SW-2.
NJY5-SD3	Organic sediment Inorganic sediment	BF776 MBF669	153141564 153141575	1751	Same location as SW-3.
NY5-SD4	Organic sediment Inorganic sediment	BF777 MBE670	153141564 153141575	1523	Same location as SW-4.

TABLE 1

SAMPLE DESCRIPTIONS
CONGOLEUM CORPORATION
TRENTON, NEW JERSEY
CASE #5846
APRIL 15, 1986

Sample ID Number	Sample Type	Traffic Report #	Federal Express Airbill #	Time, (Hours)	Sample Location
NY5-SD5	Organic sediment Inorganic sediment	BF778 MBF671	153141564 153141575	1655	Same location as SW-5.
NJY5-SD6	Organic sediment Inorganic sediment	BF779 MBF672	153141564 153141575	1552	Same location as SW-6.
NJY5-S1	Organic soil Inorganic soil	BF780 MBF673	153141564 153141575	1140	Beyond fence at western end of plant near old waste loading and transfer ramp. Depth 0-4 inches.
NJY5-S2	Organic soil Inorganic soil	BF781 MBF674	153141564 153141575	1215	Approximate center of old landfill area at western end of plant. Depth of sample, 0-4 inches.
NJY5-S3	Organic soil Inorganic soil	BF782 MBF675	153141564 153141575	1220	Same as S-2. Depth of sample, 0.7-1.1. feet.
NJY5-S4	Organic soil Inorganic soil	BF783 MBF676	153141564 153141575	1350	Immediately south of ink storage area.
NJY5-S5	Organic soil Inorganic soil	BF784 MBF677	153141564 153141575	1422	Old leaching field, within 2nd discharge area on the right hand side of the central discharge line. Depth of sample 3-6 inches.
NJY5-S6	Organic soil Inorganic soil	BF785 MBF678	153141564 153141575	1345	Approximate area of old fill activity at eastern end of the plant. Depth of sampl 0.9-1.3 ft.

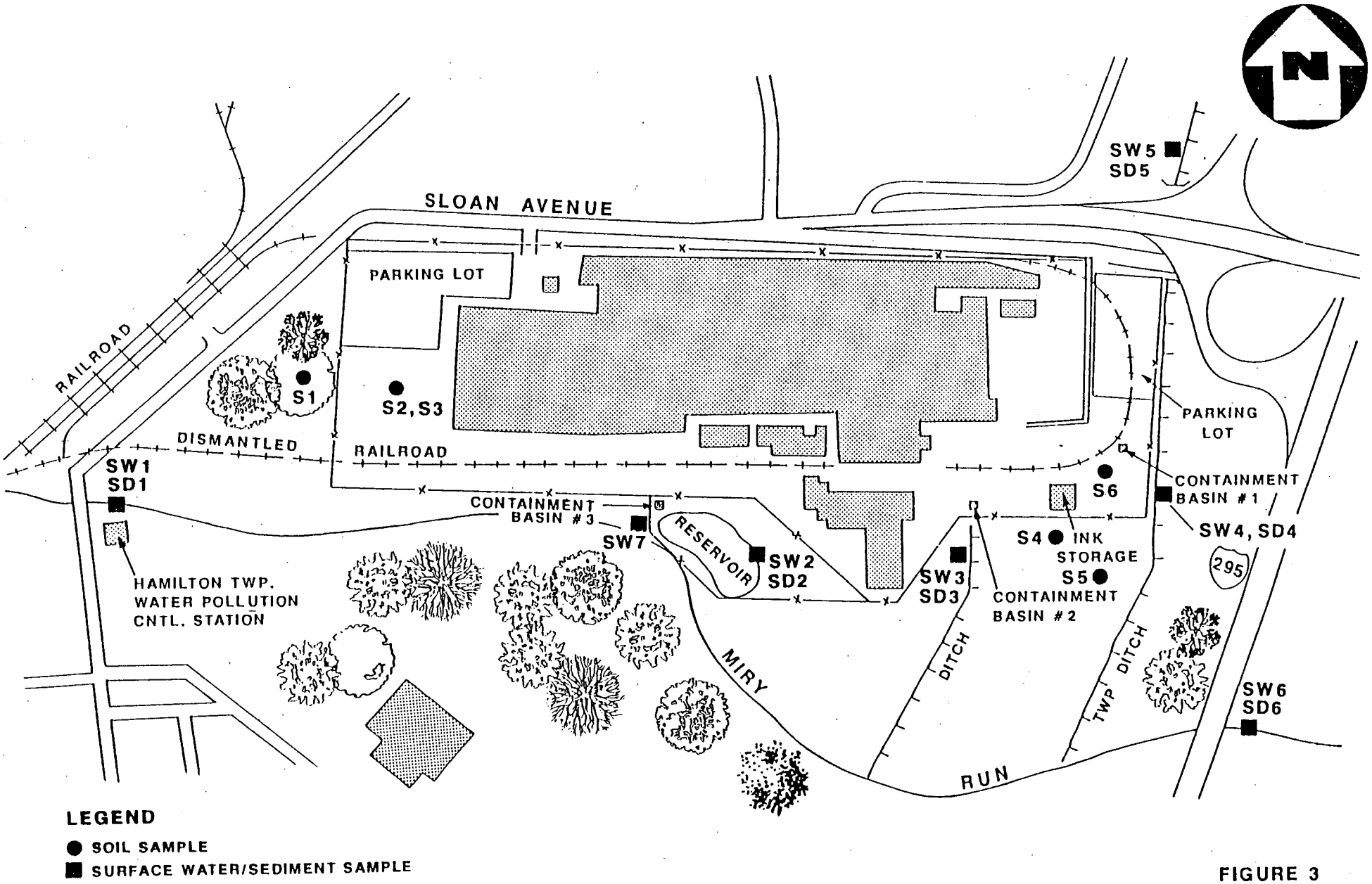


FIGURE 3

SAMPLE LOCATION MAP

CONGOLEUM CORP., TRENTON, N.J.

(SCALE UNKNOWN)

NUS CORPORATION
A Halliburton Company

ANALYTICAL DATA
NAME: CONGOLEUM CORPORATION
SAMPLING DATE: 4/15/86
CASE: 5846

VOLATILES

SAMPLE NUMBER	NJY5-B1	NJY5-SW1	NJY5-SW2	NJY5-SW3	NJY5-SW4	NJY5-SW5	NJY5-SW6	NJY5-SW7	NJY5-SD1	NJY5-SD2	NJY5-SD3	NJY5-SD4	NJY5-SD5	NJY5-SD6	NJY5-S1	NJY5-S2	NJY5-S3	NJY5-S4	NJY5-S5	NJY5-S6
TRAFFIC REPORT NUMBER	BF725	BF726	BF727	BF728	BF729	BF730	BF773	BF786	BF774	BF775	BF776	BF777	BF778	BF779	BF780	BF781	BF782	BF783	BF784	BF785
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	SED	SED	SED	SED	SED	SED	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Chloromethane																				
Bromomethane																				
Vinyl Chloride																				
Chloroethane																				
Methylene Chloride							J		E	E	J	E	J	J					J	J
Acetone	E	E	E	E	E	E	E	E		J	E			E				J	E	E
Carbon Disulfide							12													
1,1-Dichloroethene																				
1,1-Dichloroethane																				
Trans-1,2-Dichloroethene																				
Chloroform		J		5	10			14			J									
1,2-Dichloroethane																				
2-Butanone								J												
1,1,1-Trichloroethane																				
Carbon Tetrachloride																				
Vinyl Acetate																				
Bromodichloromethane					J															
1,1,2,2-Tetrachloroethane																				
1,2-Dichloropropane																				
Trans-1,3-Dichloropropene																				
Trichloroethene																				
Dibromochloromethane																				
1,1,2-Trichloroethane																				
Benzene																				
Cis-1,3-Dichloropropene																				
2-Chloroethylvinylether																				
Bromoform																				
2-Hexanone																				
4-Methyl-2-Pentanone																				
Tetrachloroethene																				
Toluene					J		5							J	132	44	14	9	67	520
Chlorobenzene																				
Ethylbenzene																				
Styrene																				
Total Xylenes																				

NOTES:
Blank space - compound analyzed for but not detected
E - analysis did not pass QA/QC requirements
J - compound present below the specified detection limit
B - compound found in laboratory blank as well as the sample, indicates possible/probable blank contamination

ANALYTICAL DATA
NAME: CONGOLEUM CORPORATION
SAMPLING DATE: 4/15/86
CASE: 5846

SEMI-VOLATILES

SAMPLE NUMBER	NJY5-B1	NJY5-SW1	NJY5-SW2	NJY5-SW3	NJY5-SW4	NJY5-SW5	NJY5-SW6	NJY5-SW7	NJY5-SD1	NJY5-SD2	NJY5-SD3	NJY5-SD4	NJY5-SD5	NJY5-SD6	NJY5-S1	NJY5-S2	NJY5-S3	NJY5-S4	NJY5-S5	NJY5-S6
TRAFFIC REPORT NUMBER	BF725	BF726	BF727	BF728	BF729	BF730	BF773	BF786	BF774	BF775	BF776	BF777	BF778	BF779	BF780	BF781	BF782	BF783	BF784	BF785
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	SED	SED	SED	SED	SED	SED	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Phenol								21K												
Aniline																				
Bis(2-Chloroethyl)Ether																				
2-Chlorophenol																				
1,3-Dichlorobenzene																				
1,4-Dichlorobenzene																				
Benzyl Alcohol																				
1,2-Dichlorobenzene																				
2-Methylphenol																				
Bis(2-Chloroisopropyl)Ether																				
4-Methylphenol																				
N-Nitroso-Di-n-Propylamine																				
Hexachloroethane																				
Nitrobenzene																				
Isophorone																				
2-Nitrophenol																				
2,4-Dimethylphenol																				
Benzoic Acid																				
Bis(2-Chloroethoxy)Methane																				
2,4-Dichlorophenol																				
1,2,4-Trichlorobenzene																				
Naphthalene																				
4-Chloroaniline																				
Hexachlorobutadiene																				
4-Chloro-3-Methylphenol																				
2-Methylnaphthalene																				
Hexachlorocyclopentadiene																				
2,4,6-Trichlorophenol																				
2,4,5-Trichlorophenol																				
2-Chloronaphthalene																				
2-Nitroaniline																				
Dimethyl Phthalate																				
Acenaphthylene																				
3-Nitroaniline																				
Acenaphthene																				
2,4-Dinitrophenol																				
4-Nitrophenol																				
Dibenzofuran																				
2,4-Dinitrotoluene																				

ANALYTICAL DATA
NAME: CONGOLEUM CORPORATION
SAMPLING DATE: 4/15/86
CASE: 5846

SEMI-VOLATILES

SAMPLE NUMBER	NJY5-B1	NJY5-SW1	NJY5-SW2	NJY5-SW3	NJY5-SW4	NJY5-SW5	NJY5-SW6	NJY5-SW7	NJY5-SD1	NJY5-SD2	NJY5-SD3	NJY5-SD4	NJY5-SD5	NJY5-SD6	NJY5-S1	NJY5-S2	NJY5-S3	NJY5-S4	NJY5-S5	NJY5-S6
TRAFFIC REPORT NUMBER	BF725	BF726	BF727	BF728	BF729	BF730	BF773	BF786	BF774	BF775	BF776	BF777	BF778	BF779	BF780	BF781	BF782	BF783	BF784	BF785
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	SED	SED	SED	SED	SED	SED	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
2,6-Dinitrotoluene																				
Diethylphthalate																				
4-Chlorophenylphenyl ether																				
Fluorene																	J			
4-Nitroaniline																				
4,6-Dinitro-2-Methylphenol																				
N-Nitrosodiphenylamine																				
4-Bromophenylphenyl ether																				
Hexachlorobenzene																				
Pentachlorophenol																				
Phenanthrene									J	J				J			J			
Anthracene																	3300			
Di-n-Butylphthalate				J	J			E	E		E		E	E						E
Fluoranthene									J	J				1200					J	
Pyrene									J	J				790	J		J			
Butylbenzylphthalate									2350	J	5100	J		J	150000					1200
3,3'-Dichlorobenzidine																				
Benzo(a)Anthracene														J						
Bis(2-Ethylhexyl)Phthalate				J				E	12000	32000	3500	238000	J	J	110000	17000	27000		520	8600
Chrysene									J	J				J	J					
Di-n-Octyl Phthalate									J	J	3250	J								J
Benzo(b)Fluoranthene															J					
Benzo(k)Fluoranthene																				
Benzo(a)Pyrene									J		J			J	J					
Indeno(1,2,3-cd)Pyrene																				
Dibenzo(a,h)Anthracene																				
Benzo(ghi)Perylene																				

NOTES:
Blank space - compound analyzed for but not detected
E - analysis did not pass QA/QC requirements
J - compound present below the specified detection limit
B - compound found in laboratory blank as well as the sample, indicates possible/probable blank contamination
K - It is not possible to obtain a complete spectrum due to the low level of the compound

ANALYTICAL DATA
NAME: CONGOLEUM CORPORATION
SAMPLING DATE: 4/15/86
CASE: 5846

PESTICIDES/PCBs																				
SAMPLE NUMBER	NJY5-B1	NJY5-SW1	NJY5-SW2	NJY5-SW3	NJY5-SW4	NJY5-SW5	NJY5-SW6	NJY5-SW7	NJY5-SD1	NJY5-SD2	NJY5-SD3	NJY5-SD4	NJY5-SD5	NJY5-SD6	NJY5-S1	NJY5-S2	NJY5-S3	NJY5-S4	NJY5-S5	NJY5-S6
TRAFFIC REPORT NUMBER	BF725	BF726	BF727	BF728	BF729	BF730	BF773	BF786	BF774	BF775	BF776	BF777	BF778	BF779	BF780	BF781	BF782	BF783	BF784	BF785
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	SED	SED	SED	SED	SED	SED	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Alpha-BHC																				
Beta-BHC																100	190			
Delta-BHC																				
Gamma-BHC (Lindane)																				
Heptachlor																36	200			
Aldrin																				
Heptachlor Epoxide																				
Endosulfan I																				
Dieldrin																				
4,4'-DDE																				
Endrin																				
Endosulfan II																				
4,4'-DDD													23							
Endosulfan sulfate																				
Endrin Aldehyde																				
4,4'-DDT																				
Methoxychlor																				
Endrin Ketone																				
Chlordane																				
Toxaphene																				
Aroclor-1016																				
Aroclor-1221																				
Aroclor-1232																				
Aroclor-1242																				
Aroclor-1248																				
Aroclor-1254																				
Aroclor-1260																				

NOTES:
Blank space - compound analyzed for but not detected
E - analysis did not pass QA/QC requirements
J - compound present below the specified detection limit
B - compound found in laboratory blank as well as the sample, indicates possible/probable blank contamination

ANALYTICAL DATA
NAME: CONGOLEUM CORPORATION
SAMPLING DATE: 4/15/86
CASE: 5846

INORGANICS																				
SAMPLE NUMBER	NJY5-B1	NJY5-SW1	NJY5-SW2	NJY5-SW3	NJY5-SW4	NJY5-SW5	NJY5-SW6	NJY5-SW7	NJY5-SD1	NJY5-SD2	NJY5-SD3	NJY5-SD4	NJY5-SD5	NJY5-SD6	NJY5-S1	NJY5-S2	NJY5-S3	NJY5-S4	NJY5-S5	NJY5-S6
TRAFFIC REPORT NUMBER	MBF627	MBF628	MBF629	MBF630	MBF631	MBF665	MBF666	MBF679	MBF667	MBF668	MBF669	MBF670	MBF671	MBF672	MBF673	MBF674	MBF675	MBF676	MBF677	MBF678
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	SED	SED	SED	SED	SED	SED	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
Aluminum	J	E	E	E	E	E	E	E	9430	15300	4520	3750	6000	5270	17600	8260	9030	4270	3490	4070
Antimony																				
Arsenic												16	18		14	12	16			
Barium		J	J	J	J	J	J	J	J	J	J	J	J	J	5460	4380	3450	J	J	J
Beryllium									J	J						J				
Cadmium												4.7			10					
Calcium		15200	12900	13900	16500	12400	11800	15200	J	J	J	J	J	J	118000	44300	131000	J	J	J
Chromium									20	28	8.4	14		11	294	225	361	5.8	17	J
Cobalt				J					J	J		33			89	J	47			
Copper	J	E	E	E	E	E	E	E	37	64	42	32	J	25	261	175	189	J	15	24
Iron	J	978	984	950	2300	2200	1350	1390	18900	34200	9240	10300	20200	10800	14800	23800	17600	8370	11700	5350
Lead				24				74	154	286	55	71	56	99	3300	4510	5910	6.7	47	82
Magnesium		6200	6150	J	6410	5940	5940	J	J	J	J	J	J	J	8780	3410	3900	J	J	J
Manganese		131	134	66	365	399	131	113	178	382	38	54	98	84	382	313	276	30	73	62
Mercury										J	0.2	J			0.18	0.31	J		J	
Nickel				J				J	J	J	31	27	J	J	72	48	J	J	J	J
Potassium		J	J	J	J	J	J	J							J	J	J		J	
Selenium																				
Silver																	J			
Sodium	J	12200	11700	33500	10500	E	12200	15400	J	J			J	J	J	J	J		J	
Thallium																				
Tin															J	36	63			
Vanadium				J				J	J	J	J	J	106	J	330	82	51	J	J	J
Zinc	J	E	E	250	E	E	E	267	189	360	130	133	66	108	11500	8240	5110	23	93	87

NOTES:
Blank space - compound analyzed for but not detected
E - analysis did not pass QA/QC requirements
J - compound present below the specified detection limit
B - compound found in laboratory blank as well as the sample, indicates possible/probable blank contamination

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313—703/557-2490 • FTS/557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BF 725

① Case Number: 5946

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
✓ Water
___ Soil/Sediment

④ Ship To: VERSAR, INC.

Attn:

Transfer
Ship To:

⑤ Regional Office: II

Sampling Personnel:
R. Adkison
(Name)
(201) 225-6160
(Phone)

Sampling Date:
4/15/86 (Begin) 4/15/86 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	
Water (Extractable)	2	6 KA 80 oz.	OK except no temp
Water (VOA)	2	80 ml	
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Water Other Pest/PCB	1	80 oz	

⑪ Analysis Lab:
Rec'd by: [illegible]
Date Rec'd: 4/16/86
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)

⑦ Shipping Information
Federal
Name of Carrier
4/15/86
Date Shipped:
1531415 64
Airbill Number:

⑧ Sample Description
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
✓ Other (specify) BLANK

⑨ Sample Location
NJY5B51

⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature) NJY5B1 Matches Inorganic TR MEF

000033

LAB COPY FOR RETURN TO SMO

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
BF725

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: WATER#2084
Sample Matrix: WATER
Data Release Authorized By:

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: 4/16/86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4/16/86
Date Analyzed: 4/16/86
Conc/Dil Factor: 1 pH NA
Percent Moisture: 100

CAS Number		ug/l
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	~~14~~ 8
75-15-0	Carbon Disulfide	5 u
75-35-4	1,1-Dichloroethene	5 u
75-34-3	1,1-Dichloroethane	5 u
156-60-5	Trans-1,2-Dichloroethene	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

CAS Number		ug/l
78-87-5	1,2-Dichloropropane	5 u
10061-02-6	Trans-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
10061-01-5	cis-1,3-Dichloropropene	5 u
110-75-8	2-chloroethylvinylether	10 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
	Total Xylenes	5 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

Form I

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
8F725

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4/21/86

Date Analyzed: 05/02/86

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [ ]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-LIquid Extraction [X]Yes

CAS Number		ug/l
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	Dimethyl Phthalate	10 u
208-96-8	Acenaphthylene	10 u
99-09-2	3-Nitroaniline	50 u

CAS Number		ug/l
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
606-20-2	2,6-Dinitrotoluene	10 u
84-66-2	Diethylphthalate	10 u
7005-22-3	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
117-81-7	bis(2-Ethylhexyl)Phthalate	10 u
218-01-9	Chrysene	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

JEN
5-2-86

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF725

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: Low Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 04/20/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 05/14/86

Continuous Liquid-Liquid Extraction [X] Yes [ ] No

Conc/Dil Factor 1.00

Percent Moisture(decanted) 0.00

CAS Number		(ug/l)
319-84-6	alpha-BHC	0.05 u
319-85-7	beta-BHC	0.05 u
319-86-8	delta-BHC	0.05 u
58-89-9	gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4,4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-	Endosulfan II	0.10 u
72-54-8	4,4'-DDD	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4,4'-DDT	0.10 u
72-43-5	Methoxychlor	0.10 u
53494-70-	Endrin Ketone	0.10 u
57-74-9	Chlordane	0.10 u
8001-35-2	Toxaphene	1.0 u
12674-11-	Aroclor-1016	0.50 u
11104-28-	Aroclor-1221	0.50 u
11141-16-	Aroclor-1232	0.50 u
53469-21-	Aroclor-1242	0.50 u
12672-29-	Aroclor-1248	0.50 u
11097-69-	Aroclor-1254	1.0 u
11096-82-	Aroclor-1260	1.0 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

000036

Vs 1000.00 or Ws _____ Vt 10000 Vi 2.00

5-14-86

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313—703/557-2490 • FTS/557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BF 726

① Case Number: 5846

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
✓ Water
___ Soil/Sediment

④ Ship To: Versar, INC.

Attn:

Transfer
Ship To:

⑤ Regional Office: II

Sampling Personnel: R. Adkison (Name)

(201) 225-6460 (Phone)

Sampling Date: 4/15/86 (Begin) 4/15/86 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	
Water (Extractable)	2	160 oz.	Received 2 bottles broken - 80 z
Water (VOA)	2	80 ml.	OK
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Other Water Pest/PCB	1	80 oz.	OK

⑪ Analysis Lab:
Rec'd by: [illegible]
Date Rec'd: 4/16/86
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)

⑦ Shipping Information

Federal
Name of Carrier

4/15/86
Date Shipped:

15314564
Airbill Number:

⑧ Sample Description

✓ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other (specify) _____

⑨ Sample Location

NJ/SSWA

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

Matches inorganic TR MBF628

000062

LAB COPY FOR RETURN TO SMO

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
BF726

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: WATER#2085
Sample Matrix: WATER
Data Release Authorized By:

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: 4/16/86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4/16/86
Date Analyzed: 4/16/86
Conc/Dil Factor: 1 pH NA
Percent Moisture: 100

CAS Number		ug/l
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	~~116~~ B
75-15-0	Carbon Disulfide	5 u
75-35-4	1,1-Dichloroethene	5 u
75-34-3	1,1-Dichloroethane	5 u
156-60-5	Trans-1,2-Dichloroethene	5 u
67-66-3	Chloroform	2 J
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

CAS Number		ug/l
78-87-5	1,2-Dichloropropane	5 u
10061-02-6	Trans-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
10061-01-5	cis-1,3-Dichloropropene	5 u
110-75-8	2-chloroethylvinylether	10 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
	Total Xylenes	5 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or, when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

WCM

Form I

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BF726

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4/21/86

Date Analyzed: 05/02/86

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [ ]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-LIquid Extraction [X]Yes

CAS Number		ug/l
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	Dimethyl Phthalate	10 u
208-96-8	Acenaphthylene	10 u
99-09-2	3-Nitroaniline	50 u

CAS Number		ug/l
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
606-20-2	2,6-Dinitrotoluene	10 u
84-66-2	Diethylphthalate	10 u
7005-22-3	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
117-81-7	bis(2-Ethylhexyl)Phthalate	10 u
218-01-9	Chrysene	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

BNAF1:R032286

Form I

SEH
5-2-86

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF726

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: Low Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 04/20/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 05/14/86

Continuous Liquid-Liquid Extraction [X] Yes [ ] No

Conc/Dil Factor 1.00

Percent Moisture(decanted) 0.00

CAS Number		(ug/l)
319-84-6	alpha-BHC	0.05 u
319-85-7	beta-BHC	0.05 u
319-86-8	delta-BHC	0.05 u
58-89-9	gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4,4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-	Endosulfan II	0.10 u
72-54-8	4,4'-DDD	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4,4'-DDT	0.10 u
72-43-5	Methoxychlor	0.10 u
53494-70-	Endrin Ketone	0.10 u
57-74-9	Chlordane	0.10 u
8001-35-2	Toxaphene	1.0 u
12674-11-	Aroclor-1016	0.50 u
11104-28-	Aroclor-1221	0.50 u
11141-16-	Aroclor-1232	0.50 u
53469-21-	Aroclor-1242	0.50 u
12672-29-	Aroclor-1248	0.50 u
11097-69-	Aroclor-1254	1.0 u
11096-82-	Aroclor-1260	1.0 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs 1000.00 or Ws _____ Vt 10000 Vi 2.00

LOD 5-14-86

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 – 703/557-2490 • FTS/557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BF 727

① Case Number: 5846

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
/ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
/ Water
___ Soil/Sediment

④ Ship To: VERSAR, INC.

Attn:

Transfer
Ship To:

⑤ Regional Office: II

Sampling Personnel: R. Adkisson (Name)

(201) 225-6160 (Phone)

Sampling Date: 4/15/86 (Begin) 4/15/86 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	
Water (Extractable)	2	160 oz	except OK no tags
Water (VOA)	2	80 ml	
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Other Water Post/AB	1	80 oz	

⑪ Analysis Lab:
Rec'd by: [illegible]
Date Rec'd: 4/16/86
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)

⑦ Shipping Information

Fedex
Name of Carrier

4/15/86
Date Shipped:

15314564
Airbill Number:

⑧ Sample Description

/ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other (specify) _____

⑨ Sample Location

NJ55W2

⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature)

Matches Inorganic TR MBF629

LAB COPY FOR RETURN TO SMO

000097

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
BF727

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: WATER #2086
Sample Matrix: WATER
Data Release Authorized By:

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: 4/16/86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4/16/86
Date Analyzed: 4/16/86
Conc/Dil Factor: 1 pH NA
Percent Moisture: 100

CAS Number		ug/l
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	~~5~~ ~~JB~~
75-15-0	Carbon Disulfide	5 u
75-35-4	1,1-Dichloroethene	5 u
75-34-3	1,1-Dichloroethane	5 u
156-60-5	Trans-1,2-Dichloroethene	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

CAS Number		ug/l
78-87-5	1,2-Dichloropropane	5 u
10061-02-6	Trans-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
10061-01-5	cis-1,3-Dichloropropene	5 u
110-75-8	2-chloroethylvinylether	10 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
	Total Xylenes	5 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

Form I

MEM

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BF727

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4/21/86

Date Analyzed: 05/02/86

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [ ]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-LIquid Extraction [X]Yes

CAS Number		ug/l
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	Dimethyl Phthalate	10 u
208-96-8	Acenaphthylene	10 u
99-09-2	3-Nitroaniline	50 u

CAS Number		ug/l
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
606-20-2	2,6-Dinitrotoluene	10 u
84-66-2	Diethylphthalate	10 u
7005-22-3	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
117-81-7	bis(2-Ethylhexyl)Phthalate	10 u
218-01-9	Chrysene	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

5-2-86

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF727

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: Low Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 04/20/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 05/14/86

Continuous Liquid-Liquid Extraction [X] Yes [ ] No

Conc/Dil Factor 1.00

Percent Moisture(decanted) 0.00

CAS Number		(ug/l)
319-84-6	alpha-BHC	0.05 u
319-85-7	beta-BHC	0.05 u
319-86-8	delta-BHC	0.05 u
58-89-9	gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4,4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-	Endosulfan II	0.10 u
72-54-8	4,4'-DDD	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4,4'-DDT	0.10 u
72-43-5	Methoxychlor	0.10 u
53494-70-	Endrin Ketone	0.10 u
57-74-9	Chlordane	0.10 u
8001-35-2	Toxaphene	1.0 u
12674-11-	Aroclor-1016	0.50 u
11104-28-	Aroclor-1221	0.50 u
11141-16-	Aroclor-1232	0.50 u
53469-21-	Aroclor-1242	0.50 u
12672-29-	Aroclor-1248	0.50 u
11097-69-	Aroclor-1254	1.0 u
11096-82-	Aroclor-1260	1.0 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

000100

Vs 1000.00 or Ws _____ Vt 10000 Vi 2.00

ADD 5-14-86

U.S. ENVIRONMENTAL PROTECTION AGENCY. HWI Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313—703/557-2490 • FTS/557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BF 728

① Case Number: 5846

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
✓ Water
___ Soil/Sediment

④ Ship To: VERSAR, INC.

Attn:

Transfer
Ship To:

⑤ Regional Office: II

Sampling Personnel: R. Adkisson (Name)

(201) 225-6160 (Phone)

Sampling Date: 4/14/86 (Begin) 4/15/86 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	
Water (Extractable)	2	16 oz.	OK except no tags
Water (VOA)	2	80 ml	
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Water Other Pest/PCB	1	80 oz.	

⑪ Analysis Lab:
Rec'd by: [illegible]
Date Rec'd: 4/16/86
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)

⑦ Shipping Information

Federal
Name of Carrier

4/15/86
Date Shipped:

K314564
Airbill Number:

⑧ Sample Description

✓ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other (specify) _____

⑨ Sample Location

NJ Y5SW3

⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature)

Matches Inorganic TR MBF630

000128

LAB COPY FOR RETURN TO SMO

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
BF728

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: WATER#2087
Sample Matrix: WATER
Data Release Authorized By:

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: 4/16/86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4/16/86
Date Analyzed: 4/16/86
Conc/Dil Factor: 1 pH NA
Percent Moisture: 100

CAS Number		ug/l
74-87-3	Chloromethane	0 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~~ ~~JB1~~
75-15-0	Carbon Disulfide	5 u
75-35-4	1,1-Dichloroethene	5 u
75-34-3	1,1-Dichloroethane	5 u
156-60-5	Trans-1,2-Dichloroethene	5 u
67-66-3	Chloroform	5
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

CAS Number		ug/l
78-87-5	1,2-Dichloropropane	5 u
10061-02-6	Trans-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
10061-01-5	cis-1,3-Dichloropropene	5 u
110-75-8	2-chloroethylvinylether	10 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
	Total Xylenes	5 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

Form I

MBM

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BF728

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4/24/86

Date Analyzed: 05/02/86

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [ ]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-LIquid Extraction [X]Yes

CAS Number		ug/l
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	Dimethyl Phthalate	10 u
208-96-8	Acenaphthylene	10 u
99-09-2	3-Nitroaniline	50 u

CAS Number		ug/l
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
606-20-2	2,6-Dinitrotoluene	10 u
84-66-2	Diethylphthalate	10 u
7005-22-3	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	2 J
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
117-81-7	bis(2-Ethylhexyl)Phthalate	3 J
218-01-9	Chrysene	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

JCH
5-2-86

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF728

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: Low Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 04/20/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 05/14/86

Continuous Liquid-Liquid Extraction [X] Yes [ ] No

Conc/Dil Factor 1.00

Percent Moisture(decanted) 0.00

CAS Number		(ug/l)
319-84-6	alpha-BHC	0.05 u
319-85-7	beta-BHC	0.05 u
319-86-8	delta-BHC	0.05 u
58-89-9	gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4,4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-	Endosulfan II	0.10 u
72-54-8	4,4'-DDD	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4,4'-DDT	0.10 u
72-43-5	Methoxychlor	0.10 u
53494-70-	Endrin Ketone	0.10 u
57-74-9	Chlordane	0.10 u
8001-35-2	Toxaphene	1.0 u
12674-11-	Aroclor-1016	0.50 u
11104-28-	Aroclor-1221	0.50 u
11141-16-	Aroclor-1232	0.50 u
53469-21-	Aroclor-1242	0.50 u
12672-29-	Aroclor-1248	0.50 u
11097-69-	Aroclor-1254	1.0 u
11096-82-	Aroclor-1260	1.0 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

000131

Vs 1000.00 or Ws _____ Vt 10000 Vi 2.00

400 5-14-86

U.S. ENVIRONMENTAL PROTECTION AGENCY. HWI Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313—703/557-2490 • FTS/557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BF 729

① Case Number: 5846

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
✓ Water
___ Soil/Sediment

④ Ship To: VERSAR, INC.

Attn:

Transfer
Ship To:

⑤ Regional Office: II

Sampling Personnel:
R. Adkisson (Name)
(201) 225-6160 (Phone)

Sampling Date:
4/15/86 (Begin) 4/15/86 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	⑪ Analysis Lab: Rec'd by: B. Vitale; Date Rec'd: 4/16/86; Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)	2	1600z	OK except no tags
Water (VOA)	2	80ml	
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Other Water Pest/PCB	1	80oz	✓

⑦ Shipping Information

Federal
Name of Carrier

4/15/86
Date Shipped:

153141564
Airbill Number:

⑧ Sample Description

✓ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other (specify) _____

⑨ Sample Location

NJYSSW4

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature) Matches Inorganic TR MBF631

LAB COPY FOR RETURN TO SMO

000176

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
BF729

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: WATER#2088
Sample Matrix: WATER
Data Release Authorized By:

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: 4/16/86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4/16/86
Date Analyzed: 4/16/86
Conc/Dil Factor: 1 pH NA
Percent Moisture: 100

CAS Number		ug/l	
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~~	~~B~~
75-15-0	Carbon Disulfide	5	u
75-35-4	1,1-Dichloroethene	5	u
75-34-3	1,1-Dichloroethane	5	u
156-60-5	Trans-1,2-Dichloroethene	5	u
67-66-3	Chloroform	10	
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	2	J

CAS Number		ug/l	
78-87-5	1,2-Dichloropropane	5	u
10061-02-6	Trans-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
10061-01-5	cis-1,3-Dichloropropene	5	u
110-75-8	2-chloroethylvinylether	10	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	4	J
108-90-7	Chlorobenzene	5	u
100-41-4	Ethylbenzene	5	u
100-42-5	Styrene	5	u
	Total Xylenes	5	u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

Form I

MGM

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BF729

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4/21/86

Date Analyzed: 5/2/86

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [ ]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-LIquid Extraction [X]Yes

CAS Number		ug/l
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	Dimethyl Phthalate	10 u
208-96-8	Acenaphthylene	10 u
99-09-2	3-Nitroaniline	50 u

CAS Number		ug/l
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
606-20-2	2,6-Dinitrotoluene	10 u
84-66-2	Diethylphthalate	10 u
7005-22-3	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	2 J
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
117-81-7	bis(2-Ethylhexyl)Phthalate	10 u
218-01-9	Chrysene	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

DC 5/15/86

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF729

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: Low Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 04/20/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 05/13/86

Continuous Liquid-Liquid Extraction [X] Yes [ ] No

Conc/Dil Factor 1.00

Percent Moisture(decanted) 0.00

CAS Number		(ug/l)
319-84-6	alpha-BHC	0.05 u
319-85-7	beta-BHC	0.05 u
319-86-8	delta-BHC	0.05 u
58-89-9	gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4,4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-	Endosulfan II	0.10 u
72-54-8	4,4'-DDD	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4,4'-DDT	0.10 u
72-43-5	Methoxychlor	0.10 u
53494-70-	Endrin Ketone	0.10 u
57-74-9	Chlordane	0.10 u
8001-35-2	Toxaphene	1.0 u
12674-11-	Aroclor-1016	0.50 u
11104-28-	Aroclor-1221	0.50 u
11141-16-	Aroclor-1232	0.50 u
53469-21-	Aroclor-1242	0.50 u
12672-29-	Aroclor-1248	0.50 u
11097-69-	Aroclor-1254	1.0 u
11096-82-	Aroclor-1260	1.0 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs 1000.00 or Ws _____ Vt 10000 Vi 2.00

000179

ADD 5/14/86

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313—703/557-2490 • FTS/557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BF 730

① Case Number: 5846

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
✓ Water
___ Soil/Sediment

④ Ship To: Versar, Inc.

Attn:

Transfer
Ship To:

⑤ Regional Office: II

Sampling Personnel:
R. Adkison (Name)
(201) 225-6160 (Phone)

Sampling Date:
4/15/86 (Begin) 4/15/86 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	
Water (Extractable)	2	160 oz.	OK Kept in tags
Water (VOA)	2	80 ml	
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Water Other Pest/PCB	1	80 oz	

⑪ Analysis Lab:
Rec'd by: [illegible]
Date Rec'd: 4/16/86
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)

⑦ Shipping Information
Fedex
Name of Carrier
4/15/86
Date Shipped:
1531415 64
Airbill Number:

⑧ Sample Description
✓ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other (specify) _____

⑨ Sample Location
NJ Y5 SW5

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature) Matches Inorganic TR MBF665

000218

LAB COPY FOR RETURN TO SMO

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
BF730

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: WATER#2089
Sample Matrix: WATER
Data Release Authorized By:

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: 4/16/86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4/17/86
Date Analyzed: 4/17/86
Conc/Dil Factor: 1 pH NA
Percent Moisture: 100

CAS Number		ug/l
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	9 B
75-15-0	Carbon Disulfide	5 u
75-35-4	1,1-Dichloroethene	5 u
75-34-3	1,1-Dichloroethane	5 u
156-60-5	Trans-1,2-Dichloroethene	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

CAS Number		ug/l
78-87-5	1,2-Dichloropropane	5 u
10061-02-6	Trans-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
10061-01-5	cis-1,3-Dichloropropene	5 u
110-75-8	2-chloroethylvinylether	10 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
	Total Xylenes	5 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

Form I

MBM

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BF730

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4/27/86

Date Analyzed: 05/02/86

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [ ]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-LIquid Extraction [X]Yes

CAS Number		ug/l
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	Dimethyl Phthalate	10 u
208-96-8	Acenaphthylene	10 u
99-09-2	3-Nitroaniline	50 u

CAS Number		ug/l
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
606-20-2	2,6-Dinitrotoluene	10 u
84-66-2	Diethylphthalate	10 u
7005-22-3	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
117-81-7	bis(2-Ethylhexyl)Phthalate	10 u
218-01-9	Chrysene	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

BCW
5-2-86

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF730

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: Low Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 04/20/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 05/14/86

Continuous Liquid-Liquid Extraction [X] Yes [ ] No

Conc/Dil Factor 1.00

Percent Moisture(decanted) 0.00

CAS Number		(ug/l)
319-84-6	alpha-BHC	0.05 u
319-85-7	beta-BHC	0.05 u
319-86-8	delta-BHC	0.05 u
58-89-9	gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4,4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-	Endosulfan II	0.10 u
72-54-8	4,4'-DDD	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4,4'-DDT	0.10 u
72-43-5	Methoxychlor	0.10 u
53494-70-	Endrin Ketone	0.10 u
57-74-9	Chlordane	0.10 u
8001-35-2	Toxaphene	1.0 u
12674-11-	Aroclor-1016	0.50 u
11104-28-	Aroclor-1221	0.50 u
11141-16-	Aroclor-1232	0.50 u
53469-21-	Aroclor-1242	0.50 u
12672-29-	Aroclor-1248	0.50 u
11097-69-	Aroclor-1254	1.0 u
11096-82-	Aroclor-1260	1.0 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs 1000.00 or Ws _____ Vt 10000 Vi 2.00

ACD 5-14-91

U.S. ENVIRONMENTAL PROTECTION AGENCY, HWI Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 — 703/557-2490 — FTS/557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BF 773

① Case Number: 5846

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
✓ Water
___ Soil/Sediment

④ Ship To: VERSAR, INC.

Attn:

Transfer
Ship To:

⑤ Regional Office: II

Sampling Personnel: R. Adkisson (Name)

(201) 225-6160 (Phone)

Sampling Date: 4/14/86 (Begin) 4/14/86 (End)

Shipping Information: Federal

Name of Carrier

4/14/86

Date Shipped:

K31411564

Airbill Number:

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	
Water (Extractable)	2	1600z	2 days late
Water (VOA)	2	80ml	
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Water Other Pest/PCB	1	800z	

⑪ Analysis Lab:
Rec'd by: Tracy Fabel
Date Rec'd: 4-18-86
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)

⑧ Sample Description
✓ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other (specify) _____

⑨ Sample Location

NJY55W6

⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature) Matches Inorganic TR MBF666

000248

LAB COPY FOR RETURN TO SMO

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
BF773

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: WATER#2256
Sample Matrix: WATER
Data Release Authorized By:

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: ~~4/15/86~~ 4-18-86

PMM 6/2/86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4/18/86
Date Analyzed: 4/18/86
Conc/Dil Factor: 1 pH NA
Percent Moisture: 100

CAS Number		ug/l	
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	2	J
67-64-1	Acetone	~~11~~	~~B~~
75-15-0	Carbon Disulfide	12	
75-35-4	1,1-Dichloroethene		5 u
75-34-3	1,1-Dichloroethane		5 u
156-60-5	Trans-1,2-Dichloroethene		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

CAS Number		ug/l	
78-87-5	1,2-Dichloropropane		5 u
10061-02-6	Trans-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
10061-01-5	cis-1,3-Dichloropropene		5 u
110-75-8	2-chloroethylvinylether		10 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	
108-90-7	Chlorobenzene		5 u
100-41-4	Ethylbenzene		5 u
100-42-5	Styrene		5 u
	Total Xylenes		5 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

Form I

MEM

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BF773

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4/23/86

Date Analyzed: 5/5/86

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [ ]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-LIquid Extraction [X]Yes

CAS Number		ug/l
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	Dimethyl Phthalate	10 u
208-96-8	Acenaphthylene	10 u
99-09-2	3-Nitroaniline	50 u

CAS Number		ug/l
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
606-20-2	2,6-Dinitrotoluene	10 u
84-66-2	Diethylphthalate	10 u
7005-22-3	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
117-81-7	bis(2-Ethylhexyl)Phthalate	10 u
218-01-9	Chrysene	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

5/6/86

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF773

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: Low Medium (circle one) GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: ~~4/20/86~~ 4/22/86 SENK 5-23-86 Separatory Funnel Extration [ ] Yes

Date Analyzed 5/6/86 Continuous Liquid-Liquid Extraction [X] Yes [ ] No

Conc/Dil Factor 1

Percent Moisture(decanted) 0

CAS Number		(ug/l)
319-84-6	alpha-BHC	0.05 u
319-85-7	beta-BHC	0.05 u
319-86-8	delta-BHC	0.05 u
58-89-9	gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4,4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-	Endosulfan II	0.10 u
72-54-8	4,4'-DDD	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4,4'-DDT	0.10 u
72-43-5	Methoxychlor	0.10 u
53494-70-	Endrin Ketone	0.10 u
57-74-9	Chlordane	0.10 u
8001-35-2	Toxaphene	1.0 u
12674-11-	Aroclor-1016	0.50 u
11104-28-	Aroclor-1221	0.50 u
11141-16-	Aroclor-1232	0.50 u
53469-21-	Aroclor-1242	0.50 u
12672-29-	Aroclor-1248	0.50 u
11097-69-	Aroclor-1254	1.0 u
11096-82-	Aroclor-1260	1.0 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs 1000.00 or Ws _____ Vt 10000 Vi 2.00

DL 000251

U.S. ENVIRONMENTAL PROTECTION AGENCY Sample Management Office
P.O. Box 818 Alexandria, Virginia 22313 703/557-2490 FTS 557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BF 786

① Case Number: 5846

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
✓ Water
___ Soil/Sediment

④ Ship To: Versar, Inc.

Attn:

Transfer
Ship To:

⑤ Regional Office: II

Sampling Personnel: R. Atkison (Name)

(201) 225-6160 (Phone)

Sampling Date: 4/16/86 (Begin) 4/18/86 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	⑪ Analysis Lab: Rec'd by: Tracy Fabel; Date Rec'd: 4-18-86; Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)	2	160 oz.	2 days late
Water (VOA)	2	40 ml	
Soil/Sediment (Extractable)			—
Soil/Sediment (VOA)			
Other Water Bottle	1	1000	

Shipping Information

Federal
Name of Carrier

4/16/86
Date Shipped:

1531414210
Airbill Number:

⑧ Sample Description
✓ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other (specify) _____

⑨ Sample Location

NJ 15 [illegible]

⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature) Matrix Organic TR 75E09

001464

LAB COPY FOR RETURN TO SMO

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
BF786

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: WATER#2263
Sample Matrix: WATER
Data Release Authorized By:

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: ~~4/18/86~~ 4-18-86 pm 6-2-86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4/18/86
Date Analyzed: 4/18/86
Conc/Dil Factor: 1 pH NA
Percent Moisture: 100

CAS Number		ug/l
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	~~100 B~~
75-15-0	Carbon Disulfide	5 u
75-35-4	1,1-Dichloroethene	5 u
75-34-3	1,1-Dichloroethane	5 u
156-60-5	Trans-1,2-Dichloroethene	5 u
67-66-3	Chloroform	14
107-06-2	1,2-Dichloroethane	5 u
78-93-3	2-butanone	9 J
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

CAS Number		ug/l
78-87-5	1,2-Dichloropropane	5 u
10061-02-6	Trans-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
10061-01-5	cis-1,3-Dichloropropene	5 u
110-75-8	2-chloroethylvinylether	10 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
	Total Xylenes	5 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

K Spectrum indicates the presence of the compound but it is not possible to obtain a complete spectrum due to the low level of the compound. MBM

VOAF1: REV032286

Form I

pm

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BF786

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4/21/86 & 4/23/86

GPC Cleanup [ ]Yes [ ]No

Date Analyzed: 5/5/86

Separatory Funnel Extraction [ ]Yes

Conc/Dil Factor: 1

Continuous Liquid-Liquid Extraction [X]Yes

CAS Number		ug/l
108-95-2	Phenol	21 K
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	Dimethyl Phthalate	10 u
208-96-8	Acenaphthylene	10 u
99-09-2	3-Nitroaniline	50 u

pm

CAS Number		ug/l
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
606-20-2	2,6-Dinitrotoluene	10 u
84-66-2	Diethylphthalate	10 u
7005-22-3	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	~~3 J,B~~
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
117-81-7	bis(2-Ethylhexyl)Phthalate	~~6 J,B~~
218-01-9	Chrysene	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

BNAF1:R032286

Form I

001466

DC 5/6/86

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF786

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: Low Medium (circle one) GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: ~~4/20/86~~ 4/22/86 5-23-86 Separatory Funnel Extration [ ] Yes

Date Analyzed 5/6/86 Continuous Liquid-Liquid Extraction [X] Yes [ ] No

Conc/Dil Factor 1

Percent Moisture(decanted) 0

CAS Number		(ug/l)
319-84-6	alpha-BHC	0.05 u
319-85-7	beta-BHC	0.05 u
319-86-8	delta-BHC	0.05 u
58-89-9	gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4,4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-	Endosulfan II	0.10 u
72-54-8	4,4'-DDD	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4,4'-DDT	0.10 u
72-43-5	Methoxychlor	0.10 u
53494-70-	Endrin Ketone	0.10 u
57-74-9	Chlordane	0.10 u
8001-35-2	Toxaphene	1.0 u
12674-11-	Aroclor-1016	0.50 u
11104-28-	Aroclor-1221	0.50 u
11141-16-	Aroclor-1232	0.50 u
53469-21-	Aroclor-1242	0.50 u
12672-29-	Aroclor-1248	0.50 u
11097-69-	Aroclor-1254	1.0 u
11096-82-	Aroclor-1260	1.0 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs 1000.00 or Ws _____ Vt 10000 Vi 2.00

DL 5/16/86

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 • 703/557-2490 • FTS/557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BF 774

① **Case Number:** 5546

Sample Site Name/Code:

② **SAMPLE CONCENTRATION** (Check One)

✓ Low Concentration
___ Medium Concentration

③ **SAMPLE MATRIX** (Check One)

___ Water
✓ Soil/Sediment

④ **Ship To:** Versar, INC.

Attn:

Transfer
Ship To:

⑤ **Regional Office:** II

Sampling Personnel: R. Adkisson (Name)

(201) 225-6160 (Phone)

Sampling Date: 4/15/86 (Begin) 4/15/86 (End)

⑥ **For each sample collected specify number of containers used and mark volume level on each bottle.**

	Number of Containers	Approximate Total Volume	⑪ Analysis Lab: Rec'd by: Tracy Fabel; Date Rec'd: 4-18-86; Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)			2 days late
Water (VOA)			
Soil/Sediment (Extractable)	1	8 oz	
Soil/Sediment (VOA)	1	120 ml	
Other Soil/Sed PCB/PCB	1	8 oz.	

Shipping Information

Federal
Name of Carrier

4/15/86
Date Shipped:

153141544
Airbill Number:

⑧ **Sample Description**

___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
✓ Solids
___ Other (specify) _____

⑨ **Sample Location** _____

NJY550.1

⑩ **Special Handling Instructions:** (e.g., safety precautions, hazardous nature) Matches Inorganic TR MBF667

000285

LAB COPY FOR RETURN TO SMO

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
BF774

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: 2257
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: 4/18/86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4/18/86
Date Analyzed: 4/18/86
Conc/Dil Factor: 1 pH
Percent Moisture: 74.3

CAS Number		ug/Kg
74-87-3	Chloromethane	39 u
74-83-9	Bromomethane	39 u
75-01-4	Vinyl Chloride	39 u
75-00-3	Chloroethane	39 u
75-09-2	Methylene Chloride	~~7 J,B~~
67-64-1	Acetone	39 u
75-15-0	Carbon Disulfide	19 u
75-35-4	1,1-Dichloroethene	19 u
75-34-3	1,1-Dichloroethane	19 u
156-60-5	Trans-1,2-Dichloroethene	19 u
67-66-3	Chloroform	19 u
107-06-2	1,2-Dichloroethane	19 u
78-93-3	2-butanone	39 u
71-55-6	1,1,1-Trichloroethane	19 u
56-23-5	Carbon Tetrachloride	19 u
108-05-4	Vinyl Acetate	39 u
75-27-4	Bromodichloromethane	19 u

CAS Number		ug/Kg
78-87-5	1,2-Dichloropropane	19 u
10061-02-6	Trans-1,3-Dichloropropene	19 u
79-01-6	Trichloroethene	19 u
124-48-1	Dibromochloromethane	19 u
79-00-5	1,1,2-Trichloroethane	19 u
71-43-2	Benzene	19 u
10061-01-5	cis-1,3-Dichloropropene	19 u
110-75-8	2-chloroethylvinylether	39 u
75-25-2	Bromoform	19 u
108-10-1	4-Methyl-2-Pentanone	39 u
591-78-6	2-Hexanone	39 u
127-18-4	Tetrachloroethene	19 u
79-34-5	1,1,2,2-Tetrachloroethane	19 u
108-88-3	Toluene	19 u
108-90-7	Chlorobenzene	19 u
100-41-4	Ethylbenzene	19 u
100-42-5	Styrene	19 u
	Total Xylenes	19 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

Form I

DC
5/15/86

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BF774

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4/25/86

Date Analyzed: 5/6/86

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-LIquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	1620 u
111-44-4	bis(2-Chloroethyl)Ether	1620 u
95-57-8	2-Chlorophenol	1620 u
541-73-1	1,3-Dichlorobenzene	1620 u
106-46-7	1,4-Dichlorobenzene	1620 u
100-51-6	Benzyl Alcohol	1620 u
95-50-1	1,2-Dichlorobenzene	1620 u
95-48-7	2-Methylphenol	1620 u
39638-32-9	bis(2-chloroisopropyl)ether	1620 u
106-44-5	4-methylphenol	1620 u
621-64-7	N-Nitroso-Di-n-propylamine	1620 u
67-72-1	Hexachloroethane	1620 u
98-95-3	Nitrobenzene	1620 u
78-59-1	Isophorone	1620 u
88-75-5	2-Nitrophenol	1620 u
105-67-9	2,4-dimethylphenol	1620 u
65-85-0	Benzoic Acid	8000 u
111-91-1	bis(2-chloroethoxy)methane	1620 u
120-83-2	2,4-dichlorophenol	1620 u
120-82-1	1,2,4-trichlorobenzene	1620 u
91-20-3	Naphthalene	1620 u
106-47-8	4-Chloroaniline	1620 u
87-68-3	Hexachlorobutadiene	1620 u
59-50-7	4-chloro-3-methylphenol	1620 u
91-57-6	2-methylnaphthalene	1620 u
77-47-4	Hexachlorocyclopentadiene	1620 u
88-06-2	2,4,6-Trichlorophenol	1620 u
95-95-4	2,4,5-Trichlorophenol	8000 u
91-58-7	2-Chloronaphthalene	1620 u
88-74-4	2-Nitroaniline	8000 u
131-11-3	Dimethyl Phthalate	1620 u
208-96-8	Acenaphthylene	1620 u
99-09-2	3-Nitroaniline	8000 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	1620 u
51-28-5	2,4-Dinitrophenol	8000 u
100-02-7	4-Nitrophenol	8000 u
132-64-9	Dibenzofuran	1620 u
121-14-2	2,4-Dinitrotoluene	1620 u
606-20-2	2,6-Dinitrotoluene	1620 u
84-66-2	Diethylphthalate	1620 u
7005-22-3	4-Chlorophenyl-phenylether	1620 u
86-73-7	Fluorene	1620 u
100-01-6	4-Nitroaniline	8000 u
534-52-1	4,6-dinitro-2-methylphenol	8000 u
86-30-6	N-Nitrosodiphenylamine (1)	1620 u
101-55-3	4-Bromophenyl-phenylether	1620 u
118-74-1	Hexachlorobenzene	1620 u
87-86-5	Pentachlorophenol	8000 u
85-01-8	Phenanthrene	460 J
120-12-7	Anthracene	1620 u
84-74-2	Di-n-butylphthalate	~~480 J,B~~
206-44-0	Fluoranthene	1150 J
129-00-0	Pyrene	820 J
85-68-7	Butylbenzylphthalate	2350
91-94-1	3,3'-Dichlorobenzidine	3200 u
56-55-3	Benzo(a)anthracene	1620 u
117-81-7	bis(2-Ethylhexyl)Phthalate	12000
218-01-9	Chrysene	660 J
117-84-0	Di-n-Octylphthalate	1500 J
205-99-2	Benzo(b)Fluoranthene	1620 u
207-08-9	Benzo(k)Fluoranthene	1620 u
50-32-8	Benzo(a)pyrene	570 J
193-39-5	Indeno(1,2,3-cd)Pyrene	1620 u
53-70-3	Dibenz(a,h)Anthracene	1620 u
191-24-2	Benzo(g,h,i)Perylene	1620 u

(1)-Cannot be separated from diphenylamine

DC 5-12-86

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF774

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: Low Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 4/25/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 5/20/86

Continuous Liquid-Liquid Extraction [ ] Yes [X] No

Conc/Dil Factor 5

Percent Moisture(decanted) 74.3

CAS Number		(ug/kg)
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	64 u
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-	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	130 u
53494-70-	Endrin Ketone	130 u
57-74-9	Chlordane	130 u
8001-35-2	Toxaphene	1300 u
12674-11-	Aroclor-1016	640 u
11104-28-	Aroclor-1221	640 u
11141-16-	Aroclor-1232	640 u
53469-21-	Aroclor-1242	640 u
12672-29-	Aroclor-1248	640 u
11097-69-	Aroclor-1254	1300 u
11096-82-	Aroclor-1260	1300 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs _____ or Ws 30.27 Vt 100000 Vi 2.00

U.S. ENVIRONMENTAL PROTECTION AGENCY • HWI Sample Management Office
P.O. Box 818 • Alexandria, Virginia 22313 • 703/557-2490 • FTS/557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BF 775

(1) Case Number: 5846

Sample Site Name/Code:

(2) SAMPLE CONCENTRATION (Check One)
/ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX (Check One)
/ Water
/ Soil/Sediment

(4) Ship To: Versar, Inc.

Attn:

Transfer
Ship To:

(5) Regional Office: II

Sampling Personnel: R. Adkisson (Name)
(201) 225-6160 (Phone)

Sampling Date: 4/15/86 (Begin) 4/15/86 (End)

(7) Shipping Information
Federal
Name of Carrier
4/15/86
Date Shipped:
15314564
Airbill Number:

(6) For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	(11) Analysis Lab: Rec'd by: Tracy Fabel; Date Rec'd: 4-18-86; Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)			2 days late
Water (VOA)			
Soil/Sediment (Extractable)	1	8 oz	
Soil/Sediment (VOA)	1	~~AA 80~~ 120ml	
Soil/Sed Other Pest/PCB	1	8 oz	

(8) Sample Description
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
/ Solids
___ Other (specify) _____

(9) Sample Location
NJY5502

(10) Special Handling Instructions: (e.g., safety precautions, hazardous nature) Matches Inorganic TR MBF668

000403

LAB COPY FOR RETURN TO SMO

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
BF775

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: 2258
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: 4/17/86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4/18/86
Date Analyzed: 4/18/86
Conc/Dil Factor: 1 pH
Percent Moisture: 77.9

CAS Number		ug/Kg
74-87-3	Chloromethane	45 u
74-83-9	Bromomethane	45 u
75-01-4	Vinyl Chloride	45 u
75-00-3	Chloroethane	45 u
75-09-2	Methylene Chloride	~~4 J,B~~
67-64-1	Acetone	21 J
75-15-0	Carbon Disulfide	23 u
75-35-4	1,1-Dichloroethene	23 u
75-34-3	1,1-Dichloroethane	23 u
156-60-5	Trans-1,2-Dichloroethene	23 u
67-66-3	Chloroform	23 u
107-06-2	1,2-Dichloroethane	23 u
78-93-3	2-butanone	45 u
71-55-6	1,1,1-Trichloroethane	23 u
56-23-5	Carbon Tetrachloride	23 u
108-05-4	Vinyl Acetate	45 u
75-27-4	Bromodichloromethane	23 u

CAS Number		ug/Kg
78-87-5	1,2-Dichloropropane	23 u
10061-02-6	Trans-1,3-Dichloropropene	23 u
79-01-6	Trichloroethene	23 u
124-48-1	Dibromochloromethane	23 u
79-00-5	1,1,2-Trichloroethane	23 u
71-43-2	Benzene	23 u
10061-01-5	cis-1,3-Dichloropropene	23 u
110-75-8	2-chloroethylvinylether	45 u
75-25-2	Bromoform	23 u
108-10-1	4-Methyl-2-Pentanone	45 u
591-78-6	2-Hexanone	45 u
127-18-4	Tetrachloroethene	23 u
79-34-5	1,1,2,2-Tetrachloroethane	23 u
108-88-3	Toluene	23 u
108-90-7	Chlorobenzene	23 u
100-41-4	Ethylbenzene	23 u
100-42-5	Styrene	23 u
	Total Xylenes	23 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

Form I

JC 5/13/86

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BF775

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4/25/86

Date Analyzed: 5/6/86

Conc/Dil Factor: 5

GPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-LIquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	9400 u
111-44-4	bis(2-Chloroethyl)Ether	9400 u
95-57-8	2-Chlorophenol	9400 u
541-73-1	1,3-Dichlorobenzene	9400 u
106-46-7	1,4-Dichlorobenzene	9400 u
100-51-6	Benzyl Alcohol	9400 u
95-50-1	1,2-Dichlorobenzene	9400 u
95-48-7	2-Methylphenol	9400 u
39638-32-9	bis(2-chloroisopropyl)ether	9400 u
106-44-5	4-methylphenol	9400 u
621-64-7	N-Nitroso-Di-n-propylamine	9400 u
67-72-1	Hexachloroethane	9400 u
98-95-3	Nitrobenzene	9400 u
78-59-1	Isophorone	9400 u
88-75-5	2-Nitrophenol	9400 u
105-67-9	2,4-dimethylphenol	9400 u
65-85-0	Benzoic Acid	46000 u
111-91-1	bis(2-chloroethoxy)methane	9400 u
120-83-2	2,4-dichlorophenol	9400 u
120-82-1	1,2,4-trichlorobenzene	9400 u
91-20-3	Naphthalene	9400 u
106-47-8	4-Chloroaniline	9400 u
87-68-3	Hexachlorobutadiene	9400 u
59-50-7	4-chloro-3-methylphenol	9400 u
91-57-6	2-methylnaphthalene	9400 u
77-47-4	Hexachlorocyclopentadiene	9400 u
88-06-2	2,4,6-Trichlorophenol	9400 u
95-95-4	2,4,5-Trichlorophenol	46000 u
91-58-7	2-Chloronaphthalene	9400 u
88-74-4	2-Nitroaniline	46000 u
131-11-3	Dimethyl Phthalate	9400 u
208-96-8	Acenaphthylene	9400 u
99-09-2	3-Nitroaniline	46000 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	9400 u
51-28-5	2,4-Dinitrophenol	46000 u
100-02-7	4-Nitrophenol	46000 u
132-64-9	Dibenzofuran	9400 u
121-14-2	2,4-Dinitrotoluene	9400 u
606-20-2	2,6-Dinitrotoluene	9400 u
84-66-2	Diethylphthalate	9400 u
7005-22-3	4-Chlorophenyl-phenylether	9400 u
86-73-7	Fluorene	9400 u
100-01-6	4-Nitroaniline	46000 u
534-52-1	4,6-dinitro-2-methylphenol	46000 u
86-30-6	N-Nitrosodiphenylamine (1)	9400 u
101-55-3	4-Bromophenyl-phenylether	9400 u
118-74-1	Hexachlorobenzene	9400 u
87-86-5	Pentachlorophenol	46000 u
85-01-8	Phenanthrene	2300 J
120-12-7	Anthracene	9400 u
84-74-2	Di-n-butylphthalate	9400 u
206-44-0	Fluoranthene	5600 J
129-00-0	Pyrene	4100 J
85-68-7	Butylbenzylphthalate	2600 J
91-94-1	3,3'-Dichlorobenzidine	18800 u
56-55-3	Benzo(a)anthracene	9400 u
117-81-7	bis(2-Ethylhexyl)Phthalate	32000
218-01-9	Chrysene	3500 J
117-84-0	Di-n-Octylphthalate	3200 J
205-99-2	Benzo(b)Fluoranthene	9400 u
207-08-9	Benzo(k)Fluoranthene	9400 u
50-32-8	Benzo(a)pyrene	9400 u
193-39-5	Indeno(1,2,3-cd)Pyrene	9400 u
53-70-3	Dibenz(a,h)Anthracene	9400 u
191-24-2	Benzo(g,h,i)Perylene	9400 u

(1)-Cannot be separated from diphenylamine

5-12-86

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF775

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: Low Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 4/25/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 5/20/86

Continuous Liquid-Liquid Extraction [ ] Yes [X] No

Conc/Dil Factor 5

Percent Moisture(decanted) 77.9

CAS Number		(ug/kg)
319-84-6	alpha-BHC	75 u
319-85-7	beta-BHC	75 u
319-86-8	delta-BHC	75 u
58-89-9	gamma-BHC (Lindane)	75 u
76-44-8	Heptachlor	75 u
309-00-2	Aldrin	75 u
1024-57-3	Heptachlor Epoxide	75 u
959-98-8	Endosulfan I	75 u
60-57-1	Dieldrin	150 u
72-55-9	4,4'-DDE	150 u
72-20-8	Endrin	150 u
33213-65-	Endosulfan II	150 u
72-54-8	4,4'-DDD	150 u
1031-07-8	Endosulfan Sulfate	150 u
50-29-3	4,4'-DDT	150 u
72-43-5	Methoxychlor	150 u
53494-70-	Endrin Ketone	150 u
57-74-9	Chlordane	150 u
8001-35-2	Toxaphene	1500 u
12674-11-	Aroclor-1016	750 u
11104-28-	Aroclor-1221	750 u
11141-16-	Aroclor-1232	750 u
53469-21-	Aroclor-1242	750 u
12672-29-	Aroclor-1248	750 u
11097-69-	Aroclor-1254	1500 u
11096-82-	Aroclor-1260	1500 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs _____ or Ws 30.08 Vt 100000 Vi 2.00

U.S. ENVIRONMENTAL PROTECTION AGENCY, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 — 703/557-7491 CFTS 557-7491

ORGANICS TRAFFIC REPORT

Sample Number
BF 776

① Case Number: 5846

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

/ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

/ Water
/ Soil/Sediment

④ Ship To: VERSAR, INC.

Attn:

Transfer
Ship To:

⑤ Regional Office: II

Sampling Personnel: R Adkison (Name)

(201) 225-6160 (Phone)

Sampling Date: 4/15/86 (Begin) 4/15/86 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)		
Water (VOA)		
Soil/Sediment (Extractable)	1	8 oz.
Soil/Sediment (VOA)	1	120 ml
Soil/Sed Other ~~Soil/Sed~~	1	8 oz.

⑪ Analysis Lab:
Rec'd by: Tracy Fabel
Date Rec'd: 4-18-86
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)

2 days late

Shipping Information

Federal
Name of Carrier

4/15/86
Date Shipped:

15314564
Airbill Number:

⑧ Sample Description

___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
/ Solids
___ Other (specify) _____

⑨ Sample Location

NJY5 S10S

⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature)

Matches inorganic TR MBF667

000515

LAB COPY FOR RETURN TO SMO

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
BF776

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: 2259
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: 4/18/86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4/18/86
Date Analyzed: 4/18/86
Conc/Dil Factor: 1 pH
Percent Moisture: 42.1

CAS Number		ug/Kg
74-87-3	Chloromethane	17 u
74-83-9	Bromomethane	17 u
75-01-4	Vinyl Chloride	17 u
75-00-3	Chloroethane	17 u
75-09-2	Methylene Chloride	6 J
67-64-1	Acetone	~~8 J,B~~
75-15-0	Carbon Disulfide	9 u
75-35-4	1,1-Dichloroethene	9 u
75-34-3	1,1-Dichloroethane	9 u
156-60-5	Trans-1,2-Dichloroethene	9 u
67-66-3	Chloroform	1 J
107-06-2	1,2-Dichloroethane	9 u
78-93-3	2-butanone	17 u
71-55-6	1,1,1-Trichloroethane	9 u
56-23-5	Carbon Tetrachloride	9 u
108-05-4	Vinyl Acetate	17 u
75-27-4	Bromodichloromethane	9 u

CAS Number		ug/Kg
78-87-5	1,2-Dichloropropane	9 u
10061-02-6	Trans-1,3-Dichloropropene	9 u
79-01-6	Trichloroethene	9 u
124-48-1	Dibromochloromethane	9 u
79-00-5	1,1,2-Trichloroethane	9 u
71-43-2	Benzene	9 u
10061-01-5	cis-1,3-Dichloropropene	9 u
110-75-8	2-chloroethylvinylether	17 u
75-25-2	Bromoform	9 u
108-10-1	4-Methyl-2-Pentanone	17 u
591-78-6	2-Hexanone	17 u
127-18-4	Tetrachloroethene	9 u
79-34-5	1,1,2,2-Tetrachloroethane	9 u
108-88-3	Toluene	9 u
108-90-7	Chlorobenzene	9 u
100-41-4	Ethylbenzene	9 u
100-42-5	Styrene	9 u
	Total Xylenes	9 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

Form I

DC 5/15/86

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BF776

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4/25/86

Date Analyzed: 5/8/86

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-Liquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	720 u
111-44-4	bis(2-Chloroethyl)Ether	720 u
95-57-8	2-Chlorophenol	720 u
541-73-1	1,3-Dichlorobenzene	720 u
106-46-7	1,4-Dichlorobenzene	720 u
100-51-6	Benzyl Alcohol	720 u
95-50-1	1,2-Dichlorobenzene	720 u
95-48-7	2-Methylphenol	720 u
39638-32-9	bis(2-chloroisopropyl)ether	720 u
106-44-5	4-methylphenol	720 u
621-64-7	N-Nitroso-Di-n-propylamine	720 u
67-72-1	Hexachloroethane	720 u
98-95-3	Nitrobenzene	720 u
78-59-1	Isophorone	720 u
88-75-5	2-Nitrophenol	720 u
105-67-9	2,4-dimethylphenol	720 u
65-85-0	Benzoic Acid	3600 u
111-91-1	bis(2-chloroethoxy)methane	720 u
120-83-2	2,4-dichlorophenol	720 u
120-82-1	1,2,4-trichlorobenzene	720 u
91-20-3	Naphthalene	720 u
106-47-8	4-Chloroaniline	720 u
87-68-3	Hexachlorobutadiene	720 u
59-50-7	4-chloro-3-methylphenol	720 u
91-57-6	2-methylnaphthalene	720 u
77-47-4	Hexachlorocyclopentadiene	720 u
88-06-2	2,4,6-Trichlorophenol	720 u
95-95-4	2,4,5-Trichlorophenol	3600 u
91-58-7	2-Chloronaphthalene	720 u
88-74-4	2-Nitroaniline	3600 u
131-11-3	Dimethyl Phthalate	720 u
208-96-8	Acenaphthylene	720 u
99-09-2	3-Nitroaniline	3600 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	720 u
51-28-5	2,4-Dinitrophenol	3600 u
100-02-7	4-Nitrophenol	3600 u
132-64-9	Dibenzofuran	720 u
121-14-2	2,4-Dinitrotoluene	720 u
606-20-2	2,6-Dinitrotoluene	720 u
84-66-2	Diethylphthalate	720 u
7005-22-3	4-Chlorophenyl-phenylether	720 u
86-73-7	Fluorene	720 u
100-01-6	4-Nitroaniline	3600 u
534-52-1	4,6-dinitro-2-methylphenol	3600 u
86-30-6	N-Nitrosodiphenylamine (1)	720 u
101-55-3	4-Bromophenyl-phenylether	720 u
118-74-1	Hexachlorobenzene	720 u
87-86-5	Pentachlorophenol	3600 u
85-01-8	Phenanthrene	720 u
120-12-7	Anthracene	720 u
84-74-2	Di-n-butylphthalate	~~120 J,B~~
206-44-0	Fluoranthene	720 u
129-00-0	Pyrene	720 u
85-68-7	Butylbenzylphthalate	5100
91-94-1	3,3'-Dichlorobenzidine	1440 u
56-55-3	Benzo(a)anthracene	720 u
117-81-7	bis(2-Ethylhexyl)Phthalate	3500
218-01-9	Chrysene	720 u
117-84-0	Di-n-Octylphthalate	3250
205-99-2	Benzo(b)Fluoranthene	720 u
207-08-9	Benzo(k)Fluoranthene	720 u
50-32-8	Benzo(a)pyrene	400 J
193-39-5	Indeno(1,2,3-cd)Pyrene	720 u
53-70-3	Dibenz(a,h)Anthracene	720 u
191-24-2	Benzo(g,h,i)Perylene	720 u

(1)-Cannot be separated from diphenylamine

DC 5-12-80

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF776

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: [Low] Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 4/25/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 5/7/86

Continuous Liquid-Liquid Extraction [ ] Yes [X] No

Conc/Dil Factor 1

Percent Moisture(decanted) 42.1

CAS Number		(ug/kg)
319-84-6	alpha-BHC	5.7 u
319-85-7	beta-BHC	5.7 u
319-86-8	delta-BHC	5.7 u
58-89-9	gamma-BHC (Lindane)	5.7 u
76-44-8	Heptachlor	5.7 u
309-00-2	Aldrin	5.7 u
1024-57-3	Heptachlor Epoxide	5.7 u
959-98-8	Endosulfan I	5.7 u
60-57-1	Dieldrin	11 u
72-55-9	4,4'-DDE	11 u
72-20-8	Endrin	11 u
33213-65-	Endosulfan II	11 u
72-54-8	4,4'-DDD	11 u
1031-07-8	Endosulfan Sulfate	11 u
50-29-3	4,4'-DDT	11 u
72-43-5	Methoxychlor	11 u
53494-70-	Endrin Ketone	11 u
57-74-9	Chlordane	11 u
8001-35-2	Toxaphene	110 u
12674-11-	Aroclor-1016	57 u
11104-28-	Aroclor-1221	57 u
11141-16-	Aroclor-1232	57 u
53469-21-	Aroclor-1242	57 u
12672-29-	Aroclor-1248	57 u
11097-69-	Aroclor-1254	110 u
11096-82-	Aroclor-1260	110 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs _____ or Ws 30.15 Vt 20000 Vi 2.00

U.S. ENVIRONMENTAL PROTECTION AGENCY/HWI Sample Management Office
P.O. Box 818 Alexandria, Virginia 22313 703/557-2490 FTS 557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BF 777

① Case Number: 5846

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
/ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
___ Water
/ Soil/Sediment

④ Ship To: Versar, Inc.

Attn:

Transfer
Ship To:

⑤ Regional Office: 7

Sampling Personnel:
R. Adkison (Name)
(201) 225-6160 (Phone)

Sampling Date: 4/15/86 (Begin) 4/15/86 (End)

Shipping Information
Federal
Name of Carrier
4/15/86
Date Shipped:
15314564
Airbill Number:

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	⑪ Analysis Lab: Rec'd by: Tracy Fabel; Date Rec'd: 4-18-86; Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)			2 days late
Water (VOA)			
Soil/Sediment (Extractable)	1	8 oz.	
Soil/Sediment (VOA)	1	120ml	
Soil/Sed Other 2,4/PB	1	8 oz.	

⑧ Sample Description
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
/ Solids
___ Other (specify) _____

⑨ Sample Location
NJY5504

⑩ Special Handling Instructions: Matches inorganic TR MBF670
(e.g., safety precautions, hazardous nature)

000618

LAB COPY FOR RETURN TO SMO

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
BF777

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: 2260
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: 4/18/86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4/18/86
Date Analyzed: 4/18/86
Conc/Dil Factor: 1 pH
Percent Moisture: 44.9

CAS Number		ug/Kg
74-87-3	Chloromethane	18 u
74-83-9	Bromomethane	18 u
75-01-4	Vinyl Chloride	18 u
75-00-3	Chloroethane	18 u
75-09-2	Methylene Chloride	~~22 B~~
67-64-1	Acetone	18 u
75-15-0	Carbon Disulfide	9 u
75-35-4	1,1-Dichloroethene	9 u
75-34-3	1,1-Dichloroethane	9 u
156-60-5	Trans-1,2-Dichloroethene	9 u
67-66-3	Chloroform	9 u
107-06-2	1,2-Dichloroethane	9 u
78-93-3	2-butanone	18 u
71-55-6	1,1,1-Trichloroethane	9 u
56-23-5	Carbon Tetrachloride	9 u
108-05-4	Vinyl Acetate	u ?
75-27-4	Bromodichloromethane	9 u

CAS Number		ug/Kg
78-87-5	1,2-Dichloropropane	9 u
10061-02-6	Trans-1,3-Dichloropropene	9 u
79-01-6	Trichloroethene	9 u
124-48-1	Dibromochloromethane	9 u
79-00-5	1,1,2-Trichloroethane	9 u
71-43-2	Benzene	9 u
10061-01-5	cis-1,3-Dichloropropene	9 u
110-75-8	2-chloroethylvinylether	18 u
75-25-2	Bromoform	9 u
108-10-1	4-Methyl-2-Pentanone	18 u
591-78-6	2-Hexanone	18 u
127-18-4	Tetrachloroethene	9 u
79-34-5	1,1,2,2-Tetrachloroethane	9 u
108-88-3	Toluene	9 u
108-90-7	Chlorobenzene	9 u
100-41-4	Ethylbenzene	9 u
100-42-5	Styrene	9 u
	Total Xylenes	9 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

Form I

DC 5/15/86

000619

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BF777

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: MID

Date Extracted/Prepared: 4-25-86 ~~5/1/86~~ AEP

Date Analyzed: 5/6/86

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-Liquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	34000 u
111-44-4	bis(2-Chloroethyl)Ether	34000 u
95-57-8	2-Chlorophenol	34000 u
541-73-1	1,3-Dichlorobenzene	34000 u
106-46-7	1,4-Dichlorobenzene	34000 u
100-51-6	Benzyl Alcohol	34000 u
95-50-1	1,2-Dichlorobenzene	34000 u
95-48-7	2-Methylphenol	34000 u
39638-32-9	bis(2-chloroisopropyl)ether	34000 u
106-44-5	4-methylphenol	34000 u
621-64-7	N-Nitroso-Di-n-propylamine	34000 u
67-72-1	Hexachloroethane	34000 u
98-95-3	Nitrobenzene	34000 u
78-59-1	Isophorone	34000 u
88-75-5	2-Nitrophenol	34000 u
105-67-9	2,4-dimethylphenol	34000 u
65-85-0	Benzoic Acid	168000 u
111-91-1	bis(2-chloroethoxy)methane	34000 u
120-83-2	2,4-dichlorophenol	34000 u
120-82-1	1,2,4-trichlorobenzene	34000 u
91-20-3	Naphthalene	34000 u
106-47-8	4-Chloroaniline	34000 u
87-68-3	Hexachlorobutadiene	34000 u
59-50-7	4-chloro-3-methylphenol	34000 u
91-57-6	2-methylnaphthalene	34000 u
77-47-4	Hexachlorocyclopentadiene	34000 u
88-06-2	2,4,6-Trichlorophenol	34000 u
95-95-4	2,4,5-Trichlorophenol	168000 u
91-58-7	2-Chloronaphthalene	34000 u
88-74-4	2-Nitroaniline	168000 u
131-11-3	Dimethyl Phthalate	34000 u
208-96-8	Acenaphthylene	34000 u
99-09-2	3-Nitroaniline	168000 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	34000 u
51-28-5	2,4-Dinitrophenol	168000 u
100-02-7	4-Nitrophenol	168000 u
132-64-9	Dibenzofuran	34000 u
121-14-2	2,4-Dinitrotoluene	34000 u
606-20-2	2,6-Dinitrotoluene	34000 u
84-66-2	Diethylphthalate	34000 u
7005-22-3	4-Chlorophenyl-phenylether	34000 u
86-73-7	Fluorene	34000 u
100-01-6	4-Nitroaniline	168000 u
534-52-1	4,6-dinitro-2-methylphenol	168000 u
86-30-6	N-Nitrosodiphenylamine (1)	34000 u
101-55-3	4-Bromophenyl-phenylether	34000 u
118-74-1	Hexachlorobenzene	34000 u
87-86-5	Pentachlorophenol	168000 u
85-01-8	Phenanthrene	34000 u
120-12-7	Anthracene	34000 u
84-74-2	Di-n-butylphthalate	34000 u
206-44-0	Fluoranthene	34000 u
129-00-0	Pyrene	34000 u
85-68-7	Butylbenzylphthalate	16100 J
91-94-1	3,3'-Dichlorobenzidine	68000 u
56-55-3	Benzo(a)anthracene	34000 u
117-81-7	bis(2-Ethylhexyl)Phthalate	238000
218-01-9	Chrysene	34000 u
117-84-0	Di-n-Octylphthalate	10500 J
205-99-2	Benzo(b)Fluoranthene	34000 u
207-08-9	Benzo(k)Fluoranthene	34000 u
50-32-8	Benzo(a)pyrene	34000 u
193-39-5	Indeno(1,2,3-cd)Pyrene	34000 u
53-70-3	Dibenz(a,h)Anthracene	34000 u
191-24-2	Benzo(g,h,i)Perylene	34000 u

(1)-Cannot be separated from diphenylamine

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF777

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: Low Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 4/25/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 5/20/86

Continuous Liquid-Liquid Extraction [ ] Yes [X] No

Conc/Dil Factor 10

Percent Moisture(decanted) 44.9

CAS Number		(ug/kg)
319-84-6	alpha-BHC	60 u
319-85-7	beta-BHC	60 u
319-86-8	delta-BHC	60 u
58-89-9	gamma-BHC (Lindane)	60 u
76-44-8	Heptachlor	60 u
309-00-2	Aldrin	60 u
1024-57-3	Heptachlor Epoxide	60 u
959-98-8	Endosulfan I	60 u
60-57-1	Dieldrin	120 u
72-55-9	4,4'-DDE	120 u
72-20-8	Endrin	120 u
33213-65-	Endosulfan II	120 u
72-54-8	4,4'-DDD	120 u
1031-07-8	Endosulfan Sulfate	120 u
50-29-3	4,4'-DDT	120 u
72-43-5	Methoxychlor	120 u
53494-70-	Endrin Ketone	120 u
57-74-9	Chlordane	120 u
8001-35-2	Toxaphene	1200 u
12674-11-	Aroclor-1016	600 u
11104-28-	Aroclor-1221	600 u
11141-16-	Aroclor-1232	600 u
53469-21-	Aroclor-1242	600 u
12672-29-	Aroclor-1248	600 u
11097-69-	Aroclor-1254	1200 u
11096-82-	Aroclor-1260	1200 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs _____ or Ws 30.42 Vt 200000 Vi 2.00

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490 FTS/557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BF 778

Case Number: 5546

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
/ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
/ Water
/ Soil/Sediment

④ Ship To: Versar, Inc.

Attn:

Transfer
Ship To:

⑤ Regional Office: II

Sampling Personnel:
R. Adkisson (Name)
(201) 225-6160 (Phone)

Sampling Date: 4/15/86 (Begin) 4/15/86 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)		
Water (VOA)		
Soil/Sediment (Extractable)	1	8 oz.
Soil/Sediment (VOA)	1	120 ml
Soil/Sed Other: Jar/Orp	1	8 oz.

⑪ Analysis Lab:
Rec'd by: Tracy Fabel
Date Rec'd: 4-18-86
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
2 days late

⑦ Shipping Information

Federal
Name of Carrier

4/15/86
Date Shipped:

153141564
Airbill Number:

⑧ Sample Description

___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
/ Solids
___ Other (specify) _____

⑨ Sample Location

NJY5505

Special Handling Instructions:
(e.g., safety precautions, hazardous nature)
Matches Inorganic TR 1845?

000681

LAB COPY FOR RETURN TO SMO

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
3F778

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: 2261
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 5346
QC Report No: 5346
Contract No: 68-01-7085
Date Sample Received: 4/18/86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4/18/86
Date Analyzed: 4/18/86
Conc/Dil Factor: 1 pH
Percent Moisture: 53

CAS Number		ug/Kg
74-87-3	Chloromethane	21 u
74-83-9	Bromomethane	21 u
75-01-4	Vinyl Chloride	21 u
75-00-3	Chloroethane	21 u
75-09-2	Methylene Chloride	6 J
67-64-1	Acetone	21 u
75-15-0	Carbon Disulfide	11 u
75-35-4	1,1-Dichloroethene	11 u
75-34-3	1,1-Dichloroethane	11 u
156-60-5	Trans-1,2-Dichloroethene	11 u
67-66-3	Chloroform	11 u
107-06-2	1,2-Dichloroethane	11 u
78-93-3	2-butanone	21 u
71-55-6	1,1,1-Trichloroethane	11 u
56-23-5	Carbon Tetrachloride	11 u
108-05-4	Vinyl Acetate	11 u
75-27-4	Bromodichloromethane	11 u

CAS Number		ug/Kg
78-87-5	1,2-Dichloropropane	11 u
10061-02-6	Trans-1,3-Dichloropropene	11 u
79-01-6	Trichloroethene	11 u
124-48-1	Dibromochloromethane	11 u
79-00-5	1,1,2-Trichloroethane	11 u
71-43-2	Benzene	11 u
10061-01-5	cis-1,3-Dichloropropene	11 u
110-75-8	2-chloroethylvinylether	21 u
75-25-2	Bromoform	11 u
108-10-1	4-Methyl-2-Pentanone	21 u
591-78-6	2-Hexanone	21 u
127-18-4	Tetrachloroethene	11 u
79-34-5	1,1,2,2-Tetrachloroethane	11 u
108-88-3	Toluene	11 u
108-90-7	Chlorobenzene	11 u
100-41-4	Ethylbenzene	11 u
100-42-5	Styrene	11 u
	Total Xylenes	11 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

Form I

000682

DC 5/15/86

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BF[illegible]3

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4/25/86

Date Analyzed: 5/6/86

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-LIquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	880 u
111-44-4	bis(2-Chloroethyl)Ether	880 u
95-57-8	2-Chlorophenol	880 u
541-73-1	1,3-Dichlorobenzene	880 u
106-46-7	1,4-Dichlorobenzene	880 u
100-51-6	Benzyl Alcohol	880 u
95-50-1	1,2-Dichlorobenzene	880 u
95-48-7	2-Methylphenol	880 u
39638-32-9	bis(2-chloroisopropyl)ether	880 u
106-44-5	4-methylphenol	880 u
621-64-7	N-Nitroso-Di-n-propylamine	880 u
67-72-1	Hexachloroethane	880 u
98-95-3	Nitrobenzene	880 u
78-59-1	Isophorone	880 u
88-75-5	2-Nitrophenol	880 u
105-67-9	2,4-dimethylphenol	880 u
65-85-0	Benzoic Acid	4400 u
111-91-1	bis(2-chloroethoxy)methane	880 u
120-83-2	2,4-dichlorophenol	880 u
120-82-1	1,2,4-trichlorobenzene	880 u
91-20-3	Naphthalene	880 u
106-47-8	4-Chloroaniline	880 u
87-68-3	Hexachlorobutadiene	880 u
59-50-7	4-chloro-3-methylphenol	880 u
91-57-6	2-methylnaphthalene	880 u
77-47-4	Hexachlorocyclopentadiene	880 u
88-06-2	2,4,6-Trichlorophenol	880 u
95-95-4	2,4,5-Trichlorophenol	4400 u
91-58-7	2-Chloronaphthalene	880 u
88-74-4	2-Nitroaniline	4400 u
131-11-3	Dimethyl Phthalate	880 u
208-96-8	Acenaphthylene	880 u
99-09-2	3-Nitroaniline	4400 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	880 u
51-28-5	2,4-Dinitrophenol	4400 u
100-02-7	4-Nitrophenol	4400 u
132-64-9	Dibenzofuran	880 u
121-14-2	2,4-Dinitrotoluene	880 u
606-20-2	2,6-Dinitrotoluene	880 u
84-66-2	Diethylphthalate	880 u
7005-22-3	4-Chlorophenyl-phenylether	880 u
86-73-7	Fluorene	880 u
100-01-6	4-Nitroaniline	4400 u
534-52-1	4,6-dinitro-2-methylphenol	4400 u
86-30-6	N-Nitrosodiphenylamine (1)	880 u
101-55-3	4-Bromophenyl-phenylether	880 u
118-74-1	Hexachlorobenzene	880 u
87-86-5	Pentachlorophenol	4400 u
85-01-8	Phenanthrene	880 u
120-12-7	Anthracene	880 u
84-74-2	Di-n-butylphthalate	~~[illegible]~~
206-44-0	Fluoranthene	880 u
129-00-0	Pyrene	880 u
85-68-7	Butylbenzylphthalate	880 u
91-94-1	3,3'-Dichlorobenzidine	1740 u
56-55-3	Benzo(a)anthracene	880 u
117-81-7	bis(2-Ethylhexyl)Phthalate	360 J
218-01-9	Chrysene	880 u
117-84-0	Di-n-Octylphthalate	880 u
205-99-2	Benzo(b)Fluoranthene	880 u
207-08-9	Benzo(k)Fluoranthene	880 u
50-32-8	Benzo(a)pyrene	880 u
193-39-5	Indeno(1,2,3-cd)Pyrene	880 u
53-70-3	Dibenz(a,h)Anthracene	880 u
191-24-2	Benzo(g,h,i)Perylene	880 u

(1)-Cannot be separated from diphenylamine

DC
5-12-86

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF778

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: Low Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 4/25/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 5/20/86

Continuous Liquid-Liquid Extraction [ ] Yes [X] No

Conc/Dil Factor 1

Percent Moisture(decanted) 53.0

CAS Number		(ug/kg)
319-84-6	alpha-BHC	7.0 u
319-85-7	beta-BHC	7.0 u
319-86-8	delta-BHC	7.0 u
58-89-9	gamma-BHC (Lindane)	7.0 u
76-44-8	Heptachlor	7.0 u
309-00-2	Aldrin	7.0 u
1024-57-3	Heptachlor Epoxide	7.0 u
959-98-8	Endosulfan I	7.0 u
60-57-1	Dieldrin	14 u
72-55-9	4,4'-DDE	14 u
72-20-8	Endrin	14 u
33213-65-	Endosulfan II	14 u
72-54-8	4,4'-DDD	~~14 u~~ 23.4 ug/kg EPV
1031-07-8	Endosulfan Sulfate	14 u
50-29-3	4,4'-DDT	14 u
72-43-5	Methoxychlor	14 u
53494-70-	Endrin Ketone	14 u
57-74-9	Chlordane	14 u
8001-35-2	Toxaphene	140 u
12674-11-	Aroclor-1016	70 u
11104-28-	Aroclor-1221	70 u
11141-16-	Aroclor-1232	70 u
53469-21-	Aroclor-1242	70 u
12672-29-	Aroclor-1248	70 u
11097-69-	Aroclor-1254	140 u
11096-82-	Aroclor-1260	140 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs _____ or Ws 30.45 Vt 20000 Vi 2.00

U.S. ENVIRONMENTAL PROTECTION AGENCY HWS Sample Management Office
P.O. Box 818 Alexandria, Virginia 22313 703/557-2490 FTS/557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BF 779

① Case Number: 5846

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
/ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
/ Water
/ Soil/Sediment

④ Ship To: Versar, Inc.

Attn:

Transfer
Ship To:

⑤ Regional Office: II

Sampling Personnel: R. Adkisson (Name)
(201) 225-4660 (Phone)

Sampling Date: 4/15/86 (Begin) 4/15/86 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	
Water (Extractable)			2 days late
Water (VOA)			
Soil/Sediment (Extractable)	1	8 oz	
Soil/Sediment (VOA)	1	120 ml	
Other: Soil/Sed 4/15/86	1	8 oz	

⑪ Analysis Lab:
Rec'd by: Tracy Fabel
Date Rec'd: 4-18-86
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)

Shipping Information

Federal
Name of Carrier

4/15/86
Date Shipped:

K31411564
Airbill Number:

⑧ Sample Description

___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
/ Solids
___ Other (specify) _____

⑨ Sample Location

NJ YSSR-6

⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature) Matches inorganic TR MBF672

000769

LAB COPY FOR RETURN TO SMO

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
9F779

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: 2262
Sample Matrix: SOIL
Data Release Authorized By: [illegible]

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: ~~4/17/86~~ 4/18/86
pm 5-29-86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4/18/86
Date Analyzed: 4/18/86
Conc/Dil Factor: 1 pH
Percent Moisture: 37.6

CAS Number		ug/Kg
74-87-3	Chloroethane	16 u
74-83-9	Bromomethane	16 u
75-01-4	Vinyl Chloride	16 u
75-00-3	Chloroethane	16 u
75-09-2	Methylene Chloride	5 J
67-64-1	Acetone	~~23 B~~
75-15-0	Carbon Disulfide	8 u
75-35-4	1,1-Dichloroethene	8 u
75-34-3	1,1-Dichloroethane	8 u
156-60-5	Trans-1,2-Dichloroethene	8 u
67-66-3	Chloroform	8 u
107-06-2	1,2-Dichloroethane	8 u
78-93-3	2-butanone	16 u
71-55-6	1,1,1-Trichloroethane	8 u
56-23-5	Carbon Tetrachloride	8 u
108-05-4	Vinyl Acetate	8 u
75-27-4	Bromodichloromethane	8 u

CAS Number		ug/Kg
78-87-5	1,2-Dichloropropane	8 u
10061-02-6	Trans-1,3-Dichloropropene	8 u
79-01-6	Trichloroethene	8 u
124-48-1	Dibromochloromethane	8 u
79-00-5	1,1,2-Trichloroethane	8 u
71-43-2	Benzene	8 u
10061-01-5	cis-1,3-Dichloropropene	8 u
110-75-8	2-chloroethylvinylether	16 u
75-25-2	Bromoform	8 u
108-10-1	4-Methyl-2-Pentanone	16 u
591-78-6	2-Hexanone	16 u
127-18-4	Tetrachloroethene	8 u
79-34-5	1,1,2,2-Tetrachloroethane	8 u
108-88-3	Toluene	3 J
108-90-7	Chlorobenzene	8 u
100-41-4	Ethylbenzene	8 u
100-42-5	Styrene	8 u
	Total Xylenes	8 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

Form I

DC 5/15/86

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BF779

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4/25/86

Date Analyzed: 5/6/86

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-LIquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	660 u
111-44-4	bis(2-Chloroethyl)Ether	660 u
95-57-8	2-Chlorophenol	660 u
541-73-1	1,3-Dichlorobenzene	660 u
106-46-7	1,4-Dichlorobenzene	660 u
100-51-6	Benzyl Alcohol	660 u
95-50-1	1,2-Dichlorobenzene	660 u
95-48-7	2-Methylphenol	660 u
39638-32-9	bis(2-chloroisopropyl)ether	660 u
106-44-5	4-methylphenol	660 u
621-64-7	N-Nitroso-Di-n-propylamine	660 u
67-72-1	Hexachloroethane	660 u
98-95-3	Nitrobenzene	660 u
78-59-1	Isophorone	660 u
88-75-5	2-Nitrophenol	660 u
105-67-9	2,4-dimethylphenol	660 u
65-85-0	Benzoic Acid	3400 u
111-91-1	bis(2-chloroethoxy)methane	660 u
120-83-2	2,4-dichlorophenol	660 u
120-82-1	1,2,4-trichlorobenzene	660 u
91-20-3	Naphthalene	660 u
106-47-8	4-Chloroaniline	660 u
87-68-3	Hexachlorobutadiene	660 u
59-50-7	4-chloro-3-methylphenol	660 u
91-57-6	2-methylnaphthalene	660 u
77-47-4	Hexachlorocyclopentadiene	660 u
88-06-2	2,4,6-Trichlorophenol	660 u
95-95-4	2,4,5-Trichlorophenol	3400 u
91-58-7	2-Chloronaphthalene	660 u
88-74-4	2-Nitroaniline	3400 u
131-11-3	Dimethyl Phthalate	660 u
208-96-8	Acenaphthylene	660 u
99-09-2	3-Nitroaniline	3400 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	660 u
51-28-5	2,4-Dinitrophenol	3400 u
100-02-7	4-Nitrophenol	3400 u
132-64-9	Dibenzofuran	660 u
121-14-2	2,4-Dinitrotoluene	660 u
606-20-2	2,6-Dinitrotoluene	660 u
84-66-2	Diethylphthalate	660 u
7005-22-3	4-Chlorophenyl-phenylether	660 u
86-73-7	Fluorene	660 u
100-01-6	4-Nitroaniline	3400 u
534-52-1	4,6-dinitro-2-methylphenol	3400 u
86-30-6	N-Nitrosodiphenylamine (1)	660 u
101-55-3	4-Bromophenyl-phenylether	660 u
118-74-1	Hexachlorobenzene	660 u
87-86-5	Pentachlorophenol	3400 u
85-01-8	Phenanthrene	630 J
120-12-7	Anthracene	660 u
84-74-2	Di-n-butylphthalate	~~87 J,B~~
206-44-0	Fluoranthene	1200
129-00-0	Pyrene	790
85-68-7	Butylbenzylphthalate	150 J
91-94-1	3,3'-Dichlorobenzidine	1320 u
56-55-3	Benzo(a)anthracene	450 J
117-81-7	bis(2-Ethylhexyl)Phthalate	480 J
218-01-9	Chrysene	620 J
117-84-0	Di-n-Octylphthalate	660 u
205-99-2	Benzo(b)Fluoranthene	660 u
207-08-9	Benzo(k)Fluoranthene	660 u
50-32-8	Benzo(a)pyrene	540 J
193-39-5	Indeno(1,2,3-cd)Pyrene	660 u
53-70-3	Dibenz(a,h)Anthracene	660 u
191-24-2	Benzo(g,h,i)Perylene	660 u

(1)-Cannot be separated from diphenylamine

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF779

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: |Low| Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 4/25/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 5/21/86

Continuous Liquid-Liquid Extraction [ ] Yes [X] No

Conc/Dil Factor 10

Percent Moisture(decanted) 37.6

CAS Number		(ug/kg)
319-84-6	alpha-BHC	53 u
319-85-7	beta-BHC	53 u
319-86-8	delta-BHC	53 u
58-89-9	gamma-BHC (Lindane)	53 u
76-44-8	Heptachlor	53 u
309-00-2	Aldrin	53 u
1024-57-3	Heptachlor Epoxide	53 u
959-98-8	Endosulfan I	53 u
60-57-1	Dieldrin	110 u
72-55-9	4,4'-DDE	110 u
72-20-8	Endrin	110 u
33213-65-	Endosulfan II	110 u
72-54-8	4,4'-DDD	110 u
1031-07-8	Endosulfan Sulfate	110 u
50-29-3	4,4'-DDT	110 u
72-43-5	Methoxychlor	110 u
53494-70-	Endrin Ketone	110 u
57-74-9	Chlordane	110 u
8001-35-2	Toxaphene	1100 u
12674-11-	Aroclor-1016	530 u
11104-28-	Aroclor-1221	530 u
11141-16-	Aroclor-1232	530 u
53469-21-	Aroclor-1242	530 u
12672-29-	Aroclor-1248	530 u
11097-69-	Aroclor-1254	1100 u
11096-82-	Aroclor-1260	1100 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs _____ or Ws 30.22 Vt 200000 Vi 2.00

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 - 703/557-2490 - FTS/557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BF 780

① Case Number: 5846

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
✓ Water
✓ Soil/Sediment

④ Ship To: Versar, Inc.

Attn:

Transfer
Ship To:

⑤ Regional Office: II

Sampling Personnel:
R. Adkison (Name)
(201) 225-6160 (Phone)

Sampling Date:
4/15/86 (Begin) 4/15/86 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)			
Water (VOA)			
Soil/Sediment (Extractable)	1	8oz	OK except no tags
Soil/Sediment (VOA)	1	120ml	
Other Soil/Sed 1/2	1	8oz.	

⑦ Shipping Information

Fed Ex
Name of Carrier

4/15/86
Date Shipped:

153141564
Airbill Number:

⑪ Analysis Lab:
Rec'd by: [illegible]
Date Rec'd: 4/16/86

⑧ Sample Description
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
✓ Solids
___ Other (specify) _____

⑨ Sample Location
NJ151

⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature) Matrix Inorganic TR MDF 673

000890

LAB COPY FOR RETURN TO SMO

Versar Inc. Laboratory Operations
1330 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
87730

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: 2090C
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: 4-16-86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4-16-86
Date Analyzed: 4-16-86
Conc/Dil Factor: 1 pH
Percent Moisture: 25.7

CAS Number		ug/Kg
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	7 u
67-64-1	Acetone	13 u
75-15-0	Carbon Disulfide	7 u
75-35-4	1,1-Dichloroethene	7 u
75-34-3	1,1-Dichloroethane	7 u
156-60-5	Trans-1,2-Dichloroethene	7 u
67-66-3	Chloroform	7 u
107-06-2	1,2-Dichloroethane	7 u
78-93-3	2-butanone	13 u
71-55-6	1,1,1-Trichloroethane	7 u
56-23-5	Carbon Tetrachloride	7 u
108-05-4	Vinyl Acetate	13 u
75-27-4	Bromodichloromethane	7 u

CAS Number		ug/Kg
78-87-5	1,2-Dichloropropane	7 u
10061-02-6	Trans-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
10061-01-5	cis-1,3-Dichloropropene	7 u
110-75-8	2-chloroethylvinylether	13 u
75-25-2	Bromoform	7 u
108-10-1	4-Methyl-2-Pentanone	13 u
591-78-6	2-Hexanone	13 u
127-18-4	Tetrachloroethene	7 u
79-34-5	1,1,2,2-Tetrachloroethane	7 u
108-88-3	Toluene	132
108-90-7	Chlorobenzene	7 u
100-41-4	Ethylbenzene	7 u
100-42-5	Styrene	7 u
	Total Xylenes	7 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BF780

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4/25/86

Date Analyzed: 5/8/86

Conc/Dil Factor: 5

GPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-Liquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	2800 u
111-44-4	bis(2-Chloroethyl)Ether	2800 u
95-57-8	2-Chlorophenol	2800 u
541-73-1	1,3-Dichlorobenzene	2800 u
106-46-7	1,4-Dichlorobenzene	2800 u
100-51-6	Benzyl Alcohol	2800 u
95-50-1	1,2-Dichlorobenzene	2800 u
95-48-7	2-Methylphenol	2800 u
39638-32-9	bis(2-chloroisopropyl)ether	2800 u
106-44-5	4-methylphenol	2800 u
621-64-7	N-Nitroso-Di-n-propylamine	2800 u
67-72-1	Hexachloroethane	2800 u
98-95-3	Nitrobenzene	2800 u
78-59-1	Isophorone	2800 u
88-75-5	2-Nitrophenol	2800 u
105-67-9	2,4-dimethylphenol	2800 u
65-85-0	Benzoic Acid	14000 u
111-91-1	bis(2-chloroethoxy)methane	2800 u
120-83-2	2,4-dichlorophenol	2800 u
120-82-1	1,2,4-trichlorobenzene	2800 u
91-20-3	Naphthalene	2800 u
106-47-8	4-Chloroaniline	2800 u
87-68-3	Hexachlorobutadiene	2800 u
59-50-7	4-chloro-3-methylphenol	2800 u
91-57-6	2-methylnaphthalene	2800 u
77-47-4	Hexachlorocyclopentadiene	2800 u
88-06-2	2,4,6-Trichlorophenol	2800 u
95-95-4	2,4,5-Trichlorophenol	14000 u
91-58-7	2-Chloronaphthalene	2800 u
88-74-4	2-Nitroaniline	14000 u
131-11-3	Dimethyl Phthalate	2800 u
208-96-8	Acenaphthylene	2800 u
99-09-2	3-Nitroaniline	14000 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	2800 u
51-28-5	2,4-Dinitrophenol	14000 u
100-02-7	4-Nitrophenol	14000 u
132-64-9	Dibenzofuran	2800 u
121-14-2	2,4-Dinitrotoluene	2800 u
606-20-2	2,6-Dinitrotoluene	2800 u
84-66-2	Diethylphthalate	2800 u
7005-22-3	4-Chlorophenyl-phenylether	2800 u
86-73-7	Fluorene	2800 u
100-01-6	4-Nitroaniline	14000 u
534-52-1	4,6-dinitro-2-methylphenol	14000 u
86-30-6	N-Nitrosodiphenylamine (1)	2800 u
101-55-3	4-Bromophenyl-phenylether	2800 u
118-74-1	Hexachlorobenzene	2800 u
87-86-5	Pentachlorophenol	14000 u
85-01-8	Phenanthrene	2800 u
120-12-7	Anthracene	2800 u
84-74-2	Di-n-butylphthalate	2800 u
206-44-0	Fluoranthene	2800 u
129-00-0	Pyrene	560 J
85-68-7	Butylbenzylphthalate	150000
91-94-1	3,3'-Dichlorobenzidine	5600 u
56-55-3	Benzo(a)anthracene	2800 u
117-81-7	bis(2-Ethylhexyl)Phthalate	110000
218-01-9	Chrysene	1200 J
117-84-0	Di-n-Octylphthalate	2800 u
205-99-2	Benzo(b)Fluoranthene	2700 J
207-08-9	Benzo(k)Fluoranthene	2800 u
50-32-8	Benzo(a)pyrene	1100 J
193-39-5	Indeno(1,2,3-cd)Pyrene	2800 u
53-70-3	Dibenz(a,h)Anthracene	2800 u
191-24-2	Benzo(g,h,i)Perylene	2800 u

(1)-Cannot be separated from diphenylamine

DC
5-12-86

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF780

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: Low Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 4/25/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 5/21/86

Continuous Liquid-Liquid Extraction [ ] Yes [X] No

Conc/Dil Factor 10

Percent Moisture(decanted) 25.7

CAS Number		(ug/kg)
319-84-6	alpha-BHC	44 u
319-85-7	beta-BHC	44 u
319-86-8	delta-BHC	44 u
58-89-9	gamma-BHC (Lindane)	44 u
76-44-8	Heptachlor	44 u
309-00-2	Aldrin	44 u
1024-57-3	Heptachlor Epoxide	44 u
959-98-8	Endosulfan I	44 u
60-57-1	Dieldrin	89 u
72-55-9	4,4'-DDE	89 u
72-20-8	Endrin	89 u
33213-65-	Endosulfan II	89 u
72-54-8	4,4'-DDD	89 u
1031-07-8	Endosulfan Sulfate	89 u
50-29-3	4,4'-DDT	89 u
72-43-5	Methoxychlor	89 u
53494-70-	Endrin Ketone	89 u
57-74-9	Chlordane	89 u
8001-35-2	Toxaphene	890 u
12674-11-	Aroclor-1016	440 u
11104-28-	Aroclor-1221	440 u
11141-16-	Aroclor-1232	440 u
53469-21-	Aroclor-1242	440 u
12672-29-	Aroclor-1248	440 u
11097-69-	Aroclor-1254	890 u
11096-82-	Aroclor-1260	890 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs _____ or Ws 30.25 Vt 200000 Vi 2.00

P.O. Box 818 Alexandria, Virginia 22313 703/557-2491 CES 557-2491

ORGANICS TRAFFIC REPORT

Sample Number: BF 781

① Case Number: 5846

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

✓ Water
✓ Soil/Sediment

④ Ship To: VERSAR, INC.

Attn:

Transfer
Ship To:

⑤ Regional Office: 7

Sampling Personnel: R. Adkison (Name)

(301) 225-5160 (Phone)

Sampling Date: 4/15/86 (Begin) 4/15/86 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	⑪ Analysis Lab: Rec'd by: [illegible] Date Rec'd: 4/16/86 Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)			
Water (VOA)			
Soil/Sediment (Extractable)	1	8 oz.	OK
Soil/Sediment (VOA)	1	120 ml	except no tags
Soil/Sed Other Jar/Bag	1	8 oz.	✓

⑦ Shipping Information

Federal
Name of Carrier

4/15/86
Date Shipped:

15141564
Airbill Number:

⑧ Sample Description

___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
✓ Solids
___ Other (specify) _____

⑨ Sample Location

NTY5S2

⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature) Matches Inorganic TR MBF 574

LAB COPY FOR RETURN TO SMO

001011

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
SF781

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: 2091C
Sample Matrix: SOIL
Data Release Authorized By: JP

Case No: 5846
GC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: 4-16-86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4-16-86
Date Analyzed: 4-16-86
Conc/Dil Factor: 1 pH
Percent Moisture: 17.7

CAS Number		ug/Kg
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
156-60-5	Trans-1,2-Dichloroethene	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

CAS Number		ug/Kg
78-87-5	1,2-Dichloropropane	6 u
10061-02-6	Trans-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
10061-01-5	cis-1,3-Dichloropropene	6 u
110-75-8	2-chloroethylvinylether	12 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	44
108-90-7	Chlorobenzene	6 u
100-41-4	Ethylbenzene	6 u
100-42-5	Styrene	6 u
	Total Xylenes	6 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

Form I

JP

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BF781

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4/25/86

Date Analyzed: 5/6/86

Conc/Dil Factor: 5

GPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-Liquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	2600 u
111-44-4	bis(2-Chloroethyl)Ether	2600 u
95-57-8	2-Chlorophenol	2600 u
541-73-1	1,3-Dichlorobenzene	2600 u
106-46-7	1,4-Dichlorobenzene	2600 u
100-51-6	Benzyl Alcohol	2600 u
95-50-1	1,2-Dichlorobenzene	2600 u
95-48-7	2-Methylphenol	2600 u
39638-32-9	bis(2-chloroisopropyl)ether	2600 u
106-44-5	4-methylphenol	2600 u
621-64-7	N-Nitroso-Di-n-propylamine	2600 u
67-72-1	Hexachloroethane	2600 u
98-95-3	Nitrobenzene	2600 u
78-59-1	Isophorone	2600 u
88-75-5	2-Nitrophenol	2600 u
105-67-9	2,4-dimethylphenol	2600 u
65-85-0	Benzoic Acid	12600 u
111-91-1	bis(2-chloroethoxy)methane	2600 u
120-83-2	2,4-dichlorophenol	2600 u
120-82-1	1,2,4-trichlorobenzene	2600 u
91-20-3	Naphthalene	2600 u
106-47-8	4-Chloroaniline	2600 u
87-68-3	Hexachlorobutadiene	2600 u
59-50-7	4-chloro-3-methylphenol	2600 u
91-57-6	2-methylnaphthalene	2600 u
77-47-4	Hexachlorocyclopentadiene	2600 u
88-06-2	2,4,6-Trichlorophenol	2600 u
95-95-4	2,4,5-Trichlorophenol	12600 u
91-58-7	2-Chloronaphthalene	2600 u
88-74-4	2-Nitroaniline	12600 u
131-11-3	Dimethyl Phthalate	2600 u
208-96-8	Acenaphthylene	2600 u
99-09-2	3-Nitroaniline	12600 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	2600 u
51-28-5	2,4-Dinitrophenol	12600 u
100-02-7	4-Nitrophenol	12600 u
132-64-9	Dibenzofuran	2600 u
121-14-2	2,4-Dinitrotoluene	2600 u
606-20-2	2,6-Dinitrotoluene	2600 u
84-66-2	Diethylphthalate	2600 u
7005-22-3	4-Chlorophenyl-phenylether	2600 u
86-73-7	Fluorene	2600 u
100-01-6	4-Nitroaniline	12600 u
534-52-1	4,6-dinitro-2-methylphenol	12600 u
86-30-6	N-Nitrosodiphenylamine (1)	2600 u
101-55-3	4-Bromophenyl-phenylether	2600 u
118-74-1	Hexachlorobenzene	2600 u
87-86-5	Pentachlorophenol	12600 u
85-01-8	Phenanthrene	2600 u
120-12-7	Anthracene	2600 u
84-74-2	Di-n-butylphthalate	2600 u
206-44-0	Fluoranthene	2600 u
129-00-0	Pyrene	2600 u
85-68-7	Butylbenzylphthalate	2600 u
91-94-1	3,3'-Dichlorobenzidine	5000 u
56-55-3	Benzo(a)anthracene	2600 u
117-81-7	bis(2-Ethylhexyl)Phthalate	17000
218-01-9	Chrysene	2600 u
117-84-0	Di-n-Octylphthalate	2600 u
205-99-2	Benzo(b)Fluoranthene	2600 u
207-08-9	Benzo(k)Fluoranthene	2600 u
50-32-8	Benzo(a)pyrene	2600 u
193-39-5	Indeno(1,2,3-cd)Pyrene	2600 u
53-70-3	Dibenz(a,h)Anthracene	2600 u
191-24-2	Benzo(g,h,i)Perylene	2600 u

(1)-Cannot be separated from diphenylamine

DC
5-12-86

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF781

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: Low Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 4/25/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 5/21/86

Continuous Liquid-Liquid Extraction [ ] Yes [X] No

Conc/Dil Factor 5

Percent Moisture(decanted) 17.7

CAS Number		(ug/kg)
319-84-6	alpha-BHC	20 u
319-85-7	beta-BHC	100
319-86-8	delta-BHC	20 u
58-89-9	gamma-BHC (Lindane)	20 u
76-44-8	Heptachlor	36
309-00-2	Aldrin	20 u
1024-57-3	Heptachlor Epoxide	20 u
959-98-8	Endosulfan I	20 u
60-57-1	Dieldrin	40 u
72-55-9	4,4'-DDE	40 u
72-20-8	Endrin	40 u
33213-65-	Endosulfan II	40 u
72-54-8	4,4'-DDD	40 u
1031-07-8	Endosulfan Sulfate	40 u
50-29-3	4,4'-DDT	40 u
72-43-5	Methoxychlor	40 u
53494-70-	Endrin Ketone	40 u
57-74-9	Chlordane	40 u
8001-35-2	Toxaphene	400 u
12674-11-	Aroclor-1016	200 u
11104-28-	Aroclor-1221	200 u
11141-16-	Aroclor-1232	200 u
53469-21-	Aroclor-1242	200 u
12672-29-	Aroclor-1248	200 u
11097-69-	Aroclor-1254	400 u
11096-82-	Aroclor-1260	400 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs _____ or Ws 30.03 Vt 100000 Vi 2.00

001014

U.S. ENVIRONMENTAL PROTECTION AGENCY, EMSL Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 • 703/557-2490 • FTS/557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BF 782

① Case Number: 5846

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
✓ Water
✓ Soil/Sediment

④ Ship To: VERSAR, INC.

Attn:

Transfer
Ship To:

⑤ Regional Office: II

Sampling Personnel: R. Adkisson (Name)
(201) 225-6160 (Phone)

Sampling Date: 4/15/86 (Begin) 4/15/86 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)		
Water (VOA)		
Soil/Sediment (Extractable)	1	8 oz
Soil/Sediment (VOA)	1	120ml
Soil/Sed Other Part/Pes	1	8 oz

⑪ Analysis Lab:
Rec'd by: [illegible]
Date Rec'd: 4/16/86
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
OK ~~[illegible]~~

⑦ Shipping Information

Federal
Name of Carrier

4/15/86
Date Shipped:

15314564
Airbill Number:

⑧ Sample Description

___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
✓ Solids
___ Other (specify) _____

⑨ Sample Location

NJY583

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)
Matches inorganic TR MBF675

001107

LAB COPY FOR RETURN TO SMO

Versar Inc. Laboratory Operations
5850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
BF782

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: 2092
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: 4-16-86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4-17-86
Date Analyzed: 4-17-86
Conc/Dil Factor: 1 pH
Percent Moisture: 19.4

CAS Number		ug/Kg
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
156-60-5	Trans-1,2-Dichloroethene	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

CAS Number		ug/Kg
78-87-5	1,2-Dichloropropane	6 u
10061-02-6	Trans-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
10061-01-5	cis-1,3-Dichloropropene	6 u
110-75-8	2-chloroethylvinylether	12 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	14
108-90-7	Chlorobenzene	6 u
100-41-4	Ethylbenzene	6 u
100-42-5	Styrene	6 u
	Total Xylenes	6 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

JP

6850 Versar Center, Springfield VA 22151 703/750-3000

Case No: 5846

Sample Number
BF782

Concentration: LOW

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Date Extracted/Prepared: 4/25/86

Date Analyzed: 5/6/86

Conc/Dil Factor: 5

SPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-Liquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	2600 u
111-44-4	bis(2-Chloroethyl)Ether	2600 u
95-57-8	2-Chlorophenol	2600 u
541-73-1	1,3-Dichlorobenzene	2600 u
106-46-7	1,4-Dichlorobenzene	2600 u
100-51-6	Benzyl Alcohol	2600 u
95-50-1	1,2-Dichlorobenzene	2600 u
95-48-7	2-Methylphenol	2600 u
39638-32-9	bis(2-chloroisopropyl)ether	2600 u
106-44-5	4-methylphenol	2600 u
621-64-7	N-Nitroso-Di-n-propylamine	2600 u
67-72-1	Hexachloroethane	2600 u
98-95-3	Nitrobenzene	2600 u
78-59-1	Isophorone	2600 u
88-75-5	2-Nitrophenol	2600 u
105-67-9	2,4-dimethylphenol	2600 u
65-85-0	Benzoic Acid	12800 u
111-91-1	bis(2-chloroethoxy)methane	2600 u
120-83-2	2,4-dichlorophenol	2600 u
120-82-1	1,2,4-trichlorobenzene	2600 u
91-20-3	Naphthalene	2600 u
106-47-8	4-Chloroaniline	2600 u
87-68-3	Hexachlorobutadiene	2600 u
59-50-7	4-chloro-3-methylphenol	2600 u
91-57-6	2-methylnaphthalene	2600 u
77-47-4	Hexachlorocyclopentadiene	2600 u
88-06-2	2,4,6-Trichlorophenol	2600 u
95-95-4	2,4,5-Trichlorophenol	12800 u
91-58-7	2-Chloronaphthalene	2600 u
88-74-4	2-Nitroaniline	12800 u
131-11-3	Dimethyl Phthalate	2600 u
208-96-8	Acenaphthylene	2600 u
99-09-2	3-Nitroaniline	12800 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	2600 u
51-28-5	2,4-Dinitrophenol	12800 u
100-02-7	4-Nitrophenol	12800 u
132-64-9	Dibenzofuran	2600 u
121-14-2	2,4-Dinitrotoluene	2600 u
606-20-2	2,6-Dinitrotoluene	2600 u
84-66-2	Diethylphthalate	2600 u
7005-22-3	4-Chlorophenyl-phenylether	2600 u
86-73-7	Fluorene	350 J
100-01-6	4-Nitroaniline	12800 u
534-52-1	4,6-dinitro-2-methylphenol	12800 u
86-30-6	N-Nitrosodiphenylamine (1)	2600 u
101-55-3	4-Bromophenyl-phenylether	2600 u
118-74-1	Hexachlorobenzene	2600 u
87-86-5	Pentachlorophenol	12800 u
85-01-8	Phenanthrene	950 J
120-12-7	Anthracene	3300
84-74-2	Di-n-butylphthalate	2600 u
206-44-0	Fluoranthene	2600 u
129-00-0	Pyrene	650 J
85-68-7	Butylbenzylphthalate	2600 u
91-94-1	3,3'-Dichlorobenzidine	5200 u
56-55-3	Benzo(a)anthracene	2600 u
117-81-7	bis(2-Ethylhexyl)Phthalate	27000
218-01-9	Chrysene	2600 u
117-84-0	Di-n-Octylphthalate	2600 u
205-99-2	Benzo(b)Fluoranthene	2600 u
207-08-9	Benzo(k)Fluoranthene	2600 u
50-32-8	Benzo(a)pyrene	2600 u
193-39-5	Indeno(1,2,3-cd)Pyrene	2600 u
53-70-3	Dibenz(a,h)Anthracene	2600 u
191-24-2	Benzo(g,h,i)Perylene	2600 u

BNAF1:R032286

(1)-Cannot be separated from diphenylamine

Form I

DC
-12-86

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF782

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: Low Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 4/25/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 5/21/86

Continuous Liquid-Liquid Extraction [ ] Yes [X] No

Conc/Dil Factor 5

Percent Moisture(decanted) 19.4

CAS Number		(ug/kg)
319-84-6	alpha-BHC	21 u
319-85-7	beta-BHC	190
319-86-8	delta-BHC	21 u
58-89-9	gamma-BHC (Lindane)	21 u
76-44-8	Heptachlor	200
309-00-2	Aldrin	21 u
1024-57-3	Heptachlor Epoxide	21 u
959-98-8	Endosulfan I	21 u
60-57-1	Dieldrin	41 u
72-55-9	4,4'-DDE	41 u
72-20-8	Endrin	41 u
33213-65-	Endosulfan II	41 u
72-54-8	4,4'-DDD	41 u
1031-07-8	Endosulfan Sulfate	41 u
50-29-3	4,4'-DDT	41 u
72-43-5	Methoxychlor	41 u
53494-70-	Endrin Ketone	41 u
57-74-9	Chlordane	41 u
8001-35-2	Toxaphene	410 u
12674-11-	Aroclor-1016	210 u
11104-28-	Aroclor-1221	210 u
11141-16-	Aroclor-1232	210 u
53469-21-	Aroclor-1242	210 u
12672-29-	Aroclor-1248	210 u
11097-69-	Aroclor-1254	410 u
11096-82-	Aroclor-1260	410 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs _____ or Ws 30.09 Vt 100000 Vi 2.00

P.O. Box 818 Alexandria, Virginia 22313 703/557-2490 FTS 557-2490

Sample Number
BF 783

ORGANICS TRAFFIC REPORT

① Case Number: 5846

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
✓ Water
✓ Soil/Sediment

④ Ship To: Versar, INC.

Attn:

Transfer
Ship To:

⑤ Regional Office: II

Sampling Personnel: R. Adkisson (Name)

(201) 225-4160 (Phone)

Sampling Date: 4/15/86 (Begin) 4/15/86 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	⑪ Analysis Lab: Rec'd by: [illegible] Date Rec'd: 4/16/86 Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)			
Water (VOA)			
Soil/Sediment (Extractable)	1	8 oz	OK except no tags
Soil/Sediment (VOA)	1	120 ml	
Other Soil Red	1	8 oz	

Shipping Information

Federal
Name of Carrier

4/15/86
Date Shipped:

153141564
Airbill Number:

⑧ Sample Description

___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
✓ Solids
___ Other (specify) _____

⑨ Sample Location

NJYS 84

⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature) Matches inorganic TR MBF676

001208

LAB COPY FOR RETURN TO SMO

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
BF783

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: 2093
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7035
Date Sample Received: ~~4-11-86~~ 4-16-86
PM 5-30-86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4-17-86
Date Analyzed: 4-17-86
Conc/Dil Factor: 1 pH
Percent Moisture: 10.5

CAS Number		ug/Kg
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	4 J
75-15-0	Carbon Disulfide	6 u
75-35-4	1,1-Dichloroethene	6 u
75-34-3	1,1-Dichloroethane	6 u
156-60-5	Trans-1,2-Dichloroethene	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

CAS Number		ug/Kg
78-87-5	1,2-Dichloropropane	6 u
10061-02-6	Trans-1,3-Dichloropropene	6 u
79-01-6	Trichloroethene	5 u
124-48-1	Dibromochloromethane	6 u
79-00-5	1,1,2-Trichloroethane	6 u
71-43-2	Benzene	6 u
10061-01-5	cis-1,3-Dichloropropene	6 u
110-75-8	2-chloroethylvinylether	11 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	9
108-90-7	Chlorobenzene	6 u
100-41-4	Ethylbenzene	6 u
100-42-5	Styrene	6 u
	Total Xylenes	6 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

JP

Form I

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
BF783

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4/25/86

Date Analyzed: 5/6/86

Conc/Dil Factor: 1

GPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-Liquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	460 u
111-44-4	bis(2-Chloroethyl)Ether	460 u
95-57-8	2-Chlorophenol	460 u
541-73-1	1,3-Dichlorobenzene	460 u
106-46-7	1,4-Dichlorobenzene	460 u
100-51-6	Benzyl Alcohol	460 u
95-50-1	1,2-Dichlorobenzene	460 u
95-48-7	2-Methylphenol	460 u
39638-32-9	bis(2-chloroisopropyl)ether	460 u
106-44-5	4-methylphenol	460 u
621-64-7	N-Nitroso-Di-n-propylamine	460 u
67-72-1	Hexachloroethane	460 u
98-95-3	Nitrobenzene	460 u
78-59-1	Isophorone	460 u
88-75-5	2-Nitrophenol	460 u
105-67-9	2,4-dimethylphenol	460 u
65-85-0	Benzoic Acid	2400 u
111-91-1	bis(2-chloroethoxy)methane	460 u
120-83-2	2,4-dichlorophenol	460 u
120-82-1	1,2,4-trichlorobenzene	460 u
91-20-3	Naphthalene	460 u
106-47-8	4-Chloroaniline	460 u
87-68-3	Hexachlorobutadiene	460 u
59-50-7	4-chloro-3-methylphenol	460 u
91-57-6	2-methylnaphthalene	460 u
77-47-4	Hexachlorocyclopentadiene	460 u
88-06-2	2,4,6-Trichlorophenol	460 u
95-95-4	2,4,5-Trichlorophenol	2400 u
91-58-7	2-Chloronaphthalene	460 u
88-74-4	2-Nitroaniline	2400 u
131-11-3	Dimethyl Phthalate	460 u
208-96-8	Acenaphthylene	460 u
99-09-2	3-Nitroaniline	2400 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	460 u
51-28-5	2,4-Dinitrophenol	2400 u
100-02-7	4-Nitrophenol	2400 u
132-64-9	Dibenzofuran	460 u
121-14-2	2,4-Dinitrotoluene	460 u
606-20-2	2,6-Dinitrotoluene	460 u
84-66-2	Diethylphthalate	460 u
7005-22-3	4-Chlorophenyl-phenylether	460 u
86-73-7	Fluorene	460 u
100-01-6	4-Nitroaniline	2400 u
534-52-1	4,6-dinitro-2-methylphenol	2400 u
86-30-6	N-Nitrosodiphenylamine (1)	460 u
101-55-3	4-Bromophenyl-phenylether	460 u
118-74-1	Hexachlorobenzene	460 u
87-86-5	Pentachlorophenol	2400 u
85-01-8	Phenanthrene	460 u
120-12-7	Anthracene	460 u
84-74-2	Di-n-butylphthalate	460 u
206-44-0	Fluoranthene	460 u
129-00-0	Pyrene	460 u
85-68-7	Butylbenzylphthalate	460 u
91-94-1	3,3'-Dichlorobenzidine	920 u
56-55-3	Benzo(a)anthracene	460 u
117-81-7	bis(2-Ethylhexyl)Phthalate	460 u
218-01-9	Chrysene	460 u
117-84-0	Di-n-Octylphthalate	460 u
205-99-2	Benzo(b)Fluoranthene	460 u
207-08-9	Benzo(k)Fluoranthene	460 u
50-32-8	Benzo(a)pyrene	460 u
193-39-5	Indeno(1,2,3-cd)Pyrene	460 u
53-70-3	Dibenz(a,h)Anthracene	460 u
191-24-2	Benzo(g,h,i)Perylene	460 u

(1)-Cannot be separated from diphenylamine

DC
5-12-86

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF783

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: Low Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 4/25/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 5/8/86

Continuous Liquid-Liquid Extraction [ ] Yes [X] No

Conc/Dil Factor 1

Percent Moisture(decanted) 10.5

CAS Number		(ug/kg)
319-84-6	alpha-BHC	3.7 u
319-85-7	beta-BHC	3.7 u
319-86-8	delta-BHC	3.7 u
58-89-9	gamma-BHC (Lindane)	3.7 u
76-44-8	Heptachlor	3.7 u
309-00-2	Aldrin	3.7 u
1024-57-3	Heptachlor Epoxide	3.7 u
959-98-8	Endosulfan I	3.7 u
60-57-1	Dieldrin	7.4 u
72-55-9	4,4'-DDE	7.4 u
72-20-8	Endrin	7.4 u
33213-65-	Endosulfan II	7.4 u
72-54-8	4,4'-DDD	7.4 u
1031-07-8	Endosulfan Sulfate	7.4 u
50-29-3	4,4'-DDT	7.4 u
72-43-5	Methoxychlor	7.4 u
53494-70-	Endrin Ketone	7.4 u
57-74-9	Chlordane	7.4 u
8001-35-2	Toxaphene	74 u
12674-11-	Aroclor-1016	37 u
11104-28-	Aroclor-1221	37 u
11141-16-	Aroclor-1232	37 u
53469-21-	Aroclor-1242	37 u
12672-29-	Aroclor-1248	37 u
11097-69-	Aroclor-1254	37 u
11096-82-	Aroclor-1260	74 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs _____ or Ws 30.18

Vt 20000 Vi 2.00

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313—703/557-2490 • FTS/557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BF 784

① Case Number: 5846

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
___ Water
✓ Soil/Sediment

④ Ship To: Versar, INC.

Attn:

Transfer
Ship To:

⑤ Regional Office: 1

Sampling Personnel: R. Adkisson (Name)

(Phone)

Sampling Date: 4/15/86 (Begin) 4/15/86 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	
Water (Extractable)			
Water (VOA)			
Soil/Sediment (Extractable)	1	8 oz.	OK except no tags
Soil/Sediment (VOA)	1	120 ml	
Other Soil/Sed Bat/PCB	1	8 oz.	

⑪ Analysis Lab:
Rec'd by: B Stylo
Date Rec'd: 4/16/86
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)

⑦ Shipping Information

Fedex A

Name of Carrier

4/15/86

Date Shipped:

1531415 64

Airbill Number:

⑧ Sample Description

___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
✓ Solids
___ Other (specify) _____

⑨ Sample Location

NJY55S

⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature) Matches inorganic TR MBF6M

001284

LAB COPY FOR RETURN TO SMO

Versar Inc. Laboratory Operations
5630 Versar Center, Springfield VA 22151 (703) 750-3000

Sample Number
6F784

ORGANICS ANALYSIS DATA SHEET (Page 1)

Laboratory Name: VERSAR
Lab Sample ID No: 2094
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 5846
QC Report No: 5846
Contract No: 68-01-7085
Date Sample Received: 4-16-86

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 4-16-86
Date Analyzed: 4-16-86
Conc/Dil Factor: 1 pH
Percent Moisture: 2.8

CAS Number		ug/Kg
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	4 J
67-64-1	Acetone	~~9 JB~~
75-15-0	Carbon Disulfide	5 u
75-35-4	1,1-Dichloroethene	5 u
75-34-3	1,1-Dichloroethane	5 u
156-60-5	Trans-1,2-Dichloroethene	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

CAS Number		ug/Kg
78-87-5	1,2-Dichloropropane	5 u
10061-02-6	Trans-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
10061-01-5	cis-1,3-Dichloropropene	5 u
110-75-8	2-chloroethylvinylether	10 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	67
108-90-7	Chlorobenzene	5 u
100-41-4	Ethylbenzene	5 u
100-42-5	Styrene	5 u
	Total Xylenes	5 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

VOAF1: REV032286

JP

Versar Inc., Laboratory Operations
6850 Versar Center, Springfield VA 22151 703/750-3000

Sample Number
8F784

Case No: 5846

ORGANICS ANALYSIS DATA SHEET (Page 2)
Semivolatile Compounds

Concentration: LOW

Date Extracted/Prepared: 4-25-86

Date Analyzed: 05/05/86

Conc/Dil Factor: 1

SPC Cleanup [ ]Yes [X]No

Separatory Funnel Extraction [ ]Yes

Continuous Liquid-LIquid Extraction [ ]Yes

CAS Number		ug/Kg
108-95-2	Phenol	420 u
111-44-4	bis(2-Chloroethyl)Ether	420 u
95-57-8	2-Chlorophenol	420 u
541-73-1	1,3-Dichlorobenzene	420 u
106-46-7	1,4-Dichlorobenzene	420 u
100-51-6	Benzyl Alcohol	420 u
95-50-1	1,2-Dichlorobenzene	420 u
95-48-7	2-Methylphenol	420 u
39638-32-9	bis(2-chloroisopropyl)ether	420 u
106-44-5	4-methylphenol	420 u
621-64-7	N-Nitroso-Di-n-propylamine	420 u
67-72-1	Hexachloroethane	420 u
98-95-3	Nitrobenzene	420 u
78-59-1	Isophorone	420 u
88-75-5	2-Nitrophenol	420 u
105-67-9	2,4-dimethylphenol	420 u
65-85-0	Benzoic Acid	2200 u
111-91-1	bis(2-chloroethoxy)methane	420 u
120-83-2	2,4-dichlorophenol	420 u
120-82-1	1,2,4-trichlorobenzene	420 u
91-20-3	Naphthalene	420 u
106-47-8	4-Chloroaniline	420 u
87-68-3	Hexachlorobutadiene	420 u
59-50-7	4-chloro-3-methylphenol	420 u
91-57-6	2-methylnaphthalene	420 u
77-47-4	Hexachlorocyclopentadiene	420 u
88-06-2	2,4,6-Trichlorophenol	420 u
95-95-4	2,4,5-Trichlorophenol	2200 u
91-58-7	2-Chloronaphthalene	420 u
88-74-4	2-Nitroaniline	2200 u
131-11-3	Dimethyl Phthalate	420 u
208-96-8	Acenaphthylene	420 u
99-09-2	3-Nitroaniline	2200 u

CAS Number		ug/Kg
83-32-9	Acenaphthene	420 u
51-28-5	2,4-Dinitrophenol	2200 u
100-02-7	4-Nitrophenol	2200 u
132-64-9	Dibenzofuran	420 u
121-14-2	2,4-Dinitrotoluene	420 u
606-20-2	2,6-Dinitrotoluene	420 u
84-66-2	Diethylphthalate	420 u
7005-22-3	4-Chlorophenyl-phenylether	420 u
86-73-7	Fluorene	420 u
100-01-6	4-Nitroaniline	2200 u
534-52-1	4,6-dinitro-2-methylphenol	2200 u
86-30-6	N-Nitrosodiphenylamine (1)	420 u
101-55-3	4-Bromophenyl-phenylether	420 u
118-74-1	Hexachlorobenzene	420 u
87-86-5	Pentachlorophenol	2200 u
85-01-8	Phenanthrene	420 u
120-12-7	Anthracene	420 u
84-74-2	Di-n-butylphthalate	420 u
206-44-0	Fluoranthene	66 J
129-00-0	Pyrene	420 u
85-68-7	Butylbenzylphthalate	420 u
91-94-1	3,3'-Dichlorobenzidine	840 u
56-55-3	Benzo(a)anthracene	420 u
117-81-7	bis(2-Ethylhexyl)Phthalate	520
218-01-9	Chrysene	420 u
117-84-0	Di-n-Octylphthalate	420 u
205-99-2	Benzo(b)Fluoranthene	420 u
207-08-9	Benzo(k)Fluoranthene	420 u
50-32-8	Benzo(a)pyrene	420 u
193-39-5	Indeno(1,2,3-cd)Pyrene	420 u
53-70-3	Dibenz(a,h)Anthracene	420 u
191-24-2	Benzo(g,h,i)Perylene	420 u

(1)-Cannot be separated from diphenylamine

BEH
5-7-86

Versar Inc. Laboratory Operations
6850 Versar Center, Springfield Va. 22151
(703) 750-3000

Sample Number
BF784

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticides/PCBs

Concentration: |Low| Medium (circle one)

GPC Cleanup [ ] Yes [X] No

Date Extracted/Prepared: 4/25/86

Separatory Funnel Extration [ ] Yes

Date Analyzed 5/19/86

Continuous Liquid-Liquid Extraction [ ] Yes [X] No

Conc/Dil Factor 1

Percent Moisture(decanted) 2.8

CAS Number		(ug/kg)
319-84-6	alpha-BHC	3.4 u
319-85-7	beta-BHC	3.4 u
319-86-8	delta-BHC	3.4 u
58-89-9	gamma-BHC (Lindane)	3.4 u
76-44-8	Heptachlor	3.4 u
309-00-2	Aldrin	3.4 u
1024-57-3	Heptachlor Epoxide	3.4 u
959-98-8	Endosulfan I	3.4 u
60-57-1	Dieldrin	6.8 u
72-55-9	4,4'-DDE	6.8 u
72-20-8	Endrin	6.8 u
33213-65-	Endosulfan II	6.8 u
72-54-8	4,4'-DDD	6.8 u
1031-07-8	Endosulfan Sulfate	6.8 u
50-29-3	4,4'-DDT	6.8 u
72-43-5	Methoxychlor	6.8 u
53494-70-	Endrin Ketone	6.8 u
57-74-9	Chlordane	6.8 u
8001-35-2	Toxaphene	68 u
12674-11-	Aroclor-1016	34 u
11104-28-	Aroclor-1221	34 u
11141-16-	Aroclor-1232	34 u
53469-21-	Aroclor-1242	34 u
12672-29-	Aroclor-1248	34 u
11097-69-	Aroclor-1254	68 u
11096-82-	Aroclor-1260	68 u

Vi = Volume of extract injected (ul)
Vs = Volume of Water Extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs _____ or Ws 30.34 Vt 20000 Vi 2.00

REFERENCE #4

Refing

Need Source

and Location

Hamilton Township

Industrial Pretreatment

Program

Municipal

Hamilton

Environ Test: Cert Ed.

Herb. Pest, PCB, BNE

Vol Org.

BETZ Laboratories

Irving Gen Param

HAMILTON TOWNSHIP MIPP
VOLATILE ORGANICS RESULTS FOR COLLECTION SYSTEM

STATION	BCM SAMPLE NO.	DATE	METHYL BROMIDE	METHYL CHLORIDE	METHYLENE CHLORIDE	1,1,2,2-TETRACHLORO-ETHANE	TETRA-CHLORO-ETHYLENE	TOLUENE
WHITEHEAD PS-24	9644	NOV 01 82	0	0	<10	0	0	<10
	9911	NOV 07 82	0	0	<10	0	0	0
	9952	NOV 08 82	0	0	15	0	0	<10
	143	NOV 12 82	0	0	<10	0	0	<10
	263	NOV 12 82	0	0	<10	0	0	<10
E.STATE PS-24	9642	NOV 01 82	0	0	12	0	12	<10
	9909	NOV 07 82	0	0	<10	0	0	12
	9945	NOV 08 82	0	0	<10	0	99	<10
	136	NOV 12 82	0	0	13	0	0	25
	289	NOV 16 82	0	0	97	0	<10	45
KLOCKNER PS-24	9643	NOV 01 82	0	0	11	0	0	<10
	9910	NOV 07 82	0	0	<10	0	0	59
	9950	NOV 08 82	0	0	<10	0	<10	<10
	141	NOV 12 82	0	0	13	0	<10	<10
	261	NOV 12 82	0	0	12	0	0	<10
YARDVILLE PS-24	9640	NOV 01 82	0	0	25	0	<10	<10
	9912	NOV 07 82	0	0	15	0	<10	<10
	9951	NOV 08 82	0	0	14	0	<10	<10
	142	NOV 12 82	0	0	<10	0	<10	<10
	264	NOV 12 82	0	0	14	0	<10	0
HAMILTON AVE-24	9641	NOV 01 82	0	0	19	0	0	<10
	9905	NOV 07 82	0	0	<10	0	0	<10
	9947	NOV 08 82	0	0	81	0	<10	46
	155	NOV 13 82	0	0	<10	0	<10	24
	260	NOV 16 82	0	0	<10	0	<10	<10
E.STATE & WARD GRAB	343	NOV 18 82	0	0	<10	0	0	285
MACK TRUCK GRAB	108	NOV 11 82	0	0	16	0	0	<10
INDEPENDENCE AVE-	9645	NOV 01 82	0	0	35	0	<10	<10
	9913	NOV 08 82	0	0	14	0	<10	<10
	156	NOV 12 82	0	0	<10	0	<10	<10

Received NLCS 4/9/86

From: New Jersey Div. Water Pol. Cont. Trenton, NJ

ALL DATA REPORTED IN PARTS PER BILLION (PPB)

'0' INDICATES CONCENTRATION IS BELOW DETECTION LIMIT

NUMBER AT END OF STATION DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP
VOLATILE ORGANICS RESULTS FOR COLLECTION SYSTEM

STATION	BC4 SAMPLE NO.	DATE	ACROLEIN	ACRYLO-NITRILE	BENZENE	BIS(CHLORO-METHYL) ETHER	BROMO-FORM	CARBON TETRA-CHLORIDE	CHLORO-BENZENE
WHITEHEAD PS-24	9644	NOV 01 82	0	<100	0	0	0	0	0
	9911	NOV 07 82	0	0	0	0	0	0	0
	9952	NOV 08 82	0	0	0	0	0	0	0
	143	NOV 12 82	0	0	0	0	0	0	0
	263	NOV 12 82	0	0	0	0	0	0	0
E.STATE PS-24	9642	NOV 01 82	0	0	0	0	0	0	0
	9909	NOV 07 82	0	0	0	0	0	0	0
	9945	NOV 08 82	0	0	<10	0	0	0	0
	136	NOV 12 82	0	0	0	0	0	0	0
	289	NOV 16 82	0	0	<10	0	0	0	0
KLOCKNER PS-24	9643	NOV 01 82	0	0	<10	0	0	0	0
	9910	NOV 07 82	0	0	0	0	0	0	0
	9950	NOV 08 82	0	0	<10	0	0	0	0
	141	NOV 12 82	0	0	<10	0	0	<10	<10
	261	NOV 12 82	0	0	0	0	0	0	0
YARDVILLE PS-24	9640	NOV 01 82	0	0	0	0	0	0	0
	9912	NOV 07 82	0	0	0	0	0	0	0
	9951	NOV 08 82	0	0	0	0	0	0	<10
	142	NOV 12 82	0	0	0	0	0	0	0
	264	NOV 12 82	0	0	0	0	0	0	0
HAMILTON AVE-24	9641	NOV 01 82	0	0	<10	0	0	0	0
	9905	NOV 07 82	0	0	0	0	0	0	0
	9947	NOV 08 82	0	0	<10	0	0	0	0
	153	NOV 13 82	0	0	0	0	0	0	0
	260	NOV 16 82	0	0	0	0	0	0	0
E.STATE & WARD GRAB	343	NOV 18 82	0	0	<10	0	0	0	0
MACK TRUCK GRAB	108	NOV 11 82	0	0	0	0	0	0	0
INDEPENDENCE AVE-24	9645	NOV 01 82	0	0	0	0	0	0	0
	9913	NOV 08 82	0	0	0	0	0	0	0
	156	NOV 12 82	0	0	0	0	0	0	0

ALL DATA REPORTED IN PARTS PER BILLION (PPB)

'0' INDICATES CONCENTRATION IS BELOW DETECTION LIMIT

[illegible] TION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP
VOLATILE ORGANICS RESULTS FOR COLLECTION SYSTEM

STATION	HCM SAMPLE NO.	DATE	1,2-TRANS-DICHLORO-ETHYLENE	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	TRICHLORO-ETHYLENE	TRICHLORO-FLUORO-METHANE	VINYL CHLORIDE
WHITEHEAD PS-24	9644	NOV 01 82	0	21	0	0	0	0
	9911	NOV 07 82	0	29	0	0	0	0
	9952	NOV 08 82	0	192	0	0	0	0
	143	NOV 12 82	0	44	0	0	0	0
	263	NOV 12 82	0	107	0	0	0	0
E.STATE PS-24	9642	NOV 01 82	<10	<10	0	19	0	0
	9909	NOV 07 82	0	<10	0	0	0	0
	9945	NOV 08 82	30	0	0	53	0	0
	136	NOV 12 82	0	<10	0	<10	0	0
	289	NOV 16 82	<10	21	0	64	0	0
KLOCKNER PS-24	9643	NOV 01 82	0	<10	0	0	0	0
	9910	NOV 07 82	0	<10	0	0	0	0
	9950	NOV 08 82	0	<10	0	0	0	0
	141	NOV 12 82	0	<10	0	0	0	0
	261	NOV 12 82	0	<10	0	0	0	0
YARDVILLE PS-24	9640	NOV 01 82	0	0	0	0	0	0
	9912	NOV 07 82	0	<10	0	<10	0	0
	9951	NOV 08 82	0	<10	<10	<10	0	0
	142	NOV 12 82	0	<10	0	<10	0	0
	264	NOV 12 82	0	<10	0	0	0	0
HAMILTON AVE-24	9641	NOV 01 82	0	<10	0	0	0	0
	9905	NOV 07 82	0	<10	0	0	0	0
	9947	NOV 08 82	0	<10	0	0	0	0
	153	NOV 13 82	0	0	0	0	0	0
	260	NOV 16 82	0	0	0	0	0	0
E.STATE & WARD GRAB	343	NOV 18 82	<10	<10	0	17	0	0
MACK TRUCK GRAB	108	NOV 11 82	0	0	0	0	0	0
INDEPENDENCE AVE-24	9645	NOV 01 82	0	<10	0	<10	0	0
	9913	NOV 08 82	<10	<10	0	<10	0	0
	158	NOV 12 82	<10	<10	0	<10	0	0

ALL DATA REPORTED IN PARTS PER BILLION (PPB)

'0' INDICATES CONCENTRATION IS BELOW DETECTION LIMIT

NUMBER AT END OF STATION DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP
VOLATILE ORGANICS RESULTS FOR COLLECTION SYSTEM

STATION	BCM SAMPLE NO.	DATE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	1,1-DICHLORO-ETHYLENE	1,2-DICHLORO-PROPANE	1,3-DICHLORO-PROPYLENE	ETHYL-BENZENE
WHITEHEAD PS-24	9644	NOV 01 82	0	0	0	0	0	<10
	9911	NOV 07 82	0	0	0	0	0	0
	9952	NOV 08 82	0	0	0	0	0	0
	143	NOV 12 82	0	0	<10	0	0	0
	263	NOV 12 82	0	0	<10	0	0	0
E.STATE PS-24	9642	NOV 01 82	0	0	0	0	0	<10
	9909	NOV 07 82	0	0	0	0	0	0
	9945	NOV 08 82	0	0	0	0	0	0
	136	NOV 12 82	0	0	0	0	0	<10
	289	NOV 16 82	0	0	0	0	0	<10
KLOCKNER PS-24	9643	NOV 01 82	0	0	0	0	0	0
	9910	NOV 07 82	0	0	0	0	0	0
	9950	NOV 08 82	0	0	0	0	0	0
	141	NOV 12 82	0	0	0	0	0	0
	261	NOV 12 82	0	0	0	0	0	0
YARDVILLE PS-24	9640	NOV 01 82	0	0	0	0	0	0
	9912	NOV 07 82	0	0	0	0	0	0
	9951	NOV 08 82	0	0	0	0	0	0
	142	NOV 12 82	0	0	0	0	0	0
	264	NOV 12 82	0	0	0	0	0	0
HAMILTON AVE-24	9641	NOV 01 82	0	0	0	0	0	0
	9905	NOV 07 82	0	0	0	0	0	0
	9947	NOV 08 82	0	0	0	0	0	0
	153	NOV 13 82	0	0	0	0	0	0
	260	NOV 16 82	0	0	0	0	0	0
E.STATE & WARD GRAB	343	NOV 18 82	0	0	0	0	0	139
MACK TRUCK GRAB	108	NOV 11 82	0	0	0	0	0	<10
INDEPENDENCE AVE-24	9645	NOV 01 82	0	0	0	0	0	0
	9913	NOV 08 82	0	0	0	0	0	0
	158	NOV 12 82	0	0	0	0	0	<10

ALL DATA REPORTED IN PARTS PER BILLION (PPB)

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[illegible] DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP
VOLATILE ORGANICS RESULTS FOR COLLECTION SYSTEM

STATION	UCM SAMPLE NO.	DATE	CHLORO-DIBROMO-METHANE	CHLORO-ETHANE	2-CHLORO-ETHYLVINYL ETHER	CHLORO-FORM	DICHLORO-BROMO-METHANE	DICHLORO-DIFLUORO-METHANE
WHITEHEAD PS-24	9644	NOV 01 82	0	0	0	18	<10	0
	9911	NOV 07 82	0	0	0	13	0	0
	9952	NOV 08 82	0	0	0	17	0	0
	143	NOV 12 82	0	0	0	19	<10	0
	263	NOV 12 82	0	0	0	30	<10	0
E.STATE PS-24	9642	NOV 01 82	0	0	0	19	<10	0
	9909	NOV 07 82	0	0	0	18	0	0
	9945	NOV 08 82	0	0	0	23	0	0
	136	NOV 12 82	0	0	0	29	<10	0
	289	NOV 16 82	0	0	0	121	<10	0
KLOCKNER PS-24	9643	NOV 01 82	0	0	0	0	<10	0
	9910	NOV 07 82	0	0	0	12	0	0
	9950	NOV 08 82	0	0	0	<10	0	0
	141	NOV 12 82	0	0	0	26	0	0
	261	NOV 12 82	0	0	0	13	0	0
YARDVILLE PS-24	9640	NOV 01 82	0	0	0	15	0	0
	9912	NOV 07 82	0	0	0	30	0	0
	9951	NOV 08 82	0	0	0	20	0	0
	142	NOV 12 82	0	0	0	35	<10	0
	264	NOV 12 82	0	0	0	19	0	0
HAMILTON AVE-24	9641	NOV 01 82	0	0	0	<10	0	0
	9905	NOV 07 82	0	0	0	0	0	0
	9947	NOV 08 82	0	0	0	<10	0	0
	153	NOV 13 82	0	0	0	<10	0	0
	260	NOV 16 82	0	0	0	<10	0	0
E.STATE & WARD GRAB	343	NOV 18 82	0	0	0	27	<10	0
MACK TRUCK GRAB	106	NOV 11 82	0	0	0	0	0	0
INDEPENDENCE AVE-24	9645	NOV 01 82	0	0	0	13	0	0
	9913	NOV 08 82	0	0	0	13	0	0
	158	NOV 12 82	0	0	0	38	0	0

ALL DATA REPORTED IN PARTS PER BILLION (PPB)

'0' INDICATES CONCENTRATION IS BELOW DETECTION LIMIT

NUMBER AT END OF STATION DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP

BASE/NEUTRAL EXTRACTABLE ORGANICS RESULTS FOR COLLECTION SYSTEM

STATION	BCH SAMPLE NO.	DATE	NITRO-BENZENE	N-NITRO-SODIMETHYL-AMINE	N-NITRO-SODI-N-PROPYLAMINE	N-NITRO-SODIPHENYL-AMINE	PHEN-ANTHRENE	PYRENE	1,2,4-TRICHLORO-BENZENE
WHITEHEAD PS-48	9736	NOV 02 82	0	0	0	0	0	0	<10
	55	NOV 08 82	0	0	0	0	0	0	0
	146	NOV 13 82	0	0	0	0	0	0	0
	290	NOV 16 82	0	0	0	0	0	0	0
E.STATE PS-48	9736	NOV 02 82	0	0	0	0	0	0	0
	51	NOV 08 82	0	0	0	<10	0	0	0
	147	NOV 13 82	0	0	0	<10	0	0	0
	291	NOV 16 82	0	0	0	<10	0	0	0
KLUCKNER PS-48	9737	NOV 02 82	0	0	0	0	0	0	0
	52	NOV 08 82	0	0	0	0	0	0	0
	149	NOV 13 82	0	0	0	0	0	0	<10
	292	NOV 16 82	0	0	0	0	0	0	<10
YARDVILLE PS-48	9734	NOV 02 82	0	0	0	0	0	0	0
	54	NOV 08 82	0	0	0	0	0	0	0
	151	NOV 13 82	0	0	0	0	0	0	0
	293	NOV 16 82	0	0	0	0	0	0	0
E.STATE & WARD GRAB	343	NOV 18 82	0	0	0	0	0	0	0

ALL DATA REPORTED IN PARTS PER BILLION (PPB)

'0' INDICATES CONCENTRATION IS BELOW DETECTION LIMIT

"STATION" INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP
BASE/NEUTRAL EXTRACTABLE ORGANICS RESULTS FOR COLLECTION SYSTEM

STATION	BCM SAMPLE NO.	DATE	HEXA-CHLORO-BENZENE	HEXA-CHLORO-BUTADIENE	HEXACHLORO-CYCLO-PENTADIENE	HEXA-CHLORO-ETHANE	IDENO-(1,2,3-CD)-PYRENE	ISOPHORONE	NAPH-THALENE
WHITEHEAD PS-48	9738	NOV 02 82	0	0	0	0	0	0	25
	53	NOV 08 82	0	0	0	0	0	0	0
	146	NOV 13 82	0	0	0	0	0	0	0
	290	NOV 16 82	0	0	0	0	0	0	0
E.STATE PS-48	9736	NOV 02 82	0	0	0	0	0	0	<10
	51	NOV 08 82	0	0	0	0	0	0	<10
	147	NOV 13 82	0	0	0	0	0	0	0
	291	NOV 16 82	0	0	0	0	0	0	0
KLOCKNER PS-48	9737	NOV 02 82	0	0	0	0	0	0	0
	52	NOV 08 82	0	0	0	0	0	0	0
	149	NOV 13 82	0	0	0	0	0	0	0
	292	NOV 16 82	0	0	0	0	0	0	0
YARDVILLE PS-48	9734	NOV 02 82	0	0	0	0	0	0	<10
	54	NOV 08 82	0	0	0	0	0	0	0
	151	NOV 13 82	0	0	0	0	0	0	0
	293	NOV 16 82	0	0	0	0	0	0	0
E.STATE & WARD GRAB	343	NOV 18 82	0	0	0	0	0	0	0

ALL DATA REPORTED IN PARTS PER BILLION (PPB)

'0' INDICATES CONCENTRATION IS BELOW DETECTION LIMIT

NUMBER AT END OF STATION DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP

BASE/NEUTRAL EXTRACTABLE ORGANICS RESULTS FOR COLLECTION SYSTEM

STATION	BCH SAMPLE NO.	DATE	2,4-DINITRO-TOLUENE	2,6-DINITRO-TOLUENE	DI-N-OCTYL PHTHALATE	1,2-DIPHENYL-HYDRAZINE (AS AZOBENZENE)	FLUOR-ANTHENE	FLUORENE
WHITEHEAD PS-48	9738	NOV 02 82	0	0	0	0	0	0
	53	NOV 08 82	0	0	0	0	0	0
	146	NOV 13 82	0	0	0	0	0	0
	290	NOV 16 82	0	0	0	0	0	0
E.STATE PS-48	9736	NOV 02 82	0	0	0	0	0	0
	51	NOV 08 82	0	0	0	0	0	0
	147	NOV 13 82	0	0	<10	0	0	0
	291	NOV 16 82	0	0	0	0	0	0
KLOCKNER PS-48	9737	NOV 02 82	0	0	0	0	0	0
	52	NOV 08 82	0	0	0	0	0	0
	149	NOV 13 82	0	0	0	0	0	0
	292	NOV 16 82	0	0	0	0	0	0
YARDVILLE PS-48	9734	NOV 02 82	0	0	0	0	0	0
	54	NOV 08 82	0	0	0	0	0	0
	151	NOV 13 82	0	0	0	0	0	0
	293	NOV 16 82	0	0	0	0	0	0
E.STATE & WARD GRAB	343	NOV 18 82	0	0	0	0	0	0

ALL DATA REPORTED IN PARTS PER BILLION (PPB)

'0' INDICATES CONCENTRATION IS BELOW DETECTION LIMIT

..... AT END OF STATION DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP
BASE/NEUTRAL EXTRACTABLE ORGANICS RESULTS FOR COLLECTION SYSTEM

STATION	BEM SAMPLE NO.	DATE	1,2-DICHLORO-BENZENE	1,3-DICHLORO-BENZENE	1,4-DICHLORO-BENZENE	3,3'-DICHLORO-BENZIDINE	DIETHYL PHTHALATE	DIMETHYL PHTHALATE	DI-N-BUTYL PHTHALATE
WHITEHEAD PS-48	9738	NOV 02 82	0	0	0	0	0	0	0
	53	NOV 08 82	0	0	0	0	0	0	0
	146	NOV 13 82	0	0	0	0	0	0	<10
	290	NOV 16 82	0	0	0	0	0	0	13
E.STATE PS-48	9736	NOV 02 82	0	0	<10	0	0	0	<10
	51	NOV 08 82	0	0	0	0	0	0	0
	147	NOV 13 82	0	0	<10	0	0	0	<10
	291	NOV 16 82	0	0	<10	0	0	0	<10
KLOCKNER PS-48	9737	NOV 02 82	0	0	0	0	<10	0	0
	52	NOV 08 82	0	0	0	0	0	0	0
	149	NOV 13 82	<10	<10	<10	0	0	0	0
	292	NOV 16 82	<10	0	<10	0	0	0	<10
YARDVILLE PS-48	9734	NOV 02 82	0	0	<10	0	<10	0	0
	54	NOV 08 82	0	0	0	0	0	0	<10
	151	NOV 13 82	<10	0	<10	0	0	0	0
	293	NOV 16 82	0	0	0	0	0	0	<10
E.STATE & WARD GRAB	343	NOV 18 82	0	0	0	0	0	0	21

ALL DATA REPORTED IN PARTS PER BILLION (PPB)

'0' INDICATES CONCENTRATION IS BELOW DETECTION LIMIT

[illegible] STATION DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP
BASE/NEUTRAL EXTRACTABLE ORGANICS RESULTS FOR COLLECTION SYSTEM

STATION	BCM SAMPLE NO.	DATE	4-BROMOPHENYL PHENYL ETHER	BUTYL-BENZYL PHTHALATE	2-CHLORO-NAPHTHALENE	4-CHLOROPHENYL PHENYL ETHER	CHRYSENE	DIBENZ[A,H]-ANTHRACENE
WHITEHEAD PS-48	9738	NOV 02 82	0	0	0	0	0	0
	53	NOV 08 82	0	<10	0	0	0	0
	146	NOV 13 82	0	0	0	0	0	0
	290	NOV 16 82	0	<10	0	0	0	0
E.STATE PS-48	9736	NOV 02 82	0	32	0	0	0	0
	51	NOV 08 82	0	<10	0	0	0	0
	147	NOV 13 82	0	<10	0	0	0	0
	291	NOV 16 82	0	0	0	0	0	0
KLOCKNER PS-48	9737	NOV 02 82	0	0	0	0	0	0
	52	NOV 08 82	0	0	0	0	0	0
	149	NOV 13 82	0	0	0	0	0	0
	292	NOV 16 82	0	0	0	0	0	0
YARDVILLE PS-48	9734	NOV 02 82	0	0	0	0	0	0
	54	NOV 08 82	0	0	0	0	0	0
	151	NOV 13 82	0	0	0	0	0	0
	293	NOV 16 82	0	<10	0	0	0	0
E.STATE & WARD GRAB	343	NOV 18 82	0	0	0	0	0	0

ALL DATA REPORTED IN PARTS PER BILLION (PPB)

'0' INDICATES CONCENTRATION IS BELOW DETECTION LIMIT

NUMBER AT END OF STATION DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP
BASE/NEUTRAL EXTRACTABLE ORGANICS RESULTS FOR COLLECTION SYSTEM

117-8-7

STATION	HCM SAMPLE NO.	DATE	BENZO-(GHI)-PERYLENE	BENZO(K)-FLUOR-ANTHENE	BIS(2-CHLORO-ETHOXY)-METHANE	BIS(2-CHLOROETHYL) ETHER	BIS(2-CHLORO-ISOPROPYL) ETHER	BIS (2-ETHYLHEXYL) PHTHALATE
WHITEHEAD PS-48	9738	NOV 02 82	0	0	0	0	0	551
	53	NOV 08 82	0	0	0	0	0	0
	146	NOV 13 82	0	0	0	0	0	<10
	290	NOV 16 82	0	0	0	0	0	11
E.STATE PS-48	9736	NOV 02 82	0	0	0	0	0	85
	51	NOV 08 82	0	0	0	0	0	74
	147	NOV 13 82	0	0	0	0	0	<10
	291	NOV 16 82	0	0	0	<10	0	19
KLOCKNER PS-48	9737	NOV 02 82	0	0	0	0	0	0
	52	NOV 08 82	0	0	0	0	0	<10
	149	NOV 13 82	0	0	0	0	0	<10
	292	NOV 16 82	0	0	0	0	0	<10
YARDVILLE PS-48	9734	NOV 02 82	0	0	0	0	0	0
	54	NOV 08 82	0	0	0	0	0	<10
	151	NOV 13 82	0	0	0	0	0	<10
	293	NOV 16 82	0	0	0	0	0	33
E.STATE & WARD GRAB	343	NOV 18 82	0	0	0	0	0	21

ALL DATA REPORTED IN PARTS PER BILLION (PPB)

'0' INDICATES CONCENTRATION IS BELOW DETECTION LIMIT

NUMBER AT END OF STATION DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP
BASE/NEUTRAL EXTRACTABLE ORGANICS RESULTS FOR COLLECTION SYSTEM

STATION	BCM SAMPLE NO.	DATE	ACENAPH-THENE	ACENAPH-THYLENE	ANTHRACENE	BENZIDINE	BENZ(A)-ANTHRACENE	BENZO(A)-PYRENE	3,4-BENZO-FLUOR-ANTHENE
WHITEHEAD PS-48	9738	NOV 02 82	0	0	0	0	0	0	0
	53	NOV 08 82	0	0	0	0	0	0	0
	146	NOV 13 82	0	0	0	0	0	0	0
	290	NOV 16 82	0	0	0	0	0	0	0
E.STATE PS-48	9736	NOV 02 82	<10	0	0	0	0	0	0
	51	NOV 08 82	0	0	0	0	0	0	0
	147	NOV 13 82	0	0	0	0	0	0	0
	291	NOV 16 82	0	0	0	0	0	0	0
KLOCKNER PS-48	9737	NOV 02 82	0	0	0	0	0	0	0
	52	NOV 08 82	0	0	0	0	0	0	0
	149	NOV 13 82	0	0	0	0	0	0	0
	292	NOV 16 82	0	0	0	0	0	0	0
YARDVILLE PS-48	9734	NOV 02 82	0	0	0	0	0	0	0
	54	NOV 08 82	0	0	0	0	0	0	0
	151	NOV 13 82	0	0	0	0	0	0	0
	293	NOV 16 82	0	0	0	0	0	0	0
E.STATE & WARD GRAB	343	NOV 16 82	0	0	0	0	0	0	0

ALL DATA REPORTED IN PARTS PER BILLION (PPB)

'0' INDICATES CONCENTRATION IS BELOW DETECTION LIMIT

NUMBER AT END OF STATION DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP
ACID EXTRACTABLE ORGANICS RESULTS FOR COLLECTION SYSTEM

STATION	BCH SAMPLE NO.	DATE	2-CHLORO-PHENOL	2,4-DICHLORO-PHENOL	2,4-DIMETHYL-PHENOL	4,6-DINITRO-O-CRESOL	2,4-DI-NITRO-PHENOL	2-NITRO-PHENOL	4-NITRO-PHENOL
WHITEHEAD PS-48	9738	NOV 02 82	0	0	0	0	0	0	0
	53	NOV 08 82	0	0	<25	0	0	0	0
	146	NOV 13 82	0	0	0	0	0	0	0
	290	NOV 16 82	0	0	0	0	0	0	0
E.STATE PS-48	9736	NOV 02 82	<25	0	<25	0	0	0	0
	51	NOV 08 82	<25	0	72	0	0	0	0
	147	NOV 13 82	0	<25	<25	0	0	0	0
	291	NOV 16 82	0	0	56	0	0	0	0
KLOCKNER PS-48	9737	NOV 02 82	0	0	0	0	0	0	0
	52	NOV 08 82	0	0	<25	0	0	0	0
	149	NOV 13 82	0	0	0	0	0	0	0
	292	NOV 16 82	0	0	0	0	0	0	0
YARDVILLE PS-48	9734	NOV 02 82	0	0	<25	0	0	0	0
	54	NOV 08 82	0	0	<25	0	0	0	0
	151	NOV 13 82	0	0	<25	0	0	0	0
	293	NOV 16 82	0	0	0	0	0	0	0
E.STATE & WARD GRAB	343	NOV 18 82	0	0	0	0	0	0	0

ALL DATA REPORTED IN PARTS PER BILLION (PPB)

'0' INDICATES CONCENTRATION IS BELOW DETECTION LIMIT

NUMBER AT END OF STATION DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP
ACID EXTRACTABLE ORGANICS RESULTS FOR COLLECTION SYSTEM

STATION	BCM SAMPLE NO.	DATE	P-CHLORO-M-CRESOL	PENTA-CHLORO-PHENOL	PHENOL	2,4,6-TRICHLORO-PHENOL
WHITEHEAD PS-48	9738	NOV 02 82	0	0	<25	0
	53	NOV 08 82	0	0	26	0
	146	NOV 13 82	0	0	<25	0
	290	NOV 16 82	0	<25	79	0
E.STATE PS-48	9736	NOV 02 82	0	0	537	0
	51	NOV 08 82	0	0	800	<25
	147	NOV 13 82	0	0	3030	128
	291	NOV 16 82	0	0	11500	0
KLOCKNER PS-48	9737	NOV 02 82	0	0	<25	0
	52	NOV 08 82	0	0	46	0
	149	NOV 13 82	0	0	<25	0
	292	NOV 16 82	0	0	65	0
YARDVILLE PS-48	9734	NOV 02 82	0	0	67	0
	54	NOV 08 82	0	0	32	0
	151	NOV 13 82	0	0	<25	0
	293	NOV 16 82	0	0	<25	0
E.STATE & WARD GRAB	343	NOV 18 82	0	0	1410000	0

ALL DATA REPORTED IN PARTS PER BILLION (PPB)

'0' INDICATES CONCENTRATION IS BELOW DETECTION LIMIT

NUMBER AT END OF STATION DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP
METALS RESULTS FOR COLLECTION SYSTEM

STATION	BCM SAMPLE NO.	DATE	ANTIMONY (MG/L)	ARSENIC (MG/L)	BERYLLIUM (MG/L)	CADMIUM (MG/L)	CHROMIUM (MG/L)	COPPER (MG/L)	LEAD (MG/L)
GEO DYE PS-48	9732	NOV 02 82	<.125	.003	<.01	.0030	.020	.13	.015
	50	NOV 08 82	<.125	<.001	<.01	.0011	.135	3.12	.063
	150	NOV 13 82	<.125	.004	<.01	.0019	.058	.14	.020
	297	NOV 16 82	<.125	.004	<.01	.0003	.018	.13	.004
TAYLOR & PITTMAN-48	9730	NOV 02 82	<.125	.003	<.01	.0015	.020	.05	.083
	46	NOV 08 82	<.125	<.001	<.01	.0008	.017	.07	.019
	152	NOV 13 82	<.125	<.001	<.01	.0026	.024	.14	.009
	296	NOV 16 82	<.125	.005	<.01	.0007	.021	.03	.013
EMELINE-48	9729	NOV 02 82	<.125	.005	<.01	.0016	.059	.05	.008
	48	NOV 08 82	<.125	<.001	<.01	.0013	.022	.07	.004
	154	NOV 13 82	<.125	.001	<.01	.0009	.022	.10	.001
	295	NOV 16 82	<.125	.006	<.01	.0011	.031	.05	.008
WHITEHEAD PS-48	9738	NOV 02 82	<.125	.006	<.01	.0039	.038	.16	.831
	53	NOV 08 82	<.125	<.001	<.01	.0012	.023	.16	.197
	146	NOV 13 82	<.125	.003	<.01	.0002	.017	.10	.085
	290	NOV 16 82	<.125	.001	<.01	.0004	.011	.03	.085
E.STATE PS-48	9736	NOV 02 82	<.125	.003	<.01	.0015	.135	.03	.009
	51	NOV 08 82	<.125	.004	<.01	.0026	.097	.18	.021
	147	NOV 13 82	<.125	.001	<.01	.0005	.250	.09	.007
	291	NOV 16 82	<.125	.004	<.01	.0012	.135	.05	.005
KLUCKNER PS-48	9737	NOV 02 82	<.125	.006	<.01	.0058	.862	.16	.006
	52	NOV 08 82	<.125	<.001	<.01	.0028	.116	.11	.008
	149	NOV 13 82	<.125	.002	<.01	.0012	.307	.16	.008
	292	NOV 16 82	<.125	.006	<.01	.0055	.403	.18	.011
YARDVILLE PS-48	9734	NOV 02 82	<.125	.004	<.01	.0017	.025	.09	.010
	54	NOV 08 82	<.125	<.001	<.01	.0002	.015	.09	.002
	151	NOV 13 82	<.125	<.001	<.01	.0005	.018	.10	.006
	293	NOV 16 82	<.125	.006	<.01	.0007	.017	.09	.007
HAMILTON AVE-48	9735	NOV 02 82	<.125	.003	<.01	.0014	.007	.07	.003
	47	NOV 08 82	<.125	<.001	<.01	.0017	.034	.07	.007
	258	NOV 13 82	<.125	.005	<.01	.0007	.022	.10	.015
	294	NOV 16 82	<.125	.006	<.01	.0009	.023	.09	.030
E.STATE & WARD-48	9731	NOV 02 82	<.125	.002	<.01	.0073	.843	.09	.006
	49	NOV 08 82	<.125	<.001	<.01	.0044	.231	.07	.011
	148	NOV 13 82	<.125	.001	<.01	.0017	.059	.12	.026
	298	NOV 16 82	<.125	<.001	<.01	.0001	1.020	.04	<.001
E.STATE & WARD GRAB	343	NOV 18 82	<.125	.003	<.01	.0003	1.300	.08	.002
INDEPENDENCE AVE-48	262	NOV 13 82	<.125	.001	<.01	.0001	.035	.05	.002

[illegible] AT END OF STATION DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP
METALS RESULTS FOR COLLECTION SYSTEM

STATION	BCM SAMPLE NO.	DATE	MERCURY (MG/L)	NICKEL (MG/L)	SELENIUM (MG/L)	SILVER (MG/L)	THALLIUM (MG/L)	ZINC (MG/L)
GEO DYE PS-48	9732	NOV 02 82	.0008	<.10	.008	.0029	<.140	.22
	50	NOV 08 82	.0220	.25	<.001	.0180	<.140	10.00
	150	NOV 13 82	.0005	<.10	<.001	.0010	<.140	.36
	297	NOV 16 82	.0003	<.10	<.001	.0010	<.140	.16
TAYLOR & PITTMAN-48	9730	NOV 02 82	.0002	<.10	<.001	.0002	<.140	.29
	46	NOV 08 82	.0004	<.10	<.001	.0010	<.140	.26
	152	NOV 13 82	.0008	<.10	<.001	.0020	<.140	.30
	296	NOV 16 82	.0003	<.10	<.001	.0010	<.140	.19
EMELINE-48	9729	NOV 02 82	.0001	<.10	<.001	.0063	<.140	.26
	48	NOV 08 82	.0004	<.10	<.001	.0030	<.140	.46
	154	NOV 13 82	.0004	<.10	<.001	.0030	<.140	.28
	295	NOV 16 82	.0003	<.10	<.001	.0030	<.140	.23
WHITEHEAD PS-48	9738	NOV 02 82	.0001	<.10	.003	<.0001	<.140	.46
	53	NOV 08 82	.0004	<.10	<.001	.0010	<.140	.53
	146	NOV 13 82	.0004	<.10	<.001	<.0010	<.140	.29
	290	NOV 16 82	.0002	<.10	<.001	.0010	<.140	.26
E.STATE PS-48	9736	NOV 02 82	.0003	<.10	.002	.0011	<.140	.37
	51	NOV 08 82	.0006	.25	.002	.0010	<.140	1.07
	147	NOV 13 82	.0003	.61	<.001	.0010	<.140	7.52
	291	NOV 16 82	.0003	.17	<.001	.0010	<.140	1.77
KLOCKNER PS-48	9737	NOV 02 82	.0240	<.10	.001	.0021	<.140	.14
	52	NOV 08 82	.0006	<.10	<.001	.0060	<.140	.25
	149	NOV 13 82	.0008	<.10	<.001	.0030	<.140	.34
	292	NOV 16 82	.0005	<.10	<.001	.0080	<.140	.19
YARDVILLE PS-48	9734	NOV 02 82	.0003	<.10	.003	<.0001	<.140	.18
	54	NOV 08 82	.0005	<.10	<.001	.0010	<.140	.28
	151	NOV 13 82	.0006	<.10	<.001	.0010	<.140	.22
	293	NOV 16 82	.0005	<.10	<.001	.0020	<.140	.22
HAMILTON AVE-48	9735	NOV 02 82	.0001	<.10	.001	<.0001	<.140	.12
	47	NOV 08 82	.0005	<.10	<.001	.0020	<.140	.25
	258	NOV 13 82	.0012	<.10	<.001	.0020	<.140	.34
	294	NOV 16 82	.0008	<.10	<.001	.0020	<.140	.40
E.STATE & WARD-48	9731	NOV 02 82	.0008	1.09	<.001	<.0001	<.140	2.23
	49	NOV 08 82	.0003	.52	<.001	<.0010	<.140	1.64
	148	NOV 13 82	.0002	.61	<.001	<.0010	<.140	6.52
	298	NOV 16 82	.0002	.93	<.001	.0010	<.140	2.18
E.STATE & WARD GRAB	343	NOV 18 82	.0020	1.60	<.001	.0010	<.140	1.46
INDEPENDENCE AVE-48	262	NOV 13 82	.0002	<.10	<.001	.0010	<.140	.15

NUMBER AT END OF STATION DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP HIPP
GENERAL PARAMETER RESULTS FOR COLLECTION SYSTEM

STATION	BCM SAMPLE NO.	DATE	ACIDITY (AS CACO3)	METHYL ORANGE ALKALINITY (AS CACO3)	PHENOLPHTHALEIN ALKALINITY (AS CACO3)	BIOCHEMICAL OXYGEN DEMAND	CHEMICAL OXYGEN DEMAND	COLOR
GEO DYE PS-24	9639	NOV 01 82	4	242	<1	255	870	150
	9949	NOV 08 82	54	324	<1	310	830	160
	140	NOV 12 82	68	138	<1	97	1105	280
	266	NOV 16 82	38	202	<1	150	495	60
TAYLOR & PITTMAN-24	9637	NOV 01 82	20	242	<1	360	525	125
	9946	NOV 08 82	30	176	<1	215	610	80
	137	NOV 12 82	29	172	<1	250	600	70
	219	NOV 16 82	44	230	<1	260	690	70
EMELINE-24	9636	NOV 01 82	26	181	<1	100	180	75
	9948	NOV 08 82	40	310	<1	185	555	80
	139	NOV 12 82	45	194	<1	205	490	80
	265	NOV 16 82	14	252	28	135	300	40
WHITEHEAD PS-24	9644	NOV 01 82	32	136	<1	420	425	500
	9952	NOV 08 82	226	104	<1	4400	650	400
	143	NOV 12 82	41	143	<1	63	390	50
	226	NOV 16 82	54	116	<1	660	565	30
E.STATE PS-24	9642	NOV 01 82	36	358	<1	450	350	100
	9945	NOV 08 82	104	504	<1	1040	2200	240
	136	NOV 12 82	18	280	<1	290	585	60
	289	NOV 16 82	10	200	26	200	450	60
KLUCKNER PS-24	9643	NOV 01 82	24	178	<1	99	240	75
	9950	NOV 08 82	26	192	<1	130	590	50
	141	NOV 12 82	28	162	<1	85	295	60
	220	NOV 16 82	48	186	<1	180	480	60
YARDVILLE PS-24	9640	NOV 01 82	22	208	<1	420	460	150
	9951	NOV 08 82	46	182	<1	170	505	70
	142	NOV 12 82	40	162	<1	180	650	80
	225	NOV 16 82	34	170	<1	220	510	60
HAMILTON AVE-24	9641	NOV 01 82	28	206	<1	100	245	125
	9947	NOV 08 82	42	232	<1	200	560	80
	153	NOV 13 82	28	159	<1	300	540	100
	260	NOV 16 82	41	206	<1	170	495	60
E.STATE & WARD-24	9638	NOV 01 82	3640	13400	<1	51000	51660	375
	9953	NOV 08 82	8	170	14	150	430	20
	144	NOV 12 82	16	112	<1	75	465	20
	218	NOV 16 82	30	106	<1	325	785	50
E.STATE & WARD GRAB	343	NOV 18 82	146	12900	<1	30500	42170	1000

ALL DATA REPORTED IN MG/L EXCEPT:
COLOR - REPORTED IN PLATINUM-COBALT UNITS

NUMBER AT END OF STATION DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP
GENERAL PARAMETER RESULTS FOR COLLECTION SYSTEM

STATION	BCM SAMPLE NO.	DATE	TOTAL ORGANIC CARBON	TOTAL SOLIDS	DISSOLVED SOLIDS	SUSPENDED SOLIDS	VOLATILE SOLIDS	VOLATILE DISSOLVED SOLIDS	VOLATILE SUSPENDED SOLIDS
GEO DYE PS-24	9639	NOV 01 82	120	614	396	218	345	149	196
	9949	NOV 08 82	239	843	410	433	549	193	356
	140	NOV 12 82	159	1260	365	910	695	175	520
	266	NOV 16 82	95	643	355	288	351	127	224
TAYLOR & PITTMAN-24	9637	NOV 01 82	180	604	402	202	313	159	154
	9946	NOV 08 82	161	622	339	283	361	130	231
	137	NOV 12 82	122	674	344	330	410	126	284
	219	NOV 16 82	145	690	382	308	409	164	245
EMELINE-24	9636	NOV 01 82	38	342	264	78	114	64	50
	9948	NOV 08 82	177	628	444	184	264	114	150
	139	NOV 12 82	144	589	440	149	306	178	128
	265	NOV 16 82	87	507	347	160	192	80	112
WHITEHEAD PS-24	9644	NOV 01 82	329	1381	619	762	618	144	474
	9952	NOV 08 82	181	1460	663	793	1143	410	733
	143	NOV 12 82	92	760	554	206	274	141	133
	226	NOV 16 82	99	837	679	158	281	154	127
E.STATE PS-24	9642	NOV 01 82	412	1261	1080	181	593	441	152
	9945	NOV 08 82	668	3050	1510	1540	2040	750	1290
	136	NOV 12 82	175	830	776	54	416	380	36
	269	NOV 16 82	124	646	552	94	233	164	69
KLUCKNER PS-24	9643	NOV 01 82	49	390	332	58	164	110	54
	9950	NOV 08 82	130	496	370	126	208	110	98
	141	NOV 12 82	68	456	316	140	202	95	107
	220	NOV 16 82	114	577	371	206	279	115	164
YANDVILLE PS-24	9640	NOV 01 82	120	625	376	249	361	139	222
	9951	NOV 08 82	91	531	336	195	253	113	140
	142	NOV 12 82	129	593	372	221	321	136	185
	225	NOV 16 82	139	682	454	228	350	163	187
HAMILTON AVE-24	9641	NOV 01 82	61	378	284	94	174	94	80
	9947	NOV 08 82	170	612	377	235	331	131	200
	153	NOV 13 82	99	598	270	328	317	112	205
	260	NOV 16 82	110	582	398	184	325	174	151
E.STATE & WARD-24	9638	NOV 01 82	19500	57909	57843	66	24576	24527	49
	9953	NOV 08 82	89	1108	898	210	328	181	147
	144	NOV 12 82	99	752	356	396	229	107	122
	218	NOV 16 82	152	649	508	141	341	224	117
E.STATE & WARD GRAB	343	NOV 18 82	1690	59700	59700	44	31900	31900	37

ALL DATA REPORTED IN MG/L

NUMBER AT END OF STATION DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

HAMILTON TOWNSHIP MIPP
GENERAL PARAMETER RESULTS FOR COLLECTION SYSTEM

STATION	BCM SAMPLE NO.	DATE	PH	SPECIFIC CONDUCTANCE (LAB)	NITRATE (AS N)	AMMONIA NITROGEN	TOTAL KJELDAHL NITROGEN	TOTAL PHOSPHATE (AS P)	ORTHO-PHOSPHATE (AS P)
GEO DYE PS-24	9639	NOV 01 82	7.90	818	.88	27.40	51.00	11.00	9.50
	9949	NOV 08 82	7.20	904	1.29	15.10	68.90	15.30	12.20
	140	NOV 12 82	7.10	489	.90	19.60	38.60	7.74	6.17
	266	NOV 16 82	7.80	654	.90	24.80	42.00	7.96	6.58
TAYLOR & PITTMAN-24	9637	NOV 01 82	7.60	821	<.05	41.90	65.40	7.97	6.43
	9946	NOV 08 82	7.10	650	<.05	23.20	38.60	8.12	6.34
	137	NOV 12 82	7.30	644	<.05	23.50	38.60	8.83	6.81
	219	NOV 16 82	8.00	809	<.05	39.20	60.00	8.73	6.39
EMELINE-24	9636	NOV 01 82	7.30	665	.14	29.60	40.50	5.84	4.59
	9948	NOV 08 82	7.50	1120	1.24	71.50	86.60	18.20	15.20
	139	NOV 12 82	7.40	739	<.05	27.80	38.60	10.20	8.72
	265	NOV 16 82	8.10	904	3.59	66.00	71.60	15.50	13.90
WHITEHEAD PS-24	9644	NOV 01 82	6.90	1020	.81	9.12	24.20	10.10	6.61
	9952	NOV 08 82	5.90	668	.17	13.10	55.90	8.55	5.65
	143	NOV 12 82	7.00	831	.56	9.30	22.10	47.60	43.50
	226	NOV 16 82	7.10	1020	.83	8.03	29.20	21.80	19.70
E.STATE PS-24	9642	NOV 01 82	7.00	1440	.92	11.40	26.20	7.84	5.03
	9945	NOV 08 82	6.90	1920	.18	22.00	65.60	25.40	24.60
	136	NOV 12 82	7.50	1023	2.98	12.10	23.80	9.92	7.08
	289	NOV 16 82	7.80	863	.96	10.80	24.80	5.80	4.43
KLUCKNER PS-24	9643	NOV 01 82	7.20	643	<.05	24.80	33.20	5.84	4.59
	9950	NOV 08 82	7.20	694	<.05	26.50	38.60	7.70	6.54
	141	NOV 12 82	7.20	615	<.05	23.20	14.90	6.81	4.61
	220	NOV 16 82	7.40	653	<.05	25.60	35.60	7.44	6.11
YARDVILLE PS-24	9640	NOV 01 82	7.40	799	1.06	44.60	68.40	10.50	8.89
	9951	NOV 08 82	7.40	678	<.05	26.00	36.90	8.80	7.03
	142	NOV 12 82	7.30	673	<.05	23.30	35.60	10.50	7.63
	225	NOV 16 82	7.70	694	95.70	23.50	38.60	9.59	7.42
HAMILTON AVE-24	9641	NOV 01 82	7.40	680	<.05	30.30	44.60	6.01	5.47
	9947	NOV 08 82	7.20	734	<.05	31.80	47.60	9.22	7.66
	153	NOV 13 82	7.20	523	<.05	22.20	38.10	6.98	5.44
	260	NOV 16 82	7.40	666	<.05	27.10	39.40	8.21	6.58
E.STATE & WARD-24	9638	NOV 01 82	5.70	33500	3.15	2.18	8.96	3.10	10.16
	9953	NOV 08 82	7.80	1520	3.17	2.15	11.40	9.98	6.14
	144	NOV 12 82	8.00	437	3.27	1.58	6.24	50.10	25.20
	218	NOV 16 82	7.00	515	9.61	1.20	17.30	14.20	12.90
E.STATE & WARD GRAB	343	NOV 18 82	6.90	30000	<.05	.99	11.80	2.78	7.69

ALL DATA REPORTED IN MG/L EXCEPT:
PH - REPORTED IN STANDARD UNITS
SPECIFIC CONDUCTANCE - REPORTED IN MICROMHOS

[illegible] AT END OF STATION DESCRIPTION INDICATES DURATION OF COMPOSITES FOR SAMPLES TAKEN AT THAT STATION

REFERENCE #5

NUS CORPORATION Ref #5 **TELECON NOTE**

CONTROL NO:	DATE:	TIME:
OZ-8403-5917	3/14/86	~~SAE~~ 1610

DISTRIBUTION:

Cangoleum Background File

BETWEEN:	OF:	PHONE:
Jack Langmuir - Superintendant	Garden State Water Co.	(609) 587-8222

AND: Scott Engle (NUS)

DISCUSSION:

Hamilton Square Water Co is now part of the Garden State Water Co

Four public supply wells are in operation in the Hamilton area, 2 on Paxson Ave, 1 on Surrey Ave, and 1 on Park Ave.

The system provides service to 27,000 people.

Two valves provide emergency access for the city of Trenton to borrow water from the system.

ACTION ITEMS: Called him back 4/3 1600 provided street addresses for the wells.

Paxson: 51 Park Ave. Nottingham (Clay Maple Stack)
Surrey & Robert Frost
Arrowood Dr. & Abbott

NUS 067 REVISED 0581

REFERENCE #6

02-8403-59A/NJYS

NUS CORPORATION RES # 6 **TELECON NOTE**

CONTROL NO:	DATE:	TIME:
02-8403-59A	4/16/86	1125

DISTRIBUTION:

Congoleum
Correspondence File

BETWEEN:	OF:	PHONE:
Bob Rucker	Congoleum Corp	(609) 587-1000

AND: Scott Engle (NUS)

DISCUSSION:

Regarding Providing Material Safety Data Sheets for their major chemical materials.

Those to be sent include: Methyl Ethyl Ketone, Plasticizers (6 major ones), Aromatic 150 (Exxon solvent product), Description of major pigment components, Intercide (Anti-Mildew Agent)

Plastisols and Organisols are composed of Plasticizers and PVC resins - Organisols ~~are~~ have a ~~diluent~~ diluent added. Bob will send a statement on their PVC resins.

# of employees is approximately 400.

ACTION ITEMS:

NUS 067 REVISED 0581

REFERENCE #7

Ref #7

DRAFT

GRAPHICAL EXPOSURE MODELING SYSTEM

(GEMS)

USER'S GUIDE

Prepared for:

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES AND TOXIC SUBSTANCES
EXPOSURE EVALUATION DIVISION
Task No. 4
Contract No. 68016618
William Wood - Project Officer
Loren Hall - Task Manager

Prepared by:

GENERAL SOFTWARE CORPORATION
8401 Corporate Drive
Landover, Maryland 20785

Submitted: June 25, 1984

MASTER AREA REFERENCE FILE (MARF) OF THE 1980 CENSUS

Source

The Master Area Reference File (MARF) is a proprietary product of Donnelly Marketing, Inc., a subsidiary of Dunn and Bradstreet, and is available only to EPA users and to contractors engaged in EPA projects.

Description

The complete corrected MARF of the 1980 Census, with geographic coordinates for small geographic areas, is installed for GEMS on a separate disk pack. It consists of four subfiles, one for each major census geographic region, and is available to users when that disk pack is mounted. The file has a variety of location identification information, including region, state, county, place, census tracts and enumeration districts or block groups (See Figure C-1 for illustrations). It also contains population count by race, the number of occupied and owner-occupied housing units, group quarters, and number of families for all the enumeration districts/block groups for the continental United States, Hawaii, and Alaska.

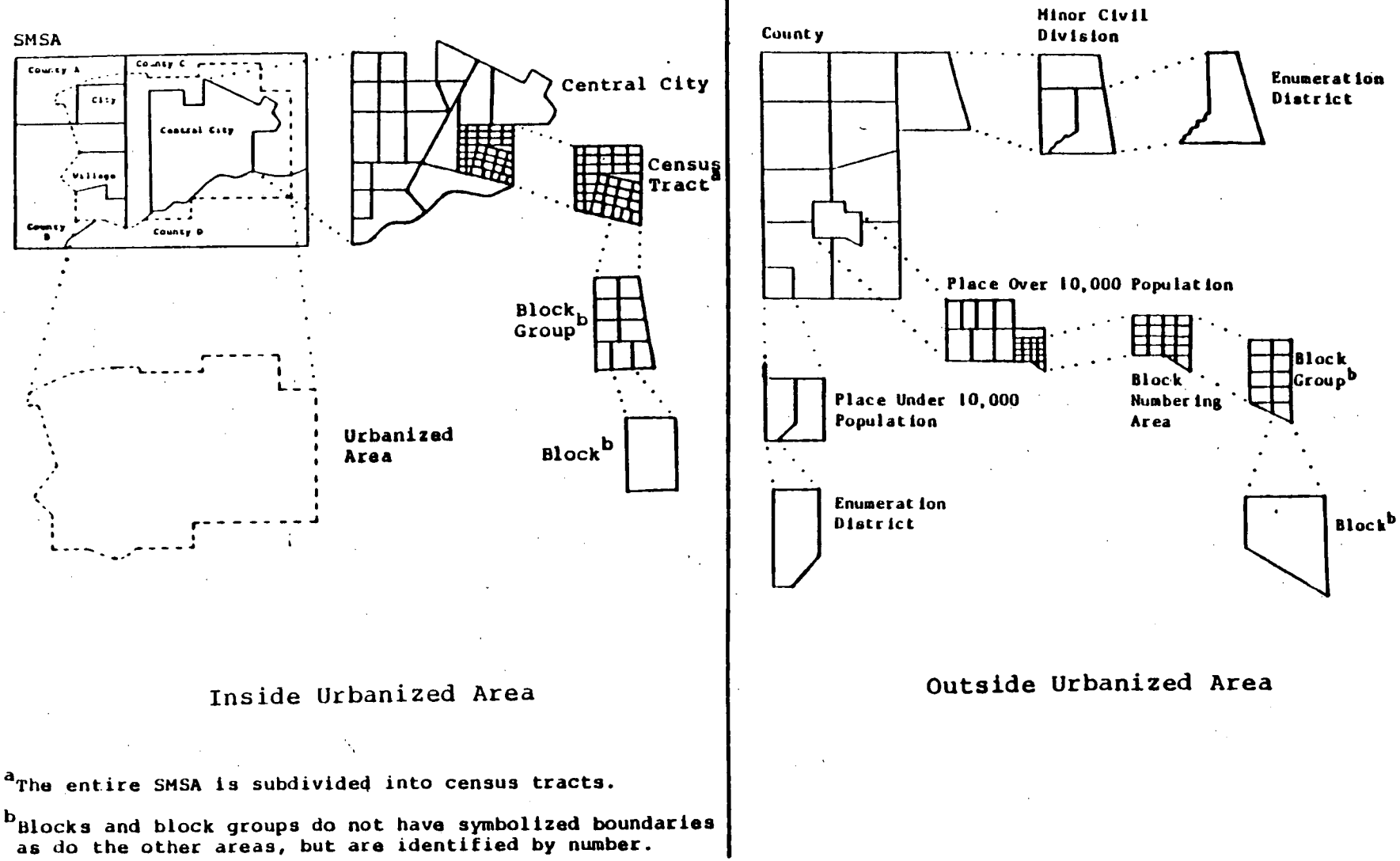
CEDPOP, a subset of the MARF of the 1980 Census, is accessible through GEMS. In addition to total population and household counts, the file includes geographic coordinates for the population-weighted centroid of each census block group or enumeration district (BG/ED) in the file.

Use

The complete MARF 80 Census file, installed in GEMS on a separate disk, is expected to be used heavily by GEMS users to identify household and population by racial groups at any required geographic level. County aggregate populations have already been created from this file.

CEDPOP was interfaced with ATM80 in GEMS to provide estimates of population sizes exposed to concentrations of airborne chemicals around a release site and with BOXMOD80 to provide population estimates within area source regions. The population centroids are identified, and populations are accumulated in sectors (typically the sixteen wind direction sectors) surrounding the center point within a user-specified number of radial distances out from the center.

The CEDPOP file also is accessed by CENSUS DATA and RADII-5 procedures under the GEODATA HANDLING operation in GEMS. CENSUS DATA accumulates population and housing counts by up to ten user-specified radial distances and from one-to-sixteen sectors. The RADII-5 program tabulates the same information (except housing counts) and displays the centroid locations for user-specified circular distances around a center point.



[a]The entire SMSA is subdivided into census tracts.

[b]Blocks and block groups do not have symbolized boundaries as do the other areas, but are identified by number.

Figure C-1. Geographic Hierarchy Inside and Outside Urbanized Areas (UA's)

0018-B
02-8403 54A/NJY5

Ref #8

MENU: Process Census Data by Latitude and Longitude

ref	par-name	parameter description	value	index
1.	LAT	latitude (DDMMSS or degree)	401500	
2.	LON	longitude (DDDMMSS or degree)	744226	
3.	RINGDIST	ring distances in km	6.4	(6)
4.	NSECTORS	number of sectors	1	
5.	DATASET	Name of the output dataset	NJY5	
6.	TAG	tag field of the output dataset	*	

Enter one or more combinations of: reference or parameter name and value(s)
[ref1 value1, ref2 value2, ...] or a command: HELP,NEXT,BACK,END,CLEAR,EXIT
?

Data List of Dataset: NJY5 Number of Records = 6

REC #	POP	HOUSE	DISTANCE	SECTOR
1	0	0	0.400000	1
2	0	0	0.810000	1
3	4712	1571	1.60000	1
4	26870	9850	3.20000	1
5	45124	15514	4.80000	1
6	87840	33114	6.40000	1

Press RETURN to page forward, enter Pnnn to position the starting record of the next page, enter BACK to reselect variables, or enter END to stop
?

REFERENCE #8

Ref # 8

Uncontrolled Hazardous Waste Site Ranking System

A Users Manual

(HW-10)

Originally Published in
the July 16, 1982, *Federal Register*

United States
Environmental Protection
Agency

1984

TABLE 2

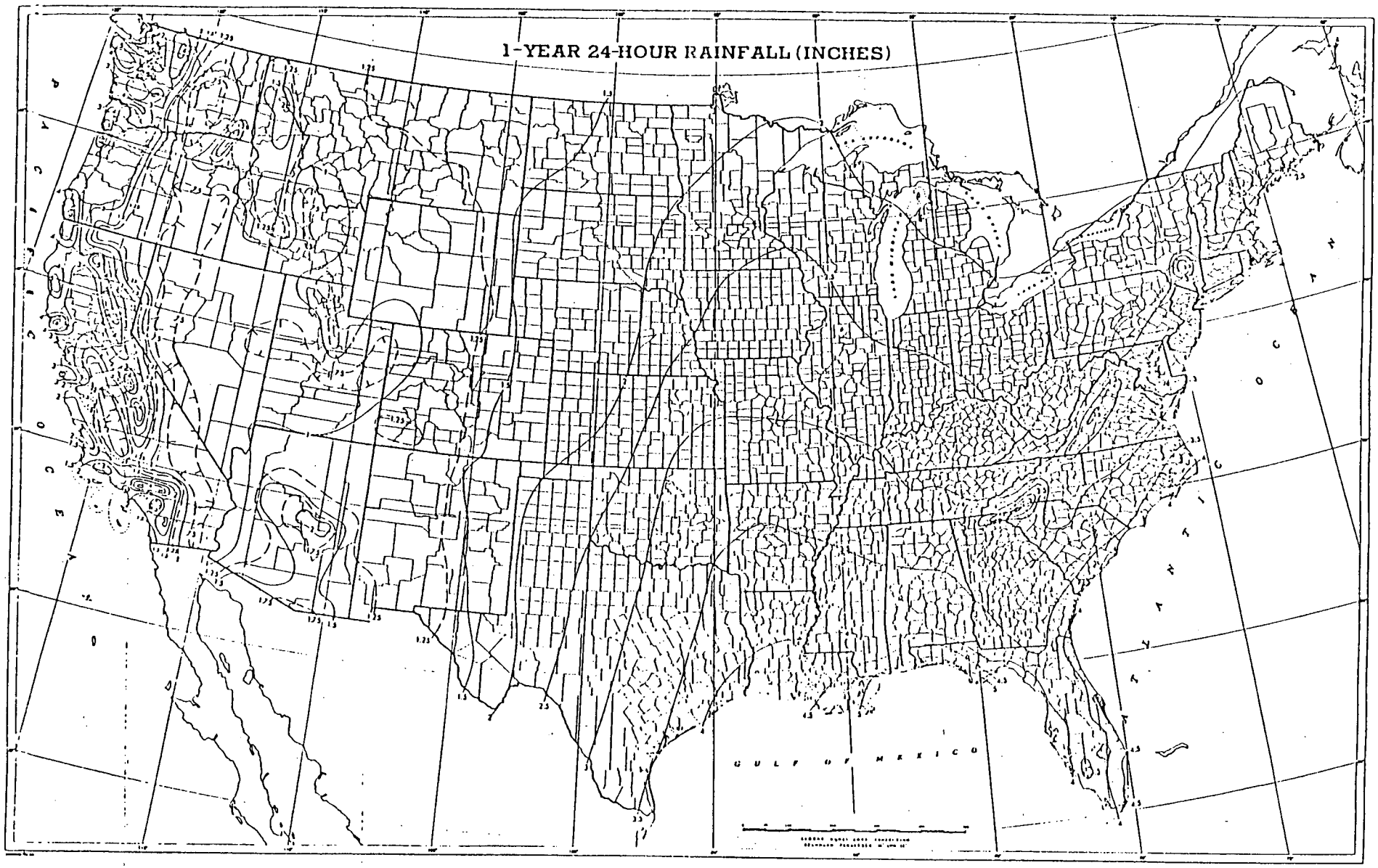
PERMEABILITY OF GEOLOGIC MATERIALS*

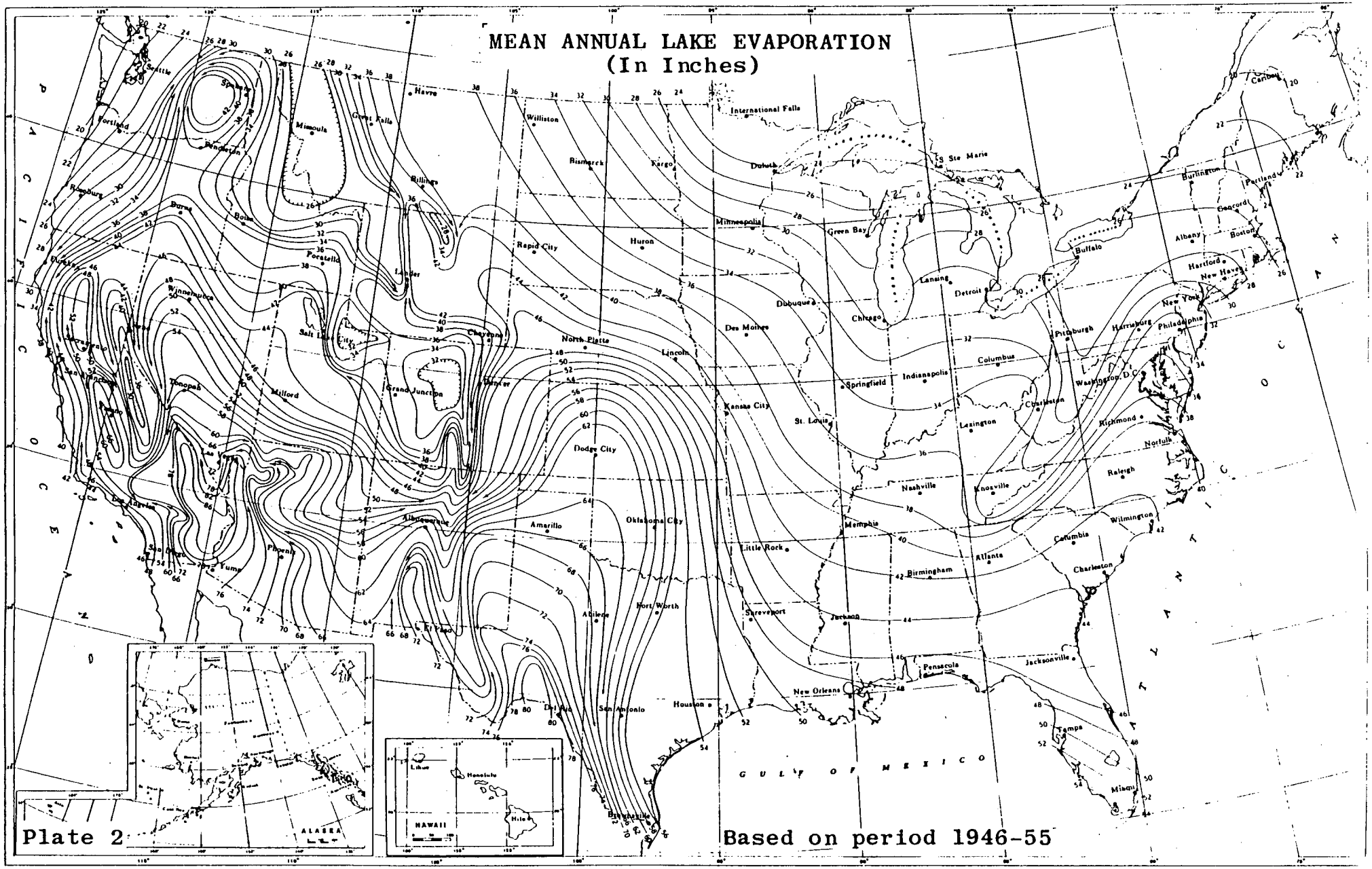
Type of Material	Approximate Range of Hydraulic Conductivity	Assigned Value
Clay, compact till, shale; unfractured metamorphic and igneous rocks	$<10^{-7}$ cm/sec	0
Silt, loess, silty clays, silty loams, clay loams; less permeable limestone, dolomites, and sandstone; moderately permeable till	10^{-5} - 10^{-7} cm/sec	1
Fine sand and silty sand; sandy loams; loamy sands; moderately permeable limestone, dolomites, and sandstone (no karst); moderately fractured igneous and metamorphic rocks, some coarse till	10^{-3} - 10^{-5} cm/sec	2
Gravel, sand; highly fractured igneous and metamorphic rocks; permeable basalt and lavas; karst limestone and dolomite	$>10^{-3}$ cm/sec	3

*Derived from:

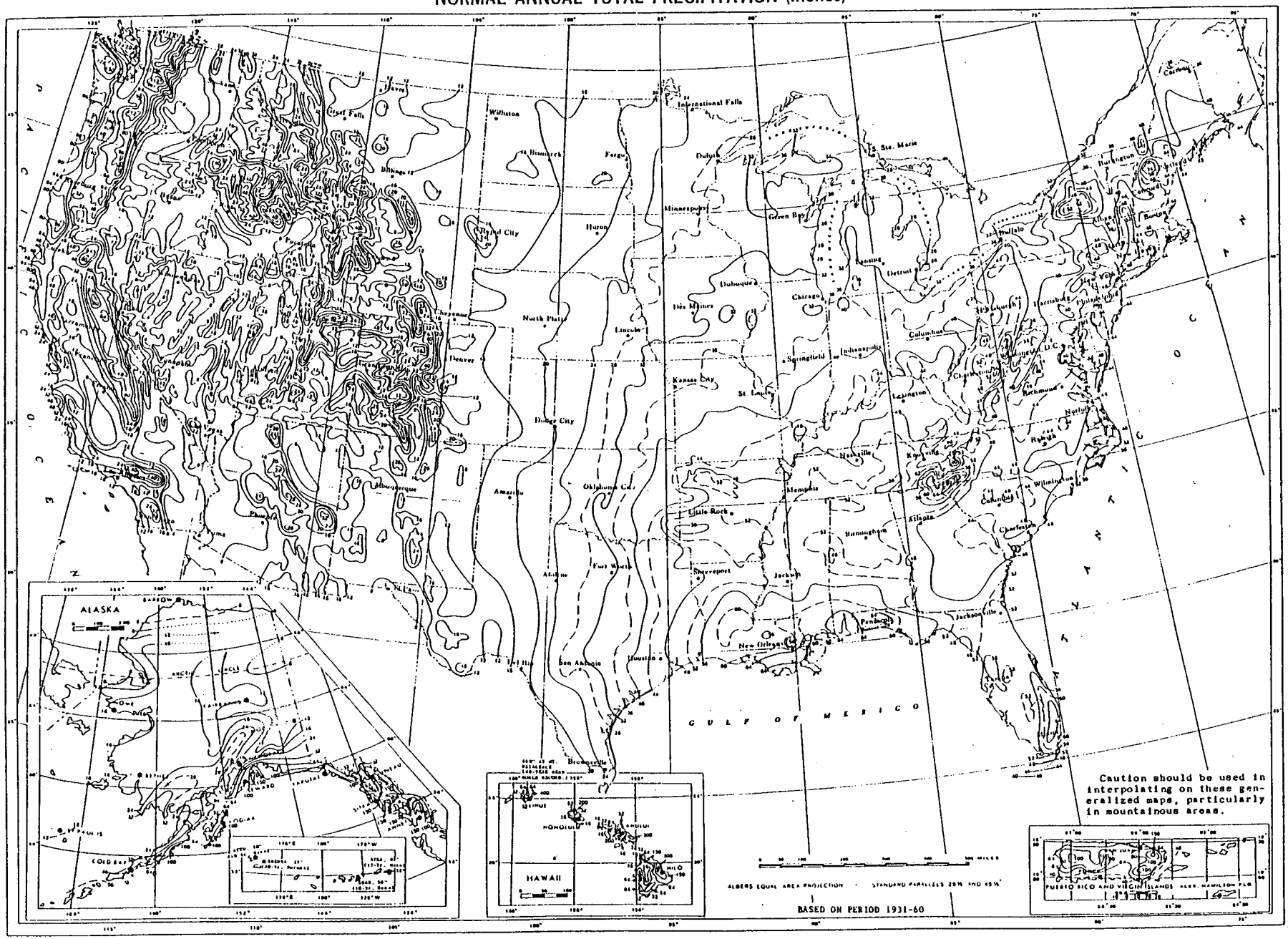
Davis, S. N., Porosity and Permeability of Natural Materials in Flow-Through Porous Media, R.J.M. DeWest ed., Academic Press, New York, 1969

Freeze, R.A. and J.A. Cherry, Groundwater, Prentice-Hall, Inc., New York, 1979


1-YEAR 24-HOUR RAINFALL (INCHES)
GULF OF MEXICO


MEAN ANNUAL LAKE EVAPORATION
(In Inches)
Plate 2
Based on period 1946-55
ALASKA
HAWAII
GULF OF MEXICO
Seattle
Spokane
Portland
Pendleton
Roseburg
Burns
Boise
Elko
Winnemucca
Tonopah
Milford
Salt Lake City
Grand Junction
Winter
Cheyenne
Lander
Pocatello
Missoula
Great Falls
Havre
Billings
Williston
Bismarck
Fargo
Rapid City
Huron
North Platte
Lincoln
Dodge City
Amarillo
Albuquerque
Phoenix
Yuma
Los Angeles
San Diego
El Paso
Abilene
Fort Worth
Oklahoma City
Kansas City
St. Louis
Springfield
Des Moines
Dubuque
Minneapolis
Duluth
International Falls
Green Bay
Chicago
Lansing
Detroit
Buffalo
Pittsburgh
Columbus
Indianapolis
Lexington
Nashville
Knoxville
Memphis
Little Rock
Shreveport
Jackson
New Orleans
Houston
Del Rio
San Antonio
Brownsville
Pensacola
Birmingham
Atlanta
Jacksonville
Tampa
Miami
Charleston
Columbia
Wilmington
Raleigh
Norfolk
Richmond
Washington, D.C.
Harrisburg
Philadelphia
New York
Hartford
New Haven
Albany
Boston
Concord
Portland
Burlington
Ste Marie
Lihue
Honolulu
Hilo

NORMAL ANNUAL TOTAL PRECIPITATION (Inches)



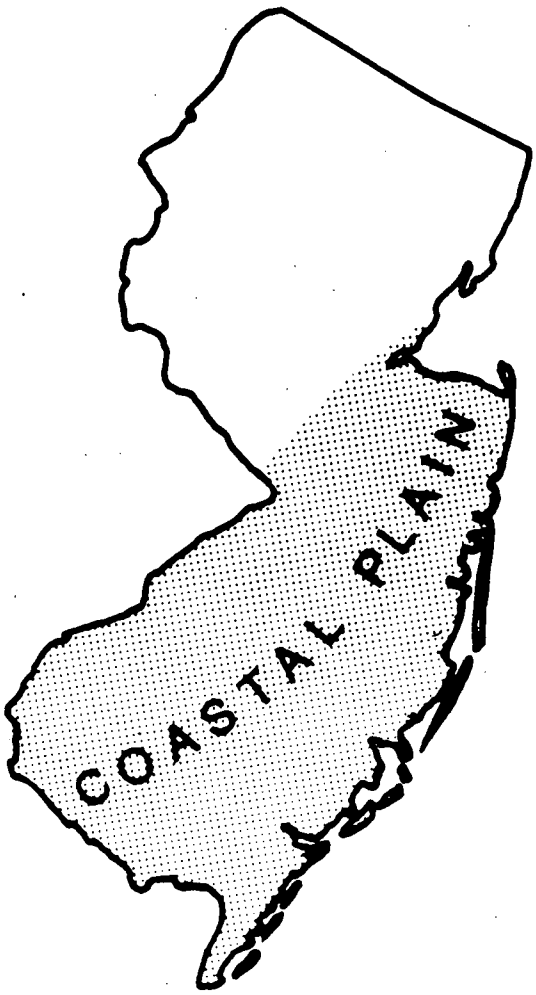
REFERENCE # 10

Ref #10

EVALUATION OF WATER LEVELS IN MAJOR AQUIFERS OF THE NEW JERSEY COASTAL PLAIN, 1978

U.S. GEOLOGICAL SURVEY

Water-Resources Investigations
Report 82-4077



Prepared in cooperation with the

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, DIVISION OF WATER RESOURCES

defined in a narrow band stretching from Burlington County to Salem County, it is not well defined in large areas to the east (Zapecza, written communication, 1982). In this report, the lower and middle aquifers are combined and referred to as the lower aquifer of the Potomac-Raritan-Magothy aquifer system.

Lower Aquifer of the Potomac-Raritan-Magothy Aquifer System

Geohydrology

The lower aquifer of the Potomac-Raritan-Magothy aquifer system consists mainly of undifferentiated sand, gravel, silt, and clay of the Potomac Group undivided and Raritan Formation. In the outcrop area (pl. 1), the aquifer may include younger surficial material. In the northern Coastal Plain, the lower aquifer is primarily the Farrington aquifer described by Farlekas (1979). The lower aquifer includes essentially all water-bearing zones within the aquifer system below the upper aquifer. The aquifer lies unconformably on pre-Cretaceous bedrock, which acts as the lower confining layer.

The upper confining layer, a thick sequence of silt and clay, separates the lower aquifer from the upper aquifer, and underlies much of the Coastal Plain (Zapecza, written communication, 1982). In the northern part of the Coastal Plain, this confining layer is the Woodbridge Clay Member of the Raritan Formation, which has been traced to southern New Jersey (Farlekas, 1979, p. 20).

Withdrawals from the lower aquifer are greatest in the northwestern parts of Burlington, Camden, Gloucester, and Salem Counties and in Middlesex and Monmouth Counties. Withdrawals diminish southward in Burlington, Camden, Gloucester, Ocean, and Salem Counties where the aquifer is at greater depth and contains salty ground water. Chloride concentrations range from 250 mg/L to 27,000 mg/L (Luzier, 1980, p. 10) and generally increase southward or southeastward and with increasing depth. Luzier (1980) discusses salty ground water in the southern part of the Potomac-Raritan-Magothy aquifer system.

Water Levels

Water levels were measured in 386 wells screened in the lower aquifer (table 2). Well density is greatest southwest of Trenton adjacent to the Delaware River and in parts of Middlesex and Monmouth Counties near Raritan Bay. Wells screened in the lower aquifer are sparse in parts of Burlington, Camden, Cumberland, Monmouth, and Ocean Counties, and no wells are known in Atlantic and Cape May Counties.

The potentiometric map on plate 1 shows two large cones of depression. The largest is centered in Camden County, where water levels are as low as 89 ft below sea level. Nearby smaller cones in Burlington, Gloucester, and Salem Counties have heads from 10

to 84 ft below sea level. The other cone of depression is centered in eastern Middlesex and northwestern Monmouth Counties, where levels are as low as 76 ft below sea level. The two cones coalesce in the vicinity of southern Monmouth and northern Ocean Counties, where levels are about 20 ft below sea level.

The highest water levels (65-88 ft above sea level) are adjacent to the outcrop (pl. 1) in central Mercer and Middlesex Counties.

Well 11-137 in eastern Cumberland County is an observation well screened in a saltwater zone in the lower aquifer. In 1974, the chloride concentration was 11,000 mg/L (Luzier, 1980, p. 9). The water level measured in 1978 was 37 ft below sea level. (See table 2 and figure 4.) However, for contouring the heads in plate 1, the water level was adjusted to an equivalent freshwater head of 20 ft below sea level, based on density, temperature, and pressure at the time of measurement. This is the only well in the lower aquifer where an adjustment was required.

Water-Level Fluctuations

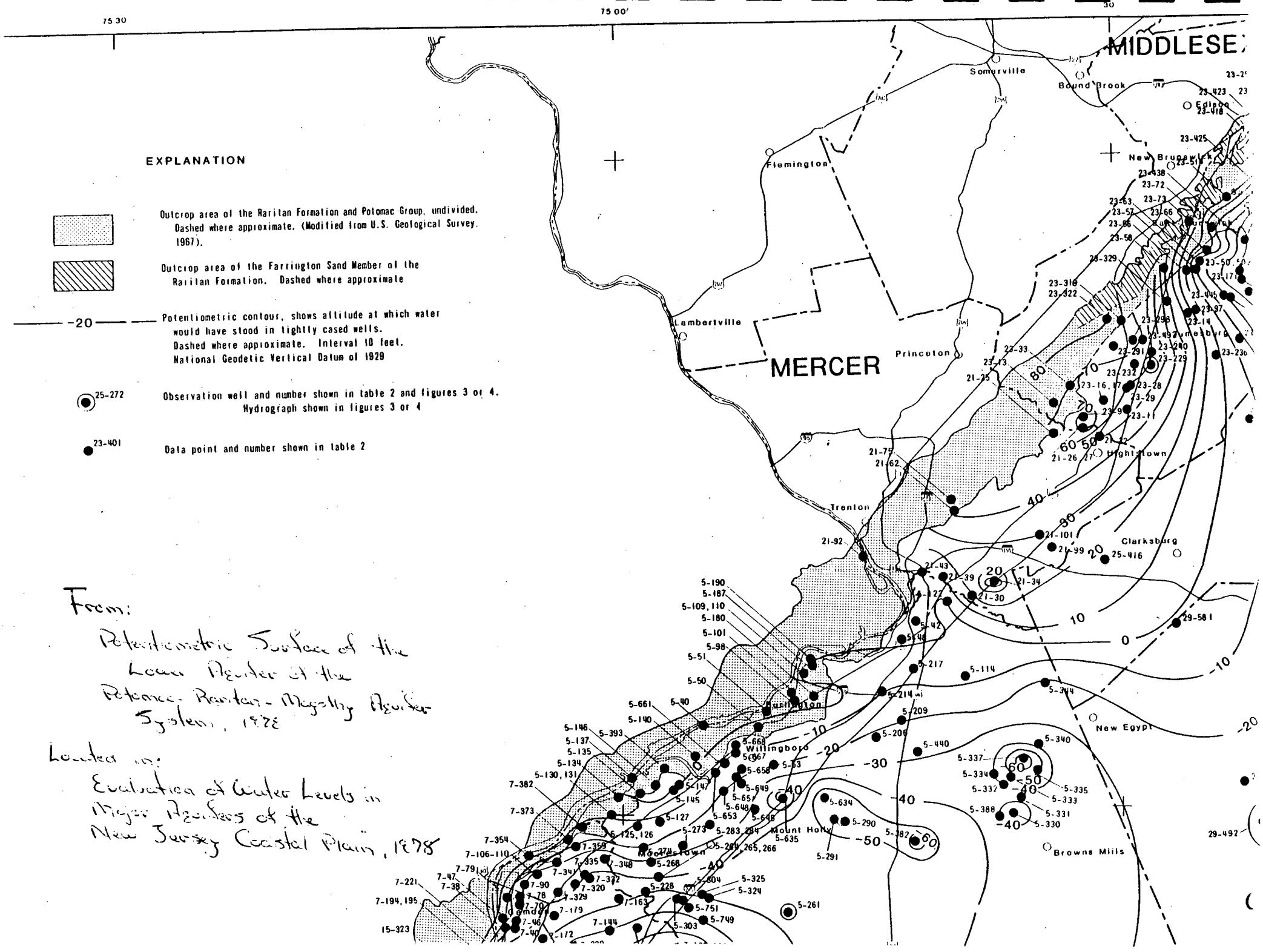
Change in water level from 1973 to 1978 was calculated for 255 of the wells listed in table 2. These changes indicate a general decline in levels in much of the aquifer. Greatest declines (5-20 ft) were generally where the head was lowest.

Large declines, such as in well 5-337 (30 ft), 29-47 (38 ft), and 33-30 (75 ft), are due mostly to changes in local withdrawal. At well sites 29-47 and 33-30, no water was withdrawn from the lower aquifer before 1973. Since 1973, pumping from the lower aquifer at these sites caused large declines. The head decline at well 29-47 (38 ft) is partly related to regional declines. An observation well (29-85) near Toms River, Ocean County, indicates that regional heads declined at least 18 ft. The 75-foot decline noted for well 33-30 in Salem County, which greatly exceeds the 10-foot average decline, is the result of local withdrawal.

The areas of least head change were generally near the outcrop. In a few parts of the aquifer, levels rose in response to reductions in pumping. In a small area north of Pennsville, Salem County, levels recovered as much as 18 ft. Levels in the western part of Camden City, Camden County, recovered an average of 8 ft between 1973 and 1978.

Hydrographs of 10 observation wells screened in the lower aquifer are shown in figures 3 and 4. These hydrographs show a declining trend in water levels throughout the confined parts of the lower aquifer. Well locations are shown on plate 1.

The hydrographs in figure 3 represent wells near large centers of withdrawal and show cyclic seasonal variations combined with a long-term downward trend. The seasonal variations are



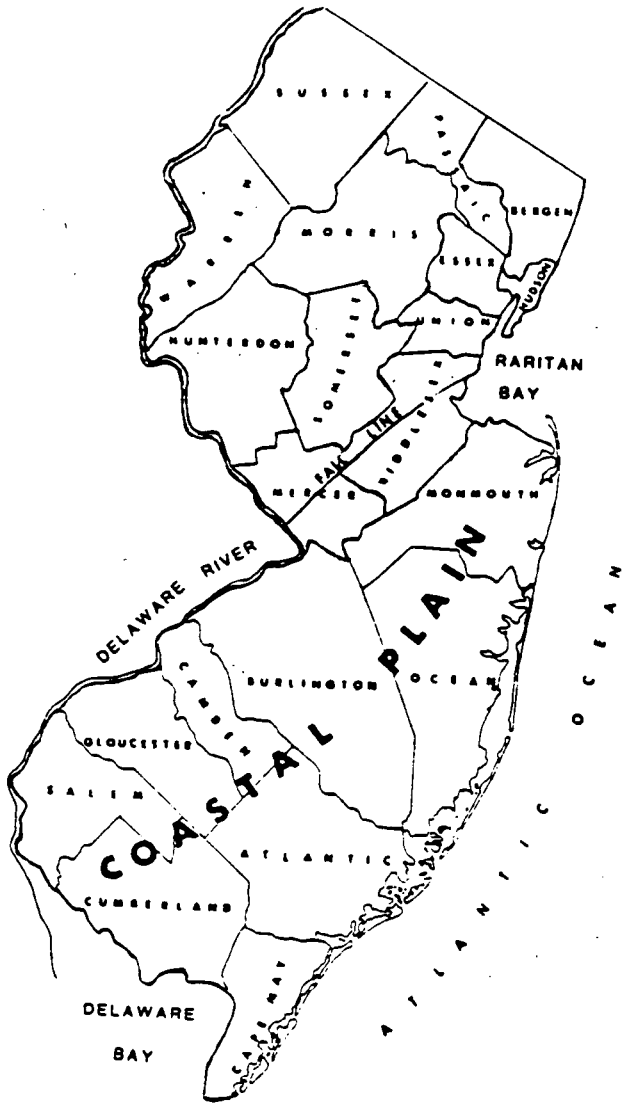
From:
Potentiometric Surface of the Lower Aquifer of the Potomac-Raritan-Magothy Aquifer System, 1978

Located in:
Evaluation of Water Levels in Major Aquifers of the New Jersey Coastal Plain, 1978

REFERENCE # 11

Ref #11

HYDROGEOLOGIC CONDITIONS IN THE COASTAL PLAIN OF NEW JERSEY



U.S. GEOLOGICAL SURVEY

Open-File Report 81-405

Prepared in cooperation with the

U.S. ENVIRONMENTAL PROTECTION AGENCY

REGION II, WATER SUPPLY BRANCH

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EDISON, N.J. 08817

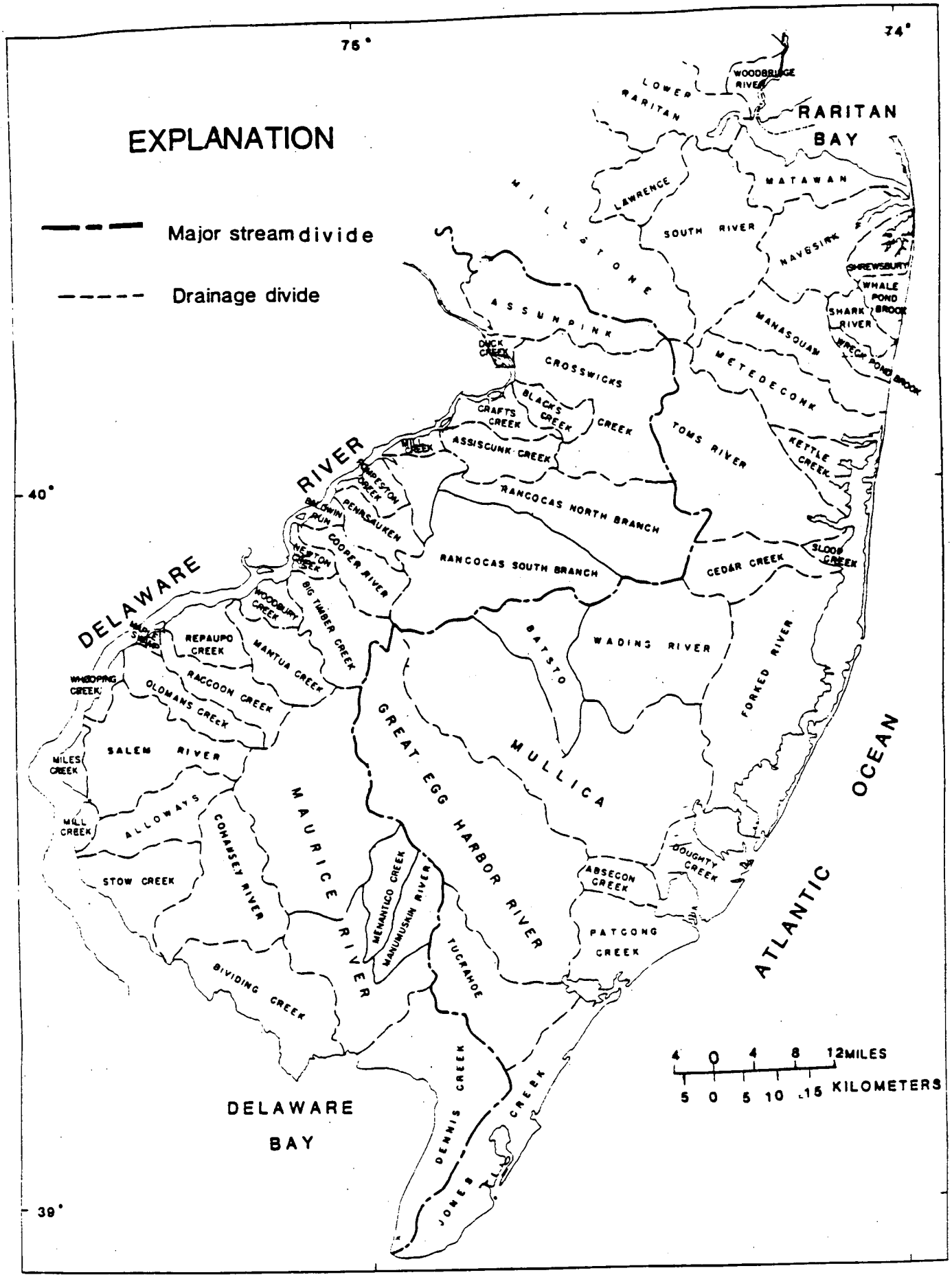

Figure 2-- Drainage basins in the Coastal Plain of New Jersey.

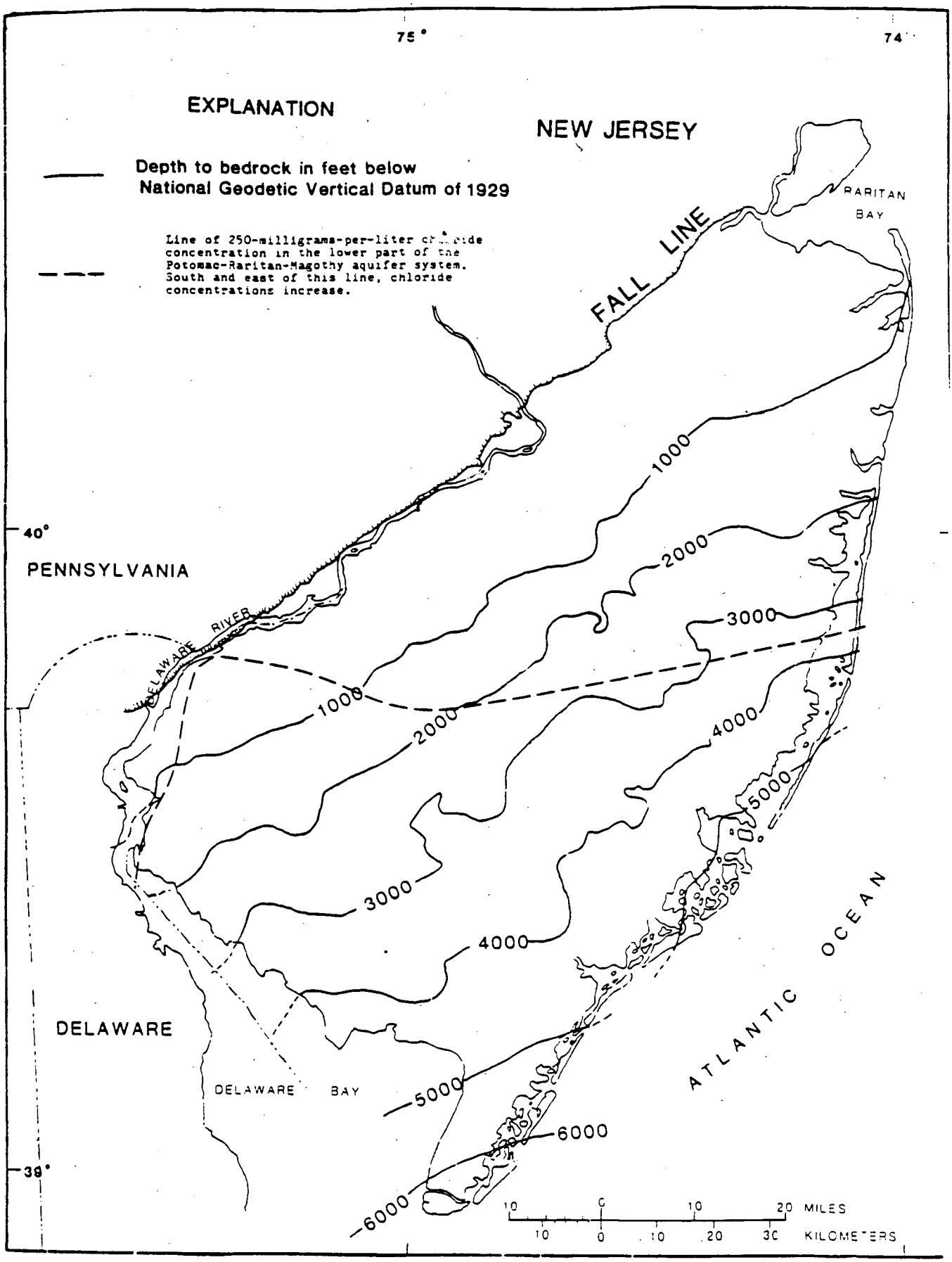

Figure 3--Generalized configuration of pre-Cretaceous bedrock surface below the Coastal Plain of New Jersey.

(Modified from Gill and Farlekas, 1976.)

Table 1--Maximum thickness, lithology, and water-bearing characteristics of geologic formations of the Coastal Plain of New Jersey.

SYSTEM	FORMATION	MAXIMUM REPORTED THICKNESS	LITHOLOGY	WATER-BEARING CHARACTERISTICS
Quaternary	Alluvial deposits	80	Sand, silt, and black mud.	Locally may yield small quantities of water to shallow wells.
	Beach sand and gravel		Sand, quartz, light-colored, medium grained, pebbly.	
	Cape May Formation	200	Sand, quartz, light-colored, heterogenous, clayey, pebbly, glauconitic.	Thicker sands are capable of yielding large quantities of water.
Tertiary	Pensauken Formation			
	Bridgeton Formation			
	Beacon Hill Formation	40	Gravel, quartz, light-colored, sandy.	No known wells tap this formation.
	Cohansey Sand	250	Sand, quartz, light-colored, medium to coarse-grained, pebbly; local clay beds.	A major aquifer. Ground-water occurs generally under water-table conditions. In Cape May, the aquifer is under artesian conditions. Inland from the coast and in the northern part of Ocean County, the upper part of the Kirkwood Formation is in hydraulic connection with the Cohansey Sand.
	Kirkwood Formation	780	Sand, quartz, gray to tan, very fine- to medium-grained, micaceous, and dark-colored diatomaceous clay.	Includes two aquifers. The principal artesian aquifer along the Atlantic Coast is the lower aquifer or the Atlantic City "800-foot" sand. The upper aquifer is artesian in Cape May. In the Atlantic City area it is also artesian but thin (10-20 feet) and not presently being used. Inland from the coast and in the northern part of the coast in Ocean County, the upper aquifer consists of the upper part of the Kirkwood Formation and the Cohansey Sand. Locally may be under semiartesian or artesian conditions.
	Piney Point Formation	220	Sand, quartz and glauconitic, fine- to coarse-grained.	Minor aquifer in New Jersey. Greatest thickness in Cumberland County.
	Shark River Marl	140?	Sand, quartz and glauconite, gray, brown, and green, fine- to coarse-grained, clayey, and green silty and sandy clay.	Locally may yield small quantities of water to wells.
	Manasquan Formation	180		Locally may yield small to moderate quantities of water to wells.
	Vincentown Formation	100	Sand, quartz, gray and green, fine- to coarse-grained, glauconitic, and brown clayey, very fossiliferous, glauconite and quartz calcarenite.	Locally may yield small to moderate quantities of water to wells.
	Hornerstown Sand	35	Sand, glauconite, green, medium- to coarse-grained, clayey.	Locally may yield small quantities of water to wells.
Cretaceous	Tinton Sand	25	Sand, quartz, and glauconite, brown and gray, fine- to coarse-grained, clayey, micaceous.	No known wells tap this sand.
	Red Bank Sand	150		Yields small quantities of water to wells in Monmouth County.
	Navesink Formation	50	Sand, glauconite, and quartz, green, black, and brown, medium- to coarse-grained, clayey.	Locally may yield small quantities of water to wells.
	Mount Laurel Sand	220	Sand, quartz, brown and gray, fine- to coarse-grained, glauconitic.	A major aquifer in the northern part of the Coastal Plain. A sand unit within the two formations forms a single aquifer.
	Wenonah Formation		Sand, quartz, gray and brown, very fine- to fine-grained, glauconitic, micaceous.	
	Marshalltown Formation	30	Sand, quartz and glauconite, gray and black, very fine to medium-grained, very clayey.	Leaky confining bed.
	Englishtown Formation	220	Sand, quartz, tan and gray, fine- to medium-grained; local clay beds.	A major aquifer in the northern part of the Coastal Plain. Two aquifer units in Ocean County.
	Woodbury Clay	325	Clay, gray and black, micaceous.	The two formations form a major confining unit throughout the New Jersey Coastal Plain. Locally the Merchantville may yield small quantities of water to wells.
	Merchantville Formation		Clay, gray and black, micaceous, glauconitic, silty; locally very fine-grained quartz and glauconitic sand.	
	Magothy Formation	4100	Sand, quartz, light-gray, fine-grained, and dark-gray lignitic clay.	Major aquifer system in New Jersey Coastal Plain. In the northern part of the Coastal Plain, two aquifers have been defined. They are the Farrington aquifer (mainly Raritan age) and the Old Bridge aquifer (Magothy age).
	Raritan Formation		Sand, quartz, light-gray, fine- to coarse-grained, pebbly, arkosic, red, white, and variegated clay.	
	Potomac Group		Alternating clay, silt, sand, and gravel.	
Pre-Cretaceous	Pre-Cretaceous Unconsolidated rocks and Wissahickon Formation	?	Precambrian and lower Paleozoic crystalline rocks, metamorphic schist and gneiss; locally Triassic basalt, sandstone, and shale.	Except along Fall Line, no wells obtain water from these consolidated rocks.

Major Aquifers and Confining Units

The wedge of sediment comprises one interrelated aquifer system that includes several aquifers and confining units. In general, aquifers and confining units in the Coastal Plain correspond to the geologic formations presented in table 1. However, the boundaries of the aquifers and confining beds may not be the same as the geologic formations for the following reasons: (1) the formations may change in physical character from place to place and may act as an aquifer in one area or a confining bed in another; (2) some formations are divided into several aquifers and confining beds; (3) adjacent formations may form a single aquifer or confining bed.

There are five major aquifers in the Coastal Plain. They are the Potomac-Raritan-Magothy aquifer system, Englishtown aquifer, Wenonah-Mount Laurel aquifer, lower "800-foot" sand aquifer of the Kirkwood Formation and the Kirkwood-Cohansey aquifer. The major aquifers and their respective confining units are described in ascending order from the bedrock surface.

Overlying the consolidated rocks of the bedrock is the Potomac-Raritan-Magothy aquifer system. This wedge-shaped mass of sediments of Cretaceous age is composed of alternating layers of clay, silt, sand, and gravel. These deposits range in thickness from a featheredge along the Fall Line to more than 4,100 feet beneath Cape May County. The Potomac-Raritan-Magothy aquifer system is exposed in a narrow outcrop along the Fall Line and the Delaware River. The aquifer is confined except in outcrop areas by the underlying crystalline rocks and the overlying Merchantville-Woodbury confining unit. In the northern part of the Coastal Plain, the Potomac-Raritan-Magothy aquifer system is divided into two aquifers. They are the Farrington aquifer (mainly Raritan age) and the Old Bridge aquifer (Magothy age).

A large part of the Potomac-Raritan-Magothy aquifer system in the southern Coastal Plain of New Jersey contains salty ground water with chloride concentrations ranging from less than 250 to as high as 27,000 mg/L (Luzier, 1980). The concentrations of chloride increase with depth as well as toward the ocean. The line of 250 mg/L chloride concentration in the lower part of the Potomac-Raritan-Magothy aquifer system is shown in figure 3.

The Merchantville Formation and Woodbury Clay form a major confining unit throughout most of the Coastal Plain of New Jersey. Although their permeability is very low, the Merchantville-Woodbury confining unit can transmit significant quantities of water when sizeable differences in potentiometric head exist between overlying and underlying aquifers.

The Englishtown aquifer overlies the Merchantville and Woodbury confining unit in the central and northern parts of the Coastal Plain. The aquifer is a significant source of water for Ocean and Monmouth Counties. In northern and eastern Ocean

Not all gross withdrawals represent a loss of water from the hydrologic system of the Coastal Plain. The proportion that is lost (net withdrawal) depends on the type of water use and the method of disposal of used water. Purveyors in Groups A and B usually transport ground water from the withdrawal site to a water treatment plant. After the water is treated and distributed for use, the used water is transported through pipes to a sewage treatment plant or directly to a stream without treatment. Often, the ground water is transported considerable distances from the original point of withdrawal.

Although data is not available, it is known that a large proportion of the ground-water withdrawals by purveyors in Groups A and B (325 Mgal/d) is removed from a point in the ground-water reservoir and discharged to a point in a stream. Some leakage from the distribution systems to the water-table aquifer occurs, but the amount is usually less than 15 percent.

Group C purveyors do not move ground water far from its original source. Water for irrigation of crops generally comes from water-table aquifers. Some water is removed from the ground-water system through evapotranspiration. The water that is not used by crops or evaporated from land surfaces recharges the water table.

Aquifers vary in lithology, thickness, lateral extent, water-bearing characteristics, and saltwater content. The demand for ground water also varies due to changes in population, industrialization, and agriculture. For these reasons, different aquifers are utilized in different areas as the primary source of ground water.

There are five regional aquifers capable of yielding large quantities of water in the Coastal Plain. They are the Potomac-Raritan-Magothy aquifer system, Englishtown aquifer, Wenonah-Mount Laurel aquifer, lower "800-foot" sand aquifer of the Kirkwood Formation and the Kirkwood-Cohansey aquifer. Other aquifers including the Vincentown-Manasquan, Piney Point, and Red Bank are used locally. The importance of the five major aquifers as sources of ground water is shown in figure 11.

The Potomac-Raritan-Magothy aquifer system is the most widely used aquifer in the Coastal Plain, but it is not the primary source of ground water for every county (table 6). The Cohansey and Kirkwood aquifers are the primary sources of ground water in Atlantic, Cape May, and Cumberland County. In these counties the Potomac-Raritan-Magothy aquifer system contains salty water. The Englishtown and Wenonah-Mount Laurel aquifers are productive mainly in the northern and central counties of the Coastal Plain.

REFERENCE # 12

RS 12

GENERALIZED STRUCTURAL CONTOUR MAPS OF THE NEW JERSEY COASTAL PLAIN

GEOLOGIC REPORT SERIES NO. 4

NEW JERSEY GEOLOGICAL SURVEY

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

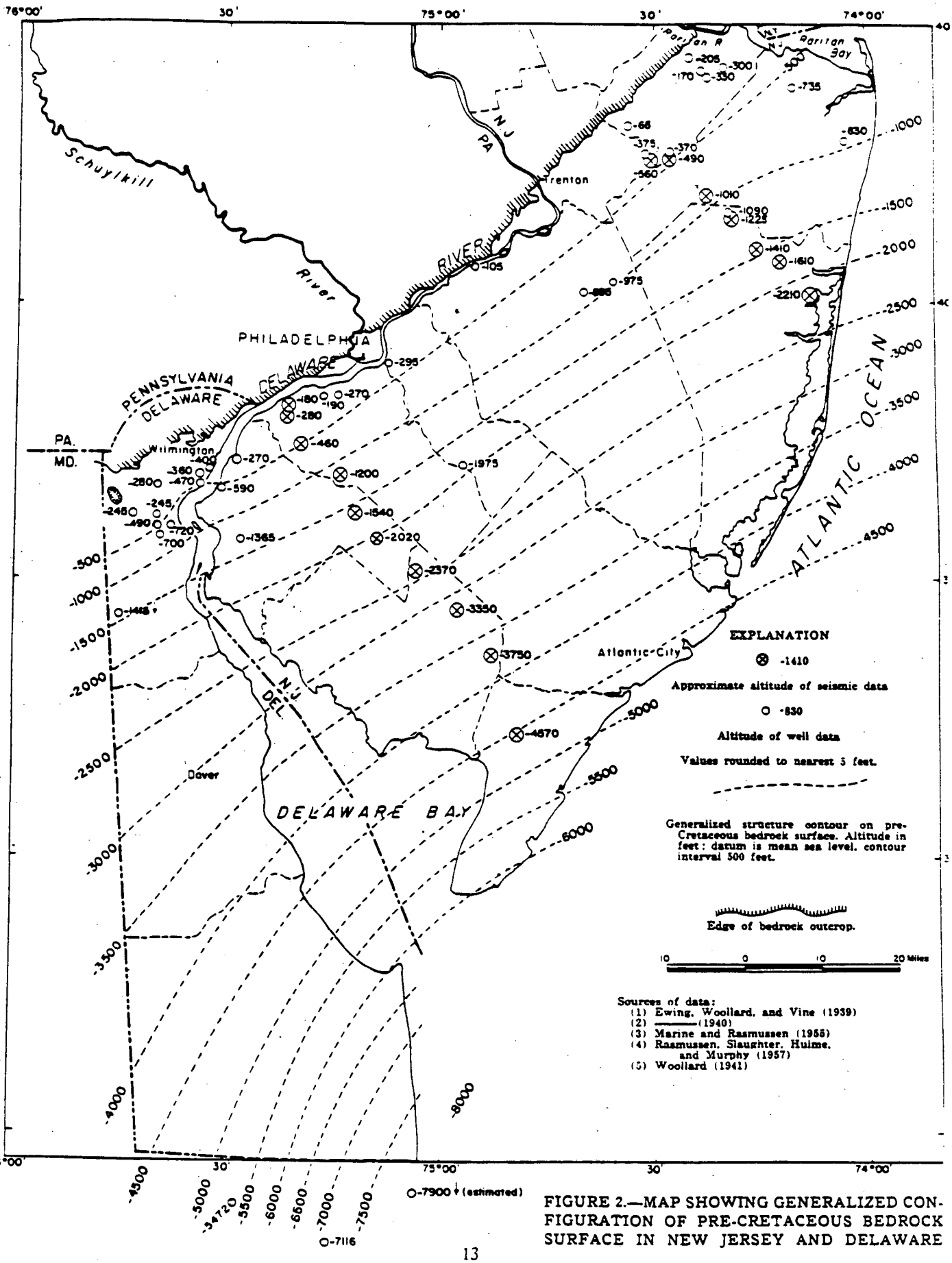

FIGURE 2.—MAP SHOWING GENERALIZED CONFIGURATION OF PRE-CRETACEOUS BEDROCK SURFACE IN NEW JERSEY AND DELAWARE

REFERENCE # 13

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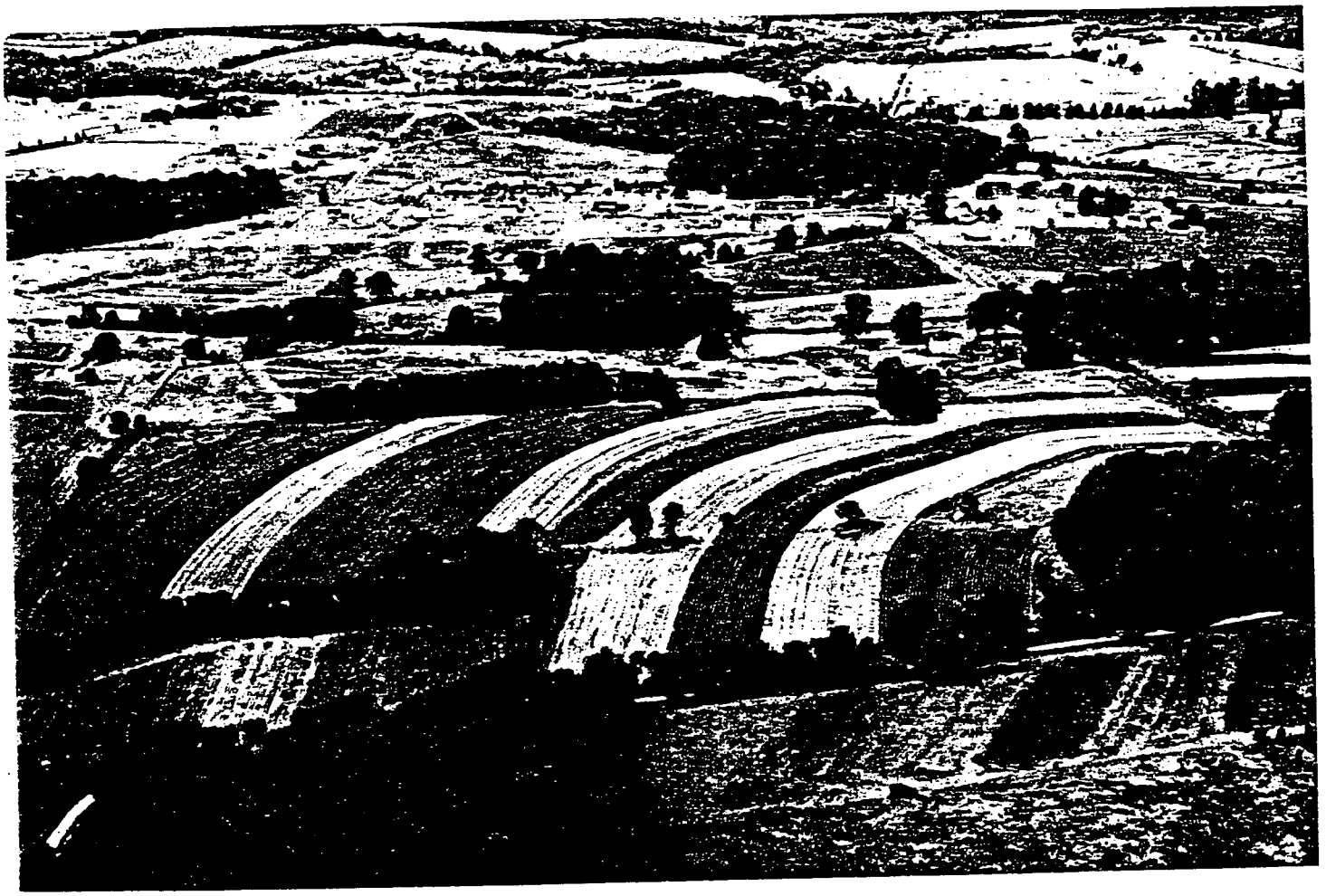
02-3405 514/NJ45

SOIL SURVEY OF

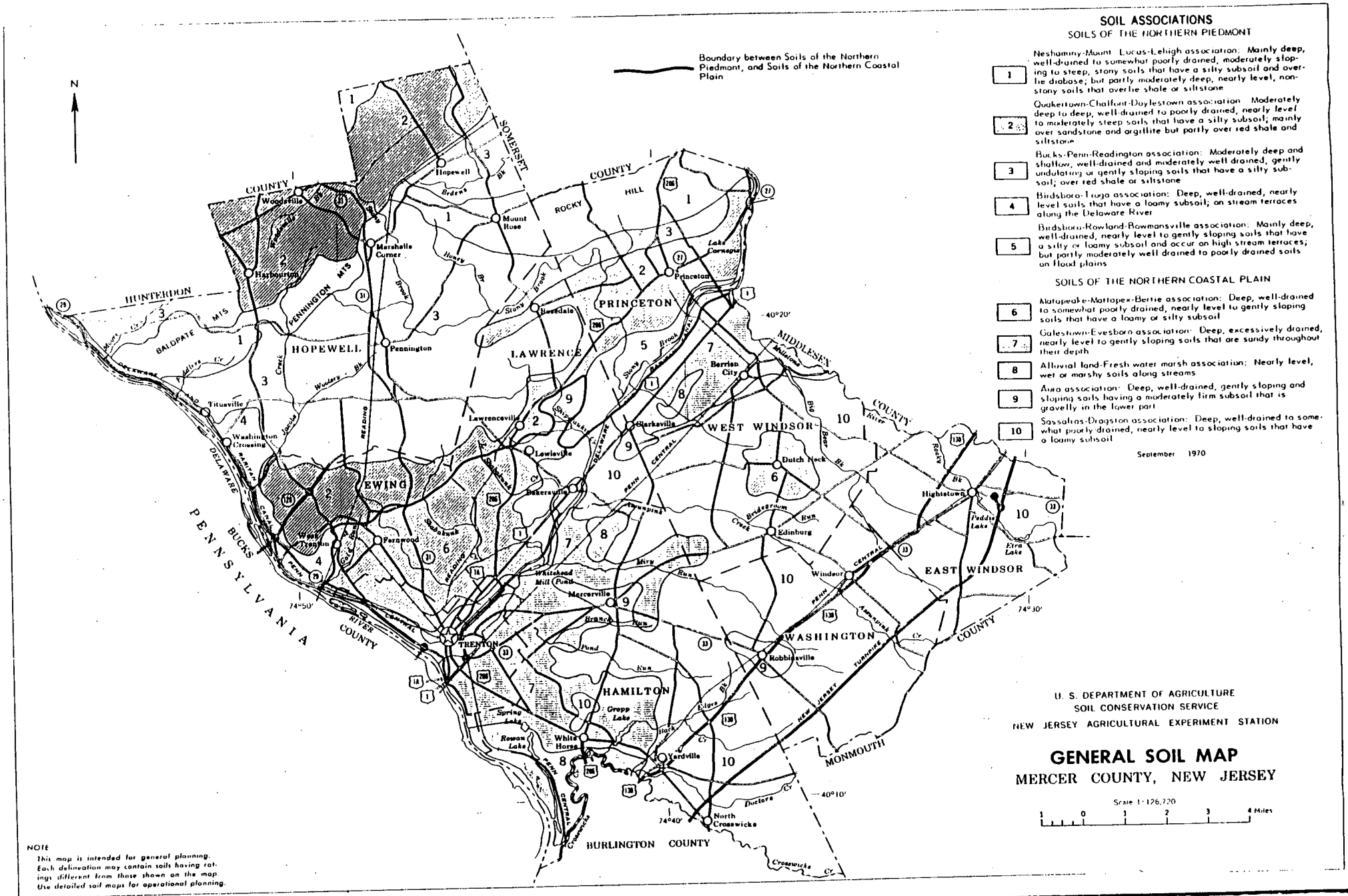
Mercer County, New Jersey



United States Department of Agriculture
Soil Conservation Service

In cooperation with
New Jersey Agricultural Experiment Station

Issued January 1972



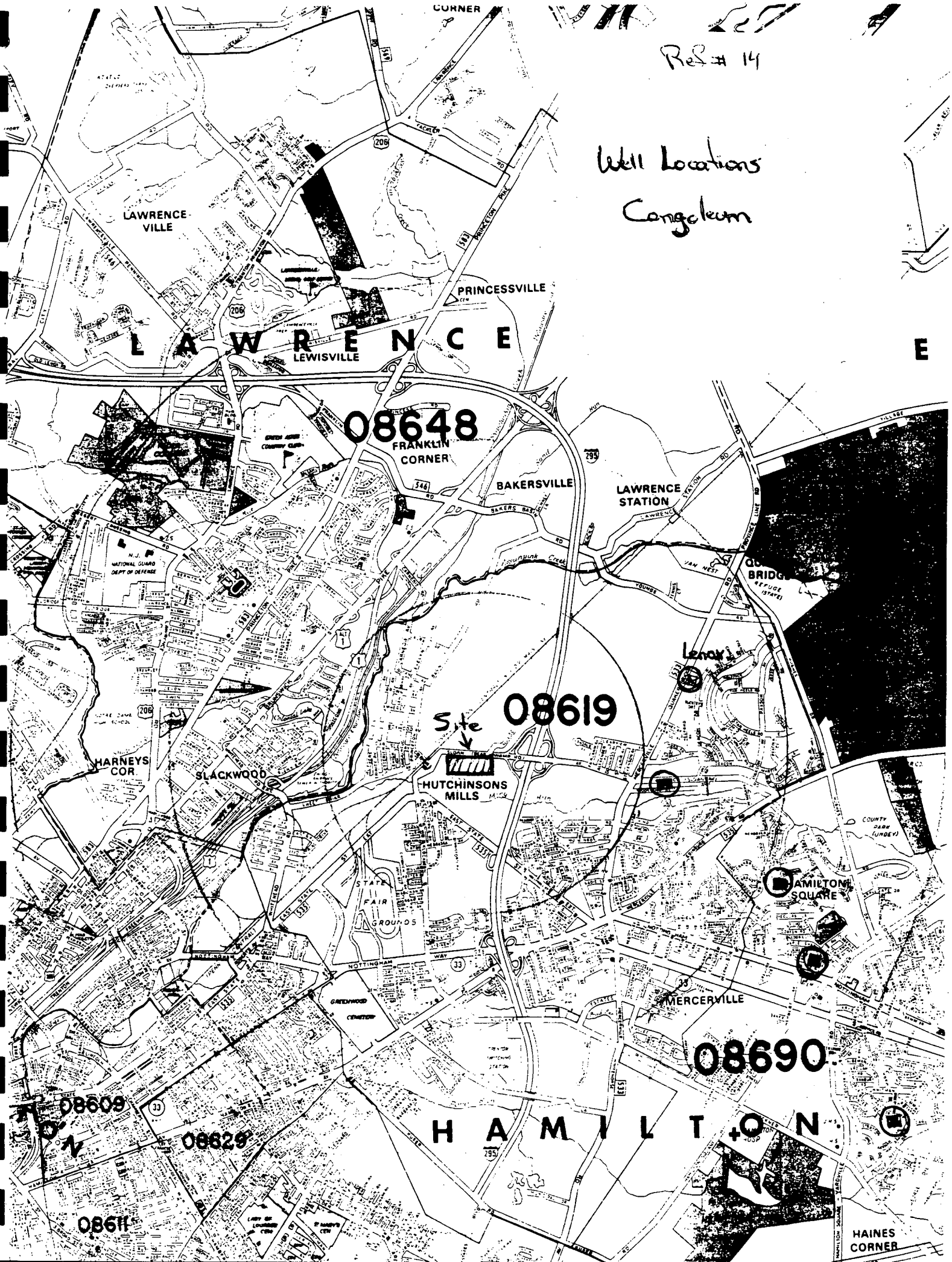
From: Soil Survey of Mercer County, New Jersey USDA

REFERENCE # 14

Ref # 14

Well Locations

Congoleum



DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
Division of Water Policy & Supply

WELL RECORD

Application No.

County

[illegible] Hamilton Sisters Water Co. ADDRESS P. O. Box 103 - Hamilton [illegible], N. J.

SURFACE ELEVATION _____ Feet
(above mean sea level)

[illegible] N. J.

DRILLER A. C. Schultes & Sons

[illegible] Inches [illegible] 16 Inches TOTAL DEPTH 144 Feet

[illegible] X 16 Inches Length [illegible] Feet

[illegible] 10 Inches Length [illegible] Feet

[illegible] Formation

[illegible] Feet

[illegible] Minutes at [illegible] Feet above surface

[illegible] surface

[illegible] 200 Gallons per minute

[illegible] 3 [illegible] Feet below surface

[illegible] surface after 5 hours pumping

[illegible] .1 Gals. per min. per ft. of drawdown

[illegible] How measured Orifice

[illegible]

9. PERMANENT PUMPING EQUIPMENT

[illegible] Capacity 500 Gallons per minute

[illegible] Motor Horse Power 30 R.P.M. 1800

[illegible] 50 Feet Length of Foot piece in well 64 Feet

[illegible] Feet Type of Meter on Pump _____

10. USED FOR Public

AMOUNT { Average _____ Gallons Daily
Maximum _____ Gallons Daily

11. QUALITY OF WATER Good Sample: Yes ✓ No. _____

Taste None Odor None Color None Temperature _____ °F

12. LOG See reverse side Are samples available? _____
(Give details on back of sheet or on separate sheet)

13. SOURCE OF DATA Driller's Log

14. DATA OBTAINED BY A. C. Schultes & Sons DATE 3/17/58

*Note: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

(5)

WELL LOG

Air
Sand - stones
Clay
Sand
[illegible]
Fine sand
[illegible]
[illegible]
[illegible]

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. _____
Application No. _____
County _____

WELL RECORD

1. OWNER Hamilton Square Water Co. ADDRESS 51 Park Ave., Hamilton Square, N.J
Owner's Well No. 2 SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Surry Ave., Hamilton Square, N. J.

3. DATE COMPLETED _____ DRILLER A. C. Schultes & Sons, Inc.

4. DIAMETER: top 16x10 Inches Bottom 10 Inches TOTAL DEPTH 243 Feet

5. CASING: Type Steel Diameter 16" Inches Length 189 Feet

6. SCREEN: Type Johnson S. Size of Opening .060 Diameter 10 Inches Length _____ Feet
Range in Depth { Top 194 Feet, Bottom 243 Feet } Geologic Formation 5'5" - Screen, 17'2" - Blank, 26'5" - Screen
Tail piece: Diameter _____ Inches Length - - Feet

7. WELL FLOWS NATURALLY No Gallons per Minute at - - Feet above surface
Water rises to - - Feet above surface

8. RECORD OF TEST: Date 3/11/63 Yield 618 Gallons per minute
Static water level before pumping 40 Feet below surface
Pumping level 88'6" feet below surface after 8 hours pumping
Drawdown 48'6" Feet Specific Capacity 13.0 Gals. per min. per ft. of drawdown
How Pumped V.T.P. (Test) How measured Orifice
Observed effect on nearby wells None

9. PERMANENT PUMPING EQUIPMENT:
Type V.T.P. Mfrs. Name Worthington
Capacity 400 G.P.M. How Driven Electric H.P. 25 R.P.M. 1800
Depth of Pump in well 104 Feet Depth of Footpiece in well 114 Feet
Depth of Air Line in well 101 Feet Type of Meter on Pump 6" Propel-Flow Size _____ Inches

10. USED FOR Public Supply ? AMOUNT { Average _____ Gallons Daily, Maximum _____ Gallons Daily }

11. QUALITY OF WATER Good Sample: Yes ____ No. ____
Taste None Odor None Color Clear Temp. _____ °F

12. LOG See Reverse Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY A. C. Schultes & Sons, Inc. Date Apr. 8, 1963

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

Well Log	Feet From Ground Surface
Top Soil	0 - 3'
Black Mud	3 - 5'
Sand	5 - 20'
Clay, white	20 - 24'
Sand	24 - 31'
Clay	31 - 33'
Sand	33 - 81'
Clay	81 - 83'
Sand mixed with clay streaks	83 - 96'
Clay	96 - 97'
Sand	97 - 98'
Hard black Clay	98 - 105'
Clay	105 - 119'
Clay, sand	119 - 127'
Clay	127 - 128'
Sand and Clay	128 - 135'
Sand (Logger - Clay 162 - 192')	135 - 164'
Clay, red and white	164 - 182'
Sand (Logger - Sand 192 - 205')	182 - [illegible]
Clay (Logger - Clay 205 - 213')	204 - 216'
Sand - laminated (Logger - Sand 213 - 260')	216 - 231'
Clay	231 - 243'
Sand	243 - 248'
Clay	248 - 269'
Weathered Rock	269 -

RECEIVED
APR 25 1963
DEPT. OF NAT. RESOURCES & ECONOMIC DEVELOPMENT
GEOLOGIC & TOP. SURVEY

WELL LOG

Coordinates: 28.22.[illegible].5.1
Permit No.: 28-4602
Owner: Hamilton Square Water Co.
Well Location: Surry Ave., Hamilton Square
Driller: A. C. Schultes & Sons, Inc.
How Drilled: Rotary
(cable tool, rotary, etc.)
Logged by: Henry P. Paul II
Date Logged: May 10, 1963

Depth (Feet)	Description	Correlation
5 - 15	Sand Medium to coarse, sub-angular to sub-rounded partially iron stained quartz grains. Few medium, sub-rounded, dark green to black grains.	
[illegible] - 25	Sand Same as above with medium, sub-rounded white feldspar grains.	
[illegible] - [illegible]	Sand Same as 1[illegible] - 25	
[illegible] - [illegible]	Sand Fine to medium, angular to sub-angular partially iron stained quartz grains ± feldspathic.	
[illegible] - [illegible]	Sand Same as [illegible]5 - 45. One small pebble of biotite gneiss.	
[illegible] - [illegible]	Sand Same as [illegible] - 45. Medium pebbles of milky quartz, briotite gneiss and iron stained quartz.	
[illegible] - [illegible]	Sand Same as [illegible] - 45. Small pebbles of briotite gneiss.	
[illegible] - [illegible]	Sand Medium to coarse, sub-angular to sub-rounded partially iron stained, quartz grains. Large grains briotite gneiss. ± Feldspathic.	
[illegible]0 - [illegible]8	Same as 75 - 90 without biotite gneiss grains.	
[illegible]8 -105	Medium to coarse, sub-angular to sub-rounded, partially iron stained quartz grains. Small, sub-angular, pebbles, both sedimentary and igneous origin. Matrix material held together with gray micaceous clay.	
105 -119	Same as 98 - 105. Matrix held togetherwith light gray clay.	
119 -135	Same as 105 - 119.	
135 -140	Medium to coarse sub-angular to sub-rounded, partially iron stained quartz grains with smaller amount of light gray clay. Few sub-rounded dark green grains.	
140 -145	Same as 135 - 140.	
145 - 150	Same as 135 - 140 with less clay.	
150 - 160	Same as 145 - 160.	

160 - 164	Medium to coarse, sub-angular to sub-rounded, partially iron stained quartz grains with few musconite flakes ± sub-rounded heavy mineral grains.
164 - 182	Light to dark gray clay with thin iron stained layers. Fine to coarse, sub-rounded quartz grains. Few limonitic granules.
[illegible] - 192	Fine to medium, sub-angular to sub-rounded, partially iron stained quartz grains. Medium, sub-angular limonitic cemented grains and pyrite granules.
[illegible] - [illegible]	Same as 182 - 192.
[illegible] - [illegible]	Same as 182 - 192
[illegible] - [illegible]	Medium to coarse, sub angular to sub-rounded, partially iron stained. Limonite cemented granules. Few biotite flakes and pyrite granules.
[illegible] - [illegible]	Same as 204 - 214.
[illegible] - [illegible]	Same as 204 - 214.
[illegible] - [illegible]	Medium to very coarse, sub-angular to sub-rounded, [illegible] iron stained quartz. Limonitic cemented granules ± pyrite.
[illegible] - [illegible]	Same as above with chlorite granules and muscanite flakes
[illegible] - [illegible]	Light gray to white clay with small flakes of muscovite, limonite cemented pebbles and decomposed bedrock.

Permit No. [illegible]

Application No. [illegible]

County _____

Well #3

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT
Division of Water Policy & Supply

WELL RECORD

1. OWNER [illegible] Water Co. ADDRESS Hamilton Square, N.J.
   Owner's Well No. _____ SURFACE ELEVATION 100 Feet (Above mean sea level)
2. LOCATION Replacement Well #3 Park Ave.
3. DATE COMPLETED 10/[illegible]/[illegible] DRILLER ~~Louis K. Bainbridge~~
4. DIAMETER: Top 8" Inches Bottom 8" Inches TOTAL DEPTH 218' Feet
5. CASING: Type Steel Drive Pipe Diameter 8" Inches Length 134' Feet
6. SCREEN: Type [illegible] Size of Opening [illegible] Diameter 8" Inches Length 26½' Feet
   Screen Depth: Top [illegible] Feet Bottom [illegible] Feet Geologic Formation Sand (Raritan)
   Tail piece: Diameter [illegible] Inches Length [illegible] Feet
7. WELL FLOWS NATURALLY Gallons per Minute at [illegible] Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping 55' Feet below surface
   Pumping level [illegible] feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped Air Turbine Deep Well How measured _____
   Observed effect on nearby wells None
9. PERMANENT PUMPING EQUIPMENT:
   Type Turbine Capacity ~~600~~ 300 Gallons per minute
   How Driven 50/H.P. Electric Motor Horse Power 50 R.P.M. 1750
   Depth of pump in well 150 Feet Depth of Foot piece in well ~~20~~ Feet
   Depth of Air Line in well 120 Feet Type of Meter on Pump _____
10. USED FOR Public Utility AMOUNT { Average _____ Gallons Daily; Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No. _____
    Taste _____ Odor _____ Color _____ Temperature _____ °F
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet)
13. SOURCE OF DATA _____
14. DATA OBTAINED BY ~~Louis K. Bainbridge~~ DATE ~~10/28/54~~

(Note: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

14

10

2P-2C-4 2P-22-41

Description by [redacted]

Sheet 100'

[redacted] Water Company by Louis H. [redacted], [redacted] 3" [redacted]

10'	Pale yellowish-orange, silty, slightly clayey, mixture with sub fine-coarse sand. [redacted] fine-coarse sand, [redacted] quartz. [redacted] noted [redacted] Little magnetite and/or ilmenite Few grains glauconite " " feldspar	Pennsylvanian
20'	Pale yellowish-orange mixture of pebbles to 1/2", fine-medium sand and silt.	
30'	Dark yellowish-orange, fine-medium sand with scattered coarse grains. Grains sub-angular to rounded. [redacted] grains of [redacted], few grains of [redacted]. Noted small dark [redacted], [redacted]. [redacted] do any welding on job. Also noted brown residual mineral in sand. Hornblende or spinel.	
40'	Yellowish-brown dirty fine-medium sand with scattered coarse grains. Several angular ironstone concretion fragments, 1 quart: pebble 1 1/2" x 1".	
50	Yellowish-brown ironstone concretion with many quartz pebbles.	Y
60	Mixture of small 1/4" pebbles and grayish-pink clay.	Raritan
70	Slightly clayey and silty medium-coarse sand with many 1/4" pebbles. Mainly sub-rounded quartz. Noted some cherts. Poorly sorted.	
80	Grayish-yellow, fine corn meal sand with scattered bits of silty clay and cemented sand nodules. Also scattered coarse grains.	
90	Same as 80'. Many more coarse grains.	
100	Very pale orange, fine, clean, angular - sub-angular, 'corn meal' sand.	
110	Same as 100'. Scattered coarse grains and 1/4" pebbles.	
120	Pale orange, fine to medium clean angular to sub-rounded sand. Scattered coarse grains. Few white clay-like nodules appear to be decomposed feldspars.	
130	Very pale orange, fine clean well sorted sand with scattered black non-magnetic minerals.	
140	Medium gray, silty, fine, somewhat dirty, sand.	
150	Yellowish-gray, quite clean, fine sand. Scattered coarse grains.	
160	Light gray, silty, fine-coarse sand. Scattered pebbles to 1/8". Grains angular to sub-angular.	
165	Yellowish-gray, fine-medium sand. Scattered coarse grains, pp-stained white fragments and ironstone pebbles.	
168-172	Yellowish-gray, clean, medium-coarse angular - sub-angular sand.	
170	Yellowish-gray, clean, fine-coarse sand. Grains angular to sub-angular.	
174-184	Grayish-white silty medium-coarse sand. Still sharp between fingers when dry. Scattered pebbles to 1/8".	
180-195	Grayish-white silty clay. Feels sharp and gritty before and after wetting.	

Y

28-22-411

28-230- [illegible] Drilling Company by [illegible]

194-[illegible] Varicoloured (light other) [illegible] to [illegible] Some as [illegible]. [illegible] Very light [illegible] [illegible] [illegible]

9 0 0 0 / 8 8

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

WELL RECORD

OWNER [illegible] Square Water Co. ADDRESS Hamilton Square, [illegible]

Owner's well No. [illegible] SURFACE ELEVATION _____ (Above mean sea level)

[illegible] Hamilton Square, N.J.

[illegible] DRILLER Wm. Stothoff [illegible]

[illegible] Diameter _____ Inches TOTAL DEPTH _____ Feet

[illegible] Diameter 10 Inches Length [illegible] Feet

[illegible] Diameter 10 Inches Length [illegible] Feet

[illegible] Geologic Formation [illegible]

[illegible] Inches Length _____ Feet

[illegible] Gallons per Minute at _____ Feet above surface

[illegible] Feet above surface

[illegible] Yield 450 Gallons per minute

[illegible] Feet below surface

[illegible] Feet below surface after 8 hours pumping

[illegible] Specific Capacity _____ Gals. per min. per ft. of drawdown

[illegible] How measured orifice

[illegible] wells none

PERMANENT PUMPING EQUIPMENT:

[illegible] Mfrs. Name _____

[illegible] G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet _____ Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet _____ Depth of Meter on Pump _____

USED FOR [illegible] west well AMOUNT Average _____ Gallons Daily

Maximum _____ Gallons Daily

11. QUALITY OF WATER _____ Sample: Yes ____ No. ____

Taste none Odor none Color clear Temp. _____ °F

12. LOG See other side Are samples available no

(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)

13. SOURCE OF DATA Well Statement.

14. DATA OBTAINED BY H.J.Stothoff Date Jan 20, 1958

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

(13) Hamilton

Record of well
10" well 230' deep.
Drilled and drove 10" pipe to 200' from the surface and then drilled open hole to 230' and placed 30' - 10" Johnson screen between 200' & 230' Used 15' - # 20 slot and 15' 7" slot screen. with plug and packer.

Formation

0' - 20' yellow sand & clay
20' - 30' gray clay
30' - 50' yellow sand
50' - 55' white clay
55' - 60' fine yellow sand & clay
60' - 72' coarse yellow sand
72' - 76' white clay
76' - 78' red clay
78' - 100' fine white sand
100' - 110' fine white sand
110' - 115' yellow sadd
115' - 118' fine white sand
118' - 120' gray clay
120' - 140' sand & clay
140' - 150' fine white sand
150' - 160' white clay
160' - 165' red clay
165' - 230' fine & coarse sand with some clay & quarts

Test on well with turbine pump 160' setting flow 4[illegible] gallons per minute drawdown 160' from the surface.
Static water level 37' from the surface.
Well drilled Oct 25-57 - Jan 16 1958

RECEIVED
JAN 21 1958
Department of Conservation & Economic Development Geology & Water Survey

28 21 3996

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. _____
Application No. _____
County _____

WELL RECORD

OWNER HAMILTON SQUARE WATER COMPANY ADDRESS 51 Park Ave., Hamilton Square, N.

Owner's well No. 4 SURFACE ELEVATION _____ Feet (Above mean sea level)

Location Park Avenue, Hamilton Square, N. J.

Date completed June 6, 1969 DRILLER A. C. SCHULTES & SONS, INC.

Casing: Top 15" Inches Bottom 12" Inches TOTAL DEPTH 213' Feet

Casing: Steel Diameter 18x12" Inches Length 18"=157'10" 12"=165'0" Feet

Screen: Johnson Stainl. Steel Size of Opening .060 Diameter 12" Inches Length 32 Feet

Screen Depth: Top 165 Feet Bottom 213 Feet Geologic Formation _____

Gravel Packed: Diameter _____ Inches Length _____ Feet

Artesian Flow NATURALLY _____ Gallons per Minute at _____ Feet above surface

Water level _____ Feet above surface

Pump Test: Date June, 1969 Yield 1200 Gallons per minute

Static water level before pumping 59'-5" Feet below surface

Pumping level 91'-9" feet below surface after 6½ hours pumping

Drawdown 32'4" Feet Specific Capacity 38 Gals. per min. per ft. of drawdown

How pumped Vertical Turbine Pump How measured 8" x 6" Orifice

Observed effect on nearby wells None

PERMANENT PUMPING EQUIPMENT: None Under This Contract

Type _____ Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR Public Supply ? AMOUNT { Average _____ Gallons Daily; Maximum _____ Gallons Daily }

11. QUALITY OF WATER Good Sample: Yes _____ No. _____

Taste None Odor None Color Clear Temp. _____ °F

12. LOG See Attached Are samples available? _____

(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)

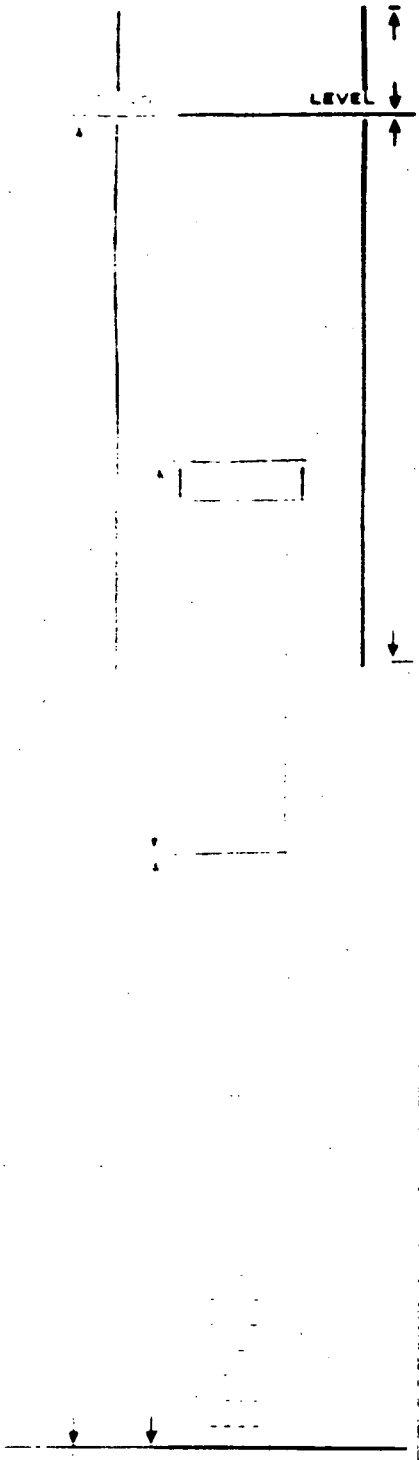
13. SOURCE OF DATA Driller's Log

14. DATA OBTAINED BY A. C. SCHULTES & SONS, INC. Date 6/13/69

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

A.C. SCHULTES & SONS INC.

GRAVEL PACKED WELL



	FEET FROM GROUND SURFACE		
	DATE		HAMILTON SQUARE WATER CO.
Fill dirt	0 - 5'		Park Avenue
Med. brown sand	5 - 8'	Well No.	4
Fine/med. brn. sand	8 - 12'	Job No.	7778
Med./fine sand	12 - 17'	Test Pumped Hrs.	7
Fine/med. sand	17 - 24'	Capacity G.P.M.	120
Streaks of hard pan, sand	24 - 27'	Pumping Level Rotary Table*	59'-2"
Coarse/med. sand	27 - 34'	Pumping Level Rotary Table*	70'-0"
Clay, hard pan	34 - 36'	Specific Capacity	40
Hard packed sand	36 - 38'	Diameter of Outer Casing	18"
Clay, streaks of hard pan	38 - 49'	Diameter of Inner Casing	12"
Hard clay	49 - 74'	Depth of Well Rotary Table*	213'-0"
Gray clay	74 - 102'	Depth to R.L.N. Pipe Rotary Table	None
Hard packed sand (some gravel mixed)	102 - 175'	Gravel Size	90 #3
		Length of Outer Casing	157'10"
Yellow sand, some salt & pepper sand	175 - 187'	Length of Inner Casing and Screen	165'-0" 48.0
Yellow sand, streaks clay, salt & pepper sand	187 - 210'	Underscreen Size	30"
		Screen Material	Stainless Steel
Sand	210 - 218'	Screen Mfg.	Johnson
Weathered rock	218 - 236'	Size of Screen Dia. x Pipe	12"
		Length of Screen	32'-0"
		Top Screen Fitting	T.C. to Pipe
		Bottom Screen Fitting	Plug - cellar
		Slot Size	.060
		Bags of Cement	170
		Drilling Machine	36-L
		Date Well Completed	June 6, 1969
		Driller	W. Sergonne

*Rotary Table approx. 3' above original ground level

3571353 A

Form 87

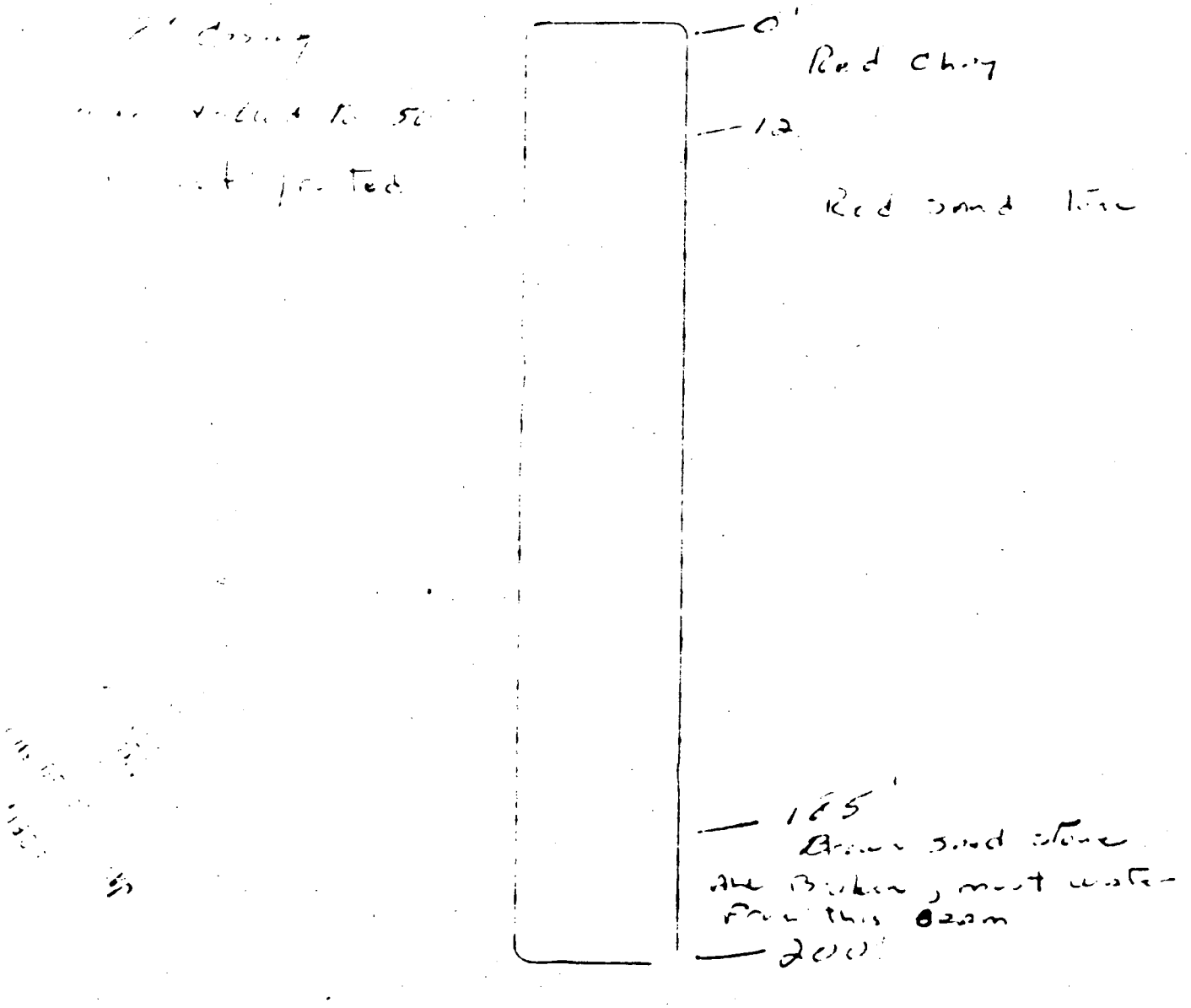
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Permit No. _____
Application No. _____
County _____

WELL RECORD

1. OWNER Lewis Chiropractic ADDRESS Pineville Pike
   Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Pineville Pike Lawrence Twp
3. DATE COMPLETED Dec 1978 DRILLER W. P. Travis Inc
4. DIAMETER: top 8 Inches Bottom 8 Inches TOTAL DEPTH 200 Feet
5. CASING: Type Steel Diameter 8 Inches Length 50 Feet
6. SCREEN: Type _____ Size of Opening ___ Diameter _____ Inches Length _____ Feet
   Range in Depth { Top _____ Feet, Bottom _____ Feet } Geologic Formation Stockton Sandstone
   Tail piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date Dec 1978 Yield 150 + Gallons per minute
   Static water level before pumping 35' Feet below surface
   Pumping level 100' feet below surface after 2 hours pumping
   Drawdown 65 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped Air How measured weir
   Observed effect on nearby wells None
9. PERMANENT PUMPING EQUIPMENT:
   Type Sub Mfrs. Name Dosi
   Capacity 75 G.P.M. How Driven Electric H.P. 7½ R.P.M. 3500
   Depth of Pump in well 150' Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well ____ Feet Type of Meter on Pump _____ Size ___ Inches
10. USED FOR Industrial (cooling) AMOUNT { Average 4500 Gallons Daily, Maximum 18,000 Gallons Daily }
11. QUALITY OF WATER Good Sample: Yes ____ No. ____
    Taste None Odor None Color Clear Temp. _____ °F
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA Jerry Travis
14. DATA OBTAINED BY W P Travis Inc. Date Dec 1978

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)



Red Sand Stone from 12' to 185' only 30 gpm to 185', from 185' to 200' Broken Brown Sand Stone, large pieces about 3" broken, all water from 185 to 200'.

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. [illegible]
Application No. _____
County _____

WELL RECORD

1. OWNER Louis Barry ADDRESS Flock Road
   Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above ocean sea level)
2. LOCATION SAME
3. DATE COMPLETED Sept 14 DRILLER Louis Bainbridge
4. DIAMETER: top 4 Inches Bottom 4 Inches TOTAL DEPTH 70 Feet
5. CASING: Type steel Diameter 4 Inches Length 67 Feet
6. SCREEN: Type Johnson Size of Opening 15 Diameter 4 Inches Length 3 Feet
   Range in Depth { Top 67 Feet, Bottom 70 Feet } Geologic Formation SAND
   Tail piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date Sept 14 Yield 20 Gallons per minute
   Static water level before pumping 5 Feet below surface
   Pumping level 25 feet below surface after 6 hours pumping
   Drawdown 20 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped AIR LIFT How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Domestic AMOUNT { Average _____ Gallons Daily, Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No. _____
    Taste _____ Odor _____ Color _____ Temp. _____ °F
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA _____
14. DATA OBTAINED BY _____ Date 65

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated analysis of the water, sketch map, sketch of special casing arrangements etc.)

0 - 28 YELLOW SAND AND CLA,

28 - 58 WHITE CLAY

58 - 70 WHITE SAND

RECEIVED
1 1 44 AM '8
GEOLOGY
&
TOPOGRAPHY

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Permit No. _____
Application No. _____
County _____

WELL RECORD

1. OWNER Luc Sassman ADDRESS Old Trenton Rd, Cranbury
Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Lot 34 block 22, West Windsor, Mercer
3. DATE COMPLETED Aug 30, 1974 DRILLER Engineering Drilling Co
4. DIAMETER Top 4 Inches Bottom 4 Inches TOTAL DEPTH 80 Feet
5. CASING PVC Diameter 4 Inches Length 72 Feet
SCREEN PVC Size of Opening .016 Diameter 4 Inches Length 8 Feet
Depth From 72 Feet To 80 Feet Geologic Formation _____
Diameter — Inches Length — Feet
6. Static Water Level — Gallons per Minute at — Feet above surface
Water Level — Feet above surface
7. Date Aug 30, 1974 Yield 60 Gallons per minute
Water level before pumping 9' Feet below surface
Pumping level 30 Feet below surface after 4 hours pumping
Drawdown 18 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
Method Air How measured Elec
Observed effect on nearby wells No
8. PERMANENT PUMPING EQUIPMENT:
Type Jet Mfrs. Name _____
Capacity 10 G.P.M. How Driven Elec H.P. 3/4 R.P.M. _____
Depth of Pump in well 30 Feet Depth of Footpiece in well _____ Feet
Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
9. USED FOR Domestic AMOUNT { Average 800 Gallons Daily; Maximum 1000 Gallons Daily }
10. QUALITY OF WATER Good Sample: Yes ____ No. ____
Taste No Odor No Color No Temp. _____ °F
11. LOG Yes Are samples available? _____
(Give details on back of sheet or on separate sheet (furnish copy)) (If electric log was made, please
12. SOURCE OF DATA Cuttings
13. DATA OBTAINED BY Hazel Brown Date Aug 30, 1974

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

0-15': yellow sand + gravel
15-25': yellow sand
25-45': Coarse yellow gravel
[illegible] Coarse yellow gravel
[illegible] Black clay
[illegible] Coarse yellow sand

REFERENCE # 15

0040-0
02-8403-59A/NJYS

Form VSC-005
6/82

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT

INCIDENT REPORT

D.W.M. ASSIGNED CASE NUMBER: 83 11 04 001
DATE: 11-04-83
TIME (Military): 1000
D.W.M. ID NO.: 209

INCIDENT REPORTED BY:
NAME: Robert Rucker
PHONE: 609-587-1500
AFFILIATION: Civil Eng.
CODE:
STREET: 861 Sloan Rd.
CITY: Trenton
STATE: NJ

INCIDENT LOCATION:
NAME: Consolidum
PHONE: 609-587-1000
STREET: 861 SLOAN
CITY: TRENTON
COUNTY:
STATE: NJ

SOURCE OF SPILLED AND/OR DISCHARGED SUBSTANCE: Confirmed ☐ Alleged ☐ More Than 1 Substance
COMPANY NAME: Same as above
PHONE:
CONTACT:
TITLE:
STREET:
DEP COMPANY NO.:
CITY:
COUNTY:
STATE:
ZIP CODE:

SUSPECTED SPILLED AND/OR DISCHARGED SUBSTANCE: ☐ Confirmed ☐ Alleged ☐ More Than 1 Substance

1. Urethane Coatings — SUBSTANCE NO.:
AMOUNT SPILLED: 350 — UNITS: GALS — A/P/E: — S/L/G/M:

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

DATE OF INCIDENT: 11-04-83
TIME (Military): 0750
TEMP.:
WEATHER:
WIND (Dir. & Vel.):

SPILL ORIGIN: Broken valve on Tote bin — CODE:
CAUSE: — CODE:
WATER BODY AFFECTED: None — CODE:
ASSOCIATED FIRE AND/OR HAZARDS:

INCIDENT REFERRED TO:
AGENCY: Hamilton Twp. Dept of Health
PHONE: 609 890-3564
CONTACT: Carl Sterling H.O.
AGENCY CODE:

PRIMARY D.W.M. INVESTIGATOR: N/A
FOLLOWUP:
NO FURTHER ACTION:
DATE:

COMMENTS:
Company has applied specify dry and is shoveling up waste into 55 gallon drums and will treat as hazardous and manifest material to Cecos N.J. Rucker claims that material has no hazardous constituents and does not meet any of the ~~haz~~ hazardous waste characteristics.

Form OWM-001
6/82

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT

D.W.M. ASSIGNED CASE NUMBER 82-11-04-001		Page 1 of 1
DATE 11-05-82	TIME 1350	D.W.M. ID NO. ____

HANK ADAMS (HAMILTON TWP. HAZARDOUS MGMT) 890-3956 RETURNED MY CALL AND REPORTED THE FOLLOWING.

(1) NONE OF THE SPILLED MATERIAL ENTERED THE STORM SEWER.
(2) A PROPERLY ATTIRED CLEANUP CREW CONTAINED APPROX 465 GALS. AND TRANSFERRED THE MATERIAL INTO DRUMS. THE CONTAMINATED SOIL NEAR THE LOADING DOCK + RR TRACKS WAS ALSO DUG UP + PLACED IN STORAGE UNTIL DISPOSAL IS ARRANGED. THE SOIL WILL BE REPLACED WITH CLEAN SOIL.
(3) MR. ADAMS INSPECTED THE SITE + FELT CONGOLEUM DID AN EXCELLENT JOB CLEANING UP, AND HE IS SATISFIED.
(4) MR. ADAMS REQUESTED COPIES OF RECIEPTS FOR DISPOSAL FROM CONGOLEUM.
(5) MR. ADAMS WILL SEND RECIEPTS + A COPY OF HIS REPORT TO DWM.

REFERENCE #16

Ref 16

NUS CORPORATION — **TELECON NOTE**

CONTROL NO:	DATE:	TIME:
02-8403-591A	3/12/86	4:20 PM

DISTRIBUTION:
~~Background~~ Correspondence File Congoleum Corp.

BETWEEN:	OF:	PHONE:
John Mercurio	Hamilton Township Health	(609) 890-3885

AND: Scott Engle (NUS)

DISCUSSION:

Regarding the location of groundwater wells both industrial and private.

Mr Mercurio stated that no records were available regarding the presence of wells in the more outlying areas, however, he was sure that several existed.

He said that any recent drillings would be registered with the state.

Mr Mercurio also stated that all the water west of Quaker Bridge Road was serviced by the Trenton water system. The area to the east is serviced by the Hamilton Square and State Water Companies.

ACTION ITEMS:

NUS 067 REVISED 0581

REFERENCE #17

02-8403-59A/NJ45

Ref 17

NUS CORPORATION — **TELECON NOTE**

CONTROL NO:	DATE:	TIME:
02-8403-59A	4/5/86	4:00 PM

DISTRIBUTION:
Cargoleum Corporation
~~Background~~ Files
Correspondence

BETWEEN:	OF:	PHONE:
Louis Didinato Dist. Syst. Tech.	Trenton Water Co.	(609) 989-3212

AND: Scott Engle (NUS)

DISCUSSION:

(1) Have no information regarding private wells in the area

(2) The entire Trenton system is fed by the Delaware River Water Intakes

(3) Service from their system does not extend east of Quakerbridge Road

ACTION ITEMS:

NUS 067 REVISED 0581

REFERENCE #18

02-8403-51A NJ 1 5

Ref #19

FILE COPY

NUS CORPORATION

POTENTIAL HAZARDOUS WASTE SITE

PRELIMINARY ASSESSMENT

Congoleum Corporation	NJD 080796782
Site Name	**EPA Site ID Number**
861 Sloane Avenue, Trenton, NJ	02-8403-59
Address	**TDD Number**

Date of Site Visit: None conducted

SITE DESCRIPTION

Congoleum has operated a resilient floor covering plant at the Trenton site since 1953. The previous owners, Sloan Corporation, had a similar operation. The Sloan Corporation landfilled waste products onsite. Wastes included: demolition debris, oxidized linseed oil, calendered vinyls, fly ash, phthalate plasticizers, naptha and paint pigments. Waste products generated by Congoleum and temporarily stored are ink sludges containing lead and chromium , solvent mixtures, plastisol, polyurethane and spent oil from routine maintenance of company machinery and vehicles. All waste materials are shipped off-site by licensed haulers as verified by a 7/26/83 USEPA inspection. The inspection showed the site to be in compliance with the exception of the lack of a containment system for spills.

PRIORITY FOR FURTHER ACTION: High____ Medium____ Low X

RECOMMENDATIONS

No action recommended at this time.

Prepared by: Laurie Gneiding of NUS Corporation **Date:** 5/10/84

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	D 080796782

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Congoleum Corporation	861 Sloan Road				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Trenton	NJ	08619	Mercer	021	04
09 COORDINATES LATITUDE	LONGITUDE				
40° 15' 00" N	072° 42' 26" W				

10 DIRECTIONS TO SITE (Starting from nearest public road)

U.S. Route 295 South to Sloan Avenue (West)

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)		
Congoleum Corporation	861 Sloan Road		
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Trenton	NJ	08619	(609) 587-1000
07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)		
D. J. Boone (Plant Manager)	861 Sloan Road		
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
Trenton	NJ	08619	(609) 587-1000

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: / / (MONTH DAY YEAR) ☒ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: 10 / 11 / 83 (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES DATE 07 / 26 / 83 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)

☒ A. EPA ☐ B. EPA CONTRACTOR ☒ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)

CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)

☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION

Unknown (BEGINNING YEAR) | Present (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Ink sludges contain lead or chromium and solvents such as toluene, xylene and methyl ethyl ketone. Plastisol and polyurethane are also present.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Drummed wastes have potential to spill, causing damage to surrounding area. Old landfill, closed from at least 1953, poses a low hazard to the environment.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☒ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)			03 TELEPHONE NUMBER
Mark Haulenbeek	US EPA Region II			(201) 321-6685
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Laurie Gneiding		NUS Corp., FIT II	(201) 225-6160	05 / 17 / 84 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	D 080796782

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☒ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS: Unknown
CUBIC YARDS: Unknown
NO. OF DRUMS: Unknown

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☒ H. IGNITABLE
- ☒ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	Unknown	55 Gal. drum	
SOL	SOLVENTS	Unknown	55 Gal. drum	
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	34	55 Gal. drum	
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	44	55 Gal. drum	

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	methyl ethyl ketone		55 gallon drum		
SOL	cyclohexanone		55 gallon drum		
OCC	plastisol		55 gallon drum		
OCC	polyurethane		55 gallon drum		
OCC	di-N-octylphthalate		55 gallon drum		
MES	chromium ink sludge		55 gallon drum		
MES	lead ink sludge				

V. FEEDSTOCKS (See Appendix for CAS Numbers) N/A

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NJDEP files

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NJ	D 080796782

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: Unknown — 04 NARRATIVE DESCRIPTION

Low potential exists from old landfill area on site.

01 ☒ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: Unknown — 04 NARRATIVE DESCRIPTION

Potential exists if drums are not properly maintained. Storm discharge is into the township drainage ditch which discharges into the Miry Run and then to the Delaware River.

01 ☒ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: Unknown — 04 NARRATIVE DESCRIPTION

Potential exists if drums are not properly maintained.

01 ☒ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: Unknown — 04 NARRATIVE DESCRIPTION

Potential exists if drums are not properly maintained.

01 ☒ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: Unknown — 04 NARRATIVE DESCRIPTION

Potential exists if drums are not properly maintained.

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 18.5 (Acres) — 04 NARRATIVE DESCRIPTION

Potential exists if drums are not properly maintained. Low potential from old landfill area.

01 ☒ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Potential exists if drums are not properly maintained. Storm drainage for the site is into the township drainage ditch which discharges into the Miry Run and then to the Delaware River.

01 ☒ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Potential exists if drums are not properly maintained.

01 ☒ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Potential exists if drums are not properly maintained.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NJ	D 080796782

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

No potential exists.

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

No potential exists.

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

No potential exists.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Potential exists if drums are not properly maintained. As of 7/26/83, no containment system for spills.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

No potential exists.

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Potential exists if drummed liquids leak or spill into storm drains which discharge into township drainage ditch.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

No potential exists.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

No potential exists.

III. TOTAL POPULATION POTENTIALLY AFFECTED: Unknown

IV. COMMENTS

None.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NJDEP files

PRELIMINARY ASSESSMENT REVIEW FORM

SITE NAME: Congoleum
ALIASES:
ADDRESS: 861 Sloan Road
CITY: Trenton,
COUNTY: Mercer
STATE: N.J. 08619
PRIORITY RATING GIVEN: low
(BY STATE OR CONTRACTOR)

~~AGREE:~~ ✓
DISAGREE: ✓
(CHECK ONE)

IF DISAGREE, WHY?
Some of the materials previously landfilled have potentially haz. constituents. Nature of all landfilled materials may be unknown.

OTHER COMMENTS:
Even though, the known substances buried at the landfill are not very toxic, and pose ~~an~~ minor threat. Proper precautions should be taken, to verify this assumpti

RECOMMENDATION: Medium priority
FINAL (BY EPA)
Determine ~~SE~~ State actions if any.
Conduct SE ~~to~~ determine nature and extent of contamination, if any.

REVIEWER:
DATE:

Nigel Robinson
~~1/16~~
1-16-85
Perry Lady 1/23/85

PRELIMINARY ASSESSMENT REVIEW FORM

SITE NAME: Congoleum
ALIASES:
ADDRESS: 861 Sloan Road
CITY: Trenton,
COUNTY: Mercer
STATE: N.J. 08619
PRIORITY RATING GIVEN: Low
(BY STATE OR CONTRACTOR)

~~AGREE:~~ ✓
DISAGREE: ✓
(CHECK ONE)

IF DISAGREE, WHY?
Some of the materials previously landfilled have potentially haz. constituents. Nature of all landfilled materials may be unknown.

OTHER COMMENTS:
Even though, the known substances buried at the landfill are not very toxic, and pose ~~an~~ minor threat. Proper precautions should be taken, to verify this assumption

RECOMMENDATION: Medium priority
FINAL (BY EPA) Determine ~~SE~~ State actions if any.
Conduct SE to determine nature and extent of contamination, if any.

REVIEWER: Nigel Robinson
DATE: 1-16-85

Perry 1/23/85

REFERENCE #19

Ref #19

ENDANGERED AND THREATENED

WILDLIFE AND PLANTS

JANUARY 1, 1986

50 CFR 17.11 and 17.12

Department of the Interior
U.S. Fish and Wildlife Service

RECEIVED

APR 28 1986

NUS CORPORATION
REGION II
SENT TO _____