02-8409-13A
Rev. 1

FINAL DRAFT
SITE INSPECTION REPORT
AND HAZARDOUS RANKING SYSTEM MODEL
TRENTON DRUM COMPANY
TRENTON, NEW JERSEY

PREPARED UNDER

TECHNICAL DIRECTIVE DOCUMENT NO. 02-8409-13
CONTRACT NO. 68-01-6699

FOR THE

ENVIRONMENTAL SERVICES DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

NOVEMBER 19, 1985

NUS CORPORATION
SUPERFUND DIVISION

SUBMITTED BY

LAURIE GNEIDING
PROJECT MANAGER

REVIEWED/APPROVED BY

RONALD M. NAMAN
REGIONAL PROJECT MANAGER

280479

NUS CORPORATION
RARITAN PLAZA III, FIELDCREST AVENUE
EDISON, NEW JERSEY 08837
201-225-6160

our 25th year

C-584-10-85-30

October 7, 1985

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

Dear Diana:

Enclosed are the Site Inspection Report (EPA Form 2070-13) and the MITRE Hazardous Ranking System (HRS) documents for Trenton Drum Company, Trenton, New Jersey. The site inspection was authorized under TDD #02-8409-13A.

Very truly yours,

Laurie Gneiding

Laurie Gneiding

Approved: _____

LG:jls

Enclosure

Contents

Section	
1	Site Inspection Report Executive Summary
2	Environmental Protection Agency Form 2070-13
3	Maps and Photographs
4	Documentation Records for Hazard Ranking System
5	Hazardous Ranking System Scoring Forms
6	Bibliography of Information Sources
7	Press Release Summary - MITRE Hazardous Ranking System
8	Attachments - Cited Documents

SECTION 1

SITE INSPECTION REPORT EXECUTIVE SUMMARY

NUS CORPORATION
A Halliburton Company

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
EXECUTIVE SUMMARY

Trenton Drum Company **Site Name**	NJD077076347 **EPA Site ID Number**
1545 New York Avenue Lawrence Twp., NJ 08638 **Address**	02-8409-13A **TDD Number**

SITE DESCRIPTION

Trenton Drum Company, now known as Westfall Ace Co., is located in Lawrence Township, Mercer County, New Jersey.

Trenton Drum Co. cleaned and reconditioned drums until a fire destroyed the operation in late September, 1984.

Westfall Ace Co. presently stores drums and uses contractors to clean drums. Drums are sometimes brought back to Westfall Ace Co. where they are sold.

The two acre site is located 0.1 mile north and upgradient of the Delaware-Raritan Canal. Industry borders the south and west with a residential area to the north. A municipal park forms the eastern border of the site. A drainage ditch separates the park from Trenton Drum Co.

The NJDEP sampled the site in March, 1983. NJDEP/Division of Waste Management (DWM) gave notice to Trenton Drum in October 1983 for discharges into surface waters and groundwater. The site is an active NJDEP/Division of Water Resources (DWR) enforcement case. Groundwater monitoring wells have been recommended but none have been installed. Contaminated soil was ordered excavated. It was stored onsite then removed to an unknown destination.

NUS FIT II conducted a site investigation and sampled surface water and soils. Volatile organics, polynucleararomatic hydrocarbons (PAHs), phthalate esters, PCBs, pesticides, and metals were found.

The site is jointly owned by Al Westfall and Harold Aranow.

HAZARD RANKING SCORE: $S_M = 15.2$ $S_{FE} = 43.75$ $S_{DC} = 62.5$

Prepared by: Laurie Gneiding
of NUS Corporation

Date: 9/13/85

SECTION 2

ENVIRONMENTAL PROTECTION AGENCY FORM 2070-13

Site Inspection Report

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

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ 0077076347

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Trenton Drum Company	1545 New York Avenue

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST.
Lawrence Township	NJ	08638	Mercer	021	04

09 COORDINATES
LATITUDE 40° 14' 40". N
LONGITUDE 074° 45' 45". 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: 3 / 29 / 85 (MONTH DAY YEAR)

02 SITE STATUS: X ACTIVE _ INACTIVE

03 YEARS OF OPERATION: Approx. 1900 (BEGINNING YEAR) / N/A (ENDING YEAR) _ UNKNOWN

AGENCY PERFORMING INSPECTION (Check all that apply)
_ A. EPA X B. EPA CONTRACTOR NUS Corp. (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.
Jay M. Crystall	Civil Engineer	NUS Corp.	(201) 225-6160

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Michael Rosenberg	Environmental Engineer	NUS Corp.	(201) 225-6160
Paul McNally	Biologist	NUS Corp.	(201) 225-6160
Laurie Gneiding	Toxicologist	NUS Corp.	(201) 225-6160
Charles Lobue	Biologist	NUS Corp.	(201) 225-6160
Mark Gallagher	Biologist	NUS Corp.	(201) 225-6160
Art Clarke	Chemist	NUS Corp.	(201) 225-6160

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
Al Westfall		Trenton Drum Co. (Westfall Ace Co.)	(609) 394-5129
Harold Aranow		Trenton Drum Co.	(609) 394-5129
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
X PERMISSION _ WARRANT	1200 hours	Overcast, 50°F, west wind - 5 mph

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Diana Messina	U.S. EPA, Region II	(201) 321-6685

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Laurie Gneiding	U.S. EPA	NUS Corp. FIT II	-(201) 225-6160	9 / 13 / 85 (MONTH DAY YEAR)

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

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D077076347

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

X A. SOLID
X B. POWDER, FINES
X 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
X D. PERSISTENT
X E. SOLUBLE
_ F. INFECTIOUS
X G. FLAMMABLE
X H. IGNITABLE
X I. HIGHLY VOLATILE
X J. EXPLOSIVE
X 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	See below	
SOL	SOLVENTS	Unknown	See below	
PSO	PESTICIDES	Unknown	See below	
OCC	OTHER ORGANIC CHEMICALS	Unknown	See below	
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Unknown	See below	

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	soil	270,000	ppb
SOL	tetrachloroethene	127-18-4	soil	170	ppb
SOL	toluene	108-88-3	soil	320,000	ppb
OCC	butyl benzyl phthalate	85-68-7	soil	990,000	ppb
OCC	di-n-butyl phthalate	84-74-2	soil	240,000	ppb
OCC	ethyl benzene	100-41-4	soil	170	ppb
OCC	styrene	100-42-5	soil	710	ppb
OCC	xylenes	1330-20-7	soil	340	ppb
OCC	1,3-dichlorobenzene	541-73-1	soil	3,200	ppb
OCC	isophorone	78-59-1	soil	6,700	ppb
OCC	hexachlorobenzene	118-74-1	soil	3,500	ppb
OLW	phenanthrene	85-01-8	soil	120,000	ppb
OLW	fluorene	86-73-7	soil	10,000	ppb
OLW	acenaphthylene	208-96-8	soil	6,900	ppb
OLW	fluoranthene	206-44-0	soil	1,300	ppb

SEE ATTACHMENT A

V. FEEDSTOCKS (See Appendix for CAS Numbers)

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 (See specific references. e.g., state files, sample analysis, reports)

Analytical results from Radian Corp. and CAL Labs

ATTACHMENT A

TRENTON DRUM COMPANY

NJD077076347

Category	Substance Name	CAS Number	Storage/Disposal Method	Concentration	Measure of Concentration
OCC	2-methylnaphthalene	----	soil	6,900	ppb
OCC	3-nitroaniline	99-09-2	soil	8,700	ppb
OCC	dibenzofuran	132-64-9	soil	5,500	ppb
OCC	diethyl phthalate	84-66-2	soil	12,000	ppb
OCC	bis(2-ethylhexyl)phthalate	117-81-7	soil, water	150,000; 69	ppb
OCC	di-n-butylphthalate	84-74-2	soil	4,500	ppb
OCC	Aroclor 1248	12672 29-6	soil	5,000	ppb
OCC	Aroclor 1254	11097-69-1	soil	13,000	ppb
OCC	Aroclor 1260	11096-82-5	soil	650	ppb
OCC	1,1-dichloroethane	75-35-4	water	20	ppb
OCC	trans-1,2-dichloroethene	156-60-5	water	18	ppb
OCC	trichloroethene	79-01-6	water	14	ppb
OCC	isophorone	78-59-1	water	150	ppb
OLW	pyrene	129-00-0	soil	24,000	ppb
OLW	benzo(a)anthracene	56-55-3	soil	250,000	ppb
OLW	chrysene	218-01-9	soil	92,000	ppb
OLW	benzo(b)fluoranthene	205-99-2	soil	58,000	ppb
OLW	benzo(k)fluoranthene	207-08-9	soil	54,000	ppb
OLW	benzo(a)pyrene	50-32-8	soil	55,000	ppb
OLW	indeno(1,2,3-cd)pyrene	193-39-5	soil	41,000	ppb
OLW	dibenzo(a,h)anthracene	53-70-3	soil	14,000	ppb
OLW	benzo(ghi)perylene	191-24-2	soil	36,000	ppb
PSD	4,4'-DDE	72-55-9	soil	960	ppb
PSD	4,4'-DDD	72-54-8	soil	20	ppb
PSD	4,4'-DDT	50-29-3	soil	35	ppb
PSD	chlordane	57-74-9	soil	340	ppb
MES	arsenic	7440-38-2	water	0.023	ppm
MES	cadmium	7440-43-9	soil	69	ppm
MES	copper	7440-50-8	soil	1,036	ppm
MES	lead	7439-92-1	soil, water	6,307; 0.214	ppm
MES	mercury	7439-97-6	soil, water	2; 0.003	ppm
MES	tin	7440-31-5	soil	24	ppm
MES	zinc	7440-66-6	soil	1,173	ppm
MES	chromium	7440-47-3	water	.031	ppm

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

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D077076347

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X A. GROUNDWATER CONTAMINATION — 02 _ OBSERVED (DATE:) — X POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 168 — 04 NARRATIVE DESCRIPTION

No groundwater samples taken. The potential exists for contaminants to leach into groundwater.

01. X B. SURFACE WATER CONTAMINATION — 02 X OBSERVED (DATE: 3/20/85) — _ POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 151,112 — 04 NARRATIVE DESCRIPTION

A drainage ditch forms the border between Trenton Drum and Hamnet Memorial Park. The drainage ditch is contaminated with dichloroethene, dichloroethane, butanone, trichloroethane, trichloroethene, and chlordane. Runoff may contaminate the Delaware and Raritan Canal as well as the Assunpink River.

01 X C. CONTAMINATION OF AIR — 02 X OBSERVED (DATE: 3/15/85) — _ POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 151,112 — 04 NARRATIVE DESCRIPTION

NUS FIT II observed air releases during site reconnaissance and site inspection. OVA readings up to 22 ppm and HNu readings up to 17 ppm were detected onsite.

01. X D. FIRE/EXPLOSIVE CONDITIONS — 02 X OBSERVED (DATE: 9/84) — _ POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 20,000 — 04 NARRATIVE DESCRIPTION

A fire destroyed the Trenton Drum Company in September, 1984. The potential still exists as flammable materials remain in the drums before being reconditioned.

01. X E. DIRECT CONTACT — 02 _ OBSERVED (DATE:) — X POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 20,000 — 04 NARRATIVE DESCRIPTION

The drainage ditch is contaminated with various volatile organics and chlordane. Due to the close proximity of the municipal park, and the broken down fence the potential for direct contact is high.

01 X F. CONTAMINATION OF SOIL — 02 X OBSERVED (DATE: 3/20/85) — _ POTENTIAL — _ ALLEGED
03 AREA POTENTIALLY AFFECTED: 2 (ACRES) — 04 NARRATIVE DESCRIPTION

Soil samples collected by FIT II were contaminated with PCBs, pesticides, heavy metals, PAHs, phthalate esters, volatile organics, and other miscellaneous organics.

01. _ G. DRINKING WATER CONTAMINATION — 02 _ OBSERVED (DATE:) — _ POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: None — 04 NARRATIVE DESCRIPTION

No potential exists as Trenton Water Dept. wells are outside the 3 mile radius of the site.

01 X H. WORKER EXPOSURE/INJURY — 02 _ OBSERVED (DATE:) — X POTENTIAL — _ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 8 — 04 NARRATIVE DESCRIPTION

The potential exists as the site is contaminated. Workers were observed wearing cloth gloves and eating and drinking on site.

01 X I. POPULATION EXPOSURE/INJURY — 02 _ OBSERVED (DATE:) — X POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 20,000 — 04 NARRATIVE DESCRIPTION

The potential exists as the site borders a park and residential areas.

See above E. Direct Contact

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

The potential exists as drainage from the site flows into the Delaware-Raritan Canal.

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

The potential exists as drainage from the site flows into the Delaware-Raritan Canal.

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

The potential exists if fauna and flora are contaminated.

01 X M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 X OBSERVED (DATE: 3/20/85) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 20,000
04 NARRATIVE DESCRIPTION

FIT II observed many spills of chemicals from drums. Standing liquids were tested for pH and results showed a pH 12-13.

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

The potential exists as a park borders the site.

01 X O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 X OBSERVED (DATE: 10/20/83) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

NJDEP/DWM served a notice of violation to Trenton Drum Company for "discharge of undetermined amounts of petroleum substances . . . into . . . storm sewer drainage system".

01 X P. ILLEGAL/UNAUTHORIZED DUMPING — 02 X OBSERVED (DATE: 3/20/85) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

Many of the drums on site still contained hazardous material and emitted fumes. Sludges, puddles of liquid, and piles of solids were strewn around the ground.

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

None

III. TOTAL POPULATION POTENTIALLY AFFECTED: 151,112

IV. COMMENTS

None

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

Site Inspection conducted by NUS FIT II on 3/20/85

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

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D077076347

II. PERMIT INFORMATION

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

III. SITE DESCRIPTION

01 Storage/Disposal (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
_ A. SURFACE IMPOUNDMENT		
X B. PILES	Unknown	
X C. DRUMS, ABOVE GROUND	Approx. 2,000	55 gallon
X D. TANK, ABOVE GROUND	Unknown	
_ E. TANK, BELOW GROUND		
_ F. LANDFILL		
_ 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
- _ F. SOLVENT RECOVERY
- _ G. OTHER RECYCLING/RECOVERY
- _ H. OTHER _____ (Specify)

05 OTHER
- X A. BUILDINGS ON SITE

06 AREA OF SITE
2 (Acres)

07 COMMENTS

Drums are stored on site then sent out to subcontractors for reconditioning. Many of the drums contain hazardous material. General housekeeping is poor. Above ground tank was a caustic settling tank.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

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

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

Thousands of drums are stacked at Trenton Drum Co. Some are clean, however many still contain hazardous materials and waste has spilled on the ground.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: X YES _ NO

02 COMMENTS

The fence surrounding the site is damaged or nonexistent.

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

Site Inspection conducted by NUS FIT II on 3/20/85

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 5 - DEMOGRAPHIC, AND ENVIRONMENTAL DATA

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D077076347

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL	02 STATUS: ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. _	B. X	A. _	B. _	C. _	A. 3.5 (mi)
NON-COMMUNITY	C. _	D. X	D. _	E. _	F. _	B. 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: 167 03 DISTANCE TO NEAREST DRINKING WATER WELL: 2.1 (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
4 (ft)	southeast	4 (ft)	$5x10^5$ (gpd)	_ YES X NO

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

Domestic wells vary in depth from 50-112 feet and are located southeast of Trenton Drum in Lawrence Township. Industrial wells are 200 feet deep.

10 RECHARGE AREA

_ YES
X NO
COMMENTS

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
Delaware and Raritan Canal	X	500 feet (mi)
Assunpink River		1,900 feet (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. 20,061 NO. OF PERSONS	B. 84,324 NO. OF PERSONS	C. 151,112 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION: 50 feet (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE: 32,749

04 DISTANCE TO NEAREST OFF-SITE BUILDING: 50 feet (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)

Trenton Drum Co. is located in a densely populated and heavily industrialized area. Industry is on the south and western borders of the site. Residential areas are to the north and a park is the western border of the site.

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D077076347

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)

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

03 DEPTH TO BEDROCK: 20-30 (ft)
04 DEPTH OF CONTAMINATED SOIL ZONE: Unknown (ft)
05 SOIL pH: basic

06 NET PRECIPITATION: 11 (in)
07 ONE YEAR 24 HOUR RAINFALL: 3 (in)
08 SLOPE
SITE SLOPE: 3-5 %
DIRECTION OF SITE SLOPE: southeast
TERRAIN AVERAGE SLOPE: 3-5 %

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. None (mi)
OTHER: B. 1.6 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species): None (mi)
ENDANGERED SPECIES: _____

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. 50 feet (mi)	B. 50 feet (mi)	C. 2.1 (mi)	D. 2.1 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Trenton Drum Co. is located 0.1 mile north and upgradient of the Delaware-Raritan Canal. A drainage ditch, flowing toward the Canal, runs along the eastern border of the site. The entire site is on a slope.

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

USGS Maps: Trenton East, Trenton West, Princeton, and Pennington Quads

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

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D077076347

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO Organic	Inorganic	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER				
SURFACE WATER	3	Radian Corp. Sacramento, CA	California Analytical W. Sacramento, CA	6/85
WASTE				
AIR				
RUNOFF				
SPILL				
SOIL	9	Radian Corp. Sacramento, CA	California Analytical W. Sacramento, CA	
VEGETATION				
OTHER				

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Air Monitoring	HNu photoionizers and OVA flameionization detector
Soil and Spill pH	pH readings of 12-13

IV. PHOTOGRAPHS AND MAPS

01 TYPE X GROUND _ AERIAL

02 IN CUSTODY OF NUS Corp., Edison, NJ
(Name of organization or individual)

03 MAPS
X YES
_ NO

04 LOCATION OF MAPS
NUS Corp., Edison, NJ

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

Photographs
Field Notebook
Collected on 3/15/85 and 3/20/85

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

Site Inspection conducted by NUS FIT II on 3/20/85

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

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D077076347

II. CURRENT OWNER(S)

01 NAME		02 D + B Number	08 NAME		09 D + B NUMBER
Flicker One					
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)		11 SIC CODE
c/o Homsote Co. P.O. Box 7240					
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
W. Trenton	NJ	08628			
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
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
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
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D + B Number
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D + B Number
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable; list most recent first)

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

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

U.S. EPA, Edison Files
NUS Corp. FIT II Site Inspection conducted on 3/20/85

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

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D077076347

II. CURRENT OPERATOR(S)			OPERATOR'S PARENT COMPANY (If applicable)		
01 NAME		02 D + B Number	10 NAME		11 D + B NUMBER
Westfall Ace Co.					
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)		13 SIC CODE
1545 New York Avenue					
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
Lawrence Twp.	NJ	08638			
08 YEARS OF OPERATION	09 NAME OF OWNER				
9/84 to Present	Al Westfall				

III. PREVIOUS OPERATOR(S) (List most recent first: Provide only if different from owner)			PREVIOUS OPERATOR'S PARENT COMPANIES (If applicable)		
01 NAME		02 D + B Number	10 NAME		11 D + B NUMBER
Trenton Drum Co.					
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)		13 SIC CODE
1545 New York Avenue		Reconditioning operation			
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
Lawrence Twp.	NJ	08638			
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
1973-1984	Al Westfall				
01 NAME		02 D + B Number	10 NAME		11 D + B NUMBER
Trenton Drum Co.					
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)		13 SIC CODE
1545 New York Avenue		Manufacturing			
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
Lawrence Twp.	NJ	08638			
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
1900-1973					
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 DURING THIS PERIOD				

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

Site Inspection conducted by NUS FIT II on 3/20/85

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

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D077076347

II ON-SITE GENERATOR

01 NAME	02 D + B Number
Trenton Drum Co.	
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
1545 New York Avenue	
05 CITY	06 STATE	07 ZIP CODE
Lawrence Twp.	NJ	08638

III OFF-SITE GENERATOR(S)

01 NAME	02 D + B Number	01 NAME	02 D + B NUMBER
Metro Container		ST Container	
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	02 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
Trainer	PA		Berlin	NJ	

01 NAME	02 D + B Number	01 NAME	02 D + B NUMBER
Quality Container		Philadelphia Drum Co.	
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	02 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
Philadelphia	PA		Coatsville	PA	

IV. TRANSPORTER(S)

01 NAME	02 D + B Number	01 NAME	02 D + B NUMBER
Westfall Ace Co.			
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	02 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
1545 New York Avenue			
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
Lawrence Twp.	NJ	08638			

01 NAME	02 D + B Number	01 NAME	02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	02 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., stat files, sample analysis, reports)

Site Inspection conducted by NUS FIT II on 3/20/85

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D077076347

II. PAST RESPONSE ACTIVITIES

01 ___ A. WATER SUPPLY CLOSED 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION
No previous history.

01 ___ B. TEMPORARY WATER SUPPLY PROVIDED 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION
No previous history.

01 ___ C. PERMANENT WATER SUPPLY PROVIDED 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION
No previous history.

01 ___ D. SPILLED MATERIAL REMOVED 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION
No previous history.

01 X E. CONTAMINATED SOIL REMOVED 02 DATE: 10/23/83 03 AGENCY: _____
04 DESCRIPTION
Soil excavated by Trenton Drum Co. and stored in drums onsite. Some transported offsite manifest PA A4672231.

01 ___ F. WASTE REPACKAGED 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION
No previous history.

01 X G. WASTE DISPOSED ELSEWHERE 02 DATE: 10/83 03 AGENCY: _____
04 DESCRIPTION
Contaminated soil removed to an unknown destination. Spray booth paint sludges removed by Philadelphia Drum Co. Some soil transported offsite via manifest #PAA4672231.

01 ___ H. ON SITE BURIAL 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION
No previous history.

01 ___ I. IN SITU CHEMICAL TREATMENT 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION
No previous history.

01 ___ J. IN SITU BIOLOGICAL TREATMENT 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION
No previous history.

01 ___ K. IN SITU PHYSICAL TREATMENT 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION
No previous history.

01 ___ L. ENCAPSULATION 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION
No previous history.

01 ___ M. EMERGENCY WASTE TREATMENT 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION
No previous history.

01 ___ N. CUTOFF WALLS 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION
No previous history.

01 ___ O. EMERGENCY DIKING/SURFACE WATER DIVERSION 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION
No previous history.

01 ___ P. CUTOFF TRENCHES/SUMP 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION
No previous history.

01 ___ Q. SUBSURFACE CUTOFF WALL 02 DATE: _____ 03 AGENCY: _____
04 DESCRIPTION
No previous history.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D077076347

II. PAST RESPONSE ACTIVITIES

01 ___ R. BARRIER WALLS CONSTRUCTED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ S. CAPPING/COVERING — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ T. BULK TANKAGE REPAIRED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ U. GROUT CURTAIN CONSTRUCTED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ V. BOTTOM SEALED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ W. GAS CONTROL — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 X X. FIRE CONTROL — 02 DATE: 9/84 — 03 AGENCY: ___
04 DESCRIPTION
A fire destroyed operations at Trenton Drum Co.

01 ___ Y. LEACHATE TREATMENT — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ Z. AREA EVACUATED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ 1. ACCESS TO SITE RESTRICTED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ 2. POPULATION RELOCATED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

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

NJDEP-DWM Files

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART II - ENFORCEMENT INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D077076347

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION X YES _ NO

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

NJDEP sampled the site on 3/83. The Division of Waste Management was assessing a clean-up. DWM gave notice of violation to Trenton Drum on 10/2/83 for "discharge of undetermined amount of petroleum substances and caustic into the surface water run-off and subsequent storm sewer drainage system/groundwater.

The site is an active NJDEP/Division of Water Resources enforcement case. Groundwater monitoring wells have been recommended but none have been installed.

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

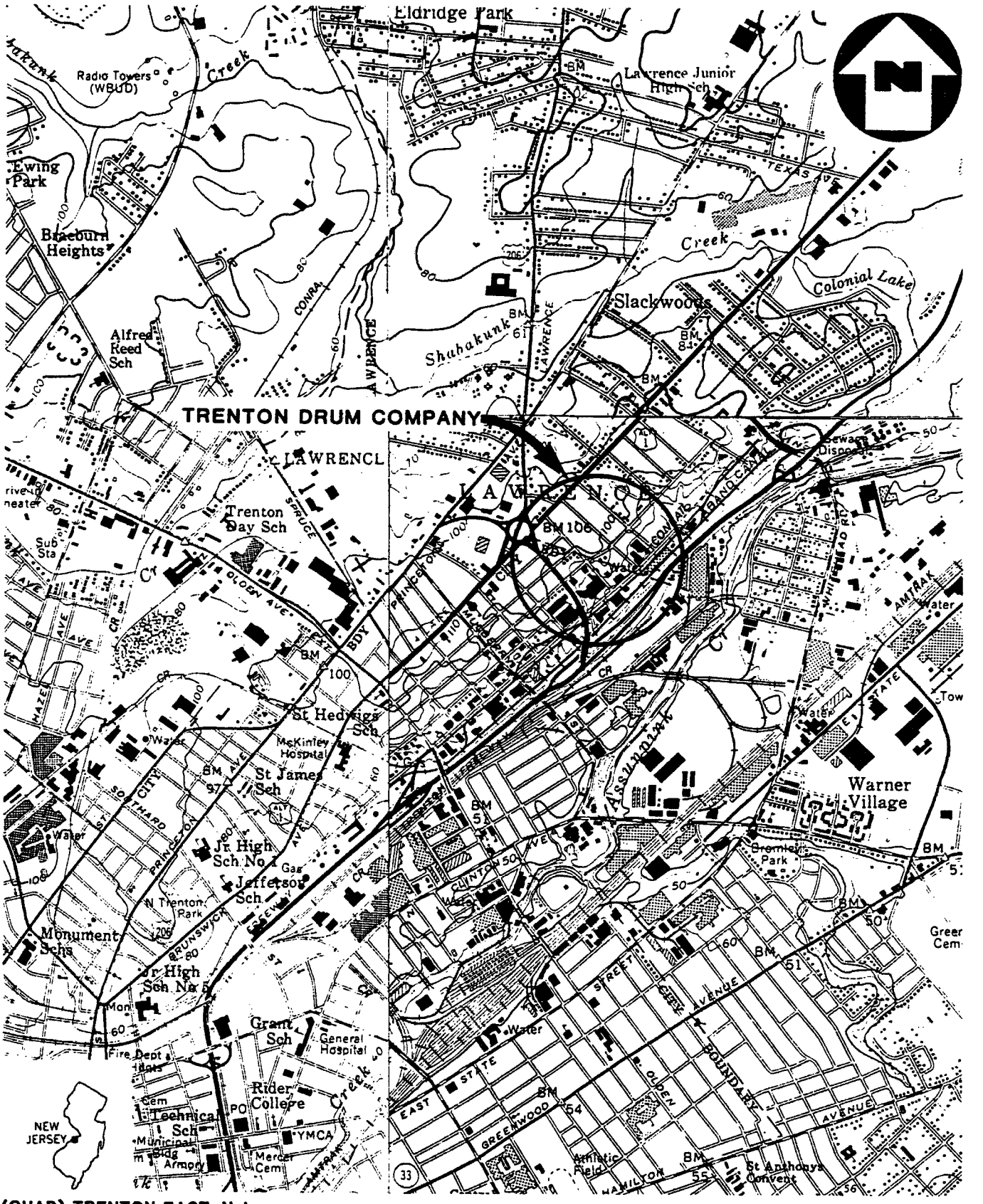
Background files from NJDEP-DWM

SECTION 3

MAPS AND PHOTOGRAPHS

APPENDIX A

MAPS AND PHOTOS



(QUAD) TRENTON EAST, N.J.

FIGURE 1

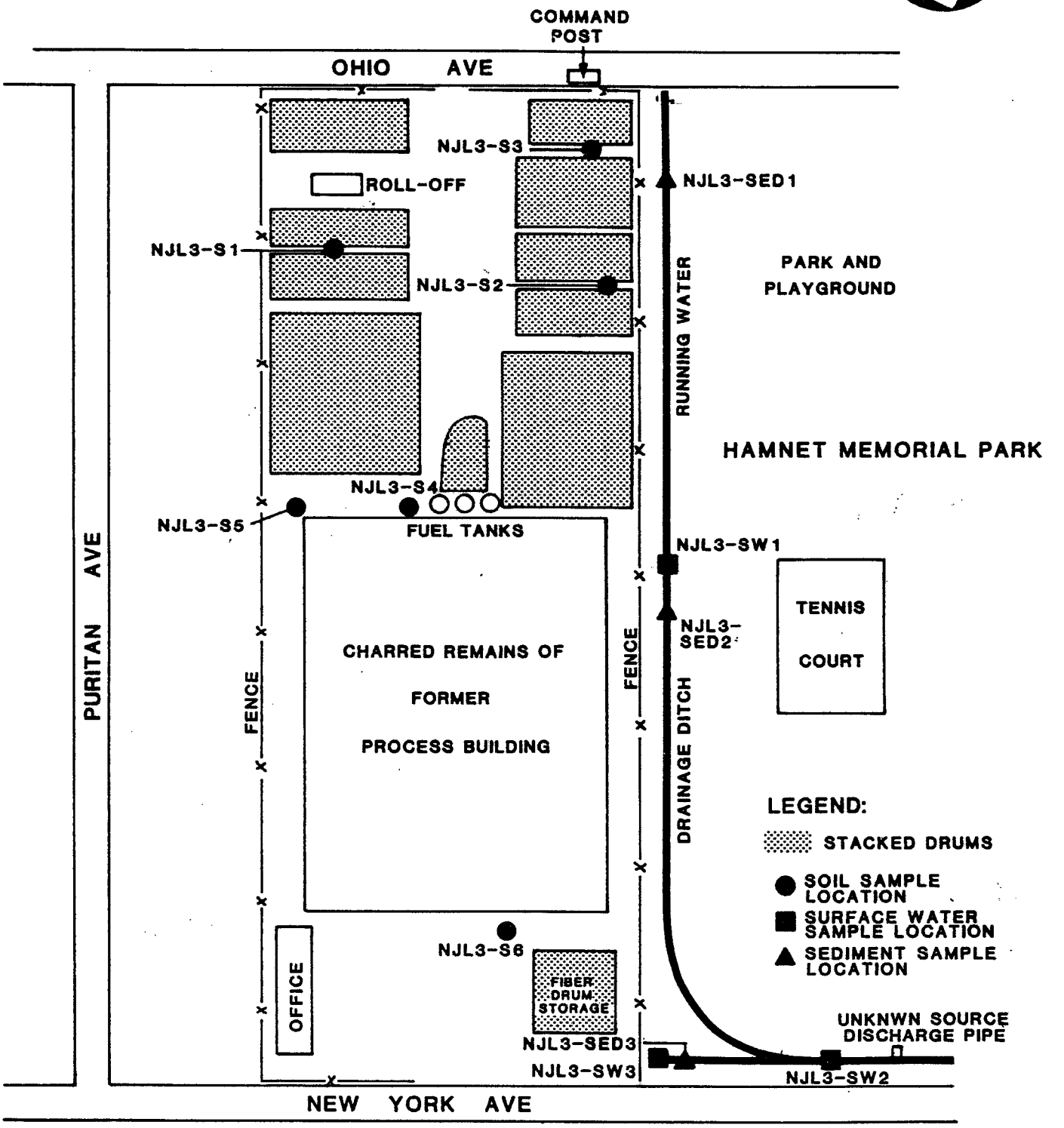
SITE LOCATION MAP

TRENTON DRUM CO., LAWRENCE TWP.,N.J.

SCALE: 1"=2000'

NUS CORPORATION

A Halliburton Company



SAMPLE LOCATION MAP

TRENTON DRUM CO., LAWRENCE TWP., N.J.

(NOT TO SCALE)

FIGURE 2

NUS CORPORATION

A Halliburton Company

TRENTON DRUM COMPANY
LAWRENCE TOWNSHIP, NEW JERSEY
TDD# 02-8409-13A
March 20, 1985

PHOTOLOG INDEX

TRENTON DRUM COMPANY
LAWRENCE TOWNSHIP, NEW JERSEY
TDD# 02-8409-13A
March 20, 1985

PHOTOGRAPH INDEX

Photo Number	Description	Time
1.	Trenton Drum Company, now called Westfall-Ace Co., no longer reconditions drums on site. Since a fire levelled the operation in September 1984, drums are stored on site and shipped to outside reconditioning facilities.	1318
2.	C. LoBue and L. Gneiding collecting sediment sample NJL3-SED1 from drainage ditch in Hamnet Memorial Park, approximately 45 feet from Ohio Ave.	1318
3.	C. LoBue and L. Gneiding collecting sediment sample NJL3-SED2 in Hamnet Memorial Park, while Paul McNally monitors air. Burnt out former process building of Trenton Drum Co. can be seen in background. Note hole in fence between Trenton Drum Co. and park.	1325
4.	C. LoBue and L. Gneiding collecting surface water sample NJL3-SW1 from drainage ditch in Hamnet Memorial Park.	1326
5.	Looking westward across Hamnet Memorial Park towards Trenton Drum Company. FIT personnel can be seen sampling drainage ditch in park.	1331
6.	Pickup truck delivering empty drums through Ohio Ave gate.	1344
7.	Rear drum storage area of Trenton Drum Co. Between 5000 and 7000 drums, awaiting transport to reconditioning operations, are stored on site. Note roll-off at right filled with crushed drums.	1356
8.	L. Gneiding collecting medium concentration surface soil sample NJL3-S1 from ground in between fallen drums near west fence line in rear drum storage yard.	1431

TRENTON DRUM COMPANY
LAWRENCE TOWNSHIP, NEW JERSEY
TDD# 02-8409-13A

PHOTOGRAPH INDEX

Photo Number	Description	Time
9.	L. Gneiding taking medium concentration soil sample NJL3-S2 from aisle, while C. LoBue and Paul McNally look on. Note blue sludge-laden soil being sampled.	1435
10.	L. Gneiding taking medium concentration soil sample NJL3-S3 in aisle between stacked drums near Ohio Ave. gate. C. LoBue and Paul McNally look on. Note yellow crystalline substance on ground being sampled.	1438
11.	A portion of one of the ten stacked piles of empty drums in rear storage area. Note residues inside many of the drums.	1442
12.	L. Gneiding and C. LoBue taking soil sample NJL3-S4 from behind fuel tank near former process building. Paul McNally observes sampling.	1515
13.	Part of the recirculating caustic flush system previously used to recondition drums. The caustic solution tanks in the foreground and the rusted drums in the background used to be housed inside the process building.	1516
14.	L. Gneiding, P. McNally and C. LoBue collecting surface soil sample NJL3-S5 near foundation of former process building on Purtian Ave. side of property.	1520
15.	L. Gneiding collecting surface water sample NJL3-SW3 from a small pool at the end of the New York Ave. drainage ditch, adjacent to a fiber drum storage area.	1604
16.	L. Gneiding and C. LoBue collecting sediment sample NJL3-SED3 from same location as NJL3-SW3.	1605

TRENTON DRUM COMPANY
LAWRENCE TOWNSHIP, NEW JERSEY
TDD# 02-8409-13A
March 20, 1985

PHOTOGRAPH INDEX

Photo Number	Description	Time
17.	L. Gneiding, P. McNally and C. LoBue collecting surface water sample NJL3-SW2 from drainage ditch on New York Ave., approximately 100 ft. downstream of the Trenton Drum Co. property.	1622
18.	P. McNally and C. LoBue collecting surface soil sample NJL3-S6 from ground outside former fiber drum storage building.	1645
19.	Charred remains of what used to be the process building for the drum reconditioning operation.	1649

NUS CORPORATION

TRENTON DRUM COMPANY, LAWRENCE TOWNSHIP, NEW JERSEY

1. March 20, 1985 1318
Trenton Drum Company, now called Westfall-Ace Co., no longer reconditions drums on site. Since a fire levelled the operation in September 1984, drums are stored on site and shipped to outside reconditioning facilities.

2. March 20, 1985 1318
C. LoBue and L. Gneiding collecting sediment sample NJL3-SED1 from drainage ditch in Hamnet Memorial Park, approximately 45 Feet from Ohio Ave.

NUS CORPORATION

TRENTON DRUM COMPANY, LAWRENCE TOWNSHIP, NEW JERSEY

3. March 20, 1985 1325
C. LoBue and L. Gneiding collecting sediment sample NJL3-SED2 in Hamnet Memorial Park, while Paul McNally monitors air. Burnt out former process building of Trenton Drum Co. can be seen in background. Note hole in fence between Trenton Drum Co. and park.

4. March 20, 1985 1326
C. LoBue and L. Gneiding collecting surface water sample NJL3-SW1 from drainage ditch in Hamnet Memorial Park.

NUS CORPORATION

TRENTON DRUM COMPANY, LAWRENCE TOWNSHIP, NEW JERSEY

5. March 20, 1985 1331
Looking westward across Hamnet Memorial Park towards Trenton Drum Company. FIT personnel can be seen sampling drainage ditch in park.

6. March 20, 1985 1344
Pickup truck delivering empty drums through Ohio Ave gate.

NUS CORPORATION

TRENTON DRUM COMPANY, LAWRENCE TOWNSHIP, NEW JERSEY

7. March 20, 1985 1356
Rear drum storage area of Trenton Drum Co. Between 5000 and 7000 drums, awaiting transport to reconditioning operations, are stored on site. Note roll-off at right filled with crushed drums.

8. March 20, 1985 1431
L. Gneiding collecting medium concentration surface soil sample NJL3-S1 from ground in between fallen drums, near west fence line in rear drum storage yard.

NUS CORPORATION

TRENTON DRUM COMPANY, LAWRENCE TOWNSHIP, NEW JERSEY

9. March 20, 1985 1435
L. Gneiding taking medium concentration soil sample NJL3-S2 from aisle, while C. LoBue and Paul McNally look on. Note blue sludge-laden soil being sampled.

10. March 20, 1985 1438
L. Gneiding taking medium concentration soil sample NJL3-S3 in aisle between stacked drums near Ohio Ave. gate. C. LoBue and Paul McNally look on. Note yellow crystalline substance on ground being sampled.

NUS CORPORATION

TRENTON DRUM COMPANY, LAWRENCE TOWNSHIP, NEW JERSEY

11. March 20, 1985 1442
A portion of one of the ten stacked piles of empty drums in rear storage area. Note residues inside many of the drums.

12. March 20, 1985 1515
L. Gneiding and C. LoBue taking soil sample NJL3-S4 from behind fuel tank near former process building. Paul McNally observes sampling.

13. March 20, 1985 1516
Part of the recirculating caustic flush system previously used to recondition drums. The caustic solution tanks in the foreground and the rusted drums in the background used to be housed inside the process building.

14. March 20, 1985 1520
L. Gneiding , P. McNally and C. LoBue collecting surface soil sample NJL3-S5 near foundation of former process building on Puritan Ave. side of property.

15. March 20, 1985 1604
L. Gneiding collecting surface water sample NJL3-SW3 from a small pool at the end of the New York Ave. drainage ditch, adjacent to a fiber drum storage area.

16. March 20, 1985 1605
L. Gneiding and C. LoBue collecting sediment sample NJL3-SED3 from same location as NJL3-SW3.

NUS CORPORATION

TRENTON DRUM COMPANY, LAWRENCE TOWNSHIP, NEW JERSEY

17. March 20, 1985 1622
L. Gneiding, P. McNally and C. LoBue collecting surface water sample NJL3-SW2 from drainage ditch on New York Ave., approximately 100 ft. downstream of the Trenton Drum Co. property.

18. March 20, 1985 1645
P. McNally and C. LoBue collecting surface soil sample NJL3-S6 from ground outside former fiber drum storage building.

NUS CORPORATION

TRENTON DRUM COMPANY, LAWRENCE TOWNSHIP, NEW JERSEY

19. March 20, 1985 1649
Charred remains of what used to be the process building for the drum reconditioning operation.

SECTION 4

DOCUMENTATION RECORDS FOR HAZARDOUS 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: Trenton Drum

LOCATION: Lawrence Twp., New Jersey

DATE SCORED: 10/01/85

PERSON SCORING: Laurie Gneiding

PRIMARY SOURCE(S) OF INFORMATION (e.g., EPA region, state, FIT, etc.):
U.S. EPA Files
Site reconnaissance conducted 3/14/85
Site inspection conducted 3/20/85

FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION:
S_A = 0 No air sampling performed

COMMENTS OR QUALIFICATIONS:

GROUNDWATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

No groundwater samples taken.

Rationale for attributing the contaminants to the facility:

* * *

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

Upper aquifer - Stockton Sandstone

Lower aquifer - Precambrian (undifferentiated) consisting of Cambrian Chickies or Hardyston quartzite and other igneous rocks such as pegmatite and granite gneiss.

Ref: 6

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

Stockton Sandstone - 4 feet

Ref: 6

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

Unknown

Ref: 5

Net Precipitation

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

44 inches

Ref: 2

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

33 inches

Ref: 2

Net precipitation (subtract the above figures):

11 inches

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Cut and fill land, stratified substratum.

Sandy soil with some clayey or silty soils.

Ref: 7

Permeability associated with soil type:

Rapid permeability - greater than 10^{-3} cm/sec.

Ref: 7

Physical State

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

Liquids, sludges, solids, powders, and fines.

Ref: 5

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Some material stored in 55 gallon drums. Unused above ground tanks exist onsite.

Other material - no containment.

Ref: 5

Method with highest score:

No containment.

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

PCBs, PAHs, lead, DDT, chlordane

Ref: 8

Compound with highest score:

All have highest score.

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):

Unknown

Score: 1

Basis of estimating and/or computing waste quantity:

* * *

5 TARGETS

Groundwater Use

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

Drinking water and industrial usage.

Ref: 6

Distance to Nearest Well

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

Southeast of Trenton Drum in Lawrence Township.

Ref: 6

Distance to above well or building:

1.5 mile

Ref: 6

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:

44 private wells are within a 3 mile radius. Total 44 homes x 3.8 persons = 167 persons. The Trenton Water Dept. supply well is outside the 3 mile radius.

Ref: 6

Ref: 1

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).

None

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

Approximately 167 persons.

SURFACE WATER ROUTE

1 OBSERVED RELEASE

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

Lead, isophorone, trichloroethane, dichloroethane

Ref: 8

Rationale for attributing the contaminants to the facility:

Site was a former drum reconditioning facility and now stores drums for reconditioning. Contaminants found downstream of facility (not upstream) and onsite.

Ref: 5

* * *

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

3-5%

Ref: 5

Name/description of nearest downslope surface water:

Delaware & Raritan Canal

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

3-5%

Ref: 5

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

No

Ref: 5

Is the facility completely surrounded by areas of higher elevation?

No

Ref: 5

1-Year 24-Hour Rainfall in Inches

3

Ref: 2

Distance to Nearest Downslope Surface Water

The Delaware and Raritan Canal is 500 feet from the site.

Ref: 4

Physical State of Waste

Liquids, sludges, solids, powders, and fines

Ref: 5

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

55-gallon drums

No containment.

Ref: 5

Method with highest score:

No containment.

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Lead, mercury

Ref: 8

Compound with highest score:

Same score.

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):

Unknown

Score: 1

Basis of estimating and/or computing waste quantity:

* * *

5 TARGETS

Surface Water Use

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

Commercial, industrial, recreational.

Ref: 4

Is there tidal influence?

No

Ref: 4

Distance to a Sensitive Environment

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

None

Ref: 4

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

None

Ref: 4

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

None

Ref: 4

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:

None

Ref: 4

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

None

Ref: 4

Total population served:

Zero

Name/description of nearest of above water bodies:

N/A

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

N/A

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

N/A

Date and location of detection of contaminants

03/20/85

HNu and OVA readings observed during site inspection.

Methods used to detect the contaminants:

HNu and OVA

Rationale for attributing the contaminants to the site:

* * *

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

None

Most incompatible pair of compounds:

Caustic wastewater (on site standing pools of liquids had pHs of 12-13) and halogenated hydrocarbons (i.e. trichloroethane and dichlorobenzene).

Ref: 2, 8

Toxicity

Most toxic compound:

DDT, benzene, chlordane, PCBs

Ref: 2

Hazardous Waste Quantity

Total quantity of hazardous waste:

Unknown

Score 1

Basis of estimating and/or computing waste quantity:

* * *

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**

20,061 persons.

Ref: 3

Distance to a Sensitive Environment

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

None

Ref: 4

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

None

Ref: 4

Distance to critical habitat of an endangered species, if 1 mile or less:
None
Ref: 4

Land Use

Distance to commercial/industrial area, if 1 mile or less:
50 feet
Ref: 5

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:
None
Ref: 5

Distance to residential area, if 2 miles or less:
50 feet
Ref: 5

Distance to agricultural land in production within past 5 years, if 1 mile or less:
None
Ref: 5

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:
None
Ref: 5

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?
None
Ref: 4

FIRE AND EXPLOSION

1 CONTAINMENT

Hazardous substances present:

Benzene, toluene, fuel oil constituents (PAHs)

Ref: 8

Type of containment, if applicable:

No containment.

* * *

2 WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

Fire occurred at the site in September, 1984.

Ignitability

Compound used:

Benzene

Ref: 2

Reactivity

Most reactive compound:

None

Incompatibility

Most incompatible pair of compounds:

Caustic wastewater and halogenated hydrocarbons

Ref: 2, 8

* * *

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

Unknown

Score 1

Basis of estimating and/or computing waste quantity:

* * *

3 TARGETS

Distance to Nearest Population

50 feet

Ref: 5

Distance to Nearest Building

Onsite

Ref: 5

Distance to Sensitive Environment

Distance to wetlands:

1.6 miles

Ref: 4

Distance to critical habitat:

None

Ref: 4

Land Use

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

50 feet

Ref: 5

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:
None
Ref: 5

Distance to residential area, if 2 miles or less:
50 feet
Ref: 4, 5

Distance to agricultural land in production within past 5 years, if 1 mile or less:
None
Ref: 2

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:
None
Ref: 4

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?
No
Ref: 4

Population Within 2-Mile Radius
84,324 persons
Ref: 3

Buildings Within 2-Mile Radius
32,749 buildings
Ref: 3

DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

No direct contact was observed.

* * *

2 ACCESSIBILITY

Describe type of barrier(s):

The site is fenced however the fence is non-existent in some areas and in disrepair in other areas.

Ref: 5

* * *

3 CONTAINMENT

Type of containment, if applicable:

No containment exists for some material. Other material is in 55-gallon drums. Unused above ground tanks exist.

Ref: 5

* * *

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

DDT, benzene, chlordane, PCBs

Compound with highest score:

All have highest score.

* * *

5 TARGETS

Population Within One-Mile Radius

20,061 persons

Ref: 3

Distance to Critical Habitat (of Endangered Species)

None

SECTION 5

HAZARDOUS RANKING SYSTEM SCORING FORMS

Facility name: Trenton Drum Company

Location: Laurence Township, New Jersey

EPA Region: II

Persons(s) in charge of the facility: Al Westfall

Harold Aranow

Name of Reviewer: Laurie Gneiding **Date:** 9/13/85

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.)

Trenton Drum Company, now known as Westfall Ace Co., is located in Lawrence Township, Mercer County, New Jersey.

Trenton Drum Co. cleaned and reconditioned drums until a fire destroyed the operation in late September, 1984.

Westfall Ace Co. presently stores drums and uses contractors to clean drums. Drums are sometimes brought back to Westfall Ace Co. where they are sold.

The two acre site is located 0.1 mile north and upgradient of the Delaware-Raritan Canal. Industry borders the south and west with a residential area to the north. A municipal park forms the eastern border of the site. A drainage ditch separates the park from Trenton Drum Co.

The NJDEP sampled the site in March, 1983. NJDEP/Division of Waste Management (DWM) gave notice to Trenton Drum in October 1983 for discharges into surface waters and groundwater. The site is an active NJDEP/Division of Water Resources (DWR) enforcement case. Groundwater monitoring wells have been recommended but none have been installed. Contaminated soil was ordered excavated. It was stored onsite then removed to an unknown destination.

NUS FIT II conducted a site investigation and sampled surface water and soils. Volatile organics, polynucleararomatic hydrocarbons (PAHs), phthalate esters, PCBs, pesticides, and metals were found.

The site is jointly owned by Al Westfall and Harold Aranow.

Score: $S_M = 15.2$ ($S_{gw} = 25.1$ $S_{sw} = 8$ $S_a = 0$)

$S_{FE} = 43.75$

$S_{DC} = 62.5$

HRS COVER 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	3	3	
Total Route Characteristics Score			14	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 10 / 12 16 18 20 / 24 30 32 35 40	1	12	40	
Total Targets Score			18	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			14364	57,330	
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} = 25.1		

FIGURE 2
GROUND WATER ROUTE WORK SHEET

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	1	3	
1-yr. 24-hr. Rainfall	0 1 2 3	1	2	3	
Distance to Nearest Surface Water	0 1 2 3	2	6	6	
Physical State	0 1 2 3	1	3	3	
	Total Route Characteristics Score		12	15	
3 Containment	0 1 2 3	1	3	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	0	6	
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 / 12 16 18 20 / 24 30 32 35 40	1	0	40	
	Total Targets Score		6	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			5130	84,350	
7 Divide line 6 by 84,350 and multiply by 100		S_{sw} = 8			

FIGURE 7
SURFACE 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	0	45	5.1
Date and Location: 3/20/85					
Sampling Protocol: 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				

	S	S^2
Groundwater Route Score (S_{gw})	25.1	630.01
Surface Water Route Score (S_{sw})	8	64
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		694
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		26.3
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		15.2

FIGURE 10
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 (2)	1	2	3	7.1
2 Waste Characteristics					7.2
Direct Evidence	0 (3)	1	3	3	
Ignitability	0 1 2 (3)	1	3	3	
Reactivity	(0) 1 2 3	1	0	3	
Incompatibility	0 1 2 (3)	1	3	3	
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	
	Total Waste Characteristics Score		10	20	
3 Targets					7.3
Distance to Nearest Population	0 1 2 3 4 (5)	1	5	5	
Distance to Nearest Building	0 1 2 (3)	1	3	3	
Distance to Sensitive Environment	(0) 1 2 3	1	0	3	
Land Use	0 1 2 (3)	1	3	3	
Population Within 2-Mile Radius	0 1 2 3 4 (5)	1	5	5	
Buildings Within 2-Mile Radius	0 1 2 3 4 (5)	1	5	5	
	Total Targets Score		21	24	
4 Multiply 1 x 2 x 3			630	1,440	
5 Divide line 4 by 1,440 and multiply by 100		S_{FE} =	43.75		

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	20	20	
Distance to a Critical Habitat	0 1 2 3	4	0	12	
Total Targets Score			20	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			1350	21,600	
7 Divide line 6 by 21,600 and multiply by 100			S_{DC} = 62.5		

FIGURE 12
DIRECT CONTACT WORK SHEET

SECTION 6

BIBLIOGRAPHY OF INFORMATION SOURCES

BIBLIOGRAPHY OF INFORMATION SOURCES
HRS MODEL

	SOURCE	LOCATION
1.	Water supply overlay, NJDEP, Bureau of Geology and Topography, 8/75.	NUS Corporation
2.	Uncontrolled Hazardous Waste Site Ranking System: A User's Manual, MITRE Corp.	NUS Corporation
3.	Graphical Exposure Modelling Systems.	NUS Corporation
4.	USGS Maps: Trenton East, Trenton West, Princeton and Pennington.	NUS Corporation
5.	Site inspection conducted by NUS Corp. FIT II on 3/20/85.	NUS Corporation
6.	Geology of the Ground Water Resources of Mercer County, NJ Geological Survey, 1965.	NUS Corporation
7.	Soil Survey of Mercer County, NJ, USDA, January, 1972.	NUS Corporation
8.	Analytical results from Radian Corp., Sacramento, CA and California Analytical Labs, W. Sacramento, CA.	NUS Corporation

SECTION 7

PRESS RELEASE SUMMARY–MITRE HAZARDOUS RANKING SYSTEM

SUMMARY STATEMENT

TRENTON DRUM COMPANY
TRENTON, NEW JERSEY

Trenton Drum Company, now known as Westfall Ace Co., is located in Lawrence Township, Mercer County, New Jersey.

Trenton Drum Co. cleaned and reconditioned drums until a fire destroyed the operation in late September, 1984.

Westfall Ace Co. presently stores drums and uses contractors to clean drums. Drums are sometimes brought back to Westfall Ace Co. where they are sold.

The two acre site is located 0.1 mile north and upgradient of the Delaware-Raritan Canal. Industry borders the south and west with a residential area to the north. A municipal park forms the eastern border of the site. A drainage ditch separates the park from Trenton Drum Co.

The NJDEP sampled the site in March, 1983. NJDEP/Division of Waste Management (DWM) gave notice to Trenton Drum in October 1983 for discharges into surface waters and groundwater. The site is an active NJDEP/Division of Water Resources (DWR) enforcement case. Groundwater monitoring wells have been recommended but none have been installed. Contaminated soil was ordered excavated. It was stored onsite then removed to an unknown destination.

NUS FIT II conducted a site investigation and sampled surface water and soils. Volatile organics, polynucleararomatic hydrocarbons (PAHs), phthalate esters, PCBs, pesticides, and metals were found.

The site is jointly owned by Al Westfall and Harold Aranow.

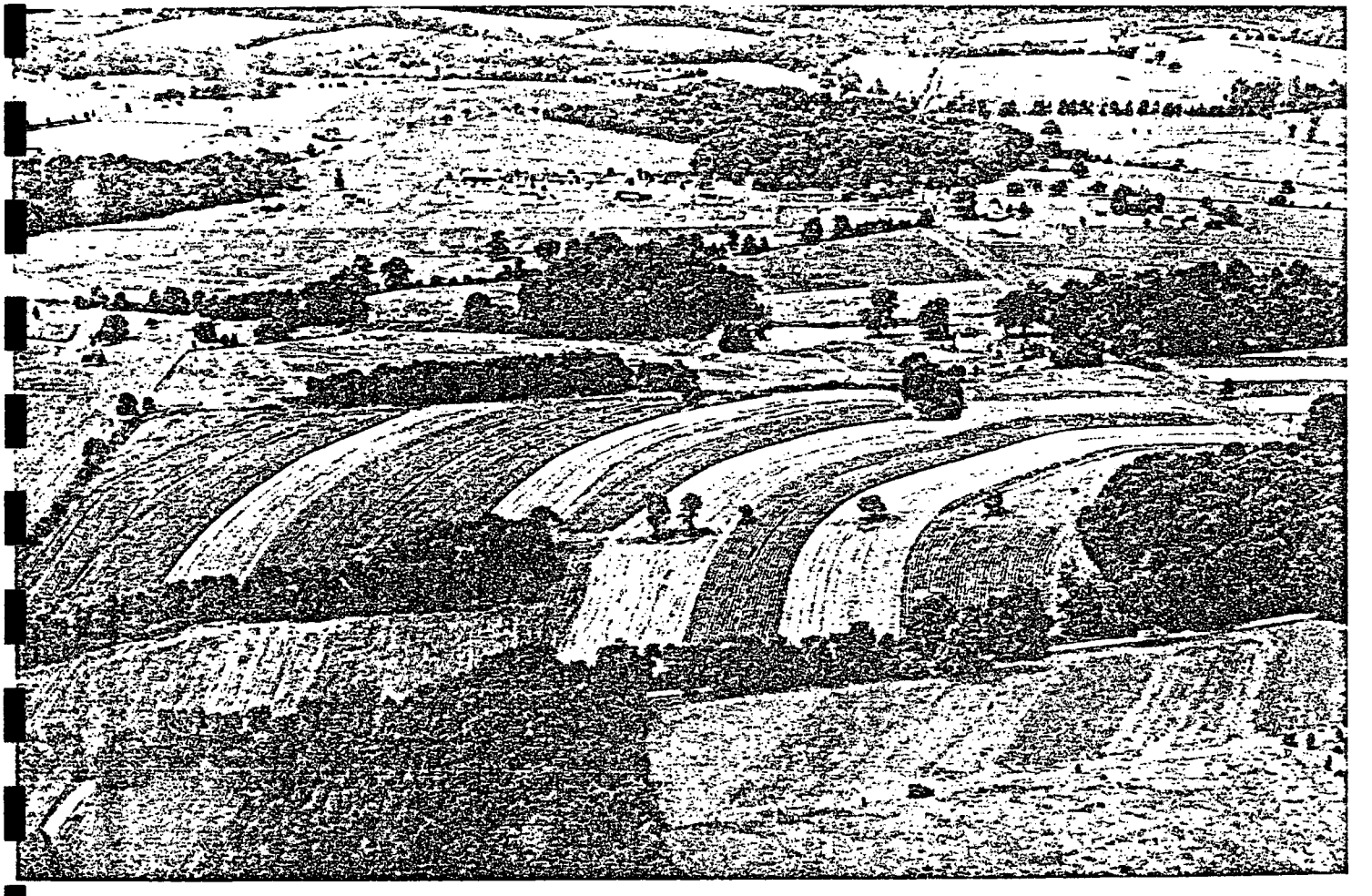
SECTION 8

ATTACHMENTS- CITED DOCUMENTS

REF 7

SOIL SURVEY OF

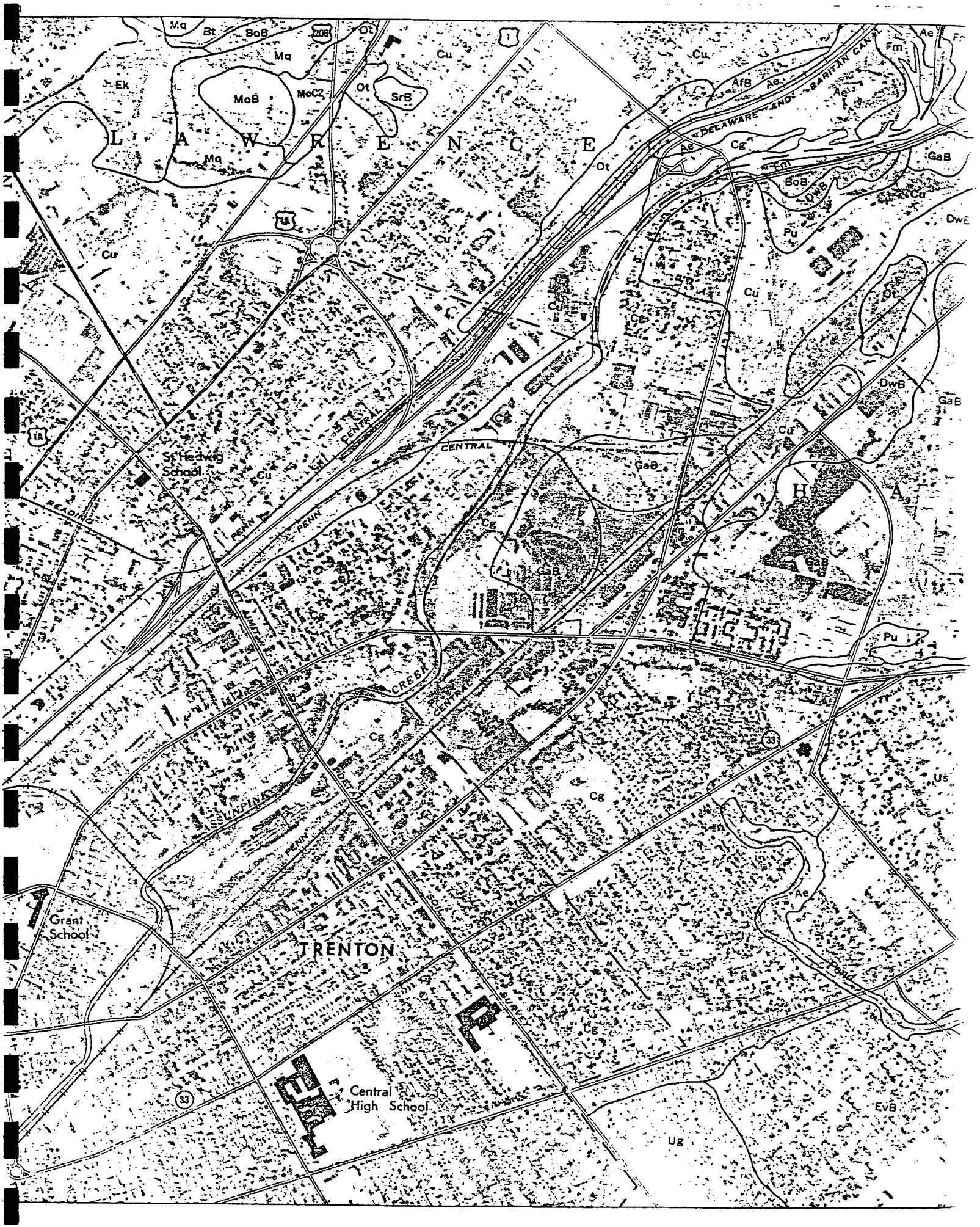
Mercer County, New Jersey



United States Department of Agriculture
Soil Conservation Service

In cooperation with
New Jersey Agricultural Experiment Station

Issued January 1972


LAWRENCE
TRENTON
DELAWARE AND RARITAN CANAL
PENNSYLVANIA RAILROAD
PENN CENTRAL
READING
CREEK
St Hedwig School
Grant School
Central High School
Pond
Mq
Bt
BoB
206
Ot
Cu
1
Ek
MoB
MoC2
SrB
Ae
Fm
AfB
Cg
GaB
DwB
DwE
Pu
Oc
Us
EvB
Ug
33
1A

ere this soil is farmed, wetness is the main limita-. The firm subsoil is also a limitation. Legumes and s that tolerate wetness are well suited to this soil. can be grown for hay and pasture. Open ditches iversions generally are needed to remove excess ace water if corn and small grains are grown. ability unit IIIw–70; woodland group 3w1)

alfont silt loam, 2 to 6 percent slopes, eroded 2).—The profile of this soil is similar to the one de-bed as representative of the series, except that the layer has been thinned several inches by erosion. me places part of the more clayey subsoil has been d into the plow layer. Shallow gullies are common. luded in mapping were small areas where the surface is shaly silt loam or channery silt loam.

is soil is suited to the same crops as the less eroded ffont soils. Because the original surface layer has n thinned, crops do not grow so well as on the less d soils. The difficulties of maintaining fertility and d supply of organic matter are greater than on the eroded Chalfont soils. Rapid runoff, the results of st erosion, and the risk of further erosion require ful management and some erosion control measures cultivation without damage. Open ditches to im-ve drainage will reduce the difficulties of farm opera-n that are caused by wetness. (Capability unit IIIw–woodland group 3w1)

halfont silt loam, 6 to 12 percent slopes, eroded 2).—The profile of this soil is similar to the one de-ribed as representative of the series, except that erosion thinned the original surface layer. Small, more ngly sloping areas were included in mapping. In-uded also in mapping were small areas of shaly silt am and channery silt loam.

unoff and the hazard of erosion are severe on this and rather intensive conservation measures must be sed to control erosion. Some areas, mainly seepy spots, re excessively wet.

his soil is well suited to hay and pasture plants that tolerant of wetness. Corn and small grains do mod-rately well if erosion is controlled. (Capability unit IIIe–70; woodland group 3w1)

halfont very stoney silt loam, 0 to 6 percent slopes B).—This soil has a profile similar to the one described s typical of the series, except that many stones and maller fragments of rock are scattered over the surface d throughout the profile. The amount of stones is ugh to hinder farmwork. Included in mapping were mall areas having slopes greater than 6 percent. Erosion s slight, and runoff is moderate.

This soil is too stony to be cultivated, and removal the stones is expensive. If stones have not been re-moved, the soil is well suited to pasture or trees. (Capability unit VIs–75; woodland group 3w1)

ut and Fill Land

Cut and fill land consists of soil materials that have en so mixed by excavation, filling, or other disturbance at the original soil horizons have been destroyed. Be-cause the areas consist of variable materials, the map-ping units have not been placed in capability units or oodland suitability groups. Four mapping units of Cut d fill land were defined and mapped.

Cut and fill land, clayey substratum (Cf).—This land type consists of areas in which the original soil material has been removed or soil material has been brought in as a fill. The depth to the clayey substratum ranges from 1 foot to 2 feet where a cut has been made and from 4 to 8 feet where the area has been filled. The texture of the fill material ranges from silt to gravelly sand. Slopes of this mapping unit range from 0 to 5 percent.

The clayey substratum of this land type is firm and slowly permeable. Water remains perched above the clayey layer for some time after a heavy rain. Most of the areas have been developed as residential, commercial, or industrial sites. Some areas have not been developed. Onsite inspection is needed to determine the limitations of a site for most uses. (Capability unit and woodland group not assigned)

Cut and fill land, gravelly material (Cg).—This land type consists of mixed gravelly and sandy materials. In some places the original soil was removed, and the underlying gravelly sand was exposed. In other places gravelly sand was brought in as fill material. Slopes range from 0 to 5 percent.

The permeability of the gravelly sand is rapid in most places unless compaction has occurred by the use of heavy equipment. Most sites are well drained or excessively drained, except those areas where thin deposits of gravelly sand were made over wet sites in which the water table is high.

Most areas of this land type have been developed for residential, commercial, or industrial uses. Onsite inspection is needed to determine the limitations for homesites and for septic fields. (Capability unit and woodland group not assigned)

Cut and fill land, rock substratum (Ct).—This land type consists of areas in which the original soil material was removed and the underlying bedrock was exposed and areas where soil material was brought in as fill and spread over the rock. Slopes range from 0 to 6 percent.

In areas where soil was removed, the rock substratum is now at the surface. Vegetation is sparse to absent. The permeability ranges from moderate to slow, depending on the density of the rock, the slope of the bedding planes, and the degree to which the rock has been shattered.

In filled areas the depth to rock ranges from 2 to 8 feet. The texture of the fill material ranges from sand to clay, or the material may be mostly stone. The permeability is variable.

Most of the areas of this land type have been developed for residential, commercial, or industrial uses. Onsite inspection is needed at all sites to determine the degree of limitation for any proposed use. (Capability unit and woodland group not assigned)

Cut and fill land, stratified substratum (Cu).—This land type consists of areas in which the original soil was removed and the underlying substratum, which is mostly sandy and stratified, was exposed; and areas in which sandy soil material was brought in as fill and deposited over the original soil. Slopes generally range from 0 to 5 percent, although small areas in which slopes are between 5 and 10 percent are also in this mapping unit.

In the cut areas the texture of the material exposed is dominantly sandy. There are some areas, however, that

REF 6

GEOLOGY OF THE GROUND WATER RESOURCES OF MERCER COUNTY

GEOLOGIC REPORT SERIES NO. 7

NEW JERSEY GEOLOGICAL SURVEY

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

PRECAMBRIAN (PRE-TRIASSIC) ROCKS

Pre-Triassic rocks are found exposed in the Delaware River opposite Trenton, within the bed of Assunpink Creek and elsewhere in excavations in the city, eastward in Lawrence Township, and formerly as far east as Princeton Junction. This group of rocks consists of the Cambrian Chickies or Hardyston quartzite, an alleged equivalent of the Wissahickon schists which may be either Precambrian or early Paleozoic (post-Hardyston) and a meta-gabbro and other igneous rocks such as pegmatite and granite gneiss, which are generally classed as Precambrian in age. The outcrops in Mercer County are too sparse to permit the correlation with certainty of these formations to the more extensive outcrop area and exposures west of the Delaware River. The quartzite has a rather striking continuous outcrop across the river on either side of the Calhoun Street Bridge to Morrisville.

In the 1909 Trenton Folio these rocks are shown as outcropping from beneath the Pleistocene formations as far east as Bakers Basin. On the 1950 State Geologic Map, an outcrop area is indicated just west of Princeton Junction. Well drilling operations in the past few years in the area between Princeton Junction, Edinburg and Trenton suggest that the crystalline rocks lie close to the surface below a thin cover of Pleistocene deposits and underlie a much more extensive area and are much nearer the surface than has heretofore been indicated.

Since all of these rocks are hard crystallines, yielding water only from fractures, the age and lithologic differences are not important for the present study. However, when these rocks are close to the surface, are not capped by Triassic sandstones or Raritan sands and are covered only by Raritan clays or thin Pleistocene deposits containing much silt, the area underlain by these pre-Triassic rocks becomes important in studies of the ground water potential of Mercer County. For convenience in this study, in maps, sections, and discussion, these crystalline rocks are hereafter referred to as Precambrian without regard as to whether they are actually Precambrian gneisses or meta-gabbros, Cambrian quartzites, or younger gneisses and schists.

Field reconnaissance was conducted by the New Jersey Geological Survey in Mercer County during May, 1960 as a preliminary step in the preparation of a geologic base map for the ground water report on the area. The existing geologic maps did not seem to agree with information from new exposures and well data that were not available when the geologic map was revised in 1950.

Prior to commencement of field work, considerable research was conducted on published data on the pre-Triassic rocks shown in the Trenton and Princeton Junction areas on the State Geologic Map. Outcrop localities given in the permanent notes were noted on the new U.S.G.S. 1:24000 quadrangle sheets.

Field checking was started in the Trenton area. Precambrian gneiss in a highly weathered state was found beneath a few feet of overburden in the excavation for a large building 1,500 feet southeast of U. S. Route #1 on that part of the highway between Texas Avenue and the Lawrence Drive-In Theatre. This area was formerly mapped as Triassic on the geologic map. The occurrence of Precambrian gneiss at this locality and as outcrops to the west necessitated moving the Triassic-Precambrian contact in a northwesterly direction nearly one-fourth of a mile.

Reconnaissance was continued in a zone about three miles wide from Trenton to Princeton Junction on both sides but chiefly southeast of U. S. Route #1. All roads in this area crossing the Cretaceous-Triassic contact as shown on the geologic map were traveled. All areas of potential outcrop or exposure were examined including road cuts, stream banks, and excavations for buildings and garbage burial. It soon became evident that the contact zone as mapped was based on inference rather than on outcrop. No identifiable outcrops of Cretaceous or Triassic deposits were found within one-fourth mile of either side of the contact zone as previously mapped. Intensive search disclosed only Pleistocene deposits at or near the surface. Clay was found in the area between the Delaware and Raritan Canal and Assunpink Creek just south of Bakersville. The white and gray clay, upon cursory examination, appeared to be Cretaceous, however, detailed examination and comparison of samples suggests that this clay is a Pleistocene deposit, consisting largely of reworked Raritan Formation and/or Precambrian saprolite materials.

Mention was made in the permanent geologic notes of several Precambrian outcrop areas which apparently were utilized in preparing the State Geologic Map. All of these localities were visited and field-checked for this report, and all apparently have been covered by sanitary land fill or other construction in recent years. One of these locations was on the north side of the railroad at a crossing near Duckpond Run, two miles southwest of Princeton Junction. This, apparently, was concealed by the fill for the construction of a highway overpass. The most famous locality, a few hundred yards southwest of the Princeton Junction Station, is now utilized by West Windsor Township as a dump, and the Precambrian outcropping is no longer visible. However, the yellow and white conglomerate, typical of the basal Triassic, is still visible north of the dump. A newly constructed farm pond, south of the railroad

tracks on the Old Post Road several hundred yards southwest of the above-mentioned dump, showed that it bottomed in clays containing blue quartz pebbles characteristic of the nearby Precambrian. All of the area listed as Precambrian was very carefully searched for outcrop, and it is concluded that earlier mapping was based on information from well logs, just as in the case in this report, and on now-vanished outcrops.

Simultaneously with the field check operations, all well records on file in the office were consulted for the area between Trenton and Princeton Junction on either side of the Pennsylvania Railroad main line. The study of well records was made over an area sufficiently wide so that all areas which anyone had previously mapped as Precambrian, as well as those areas where there was reason to believe that the Precambrian was close to the surface, were encompassed.

Twenty-one well records were found adjacent to but outside of the areas formerly mapped as Precambrian. All of these wells first penetrate Pleistocene deposits of one kind or another. Some end in identifiable Precambrian rock, while others penetrate a few feet of either gray or yellow clay. In some of the records, this clay has been interpreted as Cretaceous. It is believed, in view of the material found in other wells in the general area which have penetrated thick sequences of Pleistocene and in view of the character of some of the clays observed at the surface in known Pleistocene deposits, that these clays in the above-mentioned wells are probably reworked Precambrian material. Some of the well logs for these wells were prepared by geologists, but others were prepared by the local drillers who are believed to have sufficient experience in the area to be able to identify the various geologic materials. Only those drillers' logs whose location was surrounded by reliable sample logs which had been described by geologists were used in the study and in the preparation of the geologic cross-sections.

West Windsor Township well 25, although a drillers' log, seems to indicate the existence of a Cretaceous filling in a channel in the Precambrian because the interval between 25 and 80 feet is described as white clay and white sand.

There is a lack of reliable subsurface information in the Great Bear Swamp area. Hamilton Township wells 73, 74, and 75 to the south and southeast of the swamp according to the drillers' logs may penetrate a thin section of Cretaceous before ending in Precambrian rocks. Hamilton Township well 76 appears to penetrate Pleistocene for its entire depth. The Precambrian-Cretaceous contact has therefore been arbitrarily located along the southern portion of Great Bear Swamp. A well drilled in November, 1960 after the revised contact had been drawn in was located just north of the inferred Precambrian boundary. The well struck dark green Precambrian schist at a depth of nine feet.

The shape of the Precambrian outcrop area beneath the Pleistocene suggests that, at several points, valleys or channels trending north-south, or northeast-southwest may have been eroded in the Precambrian basement. One such channel filled with Pleistocene may be indicated by West Windsor well 64 and 95 drilled for Wing Hing Farms. Other well records and geophysical traverses in the area suggest that there are other such channels which may have thin deposits of Cretaceous sediments, a thin residual layer of Triassic rocks, or uneroded weathered Precambrian material in the valley bottom. However, in most of this area between Trenton and Princeton Junction the Cretaceous or Triassic cover has apparently been eroded away until the Precambrian has been exposed and the valleys thus formed have been entirely filled with Pleistocene sediments.

Wells Tapping the Precambrian

In the study of the Precambrian rock area of Mercer County, 119 wells and test borings were plotted on the 1:2400 scale U.S.G.S. Quadrangle maps of the area. Of this group 26 domestic and 41 industrial wells were found to be getting their water from the Precambrian. Twenty other wells were drilled to the Precambrian but secure their water from the overlying formation.

Only four industrial wells in Ewing Township, all close to the Trenton City line draw from the Precambrian. Twenty of the Precambrian wells are industrial wells in Trenton. There are 17 domestic and 7 industrial wells in West Windsor Township all in or around Princeton Junction. The remainder of the Precambrian wells with one exception are in Hamilton and Lawrence Township within a mile of the Pennsylvania Railroad main line. The exception is an unsuccessful irrigation test well in Washington Township nearly three and a half miles south of the railroad.

Domestic wells tapping the joints and fissures in the Precambrian may be expected to yield about 10 gallons per minute from a depth of about 120 feet as shown on the tables below.

LAWRENCE TOWNSHIP (Continued)

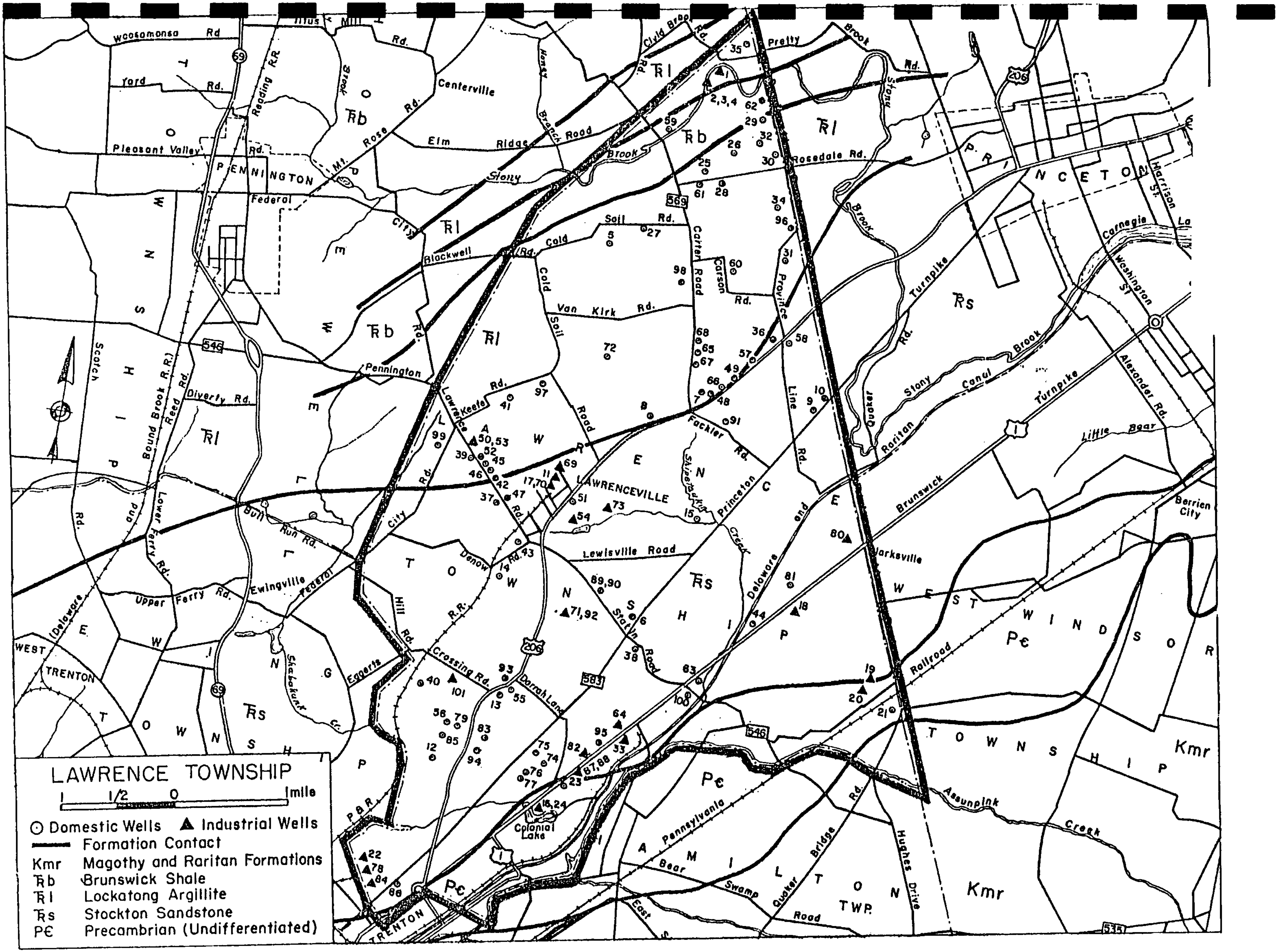
Well Number	Casing Diam. (Inches)	GPM	Well Depth (Feet)	Fm.	Casing Length (Feet)	Static Water Level (Feet)	Owner	Year Drilled	Use	Water Level/ Hours Pumped
35	6	12	248	Trl	22	62	Gemmell	'49		....
36	..	18	242	Trs	..	..	Rakin	'29		....
37	6	10	95	"	34	22	Hance	'51		50/—
38	6	5	157	"	35	16	Hunter	'49		60/6
39	6	12	83	Trl	22	14	Kocon	'51		50/—
40	6	20	70	Trs	..	19	Muskewitz	"		33/4
41	6	20	90	Trl	28	5	Newman	'47		20/—
42	6	7	100	Trs	..	11	Rich	'52		50/—
43	6	12	63	"	35	14	Robinson	'51		14/8
44	6	8	140	"	57	6	F. Carlisi	'61		68/6
45	6	5	77	Trl	24	8	Vanderbilt	'52		76/2
46	6	4	121	"	23	6	VanDoren	'52		40/2
47	6	8	90	Trs	20	12	VanSyckle	'51		25/—
48	6	8	106	Trl	44	25	Raymond	'53		60/—
49	6	4	100	"	35	28	D. Penrose	'53		70/—
50	8	19	250	"	26	2½	Buxton Dairy	'48	I	140/—
51	6	25	60	Trs	..	6	Costello	'51		8/4
52	6	13	144	Trl	22	8	Demowski	'53		84/2
53	8	15	250	"	..	30	Buxton's Dairy	'38	I	....
54	6	125	201	Trs	..	..	Lawrenceville School	'14 or '15	I	15/—
55	6	15	56	"	35	12	Bruschi	'52		12/5
56	6	15	72	"	38	8	A. Colligan	'51		30/—
57	6	7	198	Trl	23	22	Lauck	'50		104/6
58	6	20	115	Trs	17	45	Luccarelli	'52		90/—
59	4	5	204	Trb	..	35	Prickett	'34		150/—
60	6	30	105	"	28	3	Hazeltine	'49		15/—
61	6	6	76	Trl	..	4	LaPlaca	'51		55/—
62	6	7	131	Trb	18	12	J. Kelly	'52		70/—
63	6	35	116	Trs	33	1	Kaplan	'49		40/8
64	6	72	150	"	34	4	S & F Theatres Inc.	"	I	58/4
65	6	5	149	Trl	24	18	Hutchinson	'52		90/3
66	6	15	125	"	31	26	Houghton	'53		70/—
67	6	7	160	"	22	10	Mitchell	'50		100/1
68	6	8	152	"	..	70	Waring	'51		70/1

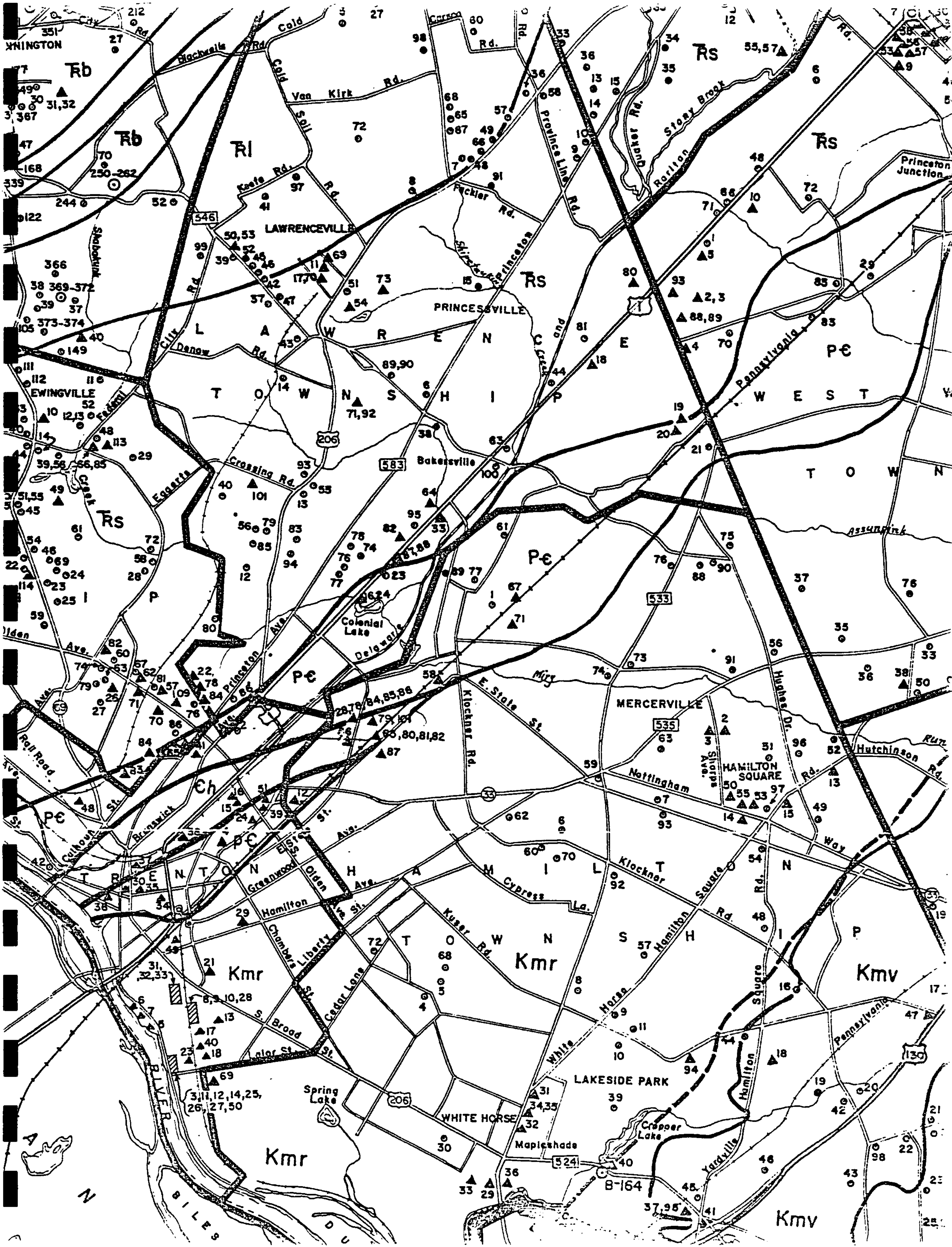
LAWRENCE TOWNSHIP

Well Number	Casing Diam. (Inches)	GPM	Well Depth (Feet)	Fm.	Casing Length (Feet)	Static Water Level (Feet)	Owner	Year Drilled	Use	Water Level/ Hours Pumped
1	12–8	45	248	Trl	45	13	Education Testing Service	'57	I	161/48
2	12–8	20	281	"	45	13	"	"	I	158/48
3	12–8	2	317	"	45	26	"	"	I	....
4	12–8	50	223	"	50	5	"	'56	I	160/48
5	8–6	6	350	"	21	6	Woods	"		245/4
6	6	30	103	Trs	26	40	Albert Chemical	'57		45/4
7	8–6	5	100	Trl	18	22	Thompson	'54		90/—
8	8–6	10	169	"	28	22	Rusling	"		70/—
9	6	18	146	Trs	23	..	Cashvan	'59		....
10	6	15	146	"	38	20	"	"		....
11	8	30	230	"	..	..	Lawrenceville Water Co. #2	'24	I	....
12	6	6	123	"	36	10	Charles Long (Bldr.)	'62		100/4
13	6	20	75	"	27	18	Wenzel	'56		48/4
14	8	25	121	"	42	10	Darby	'54		19/6
15	6	20	80	"	32	9	Campbell	'56		30/4
16	8	5	304	pC	31	11	Colonial Bowling Alley	'49	I	....
17	12–8	300	150	Trs	..	8	Lawrenceville Water Co.	'37	I	35/—
18	8	75	164	"	57	flowed	N. J. Motor Vehicle Station	'56	I	69/24
19	12–8	70	350	pC	87	9	Curtiss Wright	'58	I	150/48
20	12	60	59	"	29	7	Curtiss Wright	'58	I	50/24
21	6	6	123	"	55	14	Halper	'59		97/6
22	6	50	145	Trs	..	4	Para Lab Supply Co.	'48	I	31/8
23	6	14	113	pC	35	17	Cunningham	'54		80/4
24	8	15	253	"	30	12	Colonial Bowling Lanes	'56	I	134/8
25	8–6	7	80	Trl	21	5	LaPlaca	'51		35/—
26	8	15	337	"	24	4	Schleuter	"		140/6
27	6	25	103	"	22	10	Goldstine	'50		45/6
28	8–6	9	130	"	22	5	Beacraft	'51		50/—
29	6	7	130	"	21	10	Hannah	'29		100/8
30	6	15	119	"	24	9	Cowan	"		60/6
31	6	2	199	"	24	15	Katzenbach	'41		150/—
32	..	6	201	"	..	18	Batton	'30		127/—
33	10	340	212	Trs	..	13	Lawrence Hose Co.	'47	I	65/9
34	..	25	185	Trl	..	11	Goodridge	'38		108/—

LAWRENCE TOWNSHIP (Continued)

Well Number	Casing Diam. (Inches)	GPM	Well Depth (Feet)	Fm.	Casing Length (Feet)	Static Water Level (Feet)	Owner	Year Drilled	Use	Water Level/ Hours Pumped
69	12	90	286	Trs	..	8	Lawrenceville Water Co. No. 4	'51	I	50/24
70	8	60	110	"	..	6	" No. 3	'32	I	18/—
71	6	33	112	"	50	..	Green Acres	'31	I	26/—
72	6	9	123	Trl	..	20	*Houghton	'34		....
73	10	152	402	Trs	41	8	Lawrenceville School	'47	I	145/24
74	6	18	65	"	..	8	Aldrich	'51		12/4
75	6	7	108	"	..	10	Bayless	..		....
76	6	8	122	"	20	20	Biddle	'51		40/4
77	6	6	65	"	..	15	Commiso	"		30/—
78	8	33	265	Trs (P) pC (B)	55	15	Integro Inc. #2	'52	I	140/6
79	6	25	70	Trs	34	6	Thompson	'52		30/4
80	8	30	85	"	41	17	Clarksville Diner	'60	I	23/6
81	6	8	73	"	..	3	Nadi	'29		....
82	6	45	180	Trs (P) pC (B)	23	7	Transport Mfg. & Equip. Co.	'52	I	15/8
83	6	7	72	Trs	..	10	Gallimore	'51		25/—
84	6	30	187	"	59	19	Integro Inc.	'50	I	63/4
85	6	15	78	"	32	15	Schino	..		15/5
86	6	5	65	pC	34	9	Seaman	'51		60/½
87	8	90	147	Trs	..	18	Howard Johnson Rest. #1	'41	I	92/—
88	8	30	156	"	..	..	" #2	"	I	....
89	8	75	86	"	..	30	Mrs. W. Ziegler #1	'36	I	....
90	8	80	117	"	47	38	" #2	'37	I	....
91	6	25	104	"	40	20	H. Fackler	'35		70/—
92	8	160	204	"	32	18	Green Acres Country Club	'46	I	50/—
93	6	10	55	"	32	12	J. Antoniszym	'51		....
94	6	20	65	"	37	3	C. Rossa	'52		12/4
95	6	10	61	"	35	10	W. J. Takash	'51		22/6
96	6	10	100	Trl	23	8	A. Maruca	'61		50/—
97	6	10	95	"	22	18	F. Lonska	"		"
98	6	2	250	"	25	2	J. Kerney, Jr.	'60		....
99	6	8	145	"	26	20	J. Lovero	'62		100/4
100	6	30	105	Trs	55	10	Hester Realty Corp.	'60		80/4
101	8	79	195	"	37	11	National Guard	'27	I	65/9


LAWRENCE TOWNSHIP
1 1/2 0 1mile
Domestic Wells
Industrial Wells
Formation Contact
Kmr Magothy and Raritan Formations
Ŧb Brunswick Shale
Ŧl Lockatong Argillite
Ŧs Stockton Sandstone
P€ Precambrian (Undifferentiated)
PENNINGTON
LAWRENCEVILLE
PRINCETON
Colonial Lake
TRENTON
WEST TRENTON
Jarksville
Berrien City
HOPEWELL TOWNSHIP
LAWRENCE TOWNSHIP
EWING TOWNSHIP
WEST WINDSOR TOWNSHIP
HAMILTON TWP.
Kmr



LAWRENCEVILLE
PRINCESSVILLE
L A W R E N C E
T O W N S H I P
W E S T
T O W N
EWINGVILLE
Bakersville
Colonial Lake
MERCERVILLE
HAMILTON SQUARE
Princeton Junction
T R E N T O N
H A M I L T O N
T O W N S H I P
LAKESIDE PARK
WHITE HORSE
Mapleshade
Spring Lake
Crosswicks
Crosswicks Lake
Carson Rd.
Cold Soil Rd.
Van Kirk Rd.
Blackwells Rd.
Keefe Rd.
Fackler Rd.
Province Line Rd.
Quaker Rd.
Stony Brook
Raritan
Shipetaukin
Princeton Ave.
Denow Rd.
Federal City Rd.
Eggerts Crossing Rd.
Olden Ave.
Delaware
Pennsylvania
Assunpink
Miry Run
Klockner Rd.
E. State St.
Nottingham Way
Hutchinson Rd.
Hughes Dr.
Sloane Ave.
Hamilton Square Rd.
Cypress La.
Kuser Rd.
Greenwood Ave.
Hamilton Ave.
Chambers St.
Liberty St.
Cedar Lane
S. Broad St.
Lalor St.
White Horse Ave.
Yardville Hamilton Sq. Rd.
Calhoun St.
Brunswick Ave.
Rail Road Ave.
DELAWARE RIVER
546
583
206
533
535
33
524
130
1
B-164
Ṯ̄Rb
Ṯ̄Rl
Ṯ̄Rs
P-Є
Єh
Kmr
Kmv

ANALYTICAL DATA
TRENTON DRUM COMPANY
SAMPLING DATE: 03/20/85
CASE: 4040

VOLATILES

SAMPLE NO.	NJL3-S1	NJL3-S2	NJL3-S3	NJL3-S4
TRAFFIC REPORT NO.	BA044	BA045	B3908	B3940
MATRIX	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG
Chloromethane				
Bromomethane				
Vinyl Chloride				
Chloroethane				
Methylene Chloride	17000B	150	16B	16
Acetone	44000B	450		25
Carbondisulfide		J		
1,1-Dichloroethene		7		
1,1-Dichloroethane		J		
Trans-1,2-Dichloroethene				
Chloroform				
1,2-Dichloroethane				
2-Butanone	92000B			
1,1,1-Trichloroethane		94		
Carbon Tetrachloride				
Vinyl Acetate				
Bromodichloromethane				
1,1,2,2-Tetrachloroethane				
1,2-Dichloropropane				
Trans-1,3-Dichloropropene				
Trichloroethene		6		5
Dibromochloromethane		7		
1,1,2-Trichloroethane				
Benzene	270000			
Cis-1,3-Dichloropropene				
2-Chloroethylvinylether				
Bromoform				
2-Hexanone		83		
4-Methyl-2-Pentanone		11		
Tetrachloroethene		170		11
Toluene	320000	460	J	J
Chlorobenzene				
Ethylbenzene		85		
Styrene	J	710		
Total Xylenes		340		

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 - found in blank as well as sample

ANALYTICAL DATA
TRENTON DRUM COMPANY
SAMPLING DATE: 03/20/85
CASE: 4040

SEMI-VOLATILES

SAMPLE NO.	NJL3-S1	NJL3-S2	NJL3-S3	NJL3-S4
TRAFFIC REPORT NO.	BA044	BA045	B3908	B3940
MATRIX	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG
N-Nitrosodimethylamine			J	
Phenol				J
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	J			6700
2-Nitrophenol				
2,4-Dimethylphenol				
Benzoic Acid				
Bis(2-Chloroethoxy)Methane				
2,4-Dichlorophenol				
1,2,4-Trichlorobenzene				
Naphthalene				J
4-Chloroaniline				
Hexachlorobutadiene				
4-Chloro-3-Methylphenol				
2-Methylnaphthalene				J
Hexachlorcyclopentadiene				
2,4,6-Trichlorophenol				
2,4,5-Trichlorophenol				
2-Chloronaphthalene				
2-Nitroaniline				
Dimethyl Phthalate				
Acenaphthylene				
3-Nitroaniline			34000	
Acenaphthene				
2,4-Dinitrophenol				
4-Nitrophenol				
Dibenzofuran				
2,4-Dinitrotoluene				
2,6-Dinitrotoluene				
Diethyl Phthalate				
4-Chlorophenyl phenyl ether				
Fluorene				
4-Nitroaniline				
4,6-Dinitro-2-Methylphenol				
N-Nitrosodiphenylamine				
4-Bromophenyl phenyl ether				
Hexachlorobenzene				
Pentachlorophenol				
Phenanthrene		J		J
Anthracene				
Di-n-Butylphthalate	J	240,000	6900	4700

ANALYTICAL DATA
TRENTON DRUM COMPANY
SAMPLING DATE: 03/20/85
CASE: 4040

SEMI-VOLATILES

SAMPLE NO.	NJL3-S1	NJL3-S2	NJL3-S3	NJL3-S4
TRAFFIC REPORT NO.	BA044	BA045	B3908	B3940
MATRIX	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG
Fluoranthene	J			J
Benzidine				
Pyrene	J		J	J
Butylbenzylphthalate	J	J	990,000	4500
3,3'-Dichlorobenzidine				
Benzo(a)Anthracene	J			J
Bis(2-Ethylhexyl)Phthalate	120,000	76,000	150,000	89000
Chrysene	J			J
Di-n-Octyl Phthalate			J	J
Benzo(b)Fluoranthene	J			J
Benzo(k)Fluoranthene	J			
Benzo(a)Pyrene				J
Indeno(1,2,3-cd)Pyrene				
Dibenzo(a,h)Anthracene				
Benzo(shi)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

PESTICIDES/PCBs

SAMPLE NO.	NJL3-S1	NJL3-S2	NJL3-S3	NJL3-S4
TRAFFIC REPORT NO.	BA044	BA045	B3908	B3940
MATRIX	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG
Alpha-BHC	E			E
Beta-BHC	E			E
Delta-BHC	E			E
Gamma-BHC (Lindane)	E			E
Heptachlor	E			E
Aldrin	E			E
Heptachlor Epoxide	E			E
Endosulfan I	E			E
Dieldrin	E			E
4,4'-DDE	E		960	E
Endrin	E			E
Endosulfan II	E			E
4,4'-DDD	E			E
Endrin Aldehyde	E			E
4,4'-DDT	E			E
Methoxychlor	E			E
Endrin Ketone	E			E
Chlordane	E			E
Toxaphene	E			E
Arochlor-1016	E			E
Arochlor-1221	E			E
Arochlor-1232	E			E
Arochlor-1242	E			E
Arochlor-1248	E	5000		E
Arochlor-1254	E	13,000		E
Arochlor-1260	E		650	E

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

ANALYTICAL DATA
TRENTON DRUM COMPANY
SAMPLING DATE: 03/20/85
CASE: 4040

INORGANICS				
SAMPLE NO.	NJL3-S1	NJL3-S2	NJL3-S3	NJL3-S4
TRAFFIC REPORT NO.	MBB187	MBB188	MBB189	MBB190
MATRIX	SOIL	SOIL	SOIL	SOIL
UNITS	MG/KG	MG/KG	MG/KG	MG/KG
Aluminum	4399	9670	7518	6632
Antimony	J	J	J	
Arsenic	J	J	J	J
Barium	259	166	268	274
Beryllium	J	J	J	J
Cadmium	68.8	6.8	7.5	25.5
Calcium	J	22478	13072	4863
Chromium	67	110	1716	46
Cobalt	J	58	35	J
Copper	62	1036	146	106
Iron	55154	52286	66928	48701
Lead	440	455	6307	263
Magnesium	J	8989	3445	J
Manganese	J	J	J	359
Mercury	0.3	2	1.7	0.4
Nickel	28	51	33	33
Potassium	J	J	J	J
Selenium	J	J	J	J
Silver	J	10	J	16.4
Sodium	J	J	J	J
Thallium				6
Tin		24		
Vanadium	25.1	43	J	31.2
Zinc	682	375	436	382

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

ANALYTICAL DATA
TRENTON DRUM COMPANY
SAMPLING DATE: 03/20/85
CASE: 4040

VOLATILES

SAMPLE NO.	NJL3-S5	NJL3-S6	NJL3-SED1	NJL3-SED2
TRAFFIC REPORT NO.	B3904	BA127	BA128	BA129
MATRIX	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG
Chloromethane				
Bromomethane				
Vinyl Chloride				
Chloroethane				
Methylene Chloride	23	E	E	E
Acetone	J	E	E	E
Carbondisulfide				
1,1-Dichloroethene				
1,1-Dichloroethane				
Trans-1,2-Dichloroethene				
Chloroform				
1,2-Dichloroethane				
2-Butanone	J	E	E	
1,1,1-Trichloroethane	J			
Carbon Tetrachloride				
Vinyl Acetate				J
Bromodichloromethane				
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	7			
Toluene	6		J	
Chlorobenzene				
Ethylbenzene				
Styrene				
Total Xylenes				

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

ANALYTICAL DATA
TRENTON DRUM COMPANY
SAMPLING DATE: 03/20/85
CASE: 4040

SEMI-VOLATILES

SAMPLE NO.	NJL3-S5	NJL3-S6	NJL3-SED1	NJL3-SED2
TRAFFIC REPORT NO.	B3904	BA127	BA128	BA129
MATRIX	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG
N-Nitrosodimethylamine				
Phenol				
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		J		
2-Nitrophenol				
2,4-Dimethylphenol				
Benzoic Acid	J	J		
Bis(2-Chloroethoxy)Methane				
2,4-Dichlorophenol				
1,2,4-Trichlorobenzene				
Naphthalene		J		
4-Chloroaniline				
Hexachlorobutadiene				
4-Chloro-3-Methylphenol				
2-Methylnaphthalene		J		
Hexachlorcyclopentadiene				
2,4,6-Trichlorophenol				
2,4,5-Trichlorophenol				
2-Chloronaphthalene				
2-Nitroaniline				
Dimethyl Phthalate				
Acenaphthylene			6900	
3-Nitroaniline				
Acenaphthene			8700	
2,4-Dinitrophenol				
4-Nitrophenol				
Dibenzofuran			5500	
2,4-Dinitrotoluene				
2,6-Dinitrotoluene				
Diethyl Phthalate	J		12000	790
4-Chlorophenyl phenyl ether				
Fluorene			10000	
4-Nitroaniline				
4,6-Dinitro-2-Methylphenol				
N-Nitrosodiphenylamine				
4-Bromophenyl phenyl ether				
Hexachlorobenzene				
Pentachlorophenol				
Phenanthrene		J	120,000	790
Anthracene				
Di-n-Butylphthalate		J		1200

ANALYTICAL DATA
TRENTON DRUM COMPANY
SAMPLING DATE: 03/20/85
CASE: 4040

SEMI-VOLATILES

SAMPLE NO.	NJL3-S5	NJL3-S6	NJL3-SED1	NJL3-SED2
TRAFFIC REPORT NO.	B3904	BA127	BA128	BA129
MATRIX	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG
Fluoranthene				1300
Benzidine				
Pyrene		J	24000	1100
Butylbenzylphthalate		4900	25000	1200
3,3'-Dichlorobenzidine				
Benzo(a)Anthracene			250,000	560
Bis(2-Ethylhexyl)Phthalate		7900	89000	1200
Chrysene			92000	690
Di-n-Octyl Phthalate	J	J	4500	
Benzo(b)Fluoranthene		J	58000	530
Benzo(k)Fluoranthene			54000	460
Benzo(a)Pyrene		J	55000	450
Indeno(1,2,3-cd)Pyrene			41000	300
Dibenzo(a,h)Anthracene			14000	
Benzo(shi)Perylene			36000	270

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

PESTICIDES/PCBs

SAMPLE NO.	NJL3-S5	NJL3-S6	NJL3-SED1	NJL3-SED2
TRAFFIC REPORT NO.	B3904	BA127	BA128	BA129
MATRIX	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/MG	UG/KG	UG/KG
Alpha-BHC	E	E		
Beta-BHC	E	E		
Delta-BHC	E	E		
Gamma-BHC (Lindane)	E	E		
Heptachlor	E	E		
Aldrin	E	E		
Heptachlor Epoxide	E	E		
Endosulfan I	E	E		
Dieldrin	E	E		
4,4'-DDE	E	E	10	11
Endrin	E	E		
Endosulfan II	E	E		
4,4'-DDD	E	E		20
Endrin Aldehyde	E	E		
4,4'-DDT	E	E		35
Methoxychlor	E	E		
Endrin Ketone	E	E		
Chlordane	E	E	340	J
Toxaphene	E	E		
Arochlor-1016	E	E		
Arochlor-1221	E	E		
Arochlor-1232	E	E		
Arochlor-1242	E	E		
Arochlor-1248	E	E		
Arochlor-1254	E	E		
Arochlor-1260	E	E	170	J

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

ANALYTICAL DATA
TRENTON DRUM COMPANY
SAMPLING DATE: 03/20/85
CASE: 4040

INORGANICS

SAMPLE NO.	NJL3-S5	NJL3-S6	NJL3-SED1	NJL3-SED2
TRAFFIC REPORT NO.	MBB191	MBB192	MBB193	MBB194
MATRIX	SOIL	SOIL	SOIL	SOIL
UNITS	MG/KG	MG/KG	MG/KG	MG/KG
Aluminum	138529	18111	2786	10750
Antimony				
Arsenic	J	J	J	J
Barium	115	845	J	J
Beryllium	J	3.4	J	J
Cadmium	7.3	9.0		
Calcium	7030	21986	5847	J
Chromium	139	92	14	21
Cobalt	30	J	J	J
Copper	250	296	25	18
Iron	109044	48951	9239	21112
Lead	494	450	187	51
Magnesium	5049	4826	3001	J
Manganese	746	853	138	211
Mercury	0.6	0.3		
Nickel	43	63		J
Potassium	J	5818	J	J
Selenium	J	J	J	J
Silver	8.5	J	J	J
Sodium	J	J		
Thallium				
Tin				
Vanadium	56.8	51.3	J	J
Zinc	824	1173	145	190

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

ANALYTICAL DATA
TRENTON DRUM COMPANY
SAMPLING DATE: 03/20/85
CASE: 4040

VOLATILES

SAMPLE NO.	NJL3-SED3	NJL3-SW1	NJL3-SW2	NJL3-SW3
TRAFFIC REPORT NO.	B4130	B4143	B4145	B4144
MATRIX	SOIL	WATER	WATER	WATER
UNITS	UG/KG	UG/L	UG/L	UG/L
Chloromethane				
Bromomethane				
Vinyl Chloride				
Chloroethane				
Methylene Chloride	32	E	67B	E
Acetone	120	E	E	E
Carbondisulfide				
1,1-Dichloroethene				J
1,1-Dichloroethane			9	20
Trans-1,2-Dichloroethene				18
Chloroform				
1,2-Dichloroethane				
2-Butanone	200	E	E	13
1,1,1-Trichloroethane			8	36
Carbon Tetrachloride				
Vinyl Acetate				
Bromodichloromethane				
1,1,2,2-Tetrachloroethane				
1,2-Dichloropropane				
Trans-1,3-Dichloropropene				
Trichloroethene			J	14
Dibromochloromethane				
1,1,2-Trichloroethane				
Benzene				
Cis-1,3-Dichloropropene				
2-Chloroethylvinylether				
Bromoform				
2-Hexanone			J	J
4-Methyl-2-Pentanone			J	J
Tetrachloroethene				J
Toluene	150	J		J
Chlorobenzene				
Ethylbenzene	170			
Styrene				
Total Xylenes	300		J	J

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 - found in blank as well as sample

ANALYTICAL DATA
TRENTON DRUM COMPANY
SAMPLING DATE: 03/20/85
CASE: 4040

SEMI-VOLATILES

SAMPLE NO.	NJL3-SED3	NJL3-SW1	NJL3-SW2	NJL3-SW3
TRAFFIC REPORT NO.	B4130	B4143	B4145	B4144
MATRIX	SOIL	WATER	WATER	WATER
UNITS	UG/KG	UG/L	UG/L	UG/L
N-Nitrosodimethylamine				
Phenol	J			
Aniline				
Bis(2-Chloroethyl)Ether				
2-Chlorophenol				
1,3-Dichlorobenzene	3200			
1,4-Dichlorobenzene				
Benzyl Alcohol				
1,2-Dichlorobenzene	J			
2-Methylphenol				
Bis(2-Chloroisopropyl)Ether			J	
4-Methylphenol				
N-Nitroso-Di-n-Propylamine				
Hexachloroethane				
Nitrobenzene				
Isophorone	J		21	150
2-Nitrophenol				
2,4-Dimethylphenol				
Benzoic Acid			J	
Bis(2-Chloroethoxy)Methane				
2,4-Dichlorophenol				
1,2,4-Trichlorobenzene				
Naphthalene	J			
4-Chloroaniline				
Hexachlorobutadiene				
4-Chloro-3-Methylphenol				
2-Methylnaphthalene	5200			
Hexochlorcyclopentadiene				
2,4,6-Trichlorophenol				
2,4,5-Trichlorophenol				
2-Chloronaphthalene				
2-Nitroaniline				
Dimethyl Phthalate				
Acenaphthylene	J			
3-Nitroaniline				
Acenaphthene				
2,4-Dinitrophenol				
4-Nitrophenol				
Dibenzofuran	J			
2,4-Dinitrotoluene				
2,6-Dinitrotoluene				
Diethyl Phthalate	J			
4-Chlorophenyl phenyl ether				
Fluorene	J			
4-Nitroaniline				
4,6-Dinitro-2-Methylphenol				
N-Nitrosodiphenylamine				
4-Bromophenyl phenyl ether				
Hexachlorobenzene	3500			
Pentachlorophenol				
Phenanthrene	2700			
Anthracene	J			
Di-n-Butylphthalate	J	J	J	

ANALYTICAL DATA
TRENTON DRUM COMPANY
SAMPLING DATE: 03/20/85
CASE: 4040

SEMI-VOLATILES

SAMPLE NO.	NJL3-SED3	NJL3-SW1	NJL3-SW2	NJL3-SW3
TRAFFIC REPORT NO.	BA130	B4143	B4145	B4144
MATRIX	SOIL	WATER	WATER	WATER
UNITS	UG/KG	UG/L	UG/L	UG/L
Fluoranthene	J			
Benzidine				
Pyrene	J			
Butylbenzylphthalate	6300			
3,3'-Dichlorobenzidine				
Benzo(a)Anthracene	J			
Bis(2-Ethylhexyl)Phthalate	100,000		J	J
Chrysene	J			
Di-n-Octyl Phthalate	J			
Benzo(b)Fluoranthene	J			
Benzo(K)Fluoranthene	J			
Benzo(a)Pyrene	J			
Indeno(1,2,3-cd)Pyrene				
Dibenzo(a,h)Anthracene				
Benzo(shi)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

PESTICIDES/PCBs

SAMPLE NO.	NJL3-SED3	NJL3-SW1	NJL3-SW2	NJL3-SW3
TRAFFIC REPORT NO.	BA130	B4143	B4145	B4144
MATRIX	SOIL	WATER	WATER	WATER
UNITS	UG/KG	UG/L	UG/L	UG/L
Alpha-BHC	E	E	E	E
Beta-BHC	E	E	E	E
Delta-BHC	E	E	E	E
Gamma-BHC (Lindane)	E	E	E	E
Heptachlor	E	E	E	E
Aldrin	E	E	E	E
Heptachlor Epoxide	E	E	E	E
Endosulfan I	E	E	E	E
Dieldrin	E	E	E	E
4,4'-DDE	E	E	E	E
Endrin	E	E	E	E
Endosulfan II	E	E	E	E
4,4'-DDD	E	E	E	E
Endrin Aldehyde	E	E	E	E
4,4'-DDT	E	E	E	E
Methoxychlor	E	E	E	E
Endrin Ketone	E	E	E	E
Chlordane	E	E	E	E
Toxaphene	E	E	E	E
Arochlor-1016	E	E	E	E
Arochlor-1221	E	E	E	E
Arochlor-1232	E	E	E	E
Arochlor-1242	E	E	E	E
Arochlor-1248	E	E	E	E
Arochlor-1254	E	E	E	E
Arochlor-1260	E	E	E	E

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

ANALYTICAL DATA
TRENTON DRUM COMPANY
SAMPLING DATE: 03/20/85
CASE: 4040

INORGANICS

SAMPLE NO.	NJL3-SED3	NJL3-SW1	NJL3-SW2	NJL3-SW3
TRAFFIC REPORT NO.	MBB195	MBB196	MBB198	MBB197
MATRIX	SOIL	WATER	WATER	WATER
UNITS	MG/KG	UG/L	UG/L	UG/L
Aluminum	8493	1874	8680	1086
Antimony				
Arsenic	J		23	11
Barium	J	J	J	J
Beryllium	J		J	
Cadmium	8		7.7	J
Calcium	J	32950	44820	42800
Chromium	33	12	30	31
Cobalt	J		J	J
Copper	32	J	44	J
Iron	15833	E	E	E
Lead	152	94	214	151
Magnesium	J	8362	11510	9577
Manganese	150	106	818	672
Mercury	1.8	0.4	0.6	2.9
Nickel	J			
Potassium	J	J	6431	5393
Selenium	J			
Silver	J	11.2	J	J
Sodium	J	47410	104000	91820
Thallium			10	
Tin		E	E	E
Vanadium	J	J	J	J
Zinc	265	216	468	233

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

ANALYTICAL DATA
TRENTON DRUM COMPANY
SAMPLING DATE: 03/20/85
CASE: 4040

VOLATILES

SAMPLE NO.	NJL3-WB1
TRAFFIC REPORT NO.	B4146
MATRIX	WATER
UNITS	UG/L
Chloromethane	
Bromomethane	
Vinyl Chloride	
Chloroethane	
Methylene Chloride	E
Acetone	
Carbondisulfide	
1,1-Dichloroethene	
1,1-Dichloroethane	
Trans-1,2-Dichloroethene	
Chloroform	
1,2-Dichloroethane	
2-Butanone	220B
1,1,1-Trichloroethane	
Carbon Tetrachloride	
Vinyl Acetate	
Bromodichloromethane	
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
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 - found in blank as well as sample

ANALYTICAL DATA
TRENTON DRUM COMPANY
SAMPLING DATE: 03/20/85
CASE: 4040

SEMI-VOLATILES

SAMPLE NO.	NJL3-WB1
TRAFFIC REPORT NO.	B4146
MATRIX	WATER
UNITS	UG/L
N-Nitrosodimethylamine	
Phenol	
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	
Hexachlorcyclopentadiene	
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	
2,6-Dinitrotoluene	
Diethyl Phthalate	
4-Chlorophenyl phenyl ether	
Fluorene	
4-Nitroaniline	
4,6-Dinitro-2-Methylphenol	
N-Nitrosodiphenylamine	
4-Bromophenyl phenyl ether	
Hexachlorobenzene	
Pentachlorophenol	
Phenanthrene	
Anthracene	
Di-n-Butylphthalate	J

ANALYTICAL DATA
TRENTON DRUM COMPANY
SAMPLING DATE: 03/20/85
CASE: 4040

SEMI-VOLATILES

SAMPLE NO.	NJL3-WB1
TRAFFIC REPORT NO.	B4146
MATRIX	WATER
UNITS	UG/L
Fluoranthene	
Benzidine	
Pyrene	
Butylbenzylphthalate	
3,3'-Dichlorobenzidine	
Benzo(a)Anthracene	
Bis(2-Ethylhexyl)Phthalate	69
Chrysene	
Di-n-Octyl Phthalate	
Benzo(b)Fluoranthene	
Benzo(K)Fluoranthene	
Benzo(a)Pyrene	
Indeno(1,2,3-cd)Pyrene	
Dibenzo(a,h)Anthracene	
Benzo(shi)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

PESTICIDES/PCBs

SAMPLE NO.	NJL3-WB1
TRAFFIC REPORT NO.	B4146
MATRIX	WATER
UNITS	UG/L
Alpha-BHC	
Beta-BHC	
Delta-BHC	
Gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
Endosulfan I	
Dieldrin	
4,4'-DDE	
Endrin	
Endosulfan II	
4,4'-DDD	
Endrin Aldehyde	
4,4'-DDT	
Methoxychlor	
Endrin Ketone	
Chlordane	
Toxaphene	
Arochlor-1016	
Arochlor-1221	
Arochlor-1232	
Arochlor-1242	
Arochlor-1248	
Arochlor-1254	
Arochlor-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

ANALYTICAL DATA
TRENTON DRUM COMPANY
SAMPLING DATE: 03/20/85
CASE: 4040

INORGANICS	
SAMPLE NO.	NJL3-WB1
TRAFFIC REPORT NO.	MBB199
MATRIX	WATER
UNITS	UG/L
Aluminum	J
Antimony	
Arsenic	
Barium	
Beryllium	
Cadmium	
Calcium	J
Chromium	
Cobalt	J
Copper	E
Iron	
Lead	
Magnesium	J
Manganese	
Mercury	
Nickel	J
Potassium	
Selenium	
Silver	
Sodium	
Thallium	E
Tin	
Vanadium	27
Zinc	

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

```
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD?
3Enter GO to begin processing: GO                                                   3
3                                                                                    3
3Dataset name: NJL3                    Length:      6                               3
                                       No. of variables:    4                       3
3                                                                                    3
3  #  ! POP         ! HOUSE       ! DISTANCE         ! SECTOR      !                3
                                                                                     3
3-----------------------------------------------------------------------------------3
3--                                                                                  3
3    1!        626 !        247 !  0.40000001      !           1 !                3
3    2!       2385 !        956 !  0.81000000      !           1 !                3
3    3!      17060 !       6403 !   1.6000000      !           1 !                3
3    4!      64263 !      25143 !   3.2000000      !           1 !                3
3    5!      66788 !      23591 !   4.8000002      !           1 !                3
3    6!      41680 !      15911 !   6.4000001      !           1 !                3
3 (End of data for these variables.)                                                3
                                                                                    3
3Press RETURN to continue, type Pnnn to position record                             3
3or type END to exit data window:                                                   3
 O;i"" "                                                                            3
MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMAIN>
13-Aug-85  09:21 AM                OnLine                                   Cap
```

REF3

Environmental Protection Agency. CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

0026

Sample Number BA044

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Radian
Case No: 4040
Lab Sample ID No: 4EU03214V01
QC Report No: 54
Sample Matrix: Soil
Contract No: 68-01-6853
Data Release Authorized By: K. Hollandsworth
Date Sample Received: 3-21-85

Volatile Compounds

Concentration: Low (Medium) (Circle One)
Date Extracted/Prepared: 3-29-85
Date Analyzed: 3-29-85
Conc/Dil Factor: 2GR/10ML pH 5.9
Percent Moisture: 30
Percent Moisture (Decanted): ——

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	25000 u
74-83-9	Bromomethane	25000 u
75-01-4	Vinyl Chloride	25000 u
75-00-3	Chloroethane	25000 u
75-09-2	Methylene Chloride	17000 B ✓
67-64-1	Acetone	44000 B ✓
75-15-0	Carbon Disulfide	12500 u
75-35-4	1, 1-Dichloroethene	12500 u
75-34-3	1, 1-Dichloroethane	12500 u
156-60-5	Trans-1, 2-Dichloroethene	12500 u
67-66-3	Chloroform	12500 u
107-06-2	1, 2-Dichloroethane	12500 u
78-93-3	2-Butanone	92000 B ✓
71-55-6	1, 1, 1-Trichloroethane	12500 u
56-23-5	Carbon Tetrachloride	12500 u
108-05-4	Vinyl Acetate	25000 u
75-27-4	Bromodichloromethane	12500 u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	12500 u
78-87-5	1, 2-Dichloropropane	12500 u
10061-02-6	Trans-1, 3-Dichloropropene	12500 u
79-01-6	Trichloroethene	12500 u
124-48-1	Dibromochloromethane	12500 u
79-00-5	1, 1, 2-Trichloroethane	12500 u
71-43-2	Benzene	270000 ✓
10061-01-5	cis-1, 3-Dichloropropene	12500 u
110-75-8	2-Chloroethylvinylether	25000 u
75-25-2	Bromoform	12500 u
591-78-6	2-Hexanone	25000 u
108-10-1	4-Methyl-2-Pentanone	25000 u
127-18-4	Tetrachloroethene	12500 u
108-88-3	Toluene	320000 ✓
108-90-7	Chlorobenzene	12500 u
100-41-4	Ethylbenzene	12500 u
100-42-5	Styrene	12500 J ✓
	Total Xylenes	12500 u

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 each flag 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., 10 J)

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

0027

onmental Protection Agency, CLP Sample Management Office,
J. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
BA C44

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-9-85

Conc/Dil Factor: 0.31g : 1ml

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	46,000U
108-95-2	Phenol	46,000U
62-53-3	Aniline	46,000U
111-44-4	bis(-2-Chloroethyl)Ether	46,000U
95-57-8	2-Chlorophenol	46,000U
541-73-1	1, 3-Dichlorobenzene	46,000U
106-46-7	1, 4-Dichlorobenzene	46,000U
100-51-6	Benzyl Alcohol	46,000U
95-50-1	1, 2-Dichlorobenzene	46,000U
95-48-7	2-Methylphenol	46,000U
39638-32-9	bis(2-chloroisopropyl)Ether	46,000U
106-44-5	4-Methylphenol	46,000U
621-64-7	N-Nitroso-Di-n-Propylamine	46,000U
67-72-1	Hexachloroethane	46,000U
98-95-3	Nitrobenzene	46,000U
78-59-1	Isophorone	46,000J ✓
88-75-5	2-Nitrophenol	46,000U
105-67-9	2, 4-Dimethylphenol	46,000U
65-85-0	Benzoic Acid	230,000U
111-91-1	bis(-2-Chloroethoxy)Methane	46,000U
120-83-2	2, 4-Dichlorophenol	46,000U
120-82-1	1, 2, 4-Trichlorobenzene	46,000U
91-20-3	Naphthalene	46,000U
106-47-8	4-Chloroaniline	46,000U
87-68-3	Hexachlorobutadiene	46,000U
59-50-7	4-Chloro-3-Methylphenol	46,000U
91-57-6	2-Methylnaphthalene	46,000U
77-47-4	Hexachlorocyclopentadiene	46,000U
88-06-2	2, 4, 6-Trichlorophenol	46,000U
95-95-4	2, 4, 5-Trichlorophenol	230,000U
91-58-7	2-Chloronaphthalene	46,000U
88-74-4	2-Nitroaniline	230,000U
131-11-3	Dimethyl Phthalate	46,000U
208-96-8	Acenaphthylene	46,000U
99-09-2	3-Nitroaniline	230,000U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	46,000U
51-28-5	2, 4-Dinitrophenol	230,000U
100-02-7	4-Nitrophenol	230,000U
132-64-9	Dibenzofuran	46,000U
121-14-2	2, 4-Dinitrotoluene	46,000U
606-20-2	2, 6-Dinitrotoluene	46,000U
84-66-2	Diethylphthalate	46,000U
7005-72-3	4-Chlorophenyl-phenylether	46,000U
86-73-7	Fluorene	46,000U
100-01-6	4-Nitroaniline	230,000U
534-52-1	4, 6-Dinitro-2-Methylphenol	230,000U
86-30-6	N-Nitrosodiphenylamine (1)	46,000U
101-55-3	4-Bromophenyl-phenylether	46,000U
118-74-1	Hexachlorobenzene	46,000U
87-86-5	Pentachlorophenol	230,000U
85-01-8	Phenanthrene	46,000U
120-12-7	Anthracene	46,000U
84-74-2	Di-n-Butylphthalate	46,000J ✓
206-44-0	Fluoranthene	46,000J ✓
92-87-5	Benzidine	230,000U
129-00-0	Pyrene	46,000J ✓
85-68-7	Butylbenzylphthalate	46,000J ✓
91-94-1	3, 3'-Dichlorobenzidine	92,000U
56-55-3	Benzo(a)Anthracene	46,000J ✓
117-81-7	bis(2-Ethylhexyl)Phthalate	120,000 ✓
218-01-9	Chrysene	46,000J ✓
117-84-0	Di-n-Octyl Phthalate	46,000U
205-99-2	Benzo(b)Fluoranthene	46,000J ✓
207-08-9	Benzo(k)Fluoranthene	46,000J ✓
50-32-8	Benzo(a)Pyrene	46,000U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	46,000U
53-70-3	Dibenz(a, h)Anthracene	46,000U
191-24-2	Benzo(g, h, i)Perylene	46,000U

(1)-Cannot be separated from diphenylamine

...mental Protection Agency. CLP Sample Management Office,
...O. Box 818. Alexandria, Virginia 22313 703/557-2490

0023

Sample Number
BA 044

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-10-85

Conc/Dil Factor: 1 g : 5 ml

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	~~100~~ u
319-85-7	Beta-BHC	~~100~~ u
319-86-8	Delta-BHC	~~100~~ u
58-89-9	Gamma-BHC (Lindane)	~~100~~ u
76-44-8	Heptachlor	~~100~~ u
309-00-2	Aldrin	~~100~~ u
1024-57-3	Heptachlor Epoxide	~~100~~ u
959-98-8	Endosulfan I	~~100~~ u
60-57-1	Dieldrin	~~200~~ u
72-55-9	4, 4'-DDE	~~200~~ u
72-20-8	Endrin	~~200~~ u
33213-65-9	Endosulfan II	~~200~~ u
72-54-8	4, 4'-DDD	~~200~~ u
7421-93-4	Endrin Aldehyde	~~200~~ u
1031-07-8	Endosulfan Sulfate	~~200~~ u
50-29-3	4, 4'-DDT	~~200~~ u
72-43-5	Methoxychlor	~~1000~~ u
53494-70-5	Endrin Ketone	~~1000~~ u
57-74-9	Chlordane	~~2000~~ u
8001-35-2	Toxaphene	~~1000~~ u
12674-11-2	Aroclor-1016	~~1000~~ u
11104-28-2	Aroclor-1221	~~1000~~ u
11141-16-5	Aroclor-1232	~~1000~~ u
53469-21-9	Aroclor-1242	~~1000~~ u
12672-29-6	Aroclor-1248	~~34,000~~
11097-69-1	Aroclor-1254	~~74,000~~
11096-82-5	Aroclor-1260	~~2,000~~ u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 1 g V_t 5000 ml V_i 2 ml

Protection Agency. CLP Sample Management Office.
Alexandria, Virginia 22313 703/557-2490

0091

Sample Number
BA045

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Radian
Lab Sample ID No: 4E1L03214V02
Sample Matrix: Soil
Data Release Authorized By: K. Wheldwell

Case No: 4040
QC Report No: 54
Contract No: 68-01-6853
Date Sample Received: 3-21-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3-28-85
Date Analyzed: 3-28-85
Conc/Dil Factor: 1:1 pH 6.4
Percent Moisture: 5%
Percent Moisture (Decanted): —

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	10u	
74-83-9	Bromomethane	10u	
75-01-4	Vinyl Chloride	10u	
75-00-3	Chloroethane	10u	
75-09-2	Methylene Chloride	150	✓
67-64-1	Acetone	450	✓
75-15-0	Carbon Disulfide	5J	✓
75-35-4	1. 1-Dichloroethene	7	✓
75-34-3	1. 1-Dichloroethane	5J	✓
156-60-5	Trans-1. 2-Dichloroethene	5u	
67-66-3	Chloroform	5u	
107-06-2	1. 2-Dichloroethane	5u	
78-93-3	2-Butanone	10u	
71-55-6	1. 1. 1-Trichloroethane	94	✓
56-23-5	Carbon Tetrachloride	5u	
108-05-4	Vinyl Acetate	10u	
75-27-4	Bromodichloromethane	5u	

CAS Number		ug/l or ug/Kg (Circle One)	
79-34-5	1. 1. 2. 2-Tetrachloroethane	5u	
78-87-5	1. 2-Dichloropropane	5u	
10061-02-6	Trans-1. 3-Dichloropropene	5u	
79-01-6	Trichloroethene	6	✓
124-48-1	Dibromochloromethane	5u	
79-00-5	1. 1. 2-Trichloroethane	5u	
71-43-2	Benzene	7	✓
10061-01-5	cis-1. 3-Dichloropropene	5u	
110-75-8	2-Chloroethylvinylether	10u	
75-25-2	Bromoform	5u	
591-78-6	2-Hexanone	83	✓
108-10-1	4-Methyl-2-Pentanone	11	✓
127-18-4	Tetrachloroethene	170	✓
108-88-3	Toluene	460	✓
108-90-7	Chlorobenzene	5u	
100-41-4	Ethylbenzene	85	✓
100-42-5	Styrene	710	✓
	Total Xylenes	340	✓

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 each flag 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 ≥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.

Protection Agency, CLP Sample Management Office,
Alexandria, Virginia 22313 703/557-2490

Sample Number
BA045

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-9-85

Conc/Dil Factor: 0.37 g : 1 ml

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	28,000U
108-95-2	Phenol	28,000U
62-53-3	Aniline	28,000U
111-44-4	bis(-2-Chloroethyl)Ether	28,000U
95-57-8	2-Chlorophenol	28,000U
541-73-1	1, 3-Dichlorobenzene	28,000U
106-46-7	1, 4-Dichlorobenzene	28,000U
100-51-6	Benzyl Alcohol	28,000U
95-50-1	1, 2-Dichlorobenzene	28,000U
95-48-7	2-Methylphenol	28,000U
39638-32-9	bis(2-chloroisopropyl)Ether	28,000U
106-44-5	4-Methylphenol	28,000U
621-64-7	N-Nitroso-Di-n-Propylamine	28,000U
67-72-1	Hexachloroethane	28,000U
98-95-3	Nitrobenzene	28,000U
78-59-1	Isophorone	28,000U
88-75-5	2-Nitrophenol	28,000U
105-67-9	2, 4-Dimethylphenol	28,000U
65-85-0	Benzoic Acid	140,000U
111-91-1	bis(-2-Chloroethoxy)Methane	28,000U
120-83-2	2, 4-Dichlorophenol	28,000U
120-82-1	1, 2, 4-Trichlorobenzene	28,000U
91-20-3	Naphthalene	28,000U
106-47-8	4-Chloroaniline	28,000U
87-68-3	Hexachlorobutadiene	28,000U
59-50-7	4-Chloro-3-Methylphenol	28,000U
91-57-6	2-Methylnaphthalene	28,000U
77-47-4	Hexachlorocyclopentadiene	28,000U
88-06-2	2, 4, 6-Trichlorophenol	28,000U
95-95-4	2, 4, 5-Trichlorophenol	140,000U
91-58-7	2-Chloronaphthalene	28,000U
88-74-4	2-Nitroaniline	140,000U
131-11-3	Dimethyl Phthalate	28,000U
208-96-8	Acenaphthylene	28,000U
99-09-2	3-Nitroaniline	140,000U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	28,000U
51-28-5	2, 4-Dinitrophenol	140,000U
100-02-7	4-Nitrophenol	140,000U
132-64-9	Dibenzofuran	28,000U
121-14-2	2, 4-Dinitrotoluene	28,000U
606-20-2	2, 6-Dinitrotoluene	28,000U
84-66-2	Diethylphthalate	28,000U
7005-72-3	4-Chlorophenyl-phenylether	28,000U
86-73-7	Fluorene	28,000U
100-01-6	4-Nitroaniline	140,000U
534-52-1	4, 6-Dinitro-2-Methylphenol	140,000U
86-30-6	N-Nitrosodiphenylamine (1)	28,000U
101-55-3	4-Bromophenyl-phenylether	28,000U
118-74-1	Hexachlorobenzene	28,000U
87-86-5	Pentachlorophenol	140,000U
85-01-8	Phenanthrene	28,000J ✓
120-12-7	Anthracene	28,000U
84-74-2	Di-n-Butylphthalate	240,000 ✓
206-44-0	Fluoranthene	28,000U
92-87-5	Benzidine	140,000U
129-00-0	Pyrene	28,000U
85-68-7	Butylbenzylphthalate	28,000J ✓
91-94-1	3, 3'-Dichlorobenzidine	56,000U
56-55-3	Benzo(a)Anthracene	28,000U
117-81-7	bis(2-Ethylhexyl)Phthalate	76,000 ✓
218-01-9	Chrysene	28,000U
117-84-0	Di-n-Octyl Phthalate	28,000U
205-99-2	Benzo(b)Fluoranthene	28,000U
207-08-9	Benzo(k)Fluoranthene	28,000U
50-32-8	Benzo(a)Pyrene	28,000U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	28,000U
53-70-3	Dibenz(a, h)Anthracene	28,000U
191-24-2	Benzo(g, h, i)Perylene	28,000U ✓

(1)-Cannot be separated from diphenylamine

Protection Agency, CLP Sample Management Office,
Alexandria, Virginia 22313 703/557-2490

0093

Sample Number
BA 045

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-10-85

Conc/Dil Factor: 1g : 5ml

Values are of CSE

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	~~100u~~
319-85-7	Beta-BHC	~~100u~~
319-86-8	Delta-BHC	~~100u~~
58-89-9	Gamma-BHC (Lindane)	~~100u~~
76-44-8	Heptachlor	~~100u~~
309-00-2	Aldrin	~~100u~~
1024-57-3	Heptachlor Epoxide	~~100u~~
959-98-8	Endosulfan I	~~100u~~
60-57-1	Dieldrin	~~200u~~
72-55-9	4, 4'-DDE	~~200u~~
72-20-8	Endrin	~~200u~~
33213-65-9	Endosulfan II	~~200u~~
72-54-8	4, 4'-DDD	~~200u~~
7421-93-4	Endrin Aldehyde	~~200u~~
1031-07-8	Endosulfan Sulfate	~~200u~~
50-29-3	4, 4'-DDT	~~200u~~
72-43-5	Methoxychlor	~~1000u~~
53494-70-5	Endrin Ketone	~~1000u~~
57-74-9	Chlordane	~~2000u~~
8001-35-2	Toxaphene	~~1000u~~
12674-11-2	Aroclor-1016	~~1000u~~
11104-28-2	Aroclor-1221	~~1000u~~
11141-16-5	Aroclor-1232	~~1000u~~
53469-21-9	Aroclor-1242	~~1000u~~
12672-29-6	Aroclor-1248	5,000
11097-69-1	Aroclor-1254	13,000
11096-82-5	Aroclor-1260	2,000u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 1g V_t 5000ml V_i 2ml

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

0168

Sample Number BA127

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Radian
Case No: 4040
Lab Sample ID No: 4FR03210V01
QC Report No: 54
Sample Matrix: Soil
Contract No: 68-01-6853
Data Release Authorized By: K Shulenburger
Date Sample Received: 3-21-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3-27-85
Date Analyzed: 3-27-85
Conc/Dil Factor: 1:1 pH 7.1
Percent Moisture: 29
Percent Moisture (Decanted): —

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	~~26~~ B
67-64-1	Acetone	~~25~~ B
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	~~42~~ B
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

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

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 each flag 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 ≥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.

0169

ironmental Protection Agency, CLP Sample Management Office,
O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
BA127

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-9-85

Conc/Dil Factor: 29.5g : 5ml

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	1700U
108-95-2	Phenol	1700U
62-53-3	Aniline	1700U
111-44-4	bis(-2-Chloroethyl)Ether	1700U
95-57-8	2-Chlorophenol	1700U
541-73-1	1, 3-Dichlorobenzene	1700U
106-46-7	1, 4-Dichlorobenzene	1700U
100-51-6	Benzyl Alcohol	1700U
95-50-1	1, 2-Dichlorobenzene	1700U
95-48-7	2-Methylphenol	1700U
39638-32-9	bis(2-chloroisopropyl)Ether	1700U
106-44-5	4-Methylphenol	1700U
621-64-7	N-Nitroso-Di-n-Propylamine	1700U
67-72-1	Hexachloroethane	1700U
98-95-3	Nitrobenzene	1700U
78-59-1	Isophorone	1700J ✓
88-75-5	2-Nitrophenol	1700U
105-67-9	2, 4-Dimethylphenol	1700U
65-85-0	Benzoic Acid	8,000J ✓
111-91-1	bis(-2-Chloroethoxy)Methane	1700U
120-83-2	2, 4-Dichlorophenol	1700U
120-82-1	1, 2, 4-Trichlorobenzene	1700U
91-20-3	Naphthalene	1700J ✓
106-47-8	4-Chloroaniline	1700U
87-68-3	Hexachlorobutadiene	1700U
59-50-7	4-Chloro-3-Methylphenol	1700U
91-57-6	2-Methylnaphthalene	1700J ✓
77-47-4	Hexachlorocyclopentadiene	1700U
88-06-2	2, 4, 6-Trichlorophenol	1700U
95-95-4	2, 4, 5-Trichlorophenol	8,000U
91-58-7	2-Chloronaphthalene	1700U
88-74-4	2-Nitroaniline	8,000U
131-11-3	Dimethyl Phthalate	1700U
208-96-8	Acenaphthylene	1700U
99-09-2	3-Nitroaniline	8,000U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	1700U
51-28-5	2, 4-Dinitrophenol	8,000U
100-02-7	4-Nitrophenol	8,000U
132-64-9	Dibenzofuran	1700U
121-14-2	2, 4-Dinitrotoluene	1700U
606-20-2	2, 6-Dinitrotoluene	1700U
84-66-2	Diethylphthalate	1700U
7005-72-3	4-Chlorophenyl-phenylether	1700U
86-73-7	Fluorene	1700U
100-01-6	4-Nitroaniline	8,000U
534-52-1	4, 6-Dinitro-2-Methylphenol	8,000U
86-30-6	N-Nitrosodiphenylamine (1)	1700U
101-55-3	4-Bromophenyl-phenylether	1700U
118-74-1	Hexachlorobenzene	1700U
87-86-5	Pentachlorophenol	8,000U
85-01-8	Phenanthrene	1700J ✓
120-12-7	Anthracene	1700U
84-74-2	Di-n-Butylphthalate	1700J ✓
206-44-0	Fluoranthene	1700J ✓
92-87-5	Benzidine	8,000U
129-00-0	Pyrene	1700J ✓
85-68-7	Butylbenzylphthalate	7900 ✓
91-94-1	3, 3'-Dichlorobenzidine	3300U
56-55-3	Benzo(a)Anthracene	1700U
117-81-7	bis(2-Ethylhexyl)Phthalate	7900 ✓
218-01-9	Chrysene	1700U
117-84-0	Di-n-Octyl Phthalate	1700J ✓
205-99-2	Benzo(b)Fluoranthene	1700J ✓
207-08-9	Benzo(k)Fluoranthene	1700U
50-32-8	Benzo(a)Pyrene	1700J ✓
193-39-5	Indeno(1, 2, 3-cd)Pyrene	1700U
53-70-3	Dibenz(a, h)Anthracene	1700U
191-24-2	Benzo(g, h, i)Perylene	1700U

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency. CLP Sample Management Office.
P.O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
BA127

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-10-85

Conc/Dil Factor: 30g : 5ml / 1:4

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	16 u
319-85-7	Beta-BHC	16 u
319-86-8	Delta-BHC	16 u
58-89-9	Gamma-BHC (Lindane)	16 u
76-44-8	Heptachlor	16 u
309-00-2	Aldrin	16 u
1024-57-3	Heptachlor Epoxide	16 u
959-98-8	Endosulfan I	16 u
60-57-1	Dieldrin	32 u
72-55-9	4, 4'-DDE	32 u
72-20-8	Endrin	32 u
33213-65-9	Endosulfan II	32 u
72-54-8	4, 4'-DDD	32 u
7421-93-4	Endrin Aldehyde	32 u
1031-07-8	Endosulfan Sulfate	32 u
50-29-3	4, 4'-DDT	32 u
72-43-5	Methoxychlor	160 u
53494-70-5	Endrin Ketone	160 u
57-74-9	Chlordane	2,300
8001-35-2	Toxaphene	160 u
12674-11-2	Aroclor-1016	160 u
11104-28-2	Aroclor-1221	160 u
11141-16-5	Aroclor-1232	160 u
53469-21-9	Aroclor-1242	160 u
12672-29-6	Aroclor-1248	160 u
11097-69-1	Aroclor-1254	320 u
11096-82-5	Aroclor-1260	3,200

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30g V_t 5000ul V_i 2ul

tal Protection Agency. CLP Sample Management Office.
8. Alexandria, Virginia 22313 703/557-2490

0241

Sample Number BA128

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Radian
Lab Sample ID No: 4FU032 10V02
Sample Matrix: Soil
Data Release Authorized By: K Umlandovich

Case No: 4040
QC Report No: 54
Contract No: 68-01-6853
Date Sample Received: 3-21-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3-27-85
Date Analyzed: 3-27-85
Conc/Dil Factor: 1:1 pH 6.7
Percent Moisture: 7
Percent Moisture (Decanted): —

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	~~12~~ B ✓
67-64-1	Acetone	~~17~~ B ✓
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	~~20~~ 15 ✓
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

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

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 each flag 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., 10 J).

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

ntal Protection Agency. CLP Sample Management Office.
818. Alexandria, Virginia 22313 703/557-2490

0242

Sample Number
BA128

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-9-85

Conc/Dil Factor: 30.2 g : 1 ml

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	330u
108-95-2	Phenol	330u
62-53-3	Aniline	330u
111-44-4	bis(-2-Chloroethyl)Ether	330u
95-57-8	2-Chlorophenol	330u
541-73-1	1, 3-Dichlorobenzene	330u
106-46-7	1, 4-Dichlorobenzene	330u
100-51-6	Benzyl Alcohol	330u
95-50-1	1, 2-Dichlorobenzene	330u
95-48-7	2-Methylphenol	330u
39638-32-9	bis(2-chloroisopropyl)Ether	330u
106-44-5	4-Methylphenol	330u
621-64-7	N-Nitroso-Di-n-Propylamine	330u
67-72-1	Hexachloroethane	330u
98-95-3	Nitrobenzene	330u
78-59-1	Isophorone	330u
88-75-5	2-Nitrophenol	330u
105-67-9	2, 4-Dimethylphenol	330u
65-85-0	Benzoic Acid	1600u
111-91-1	bis(-2-Chloroethoxy)Methane	330u
120-83-2	2, 4-Dichlorophenol	330u
120-82-1	1, 2, 4-Trichlorobenzene	330u
91-20-3	Naphthalene	330u
106-47-8	4-Chloroaniline	330u
87-68-3	Hexachlorobutadiene	330u
59-50-7	4-Chloro-3-Methylphenol	330u
91-57-6	2-Methylnaphthalene	330u
77-47-4	Hexachlorocyclopentadiene	330u
88-06-2	2, 4, 6-Trichlorophenol	330u
95-95-4	2, 4, 5-Trichlorophenol	1600u
91-58-7	2-Chloronaphthalene	330u
88-74-4	2-Nitroaniline	1600u
131-11-3	Dimethyl Phthalate	330u
208-96-8	Acenaphthylene	6900
99-09-2	3-Nitroaniline	1600u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	5700
51-28-5	2, 4-Dinitrophenol	1600u
100-02-7	4-Nitrophenol	1600u
132-64-9	Dibenzofuran	5500
121-14-2	2, 4-Dinitrotoluene	330u
606-20-2	2, 6-Dinitrotoluene	330u
84-66-2	Diethylphthalate	12,000
7005-72-3	4-Chlorophenyl-phenylether	330u
86-73-7	Fluorene	10,000
100-01-6	4-Nitroaniline	1600u
534-52-1	4, 6-Dinitro-2-Methylphenol	1600u
86-30-6	N-Nitrosodiphenylamine (1)	330u
101-55-3	4-Bromophenyl-phenylether	330u
118-74-1	Hexachlorobenzene	330u
87-86-5	Pentachlorophenol	1600u
85-01-8	Phenanthrene	120,000
120-12-7	Anthracene	330u
84-74-2	Di-n-Butylphthalate	330u
206-44-0	Fluoranthene	330u
92-87-5	Benzidine	1600u
129-00-0	Pyrene	24,000
85-68-7	Butylbenzylphthalate	25,000
91-94-1	3, 3'-Dichlorobenzidine	660u
56-55-3	Benzo(a)Anthracene	250,000
117-81-7	bis(2-Ethylhexyl)Phthalate	89,000
218-01-9	Chrysene	92,000
117-84-0	Di-n-Octyl Phthalate	4500
205-99-2	Benzo(b)Fluoranthene	58,000
207-08-9	Benzo(k)Fluoranthene	54,000
50-32-8	Benzo(a)Pyrene	55,000
193-39-5	Indeno(1, 2, 3-cd)Pyrene	41,000
53-70-3	Dibenz(a, h)Anthracene	14,000
191-24-2	Benzo(g, h, i)Perylene	36,000

(1)-Cannot be separated from diphenylamine

Protection Agency. CLP Sample Management Office,
Alexandria, Virginia 22313 703/557-2490

0243

Sample Number
BA 128

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-10-85

Conc/Dil Factor: 30g : 5ml

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	4.0 u
319-85-7	Beta-BHC	4.0 u
319-86-8	Delta-BHC	4.0 u
58-89-9	Gamma-BHC (Lindane)	4.0 u
76-44-8	Heptachlor	4.0 u
309-00-2	Aldrin	4.0 u
1024-57-3	Heptachlor Epoxide	4.0 u
959-98-8	Endosulfan I	4.0 u
60-57-1	Dieldrin	8.0 u
72-55-9	4, 4'-DDE	10.0
72-20-8	Endrin	8.0 u
33213-65-9	Endosulfan II	8.0 u
72-54-8	4, 4'-DDD	8.0 u
7421-93-4	Endrin Aldehyde	8.0 u
1031-07-8	Endosulfan Sulfate	8.0 u
50-29-3	4, 4'-DDT	8.0 u
72-43-5	Methoxychlor	40.0 u
53494-70-5	Endrin Ketone	40.0 u
57-74-9	Chlordane	340.0
8001-35-2	Toxaphene	40.0 u
12674-11-2	Aroclor-1016	40.0 u
11104-28-2	Aroclor-1221	40.0 u
11141-16-5	Aroclor-1232	40.0 u
53469-21-9	Aroclor-1242	40.0 u
12672-29-6	Aroclor-1248	40.0 u
11097-69-1	Aroclor-1254	80.0 u
11096-82-5	Aroclor-1260	170.0

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30g V_t 5000 ml V_i 2 ml

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

0328

Sample Number BA129

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Radian
Lab Sample ID No: 4EV032/0V03
Sample Matrix: Soil
Data Release Authorized By: K. Mulchandani

Case No: 4040
QC Report No: 54
Contract No: 68-01-6853
Date Sample Received: 3-21-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3-27-85
Date Analyzed: 3-27-85
Conc/Dil Factor: 1:1 pH 6.4
Percent Moisture: 31
Percent Moisture (Decanted): —

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	~~15 B~~ ✓
67-64-1	Acetone	~~17 B~~ ✓
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10J ✓
75-27-4	Bromodichloromethane	5U

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

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 each flag 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 ≥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.

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

0329

Sample Number
BA 129

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-9-85

Conc/Dil Factor: 3 l g : 1 ml

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	330u
108-95-2	Phenol	330u
62-53-3	Aniline	330u
111-44-4	bis(-2-Chloroethyl)Ether	330u
95-57-8	2-Chlorophenol	330u
541-73-1	1, 3-Dichlorobenzene	330u
106-46-7	1, 4-Dichlorobenzene	330u
100-51-6	Benzyl Alcohol	330u
95-50-1	1, 2-Dichlorobenzene	330u
95-48-7	2-Methylphenol	330u
39638-32-9	bis(2-chloroisopropyl)Ether	330u
106-44-5	4-Methylphenol	330u
621-64-7	N-Nitroso-Di-n-Propylamine	330u
67-72-1	Hexachloroethane	330u
98-95-3	Nitrobenzene	330u
78-59-1	Isophorone	330u
88-75-5	2-Nitrophenol	330u
105-67-9	2, 4-Dimethylphenol	330u
65-85-0	Benzoic Acid	1600u
111-91-1	bis(-2-Chloroethoxy)Methane	330u
120-83-2	2, 4-Dichlorophenol	330u
120-82-1	1, 2, 4-Trichlorobenzene	330u
91-20-3	Naphthalene	330u
106-47-8	4-Chloroaniline	330u
87-68-3	Hexachlorobutadiene	330u
59-50-7	4-Chloro-3-Methylphenol	330u
91-57-6	2-Methylnaphthalene	330u
77-47-4	Hexachlorocyclopentadiene	330u
88-06-2	2, 4, 6-Trichlorophenol	330u
95-95-4	2, 4, 5-Trichlorophenol	1600u
91-58-7	2-Chloronaphthalene	330u
88-74-4	2-Nitroaniline	1600u
131-11-3	Dimethyl Phthalate	330u
208-96-8	Acenaphthylene	330u
99-09-2	3-Nitroaniline	1600u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	330u
51-28-5	2, 4-Dinitrophenol	1600u
100-02-7	4-Nitrophenol	1600u
132-64-9	Dibenzofuran	330u
121-14-2	2, 4-Dinitrotoluene	330u
606-20-2	2, 6-Dinitrotoluene	330u
84-66-2	Diethylphthalate	790 ✓
7005-72-3	4-Chlorophenyl-phenylether	330u
86-73-7	Fluorene	330u
100-01-6	4-Nitroaniline	1600u
534-52-1	4, 6-Dinitro-2-Methylphenol	1600u
86-30-6	N-Nitrosodiphenylamine (1)	330u
101-55-3	4-Bromophenyl-phenylether	330u
118-74-1	Hexachlorobenzene	330u
87-86-5	Pentachlorophenol	1600u
85-01-8	Phenanthrene	790 ✓
120-12-7	Anthracene	330u
84-74-2	Di-n-Butylphthalate	1200 ✓
206-44-0	Fluoranthene	1300 ✓
92-87-5	Benzidine	1600u
129-00-0	Pyrene	1100 ✓
85-68-7	Butylbenzylphthalate	1200 ✓
91-94-1	3, 3'-Dichlorobenzidine	660u
56-55-3	Benzo(a)Anthracene	560 ✓
117-81-7	bis(2-Ethylhexyl)Phthalate	1200 ✓
218-01-9	Chrysene	690 ✓
117-84-0	Di-n-Octyl Phthalate	330u
205-99-2	Benzo(b)Fluoranthene	530 ✓
207-08-9	Benzo(k)Fluoranthene	460 ✓
50-32-8	Benzo(a)Pyrene	450 ✓
193-39-5	Indeno(1, 2, 3-cd)Pyrene	300 ✓
53-70-3	Dibenz(a, h)Anthracene	330u
191-24-2	Benzo(g, h, i)Perylene	270 ✓

(1)-Cannot be separated from diphenylamine

/onmental Protection Agency. CLP Sample Management Office,
J. Box 818. Alexandria, Virginia 22313 703/557-2490

0330

Sample Number
BA 129

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-10-85

Conc/Dil Factor: 31g : 5ml

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	4.0
319-85-7	Beta-BHC	4.0
319-86-8	Delta-BHC	4.0
58-89-9	Gamma-BHC (Lindane)	4.0
76-44-8	Heptachlor	4.0
309-00-2	Aldrin	4.0
1024-57-3	Heptachlor Epoxide	4.0
959-98-8	Endosulfan I	4.0
60-57-1	Dieldrin	8.0
72-55-9	4, 4'-DDE	11.0
72-20-8	Endrin	8.0
33213-65-9	Endosulfan II	8.0
72-54-8	4, 4'-DDD	20.0
7421-93-4	Endrin Aldehyde	8.0
1031-07-8	Endosulfan Sulfate	8.0
50-29-3	4, 4'-DDT	35.0
72-43-5	Methoxychlor	40.0
53494-70-5	Endrin Ketone	40.0
57-74-9	Chlordane	80.0 J
8001-35-2	Toxaphene	40.0 u
12674-11-2	Aroclor-1016	40.0 u
11104-28-2	Aroclor-1221	40.0 u
11141-16-5	Aroclor-1232	40.0 u
53469-21-9	Aroclor-1242	40.0 u
12672-29-6	Aroclor-1248	40.0 u
11097-69-1	Aroclor-1254	80.0 u
11096-82-5	Aroclor-1260	80.0 J

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 31g V_t 5000ml V_i 2ml

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria. Virginia 22313 703/557-2490

Sample Number
BA130

Organics Analysis Data Sheet
(Page 1)

0394

Laboratory Name: Radian
Case No: 4040
Lab Sample ID No: 4EW03210V04
QC Report No: 54
Sample Matrix: Soil
Contract No: 68-01-6553
Data Release Authorized By: K. Mlardinni
Date Sample Received: 3-21-85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 3-28-85
Date Analyzed: 3-25-85
Conc/Dil Factor: 1:10 pH 6.9
Percent Moisture: 30%
Percent Moisture (Decanted): —

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	100U
74-83-9	Bromomethane	100U
75-01-4	Vinyl Chloride	100U
75-00-3	Chloroethane	100U
75-09-2	Methylene Chloride	32 ✓
67-64-1	Acetone	120 ✓
75-15-0	Carbon Disulfide	50U
75-35-4	1, 1-Dichloroethene	50U
75-34-3	1, 1-Dichloroethane	50U
156-60-5	Trans-1, 2-Dichloroethene	50U
67-66-3	Chloroform	50U
107-06-2	1, 2-Dichloroethane	50U
78-93-3	2-Butanone	200 ✓
71-55-6	1, 1, 1-Trichloroethane	50U
56-23-5	Carbon Tetrachloride	50U
108-05-4	Vinyl Acetate	100U
75-27-4	Bromodichloromethane	50U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	50U
78-87-5	1, 2-Dichloropropane	50U
10061-02-6	Trans-1, 3-Dichloropropene	50U
79-01-6	Trichloroethene	50U
124-48-1	Dibromochloromethane	50U
79-00-5	1, 1, 2-Trichloroethane	50U
71-43-2	Benzene	50U
10061-01-5	cis-1, 3-Dichloropropene	50U
110-75-8	2-Chloroethylvinylether	100U
75-25-2	Bromoform	50U
591-78-6	2-Hexanone	100U
108-10-1	4-Methyl-2-Pentanone	100U
127-18-4	Tetrachloroethene	50U
108-88-3	Toluene	150 ✓
108-90-7	Chlorobenzene	50U
100-41-4	Ethylbenzene	170 ✓
100-42-5	Styrene	50U
	Total Xylenes	300 ✓

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 each flag 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

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

.vironmental Protection Agency. CLP Sample Management Office.
/. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
BA130

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 3-28-84

Date Analyzed: 4-10-85

Conc/Dil Factor: 30.06g/5ml

CAS Number		ug/l or ug/Kg (Circle One)	
62-75-9	N-Nitrosodimethylamine	2400 u	
108-95-2	Phenol	2400 J	✓
62-53-3	Aniline	2400 u	
111-44-4	bis(-2-Chloroethyl)Ether	2400 u	
95-57-8	2-Chlorophenol	2400 u	
541-73-1	1, 3-Dichlorobenzene	3200	✓
106-46-7	1, 4-Dichlorobenzene	2400 u	
100-51-6	Benzyl Alcohol	2400 u	
95-50-1	1, 2-Dichlorobenzene	2400 J	✓
95-48-7	2-Methylphenol	2400 u	
39638-32-9	bis(2-chloroisopropyl)Ether	2400 u	
106-44-5	4-Methylphenol	2400 u	
621-64-7	N-Nitroso-Di-n-Propylamine	2400 u	
67-72-1	Hexachloroethane	2400 u	
98-95-3	Nitrobenzene	2400 u	
78-59-1	Isophorone	2400 J	✓
88-75-5	2-Nitrophenol	2400 u	
105-67-9	2, 4-Dimethylphenol	2400 u	
65-85-0	Benzoic Acid	12000 u	
111-91-1	bis(-2-Chloroethoxy)Methane	2400 u	
120-83-2	2, 4-Dichlorophenol	2400 u	
120-82-1	1, 2, 4-Trichlorobenzene	2400 u	
91-20-3	Naphthalene	2400 J	✓
106-47-8	4-Chloroaniline	2400 u	
87-68-3	Hexachlorobutadiene	2400 u	
59-50-7	4-Chloro-3-Methylphenol	2400 u	
91-57-6	2-Methylnaphthalene	5200	✓
77-47-4	Hexachlorocyclopentadiene	2400 u	
88-06-2	2, 4, 6-Trichlorophenol	2400 u	
95-95-4	2, 4, 5-Trichlorophenol	12000 u	
91-58-7	2-Chloronaphthalene	2400 u	
88-74-4	2-Nitroaniline	12000 u	
131-11-3	Dimethyl Phthalate	2400 u	
208-96-8	Acenaphthylene	2400 J	✓
99-09-2	3-Nitroaniline	12000 u	

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	2400 u	
51-28-5	2, 4-Dinitrophenol	12000 u	
100-02-7	4-Nitrophenol	12000 u	
132-64-9	Dibenzofuran	2400 J	✓
121-14-2	2, 4-Dinitrotoluene	2400 u	
606-20-2	2, 6-Dinitrotoluene	2400 u	
84-66-2	Diethylphthalate	2400 J	✓
7005-72-3	4-Chlorophenyl-phenylether	2400 u	
86-73-7	Fluorene	2400 J	✓
100-01-6	4-Nitroaniline	12000 u	
534-52-1	4, 6-Dinitro-2-Methylphenol	12000 u	
86-30-6	N-Nitrosodiphenylamine (1)	2400 u	
101-55-3	4-Bromophenyl-phenylether	2400 u	
118-74-1	Hexachlorobenzene	3500	✓
87-86-5	Pentachlorophenol	12000 u	
85-01-8	Phenanthrene	2700	✓
120-12-7	Anthracene	2400 J	✓
84-74-2	Di-n-Butylphthalate	2400 J	✓
206-44-0	Fluoranthene	2400 J	✓
92-87-5	Benzidine	12000 u	
129-00-0	Pyrene	2400 J	✓
85-68-7	Butylbenzylphthalate	6300	✓
91-94-1	3, 3'-Dichlorobenzidine	4800 u	
56-55-3	Benzo(a)Anthracene	2400 J	✓
117-81-7	bis(2-Ethylhexyl)Phthalate	100000	✓
218-01-9	Chrysene	2400 J	✓
117-84-0	Di-n-Octyl Phthalate	2400 J	✓
205-99-2	Benzo(b)Fluoranthene	2400 J	✓
207-08-9	Benzo(k)Fluoranthene	2400 J	✓
50-32-8	Benzo(a)Pyrene	2400 J	✓
193-39-5	Indeno(1, 2, 3-cd)Pyrene	2400 u	
53-70-3	Dibenz(a, h)Anthracene	2400 u	
191-24-2	Benzo(g, h, i)Perylene	2400 u	

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency. CLP Sample Management Office,
P.O. Box 818. Alexandria, Virginia 22313 703/557-2490

0396

Sample Number
BA 130

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: _____

Conc/Dil Factor: 30g : 5ml / 1:10

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	~~40 u~~
319-85-7	Beta-BHC	~~40 u~~
319-86-8	Delta-BHC	~~40 u~~
58-89-9	Gamma-BHC (Lindane)	~~40 u~~
76-44-8	Heptachlor	~~40 u~~
309-00-2	Aldrin	~~40 u~~
1024-57-3	Heptachlor Epoxide	~~40 u~~
959-98-8	Endosulfan I	~~40 u~~
60-57-1	Dieldrin	~~80 u~~
72-55-9	4, 4'-DDE	~~80 u~~
72-20-8	Endrin	~~80 u~~
33213-65-9	Endosulfan II	~~80 u~~
72-54-8	4, 4'-DDD	~~80 u~~
7421-93-4	Endrin Aldehyde	~~80 u~~
1031-07-8	Endosulfan Sulfate	80 u
50-29-3	4, 4'-DDT	~~80 u~~
72-43-5	Methoxychlor	~~400 u~~
53494-70-5	Endrin Ketone	~~400 u~~
57-74-9	Chlordane	~~34,000~~
8001-35-2	Toxaphene	~~400 u~~
12674-11-2	Aroclor-1016	~~400 u~~
11104-28-2	Aroclor-1221	~~400 u~~
11141-16-5	Aroclor-1232	~~400 u~~
53469-21-9	Aroclor-1242	~~400 u~~
12672-29-6	Aroclor-1248	~~400 u~~
11097-69-1	Aroclor-1254	~~800 u~~
11096-82-5	Aroclor-1260	~~7,200~~

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30g V_t 5000 uL V_i 2 uL

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

0489

Sample Number
B3904

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Radian
Case No: 4040
Lab Sample ID No: 4ER0321OV05
QC Report No: 54
Sample Matrix: Soil
Contract No: 68-01-6853
Data Release Authorized By: K. Shelandewski
Date Sample Received: 3-21-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3-28-85
Date Analyzed: 3-28-85
Conc/Dil Factor: 1:1 pH 5.3
Percent Moisture: 29 %
Percent Moisture (Decanted): —

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	23 ✓
67-64-1	Acetone	10J ✓
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10J ✓
71-55-6	1, 1, 1-Trichloroethane	5J ✓
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

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

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 each flag 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 ≥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.

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

0490

Sample Number
B3904

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-10-85

Conc/Dil Factor: 8g/5ml

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	8800U
108-95-2	Phenol	8800U
62-53-3	Aniline	8800U
111-44-4	bis(-2-Chloroethyl)Ether	8800U
95-57-8	2-Chlorophenol	8800U
541-73-1	1, 3-Dichlorobenzene	8800U
106-46-7	1, 4-Dichlorobenzene	8800U
100-51-6	Benzyl Alcohol	8800U
95-50-1	1, 2-Dichlorobenzene	8800U
95-48-7	2-Methylphenol	8800U
39638-32-9	bis(2-chloroisopropyl)Ether	8800U
106-44-5	4-Methylphenol	8800U
621-64-7	N-Nitroso-Di-n-Propylamine	8800U
67-72-1	Hexachloroethane	8800U
98-95-3	Nitrobenzene	8800U
78-59-1	Isophorone	8800U
88-75-5	2-Nitrophenol	8800U
105-67-9	2, 4-Dimethylphenol	8800U
65-85-0	Benzoic Acid	44,000J ✓
111-91-1	bis(-2-Chloroethoxy)Methane	8800U
120-83-2	2, 4-Dichlorophenol	8800U
120-82-1	1, 2, 4-Trichlorobenzene	8800U
91-20-3	Naphthalene	8800U
106-47-8	4-Chloroaniline	8800U
87-68-3	Hexachlorobutadiene	8800U
59-50-7	4-Chloro-3-Methylphenol	8800U
91-57-6	2-Methylnaphthalene	8800U
77-47-4	Hexachlorocyclopentadiene	8800U
88-06-2	2, 4, 6-Trichlorophenol	8800U
95-95-4	2, 4, 5-Trichlorophenol	44,000U
91-58-7	2-Chloronaphthalene	8800U
88-74-4	2-Nitroaniline	44,000U
131-11-3	Dimethyl Phthalate	8800U
208-96-8	Acenaphthylene	8800U
99-09-2	3-Nitroaniline	44,000U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	8800U
51-28-5	2, 4-Dinitrophenol	44,000U
100-02-7	4-Nitrophenol	44,000U
132-64-9	Dibenzofuran	8800U
121-14-2	2, 4-Dinitrotoluene	8800U
606-20-2	2, 6-Dinitrotoluene	8800U
84-66-2	Diethylphthalate	8800J ✓
7005-72-3	4-Chlorophenyl-phenylether	8800U
86-73-7	Fluorene	8800U
100-01-6	4-Nitroaniline	44,000U
534-52-1	4, 6-Dinitro-2-Methylphenol	44,000U
86-30-6	N-Nitrosodiphenylamine (1)	8800U
101-55-3	4-Bromophenyl-phenylether	8800U
118-74-1	Hexachlorobenzene	8800U
87-86-5	Pentachlorophenol	44,000U
85-01-8	Phenanthrene	8800U
120-12-7	Anthracene	8800U
84-74-2	Di-n-Butylphthalate	8800U
206-44-0	Fluoranthene	8800U
92-87-5	Benzidine	44,000U
129-00-0	Pyrene	8800U
85-68-7	Butylbenzylphthalate	8800U
91-94-1	3, 3'-Dichlorobenzidine	15,000U
56-55-3	Benzo(a)Anthracene	8800U
117-81-7	bis(2-Ethylhexyl)Phthalate	8800U
218-01-9	Chrysene	8800U ✓
117-84-0	Di-n-Octyl Phthalate	8800J
205-99-2	Benzo(b)Fluoranthene	8800U
207-08-9	Benzo(k)Fluoranthene	8800U
50-32-8	Benzo(a)Pyrene	8800U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	8800U
53-70-3	Dibenz(a, h)Anthracene	8800U
191-24-2	Benzo(g, h, i)Perylene	8800U

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

0491

Sample Number
B3904

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-10-85

Conc/Dil Factor: 8g : 5ml / 1:10

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	~~120~~ u
319-85-7	Beta-BHC	~~120~~ u
319-86-8	Delta-BHC	~~120~~ u
58-89-9	Gamma-BHC (Lindane)	~~120~~ u
76-44-8	Heptachlor	~~120~~ u
309-00-2	Aldrin	~~120~~ u
1024-57-3	Heptachlor Epoxide	~~120~~ u
959-98-8	Endosulfan I	~~120~~ u
60-57-1	Dieldrin	~~240~~ u
72-55-9	4, 4'-DDE	~~240~~ u
72-20-8	Endrin	~~240~~ u
33213-65-9	Endosulfan II	~~240~~ u
72-54-8	4, 4'-DDD	~~240~~ u
7421-93-4	Endrin Aldehyde	~~240~~ u
1031-07-8	Endosulfan Sulfate	~~240~~ u
50-29-3	4, 4'-DDT	~~240~~ u
72-43-5	Methoxychlor	~~1200~~ u
53494-70-5	Endrin Ketone	~~1200~~ u
57-74-9	Chlordane	~~2400~~ u
8001-35-2	Toxaphene	~~1200~~ u
12674-11-2	Aroclor-1016	~~1200~~ u
11104-28-2	Aroclor-1221	~~1200~~ u
11141-16-5	Aroclor-1232	~~1200~~ u
53469-21-9	Aroclor-1242	~~1200~~ u
12672-29-6	Aroclor-1248	~~1200~~ u
11097-69-1	Aroclor-1254	~~1200~~ u
11096-82-5	Aroclor-1260	~~12,000~~

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 8g V_t 5000 ml V_i 2 ml

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
B3908

0538

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Radian
Case No: 4040
Lab Sample ID No: 4ER03214V03
QC Report No: 54
Sample Matrix: Soil
Contract No: 68-01-6853
Data Release Authorized By: K Shivaduri
Date Sample Received: 3-21-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3-29-85
Date Analyzed: 3-29-85
Conc/Dil Factor: 1:1 pH 5.8
Percent Moisture: 17
Percent Moisture (Decanted): —

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	7B
67-64-1	Acetone	10U
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

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

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 each flag 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 ≥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.

0539

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
B3908

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-10-85

Conc/Dil Factor: 8.58g/5ML

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	6800J
108-95-2	Phenol	6800u
62-53-3	Aniline	6800u
111-44-4	bis(-2-Chloroethyl)Ether	6800u
95-57-8	2-Chlorophenol	6800u
541-73-1	1, 3-Dichlorobenzene	6800u
106-46-7	1, 4-Dichlorobenzene	6800u
100-51-6	Benzyl Alcohol	6800u
95-50-1	1, 2-Dichlorobenzene	6800u
95-48-7	2-Methylphenol	6800u
39638-32-9	bis(2-chloroisopropyl)Ether	6800u
106-44-5	4-Methylphenol	6800u
621-64-7	N-Nitroso-Di-n-Propylamine	6800u
67-72-1	Hexachloroethane	6800u
98-95-3	Nitrobenzene	6800u
78-59-1	Isophorone	6800u
88-75-5	2-Nitrophenol	6800u
105-67-9	2, 4-Dimethylphenol	6800u
65-85-0	Benzoic Acid	34000u
111-91-1	bis(-2-Chloroethoxy)Methane	6800u
120-83-2	2, 4-Dichlorophenol	6800u
120-82-1	1, 2, 4-Trichlorobenzene	6800u
91-20-3	Naphthalene	6800u
106-47-8	4-Chloroaniline	6800u
87-68-3	Hexachlorobutadiene	6800u
59-50-7	4-Chloro-3-Methylphenol	6800u
91-57-6	2-Methylnaphthalene	6800u
77-47-4	Hexachlorocyclopentadiene	6800u
88-06-2	2, 4, 6-Trichlorophenol	6800u
95-95-4	2, 4, 5-Trichlorophenol	34000
91-58-7	2-Chloronaphthalene	6800u
88-74-4	2-Nitroaniline	34000
131-11-3	Dimethyl Phthalate	6800u
208-96-8	Acenaphthylene	6800u
99-09-2	3-Nitroaniline	34000

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	6800u
51-28-5	2, 4-Dinitrophenol	34000u
100-02-7	4-Nitrophenol	34000u
132-64-9	Dibenzofuran	6800u
121-14-2	2, 4-Dinitrotoluene	6800u
606-20-2	2, 6-Dinitrotoluene	6800u
84-66-2	Diethylphthalate	6800u
7005-72-3	4-Chlorophenyl-phenylether	6800u
86-73-7	Fluorene	6800u
100-01-6	4-Nitroaniline	34000u
534-52-1	4, 6-Dinitro-2-Methylphenol	34000u
86-30-6	N-Nitrosodiphenylamine (1)	6800u ✓
101-55-3	4-Bromophenyl-phenylether	6800u
118-74-1	Hexachlorobenzene	6800u
87-86-5	Pentachlorophenol	34000u
85-01-8	Phenanthrene	6800u
120-12-7	Anthracene	6800u
84-74-2	Di-n-Butylphthalate	6900 ✓
206-44-0	Fluoranthene	6800u
92-87-5	Benzidine	34000u
129-00-0	Pyrene	6800J ✓
85-68-7	Butylbenzylphthalate	990000 ✓
91-94-1	3, 3'-Dichlorobenzidine	14000u
56-55-3	Benzo(a)Anthracene	6800u
117-81-7	bis(2-Ethylhexyl)Phthalate	150000 ✓
218-01-9	Chrysene	6800u
117-84-0	Di-n-Octyl Phthalate	6800J ✓
205-99-2	Benzo(b)Fluoranthene	6800u
207-08-9	Benzo(k)Fluoranthene	6800u
50-32-8	Benzo(a)Pyrene	6800u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	6800u
53-70-3	Dibenz(a, h)Anthracene	6800u
191-24-2	Benzo(g, h, i)Perylene	6800u

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

0540

Sample Number
B3908

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-10-85

Conc/Dil Factor: 1g:5ml

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	100 u
319-85-7	Beta-BHC	100 u
319-86-8	Delta-BHC	100 u
58-89-9	Gamma-BHC (Lindane)	100 u
76-44-8	Heptachlor	100 u
309-00-2	Aldrin	100 u
1024-57-3	Heptachlor Epoxide	100 u
959-98-8	Endosulfan I	100 u
60-57-1	Dieldrin	200 u
72-55-9	4, 4'-DDE	960
72-20-8	Endrin	200 u
33213-65-9	Endosulfan II	200 u
72-54-8	4, 4'-DDD	200 u
7421-93-4	Endrin Aldehyde	200 u
1031-07-8	Endosulfan Sulfate	200 u
50-29-3	4, 4'-DDT	200 u
72-43-5	Methoxychlor	1000 u
53494-70-5	Endrin Ketone	1000 u
57-74-9	Chlordane	2000 u
8001-35-2	Toxaphene	1000 u
12674-11-2	Aroclor-1016	1000 u
11104-28-2	Aroclor-1221	1000 u
11141-16-5	Aroclor-1232	1000 u
53469-21-9	Aroclor-1242	1000 u
12672-29-6	Aroclor-1248	1000 u
11097-69-1	Aroclor-1254	2000 u
11096-82-5	Aroclor-1260	650

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 1g V_t 5000ml V_i 2ml

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

0580

Sample Number
B3940

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Radian
Case No: 4040
Lab Sample ID No: 4ER03210V06
QC Report No: 54
Sample Matrix: Soil
Contract No: 68-01-6853
Data Release Authorized By: K. Umlandrucci
Date Sample Received: 3-21-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3-28-85
Date Analyzed: 3-28-85
Conc/Dil Factor: 1:1 pH 6.5
Percent Moisture: 19%
Percent Moisture (Decanted): —

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	16 ✓
67-64-1	Acetone	125 ✓
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

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

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 each flag 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., 10 J).

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

0581

Sample Number
B3940

.ıental Protection Agency, CLP Sample Management Office,
ɹx 818, Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-10-85

Conc/Dil Factor: 29.79 g : 10 ml

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	3300U
108-95-2	Phenol	3300J
62-53-3	Aniline	3300U
111-44-4	bis(-2-Chloroethyl)Ether	3300U
95-57-8	2-Chlorophenol	3300U
541-73-1	1, 3-Dichlorobenzene	3300U
106-46-7	1, 4-Dichlorobenzene	3300U
100-51-6	Benzyl Alcohol	3300U
95-50-1	1, 2-Dichlorobenzene	3300U
95-48-7	2-Methylphenol	3300U
39638-32-9	bis(2-chloroisopropyl)Ether	3300U
106-44-5	4-Methylphenol	3300U
621-64-7	N-Nitroso-Di-n-Propylamine	3300U
67-72-1	Hexachloroethane	3300U
98-95-3	Nitrobenzene	3300U
78-59-1	Isophorone	6700
88-75-5	2-Nitrophenol	3300U
105-67-9	2, 4-Dimethylphenol	3300U
65-85-0	Benzoic Acid	16,000U
111-91-1	bis(-2-Chloroethoxy)Methane	3300U
120-83-2	2, 4-Dichlorophenol	3300U
120-82-1	1, 2, 4-Trichlorobenzene	3300U
91-20-3	Naphthalene	3300J
106-47-8	4-Chloroaniline	3300U
87-68-3	Hexachlorobutadiene	3300U
59-50-7	4-Chloro-3-Methylphenol	3300U
91-57-6	2-Methylnaphthalene	3300J
77-47-4	Hexachlorocyclopentadiene	3300U
88-06-2	2, 4, 6-Trichlorophenol	3300U
95-95-4	2, 4, 5-Trichlorophenol	16,000U
91-58-7	2-Chloronaphthalene	3300U
88-74-4	2-Nitroaniline	16,000U
131-11-3	Dimethyl Phthalate	3300U
208-96-8	Acenaphthylene	3300U
99-09-2	3-Nitroaniline	16,000U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	3300U
51-28-5	2, 4-Dinitrophenol	16,000U
100-02-7	4-Nitrophenol	16,000U
132-64-9	Dibenzofuran	3300U
121-14-2	2, 4-Dinitrotoluene	3300U
606-20-2	2, 6-Dinitrotoluene	3300U
84-66-2	Diethylphthalate	3300U
7005-72-3	4-Chlorophenyl-phenylether	3300U
86-73-7	Fluorene	3300U
100-01-6	4-Nitroaniline	16,000U
534-52-1	4, 6-Dinitro-2-Methylphenol	16,000U
86-30-6	N-Nitrosodiphenylamine (1)	3300U
101-55-3	4-Bromophenyl-phenylether	3300U
118-74-1	Hexachlorobenzene	3300U
87-86-5	Pentachlorophenol	16,000U
85-01-8	Phenanthrene	3300J
120-12-7	Anthracene	3300U
84-74-2	Di-n-Butylphthalate	4700
206-44-0	Fluoranthene	3300J
92-87-5	Benzidine	3300U
129-00-0	Pyrene	3300J
85-68-7	Butylbenzylphthalate	4500
91-94-1	3, 3'-Dichlorobenzidine	6600U
56-55-3	Benzo(a)Anthracene	3300J
117-81-7	bis(2-Ethylhexyl)Phthalate	89,000
218-01-9	Chrysene	3300J
117-84-0	Di-n-Octyl Phthalate	3300J
205-99-2	Benzo(b)Fluoranthene	3300J
207-08-9	Benzo(k)Fluoranthene	3300U
50-32-8	Benzo(a)Pyrene	3300J
193-39-5	Indeno(1, 2, 3-cd)Pyrene	3300U
53-70-3	Dibenz(a, h)Anthracene	3300U
191-24-2	Benzo(g, h, i)Perylene	3300U

(1)-Cannot be separated from diphenylamine

mental Protection Agency. CLP Sample Management Office,
Box 818. Alexandria, Virginia 22313 703/557-2490

0582

Sample Number
B3940

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-28-85

Date Analyzed: 4-10-85

Conc/Dil Factor: 30g : 5ml / 1:20

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	80 u
319-85-7	Beta-BHC	80 u
319-86-8	Delta-BHC	80 u
58-89-9	Gamma-BHC (Lindane)	80 u
76-44-8	Heptachlor	80 u
309-00-2	Aldrin	80 u
1024-57-3	Heptachlor Epoxide	80 u
959-98-8	Endosulfan I	80 u
60-57-1	Dieldrin	160 u
72-55-9	4, 4'-DDE	160 u
72-20-8	Endrin	160 u
33213-65-9	Endosulfan II	160 u
72-54-8	4, 4'-DDD	160 u
7421-93-4	Endrin Aldehyde	160 u
1031-07-8	Endosulfan Sulfate	160 u
50-29-3	4, 4'-DDT	160 u
72-43-5	Methoxychlor	800 u
53494-70-5	Endrin Ketone	800 u
57-74-9	Chlordane	1600
8001-35-2	Toxaphene	800 u
12674-11-2	Aroclor-1016	800 u
11104-28-2	Aroclor-1221	800 u
11141-16-5	Aroclor-1232	800 u
53469-21-9	Aroclor-1242	800 u
12672-29-6	Aroclor-1248	800 u
11097-69-1	Aroclor-1254	1600 u
11096-82-5	Aroclor-1260	34,000

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30g V_t 5000 ml V_i 2 ml

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

0655

Sample Number
B4143

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Radian
Case No: 4040
Lab Sample ID No: 4FR03215V01
QC Report No: 54
Sample Matrix: Water
Contract No: 68-01-6853
Data Release Authorized By: K Whitenburn
Date Sample Received: 3-21-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3-22-85
Date Analyzed: 3-22-85
Conc/Dil Factor: 1:1 pH —
Percent Moisture: 100
Percent Moisture (Decanted): —

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	~~5 J B~~ ✓
67-64-1	Acetone	~~4 J B~~ ✓
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	~~4 J B~~ ✓
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

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

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 each flag 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., 10 J).

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

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

0656

Sample Number
B4143

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-25-85

Date Analyzed: 3-29-85

Conc/Dil Factor: 1000ml/1ml

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(-2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(-2-Chloroethoxyl)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10.J
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10u
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency. CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

0657

Sample Number
B4143

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-25-85

Date Analyzed: 4-10-85

Conc/Dil Factor: 1000ml : 5ml / 1:4

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.10 u
319-85-7	Beta-BHC	0.10 u
319-86-8	Delta-BHC	0.10 u
58-89-9	Gamma-BHC (Lindane)	0.10 u
76-44-8	Heptachlor	0.10 u
309-00-2	Aldrin	0.10 u
1024-57-3	Heptachlor Epoxide	0.10 u
959-98-8	Endosulfan I	0.10 u
60-57-1	Dieldrin	0.20 u
72-55-9	4, 4'-DDE	0.20 u
72-20-8	Endrin	0.20 u
33213-65-9	Endosulfan II	0.20 u
72-54-8	4, 4'-DDD	0.20 u
7421-93-4	Endrin Aldehyde	0.20 u
1031-07-8	Endosulfan Sulfate	0.20 u
50-29-3	4, 4'-DDT	0.20 u
72-43-5	Methoxychlor	1.0 u
53494-70-5	Endrin Ketone	1.0 u
57-74-9	Chlordane	2.0 u
8001-35-2	Toxaphene	1.0 u
12674-11-2	Aroclor-1016	1.0 u
11104-28-2	Aroclor-1221	1.0 u
11141-16-5	Aroclor-1232	1.0 u
53469-21-9	Aroclor-1242	1.0 u
12672-29-6	Aroclor-1248	1.0 u
11097-69-1	Aroclor-1254	2.0 u
11096-82-5	Aroclor-1260	2.0 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 5000 ul V_i 2 ul

0693

Sample Number
B4144

s Data Sheet
)

Case No: 4040
C Report No: 54
Contract No: 68-01-6853
ate Sample Received: 3-21-85

ounds

um (Circle One)
2-26-85
5

pH

S

ber		ug/l or ug/Kg (Circle One)
4-5	1. 1. 2. 2-Tetrachloroethane	5u
-87-5	1. 2-Dichloropropane	5u
1-02-6	Trans-1. 3-Dichloropropene	5u
-6	Trichloroethene	14
-48-1	Dibromochloromethane	5u
-5	1. 1. 2-Trichloroethane	5u
-2	Benzene	5u
51-01-5	cis-1. 3-Dichloropropene	5u
6-8	2-Chloroethylvinylether	5u
2	Bromoform	10u
78-6	2-Hexanone	5u
10-1	4-Methyl-2-Pentanone	10J
4	Tetrachloroethene	10J
8-3	Toluene	5J
0-7	Chlorobenzene	5J
4	Ethylbenzene	5u
2-5	Styrene	5u
	Total Xylenes	5u
		5J

ers are used.
uraged. However, the

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥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.

er 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.

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

0001
Sample Number
B 4144

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-25-85

Date Analyzed: 3-29-85

Conc/Dil Factor: 1000 : 1

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(-2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	150
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(-2-Chloroethoxyl)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10J
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

0695

Sample Number
B4144

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-25-85

Date Analyzed: 4-10-85

Conc/Dil Factor: 1000ml : 5ml / 1:5

CAS Number		ug/L or ug/Kg (Circle One)
319-84-6	Alpha-BHC	~~0.125~~ U
319-85-7	Beta-BHC	~~0.125~~ U
319-86-8	Delta-BHC	~~0.125~~ U
58-89-9	Gamma-BHC (Lindane)	~~0.125~~ U
76-44-8	Heptachlor	~~0.125~~ U
309-00-2	Aldrin	~~0.125~~ U
1024-57-3	Heptachlor Epoxide	~~0.125~~ U
959-98-8	Endosulfan I	~~0.125~~ U
60-57-1	Dieldrin	~~0.250~~ U
72-55-9	4, 4'-DDE	~~0.250~~ U
72-20-8	Endrin	~~0.250~~ U
33213-65-9	Endosulfan II	~~0.250~~ U
72-54-8	4, 4'-DDD	~~0.250~~ U
7421-93-4	Endrin Aldehyde	~~0.250~~ U
1031-07-8	Endosulfan Sulfate	~~0.250~~ U
50-29-3	4, 4'-DDT	~~0.250~~ U
72-43-5	Methoxychlor	~~1.25~~ U
53494-70-5	Endrin Ketone	~~1.25~~ U
57-74-9	Chlordane	~~9.0~~
8001-35-2	Toxaphene	~~1.25~~ U
12674-11-2	Aroclor-1016	~~1.25~~ U
11104-28-2	Aroclor-1221	~~1.25~~ U
11141-16-5	Aroclor-1232	~~1.25~~ U
53469-21-9	Aroclor-1242	~~1.25~~ U
12672-29-6	Aroclor-1248	~~1.25~~ U
11097-69-1	Aroclor-1254	2.50 U
11096-82-5	Aroclor-1260	2.50 J

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000ml or W_s _____ V_t 5000 ul V_i 2 ul

Environmental Protection Agency. CLP Sample Management Office,
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

0762

Sample Number B4145

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Radian
Case No: 4040
Lab Sample ID No: 4ER03215V03
QC Report No: 54
Sample Matrix: Water
Contract No: 68-01-6853
Data Release Authorized By: [illegible]
Date Sample Received: 3-21-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3-22-85
Date Analyzed: 3-22-85
Conc/Dil Factor: 1:1 pH —
Percent Moisture: 100
Percent Moisture (Decanted): —

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	67 B
67-64-1	Acetone	~~50 B~~
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	9
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	~~20 B~~
71-55-6	1, 1, 1-Trichloroethane	8
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

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

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 each flag 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 ≥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.

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

0763

Sample Number
B4145

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-25-85

Date Analyzed: 3-29-85

Conc/Dil Factor: 1000:1

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(-2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10J ✓
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	21 ✓
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50J ✓
111-91-1	bis(-2-Chloroethoxyl)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10J ✓
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10J ✓
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1)-Cannot be separated from diphenylamine

ronmental Protection Agency, CLP Sample Management Office,
O. Box 818, Alexandria, Virginia 22313 703/557-2490

0764

Sample Number
B4145

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-25-85

Date Analyzed: 4-10-85

Conc/Dil Factor: 1000ml:5ml / 1:4

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.10 U
319-85-7	Beta-BHC	0.10 U
319-86-8	Delta-BHC	0.10 U
58-89-9	Gamma-BHC (Lindane)	0.10 U
76-44-8	Heptachlor	0.10 U
309-00-2	Aldrin	0.10 U
1024-57-3	Heptachlor Epoxide	0.10 U
959-98-8	Endosulfan I	0.10 U
60-57-1	Dieldrin	0.20 U
72-55-9	4, 4'-DDE	0.20 U
72-20-8	Endrin	0.20 U
33213-65-9	Endosulfan II	0.20 U
72-54-8	4, 4'-DDD	0.20 U
7421-93-4	Endrin Aldehyde	0.20 U
1031-07-8	Endosulfan Sulfate	0.20 U
50-29-3	4, 4'-DDT	0.20 U
72-43-5	Methoxychlor	1.0 U
53494-70-5	Endrin Ketone	1.0 U
57-74-9	Chlordane	2.0 J
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	1.0 U
11104-28-2	Aroclor-1221	1.0 U
11141-16-5	Aroclor-1232	1.0 U
53469-21-9	Aroclor-1242	1.0 U
12672-29-6	Aroclor-1248	1.0 U
11097-69-1	Aroclor-1254	2.0 U
11096-82-5	Aroclor-1260	2.0 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 5000 ul V_i 2 ul

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

0828

Sample Number B4146

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Radian
Case No: 4040
Lab Sample ID No: 4EV03215V04
QC Report No: 54
Sample Matrix: Water
Contract No: 68-01-6853
Data Release Authorized By: K. Uhlandorf
Date Sample Received: 3-21-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 3-22-85
Date Analyzed: 3-22-85
Conc/Dil Factor: 1:1 pH —
Percent Moisture: 100
Percent Moisture (Decanted): —

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	~~5 JB~~ ✓
67-64-1	Acetone	10U
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	22OB ✓
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

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

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 each flag 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 ≥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.

...ntal Protection Agency, CLP Sample Management Office,
...818, Alexandria, Virginia 22313 703/557-2490

0829

Sample Number
B4146

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-25-85

Date Analyzed: 3-29-85

Conc/Dil Factor: 1000 : 1 ml

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(-2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(-2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10J
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	69
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1)-Cannot be separated from diphenylamine

Protection Agency. CLP Sample Management Office,
818. Alexandria, Virginia 22313 703/557-2490

0830

Sample Number
B4146

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 3-25-85

Date Analyzed: 4-10-85

Conc/Dil Factor: 1000ml : 5ml

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.025 u
319-85-7	Beta-BHC	0.025 u
319-86-8	Delta-BHC	0.025 u
58-89-9	Gamma-BHC (Lindane)	0.025 u
76-44-8	Heptachlor	0.025 u
309-00-2	Aldrin	0.025 u
1024-57-3	Heptachlor Epoxide	0.025 u
959-98-8	Endosulfan I	0.025 u
60-57-1	Dieldrin	0.050 u
72-55-9	4, 4'-DDE	0.050 u
72-20-8	Endrin	0.050 u
33213-65-9	Endosulfan II	0.050 u
72-54-8	4, 4'-DDD	0.050 u
7421-93-4	Endrin Aldehyde	0.050 u
1031-07-8	Endosulfan Sulfate	0.050 u
50-29-3	4, 4'-DDT	0.050 u
72-43-5	Methoxychlor	0.250 u
53494-70-5	Endrin Ketone	0.250 u
57-74-9	Chlordane	0.500 u
8001-35-2	Toxaphene	0.250 u
12674-11-2	Aroclor-1016	0.250 u
11104-28-2	Aroclor-1221	0.250 u
11141-16-5	Aroclor-1232	0.250 u
53469-21-9	Aroclor-1242	0.250 u
12672-29-6	Aroclor-1248	0.250 u
11097-69-1	Aroclor-1254	0.500 u
11096-82-5	Aroclor-1260	0.500 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 5000 ml V_i 2 ml

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313
703/557-2490 FTS:8-557-2490

EPA SAMPLE NO:
MBB189
DATE:5/14/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB.
SOW NO.: 784
LAB.SAMPLE NO.: P2355

CASE NO:4040
QC RPT.#4040

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: ~~XX~~ SB MEDIUM: X
MATRIX: SOIL: XX

ELEMENTS..METHOD		MG/KG	DRY WEIGHT
1. ALUMINIUM...P		7518	
2. ANTIMONY....P		<7 U	R J
3. ARSENIC.....F	<	5.0	R J
4. BARIUM.....P		268	
5. BERYLLIUM...P	[	1.0]	
6. CADMIUM.....P		7.5 * SL	
7. CALCIUM.....P		13072	*
8. CHROMIUM....P		1716	
9. COBALT.....P		35	
10.COPPER.....P		146	
11.IRON.....P		66928	
12.LEAD.....P		6307	
13.MAGNESIUM...P		3445	
14.MANGANESE...P		498	R J
15.MERCURY....CV		1.7	
16.NICKEL.....P		33	
17.POTASSIUM...P	[	1357]	
18.SELENIUM....F	<	2.5	R J
19.SILVER.....P	[	4.3]	
20.SODIUM.....P	[	453]	
21.THALLIUM....F	<	5 ~~8~~ CSZ	
22.TIN.....P		<18 U	
23.VANADIUM....P	[	23.8]	
24.ZINC.....P		436	
25.CYANIDE.....C		N/R	
% SOLID		83	

COMMENTS:

LAB MANAGER: JRB

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313
703/557-2490 FTS:8-557-2490

EPA SAMPLE NO:
MBB190
DATE:5/14/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB. CASE NO:4040
SOW NO.: 784 QC RPT.#4040
LAB.SAMPLE NO.: P2356

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM:
MATRIX: SOIL: XX

ELEMENTS..METHOD		MG/KG	DRY WEIGHT
1. ALUMINIUM...P		6632	
2. ANTIMONY....P		<7 U	
3. ARSENIC.....F		32.8	R J
4. BARIUM.....P		274	
5. BERYLLIUM...P	[	1.7]	
6. CADMIUM.....P		25.5	*
7. CALCIUM.....P		4863	
8. CHROMIUM....P		46	*
9. COBALT.....P	[	14]	
10.COPPER.....P		106	*
11.IRON.....P		48701	*
12.LEAD.....P		263	
13.MAGNESIUM...P	[	837]	
14.MANGANESE...P		359	*
15.MERCURY....CV		0.4	*
16.NICKEL.....P		33	*
17.POTASSIUM...P	[	1889]	
18.SELENIUM....F	<	2.5	R J
19.SILVER.....P		16.4	*
20.SODIUM.....P	[	492]	
21.THALLIUM....F		6	
22.TIN.....P		<18 U	
23.VANADIUM....P		31.2	
24.ZINC.....P		382	*
25.CYANIDE.....C		N/R	
% SOLID		87	

COMMENTS:

LAB MANAGER: JRB

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313
703/557-2490 FTS:8-557-2490

EPA SAMPLE NO:
MBB191
DATE:5/14/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB. CASE NO:4040
SOW NO.: 784 QC RPT.#4040
LAB.SAMPLE NO.: P2357

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM:
MATRIX: SOIL: XX

ELEMENTS..METHOD		MG/KG		DRY WEIGHT
1. ALUMINIUM...P		138529		
2. ANTIMONY....P		<7 U		
3. ARSENIC.....F		26.5	S	R J
4. BARIUM.....P		115		
5. BERYLLIUM...P	[	1.0]		
6. CADMIUM.....P		7.3		*
7. CALCIUM.....P		7030		
8. CHROMIUM....P		139		*
9. COBALT.....P		30		
10.COPPER.....P		250		*
11.IRON.....P		109044		*
12.LEAD.....P		494		
13.MAGNESIUM...P		5049		
14.MANGANESE...P		746		*
15.MERCURY....CV		0.6		*
16.NICKEL.....P		43		*
17.POTASSIUM...P	[	1153]		
18.SELENIUM....F	<	12.5		R J
19.SILVER.....P		8.5		*
20.SODIUM.....P	[	568]		
21.THALLIUM....F	<	5 7 LS7		
22.TIN.....P		<18 U		
23.VANADIUM....P		56.8		
24.ZINC.....P		824		*
25.CYANIDE.....C		N/R		
% SOLID		68		

COMMENTS:

LAB MANAGER: JRB

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313
703/557-2490 FTS:8-557-2490

EPA SAMPLE NO:
MBB192
DATE:5/14/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB.
SOW NO.: 784
LAB.SAMPLE NO.: P2358

CASE NO:4040
QC RPT.#4040

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM:
MATRIX: SOIL: XX

ELEMENTS..METHOD		MG/KG		DRY WEIGHT
1. ALUMINIUM....P		18111		
2. ANTIMONY....P		<7 U		
3. ARSENIC.....F		41.0	S	R J
4. BARIUM.....P		845		
5. BERYLLIUM...P		3.4		
6. CADMIUM.....P		9.0		*
7. CALCIUM.....P		21986		
8. CHROMIUM....P		92		*
9. COBALT.....P	[	20]		
10.COPPER.....P		296		*
11.IRON.....P		48951		*
12.LEAD.....P		450		
13.MAGNESIUM...P		4826		
14.MANGANESE...P		853		*
15.MERCURY....CV		0.3		~~*~~
16.NICKEL.....P		63		*
17.POTASSIUM...P		5818		
18.SELENIUM....F	<	2.5		R J
19.SILVER.....P	[	3.5]		*
20.SODIUM.....P	[	1610]		
21.THALLIUM....F	<	57/152		
22.TIN.....P		<18 U		
23.VANADIUM....P		51.3		
24.ZINC.....P		1173		*
25.CYANIDE.....C		N/R		
% SOLID		72		

COMMENTS:

LAB MANAGER: JRB

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313
703/557-2490 FTS:8-557-2490

EPA SAMPLE NO: MBB193
DATE:5/14/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB.
SOW NO.: 784
LAB.SAMPLE NO.: P2359

CASE NO:4040
QC RPT.#4040

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM:
MATRIX: SOIL: XX

ELEMENTS..METHOD		MG/KG	DRY WEIGHT
1. ALUMINIUM...P		2786	
2. ANTIMONY....P		<7 U	
3. ARSENIC.....F	<	5.0	R J
4. BARIUM.....P	[	16]	
5. BERYLLIUM...P	[	0.6]	
6. CADMIUM.....P		<2.0	*
7. CALCIUM.....P		5847	
8. CHROMIUM....P		14	*
9. COBALT.....P	[	4]	
10.COPPER.....P		25	*
11.IRON.....P		9239	*
12.LEAD.....P		187	
13.MAGNESIUM...P		3001	
14.MANGANESE...P		138	*
15.MERCURY....CV		<0.1 U	*
16.NICKEL.....P		<17 U	*
17.POTASSIUM...P	[	794]	
18.SELENIUM....F	<	2.5	R J
19.SILVER.....P	[	1.5]	*
20.SODIUM.....P		<293 U	
21.THALLIUM....F	<	5.8 UST	
22.TIN.....P		<18 U	
23.VANADIUM....P	[	21.9]	
24.ZINC.....P		145	*
25.CYANIDE.....C		N/R	
% SOLID		88	

COMMENTS:

LAB MANAGER: JRB

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313
703/557-2490 FTS:8-557-2490

EPA SAMPLE NO: MBB194
DATE:5/14/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB. CASE NO:4040
SOW NO.: 784 QC RPT.#4040
LAB.SAMPLE NO.: P2360

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM:
MATRIX: SOIL: XX

ELEMENTS..METHOD		MG/KG	DRY WEIGHT
1. ALUMINIUM...P		10750	
2. ANTIMONY....P		<7 U	
3. ARSENIC.....F		7.2	R J
4. BARIUM.....P	[	49]	
5. BERYLLIUM...P	[	0.9]	
6. CADMIUM.....P		<2.0	*
7. CALCIUM.....P	[	1341]	
8. CHROMIUM....P		21	*
9. COBALT.....P	[	8]	
10.COPPER.....P		18	*
11.IRON.....P		21112	*
12.LEAD.....P		51	
13.MAGNESIUM...P	[	2055]	
14.MANGANESE...P		211	*
15.MERCURY....CV		<0.1 U	*
16.NICKEL.....P	[	18]	*
17.POTASSIUM...P	[	1452]	
18.SELENIUM....F	<	2.5	R J
19.SILVER.....P	[	2.7]	*
20.SODIUM.....P		<293 U	
21.THALLIUM....F	<	5.7 LSR	
22.TIN.....P		<18 U	
23.VANADIUM....P	[	24.5]	
24.ZINC.....P		190	*
25.CYANIDE.....C		N/R	
% SOLID		76	

COMMENTS:

LAB MANAGER: JRB

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313
703/557-2490 FTS:8-557-2490

EPA SAMPLE NO:
MBB195
DATE:5/14/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB.
SOW NO.: 784
LAB.SAMPLE NO.: P2361

CASE NO:4040
QC RPT.#4040

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM:
MATRIX: SOIL: XX

ELEMENTS..METHOD		MG/KG	DRY WEIGHT
1. ALUMINIUM...P		8493	
2. ANTIMONY....P		<7 U	
3. ARSENIC.....F	<	5.0	R J
4. BARIUM.....P	[	82]	
5. BERYLLIUM...P	[	0.9]	
6. CADMIUM.....P		8.0	*
7. CALCIUM.....P	[	2409]	
8. CHROMIUM....P		33	*
9. COBALT.....P	[	12]	
10.COPPER.....P		32	*
11.IRON.....P		15833	*
12.LEAD.....P		152	
13.MAGNESIUM...P	[	1788]	
14.MANGANESE...P		150	*
15.MERCURY....CV		1.8	*
16.NICKEL.....P	[	19]	*
17.POTASSIUM...P	[	1284]	
18.SELENIUM....F	<	2.5	R J
19.SILVER.....P	[	3.1]	*
20.SODIUM.....P	[	389]	
21.THALLIUM....F	<	57	
22.TIN.....P		<18 U	
23.VANADIUM....P	[	23.1]	
24.ZINC.....P		265	*
25.CYANIDE.....C		N/R	
% SOLID		72	

COMMENTS:

LAB MANAGER: JRB

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313
703/557-2490 FTS:8-557-2490

EPA SAMPLE NO:
MBB196
DATE:5/14/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB.
SOW NO.: 784
LAB.SAMPLE NO.: P2362

CASE NO:4040
QC RPT.#4040

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM
MATRIX: WATER: XX

ELEMENTS..METHOD		UG/L
1. ALUMINIUM...P		1874
2. ANTIMONY....P		<14 U
3. ARSENIC.....F	<	10.0
4. BARIUM.....P	[	74]
5. BERYLLIUM...P		<0.60 U
6. CADMIUM.....P		<4.0 U
7. CALCIUM.....P		32950
8. CHROMIUM....P		12
9. COBALT.....P		<6.9 U
10.COPPER.....P	[	17]
~~11.IRON.....P~~		~~3090~~ R
12.LEAD.....P		94
13.MAGNESIUM...P		8362
14.MANGANESE...P		106
15.MERCURY....CV		0.4
16.NICKEL.....P		<34 U
17.POTASSIUM...P	[	3836]
18.SELENIUM....F	<	5.0
19.SILVER.....P		11.2
20.SODIUM.....P		47410
21.THALLIUM....F	<	10
~~22.TIN.....P~~		~~<36 U~~ R
23.VANADIUM....P	[	4.0]
24.ZINC.....P		216
25.CYANIDE.....C		N/R

COMMENTS:

LAB MANAGER: JRB

FTS:8-557-2490 22313

EPA SAMPLE NO:
MBB197

DATE:5/14/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB.
SOW NO.:
LAB.SAMPLE NO.: 784 CASE NO:4040
P2363 QC RPT.#4040

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX
MATRIX: WATER: XX MEDIUM

ELEMENTS..METHOD		UG/L	
1. ALUMINIUM...P		1086	
2. ANTIMONY....P		<14 U	
3. ARSENIC.....F		11.0	
4. BARIUM.....P	[	112]	
5. BERYLLIUM...P		<0.60 U	
6. CADMIUM.....P	[	4.3]	
7. CALCIUM.....P		42800	
8. CHROMIUM....P		31	
9. COBALT.....P	[	29]	
10.COPPER.....P	[	23]	
~~11.IRON.....P~~		6365	R
12.LEAD.....P		151	~~R~~
13.MAGNESIUM...P		9577	
14.MANGANESE...P		672	
15.MERCURY....CV		2.9	
16.NICKEL.....P		<34 U	
17.POTASSIUM...P		5393	
18,SELENIUM....F	<	5.0	
19.SILVER.....P	[	7.5]	
20.SODIUM.....P		91820	
21.THALLIUM....F		10	
~~22.TIN.....P~~	<	<36 U	
23.VANADIUM....P	[	4.1]	R
24.ZINC.....P		233	
25.CYANIDE.....C		N/R	

COMMENTS:

LAB MANAGER: JRB

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313
703/557-2490 FTS:8-557-2490

EPA SAMPLE NO:
MBB198
DATE:5/14/85

INORGANCC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB.
SOW NO.: 784
LAB.SAMPLE NO.: P2364

CASE NO:4040
QC RPT.#4040

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM
MATRIX: WATER: XX

ELEMENTS..METHOD		UG/L	
1. ALUMINIUM...P		8680	
2. ANTIMONY....P		<14 U	
3. ARSENIC.....F		23.0	
4. BARIUM.....P	[	186]	
5. BERYLLIUM...P	[	0.7]	
6. CADMIUM.....P		7.7	
7. CALCIUM.....P		44820	
8. CHROMIUM....P		30	
9. COBALT.....P	[	33]	
10.COPPER.....P		44	
~~11.IRON.....P~~		~~20520~~	R
12.LEAD.....P		214	~~R~~ 252
13.MAGNESIUM...P		11510	
14.MANGANESE...P		818	
15.MERCURY....CV		0.6	
16.NICKEL.....P		<34 U	
17.POTASSIUM...P		6431	
18,SELENIUM....F	<	5.0	
19.SILVER.....P	[	5.4]	
20.SODIUM.....P		104000	
21.THALLIUM....F	<	10	
~~22.TIN.....P~~		~~<36 U~~	R
23.VANADIUM....P	[	19.9]	
24.ZINC.....P		468	
25.CYANIDE.....C		N/R	

COMMENTS:

LAB MANAGER: JRB

SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313
703/557-2490 FTS:8-557-2490

EPA SAMPLE NO:
MBB199
DATE:5/14/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB.
SOW NO.: 784
LAB.SAMPLE NO.: P2365

CASE NO:4040
QC RPT.#4040

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX
MATRIX: WATER: XX MEDIUM

ELEMENTS..METHOD		UG/L	
1. ALUMINIUM...P	[	199]	
2. ANTIMONY....P		<14 U	
3. ARSENIC.....F	<	10.0	
4. BARIUM.....P		<18 U	
5. BERYLLIUM...P		<0.60 U	
6. CADMIUM.....P		<4.0 U	
7. CALCIUM.....P		<427 U	
8. CHROMIUM....P	[	5]	
9. COBALT.....P		<6.9 U	
10.COPPER.....P	[	4]	
~~11.IRON.....P~~		~~210~~	R
12.LEAD.....F	<	5.0	
13.MAGNESIUM...P		<368 U	
14.MANGANESE...P	[	2]	
15.MERCURY....CV		<0.2 U	
16.NICKEL.....P		<34 U	
17.POTASSIUM...P	[	615]	
18,SELENIUM....F	<	5.0	
19.SILVER.....P		<2.6 U	
20.SODIUM.....P		<585 U	
21.THALLIUM....F	<	10	
~~22.TIN.....P~~		~~258~~	R
23.VANADIUM....P		<3.5 U	
24.ZINC.....P		27	
25.CYANIDE.....C		N/R	

COMMENTS:

LAB MANAGER: JRB

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313
703/557-2490 FTS:8-557-2490

EPA SAMPLE NO:
MBB188
DATE:5/14/85

2

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB.
SOW NO.: 784
LAB.SAMPLE NO.: P2354

CASE NO:4040
QC RPT.#4040

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: ~~XX~~ SB MEDIUM: X
MATRIX: SOIL: XX

ELEMENTS..METHOD		MG/KG	DRY WEIGHT
1. ALUMINIUM...P		9670	
2. ANTIMONY....P		50	R J
3. ARSENIC.....F	<	5.0	R J
4. BARIUM.....P		166	
5. BERYLLIUM...P	[	0.8]	
6. CADMIUM.....P		6.8	
7. CALCIUM.....P		22478	*
8. CHROMIUM....P		110	
9. COBALT.....P		58	
10.COPPER.....P		1036	
11.IRON.....P		52286	
12.LEAD.....P		455	
13.MAGNESIUM...P		8989	
14.MANGANESE...P		404	R J
15.MERCURY....CV		2.0	
16.NICKEL.....P		51	
17.POTASSIUM...P	[	1377]	
18.SELENIUM....F	<	2.5	R J
19.SILVER.....P		10.0	
20.SODIUM.....P	[	1112]	
21.THALLIUM....F	<	5	
22.TIN.....P		24	
23.VANADIUM....P		43.0	
24.ZINC.....P		375	
25.CYANIDE.....C		N/R	
% SOLID		91	

COMMENTS:

LAB MANAGER: JRB

EPA CONTRACT LABORATORY PROGRAM
PLE MANAGEMENT OFFICE
. BOX 818 ALEXANDRIA,VA 22313
557-2490 FTS:8-557-2490

EPA SAMPLE NO:
MBB187
DATE:5/14/85

1

INORGANIC ANALYSIS SHEET

NAME: CALIF.ANAL.LAB.
NO.: 784
.SAMPLE NO. P2353

Mr. Jay M. Crystan
106-B Somerset
New Brunswick, NJ 08903

CASE NO:4040
QC RPT.#4040

ELEMENTS IDENTIFIED AND MEASURED

C.: LOW: ~~XX~~ 88
X: SOIL: XX

MEDIUM: X

ENTS..METHOD		MG/KG	DRY WEIGHT
UMINIUM...P		4399	
TIMONY....P		<7 U	R J
RSENIC.....F		13.1	S + R J
RIUM.....P		259	
RYLLIUM...P	[	0.8]	
ADMIUM.....P		68.8	
LCIUM.....P	[	2164]	*
ROMIUM....P		67	
OBALT.....P	[	21]	
OPPER.....P		62	
ON.....P		55154	
AD.....P		440	
AGNESIUM...P	[	1871]	
GANESE...P		292	R J
RCURY....CV		0.3	
ICKEL....P		28	
OTASSIUM...P	[	1115]	
ENIUM....F	<	2.5	R J
ILVER.....P	[	3.6]	
DIUM.....P	[	301]	
LLIUM....F	<	~~5.8~~ <5	
N.....P		<18 U	
NADIUM....P		25.1	
C.....P		682	
NIDE.....C		N/R	
SOLID		65	

TS:

LAB MANAGER: JRB