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Superfund - hw

Spills - sp

ERP - e

VCP - v

BCP - c

non-releasable - put .nf.pdf

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FIELD INVESTIGATION TEAM ACTIVITIES AT UNCONTROLLED HAZARDOUS SUBSTANCES FACILITIES — ZONE I

NUS CORPORATION SUPERFUND DIVISION

FINAL DRAFT SITE INSPECTION REPORT SPAULDING FIBRE COMPANY TONAWANDA, NEW YORK

PREPARED UNDER

TECHNICAL DIRECTIVE DOCUMENT NO. 02-8704-02 CONTRACT NO. 68-01-7346

FOR THE

ENVIRONMENTAL SERVICES DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

MAY 31, 1988

NUS CORPORATION SUPERFUND DIVISION

SUBMITTED BY

REVIEWED/APPROVED BY

STANKEY B. SHULFER

PROJECT MANAGER

RONALD M. NAMAN

FIT OFFICE MANAGER

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3.	Maps and Photographs
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5.	Press Release Summary
6	Background Information

SECTION 1

SITE INSPECTION REPORT EXECUTIVE SUMMARY



02-8704-02-SR Rev. No. 0

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT EXECUTIVE SUMMARY

Spaulding Fibre Co.	NYD000848440	
Site Name	EPA Site ID Number	
310 Wheeler Street		
Tonawanda, New York 14150	02-8704-02	
Address	TDD Number	

SITE DESCRIPTION

The Spaulding Fibre Company is a privately owned facility located at 310 Wheeler Street, Tonawanda, Erie County, New York. This active plant has been located in this commercial/industrial and residential area since The 50-acre facility manufactures circuit board and similar insulated materials for the electronics industry. The manufacturing process generates a mixture of liquid phenolic resin and solvent waste and solid and powdery grinding and cutting wastes. The latter include asbestos, glass, zinc chloride, and phenolic wastes. Seven hundred and fifty drums of waste were landfilled, and may have been punctured or leaking prior to burial. The solid waste was reportedly bagged and landfilled. Several lagoons were reported excavated and backfilled with clean fill. Incinerator ash and other waste are also spread around the site. Stained soil and walls near the empty drum storage area indicate further soil contamination. New York State Department of Environmental Conservation (NYSDEC) files indicate that excessive amounts of phenol and other wastes were released into the storm sewers, which emptied into the Niagara River.

There is no groundwater use in the area, with the exception of three industrial wells to the south. Sample results from monitoring wells installed by Spaulding Fibre Company contractors indicate groundwater contamination. Several site inspections by the NYSDEC recorded numerous waste disposal problems.

(CONTINUED)

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT EXECUTIVE SUMMARY CONTINUED

SITE DESCRIPTION

A site inspection was conducted by FIT on April 28 and 29, 1987. Several soil auger holes had readings above background with an OVA flame ionization detector. The highest reading was 350 ppm, occurring near the drum landfill. The two monitoring wells were sampled, and two surface water samples were collected to evaluate waste migration through the groundwater and storm sewers, respectively. Eight soil samples were collected to evaluate lagoon, landfill, and possible spill or leakage areas.

All soil samples except for NYR9-S4 and NYR9-S8 had high concentrations of at least one contaminant. Phenol and Di-n-butyl phthalate were found in several samples, with concentrations as high as 910 ppm and 240 ppm, respectively. Most contaminants were semivolatile. Noted exceptions were the PCBs Aroclor 1248 and Aroclor 1254. The groundwater and surface water samples did not contain any contaminants above the detection limits. The empty drum storage pad and liquid chemical transfer pad areas had evidence of spillage in the contaminated and stained soils nearby.

The site inspection results indicate a fire/explosion hazard and the potential for waste migration off site due to contaminated soils from surface to a 2-foot depth. This creates a potential direct contact hazard, should contaminants migrate off site.

SECTION 2

ENVIRONMENTAL PROTECTION AGENCY FORM 2070-13

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 1 - SITE LOCATION AND INSPECTION INFORMATION

IDENTIFICATION OI STATE OZ SITE NUMBER

0000848440 II. SITE NAME AND LOCATION
UI SITE NAME (Legal, common, or descriptive name of site) 02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Spaulding Fibre Company 310 Wheeler Street 03 CITY 04 STATE 05 ZIP CODE 06 COUNTY 07 COUNTY DB COME DIST. CODE Tonawanda
09 COORDINATES 14150 31 Erfe 029 10 TYPE OF OWNERSHIP (Check one) X A. PRIYATE LATITUDE LONGITUDE - B. FEDERAL E. MUNICIPAL C. STATE F. OTHER D. COUNTY - S. UNKNOWN 4 30 0 0' 2 0". N 0 7 8° 5 3' 1 1". W III. INSPECTION INFORMATION DI DATE OF INSPECTION 02 SITE STATUS 03 YEARS OF OPERATION X ACTIVE /Still acitve UNKNOWN 04 / 29 / 87 MONTH DAY YEAR INACTIVE BEGILLUIS YEAR ENDIES YEAR AGENCY PERFORMING INSPECTION (Check all that apply) _ A. EPA _ C. MUNICIPAL _ D. MUNICIPAL CONTRACTOR X B. EPA CONTRACTOR NUS Corporation (Name of firm) E. STATE F. STATE CONTRACTOR _ G. OTHER (Name of firm) (Specify) 05 CHIEF INSPECTOR 06 TITLE 07 OREANIZATION 08 TELEPHONE NO. NUS Corporation Alan Cherepon Geologist (201) 225-5160 09 OTHER INSPECTORS 10 TITLE 12 TELEPHONE NO. Brian Pedersen Chemical Engineer NUS Corporation (201) 225-6160 Pauline Doherty Biologist NUS Corporation (201) 225-6160 Bill Schnitzerling Environmental Scientist **NUS Corporation** (201) 225-6160 Mike Bauman Geologist NUS Corporation (201) 225-6160 NUS Corporation Randy Rice Geologist (201) 225-5160 13 SITE REPRESENTATIVES INTERVIEWED 15 AUDRESS 16 TELEPHONE NO. 14 TITLE Greg Stubbs 310 Wheeler St., (716) 692-2000 Tonawanda, New York 14150

(Check one)	18 TIME OF IMSPECTION	19 WEATHER	COMPITIONS		
X PERMISSION WARRANT	0900	Rainy to o v	erćast, 450-500F,	10-20 mph wind w	ith gusts to 40 mpi
IV. INFORMATION AVAILA	BLE FROM 02 OF (Agency/C	rganization)	O3 TELEPHONE M	D	
Amy Brochu	U.S. Environmental	Protection Agency	(201) 906-6802		
OF PERSON RESPONSIBLE	FOR SITE IMSPECTION FORM	05 ASERCY	OF CHEANIZATION	07 TELEPHONE NO.	. OB DATE
Stanley B. Shulfer		U.S. EPA	NUS Corporation	(201) 225-6160	05/31/88 MONTH DAY YEAR
EPA FORM 2070-13 (7-81)			02-8704-02-S Rev. No. 0	

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

IDENTIFICATION OI STATE OZ SITE NUMBER D000848440 NY

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS
OF PHYSICAL STATES (Check all that apply) OZ WASTE QUANTITY AT SITE 03 WASTE CHARACTERISTICS (Check all that apply) X I. HIGHLY VOLATILE J. EXPLOSIVE K. REACTIVE E. SLURRY (Measures of waste A. SOLID B. POWDER, FINES X F. LIQUID quantities must be C. SLUDGE G. GAS independent) L. INCOMPATIBLE M. NOT APPLICABLE TONS D. OTHER 1181 CUBIC YARDS NO. OF DRUMS (Specify)

III. WASTE TYPE CATEGORY	SUBSTANCE NAME	DI GROSS AMOUNT	02 UNIT OF MEASURE	US COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	1250	55-gallon drums	Phenol resins and solvents
P SO	PESTICIDES			
occ	OTHER ORGANIC CHEMICALS	40	Tons	Solid waste: includes phenol, asbestos, glass, zinc chloride,
100	INORGANIC CHEMICALS			and spauldite dust from cuttings.
ACD	ACIDS			
BAS	BASES			Zinc chloride and possible cadmium-bearing waste was
MES	HEAVY METALS	1181	yds3	reportedly entombed in a concrete pit inside the plant building.

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers) **06 MEASURE OF** 05 CONCENTRATION CONCENTRATION 04 STORAGE/DISPOSAL METHOD 02 SUBSTANCE NAME 03 CAS NUMBER CATEGORY 108-95-2 drummed and landfilled 910,000 ug/kg **Phenol** 240,000 drummed and landfilled 84-74-2 ug/kg OCC Di-n-butyl phthalate drummed and landfilled landfilled ug/kg SOL Toluene 108-88-3 13,000 ug/kg OCC Phenanthrene 85-01-8 15,000 7,400 landfilled ug/kg 206-44-0 000 Fluoranthene ug/kg landfilled Pyrene 129-00-0 OCC 9,400 ug/kg 56-5**5-3** landfilled OCC Benzo(a)anthracene Bis(2-ethylhexyl)phthalate 117-81-7 landfilled 29,000 ug/kg OCC landfilled 8,200 ug/kg 218-01-9 OCC Chrysene Benzo(b)fluorantheme 205-99-2 landfilled 9,700 ug/kg

(See Attachment)

207-08-9

FEEDSTOCKS (S	ee Appendix for Cas Numbers)				
CATEGORY	OI FEEDSTOCK NAKE	UZ CAS NUMBER	CATEGORY	OI FEEDSTOCK NAME	OZ CAS NUMBER
FDS	Pheno1	108-95-2	FDS	Formal dehy de	50-00-0
FDS	Cresol	1319-77-3	FDS	Analine Oil	62-53-3
FDS	Methanol	67-5 6-1	FDS	Toluen e	108-88-3
FDS	Ethyl Alcohol	64-17-5	FDS		

landfilled

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

Phase I - Preliminary Investigation of the Spaulding Fibre Company, Inc. Recra Research, Inc., November, 1983. Report on Spaulding Fibre Company, Inc. Interagency Task Force on Hazardous Wastes, 1979. Industrial waste sites at Spaulding Fibre Company, Inc. Spaulding Fibre Company, Inc., December 13, 1983. Unsigned letters from Robert Mitrey, NYSDEC to Jack Kehoe, Spaulding Fibre Company, 8/30/87, and 9/11/78. NUS Corp. Region 2 FIT site inspection conducted on April 28 and 29, 1988, TDD No. 02-8704-02.

EPA FORM 2070-13 (7-81)

000

OCC

Benzo(k)fluoranthene

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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 O CONCENTRATION
P SD	Aroclor 1248	12672-29 -6	landfilled	5,640	ug/kg
PSD	Aroclor 1254	11097-69-i	landfilled	2,910	ug/kg
000	2.4-Dimethylphenol	105-67-9	tandfilled	150,000	ug/kg
000	4-Methylphenol	106-44-5	landfilled	71.000	ug/kg
000	2-Methylphenol	95-48-7	landfilled	28.000	ug/kg
000	Acenaphthene	83-32-9	landfilled	2,400	ug/kg
330	Dibenzofuran	132-64-9	landfilled	1,700	ug/kg
220	Fluorene	86-73-7	landfilled	2,100	ug/kg
000	Anthracene	120-12-7	landfilled	8,900	ug/kg
ŏčč	Benzo(a)pyrene	50-32-8	landfilled	6,800	ug/kg ug/kg
ŏčč	Benzene	71-43-2	landfilled	230	
000	Indeno(1,2,3-cd)Pyren		landfilled	2,500	ug/kg
000	Benzo(q,h,i)Perylene	191-24-2	landfilled	1,000	ug/kg
SOL	Methylene Chloride	75-09-2	landfilled	1,900 17J	ug/kg
SOL	Acetone	67-64-1		360	ug/kg
0CC		71-55-6	landfilled		ug/kg
000	1,1,1-Trichloethane		landfilled	101	ug/kg
000	Benzoic Acid	65-85-0	landfilled	18,000	ug/kg
	Naphthalene	91-20-3	landfilled	3,000J	ug/kg
000	2-Methyl naphthalene	91-57-6	landfilled	4,3000	ug/kg
0CC	Dibenzo(a,h)Anthracen		landfilled	860.1	ug/kg
MES	Antimony	7440-36-0	landfilled	C503	ug/L
MES	Arsenic	7440-38-2	landfilled	40	ug/kg
MES	Beryllium	7440-41-7	landfilled	[2]	ug/kg
MES	Calcium	7440-70-2	landfilled	78900	ug/L
MES	Cobalt	7440-48- 4	landfilled	[20]	ug/kg
MES	Iron	7439-89-6	landfilled	76300E	ug/kg
MES	Magnesium	7439-95-4	landfilled	77200	ug/L
MES	Manganese	7439-96 -5	landfilled	10 90E	ug/kg
MES	Nickel	7440-02- 0	landfilled	593E	ug/kg
MES	Sod1um	7440-23-5	landfilled	39600	ug/L
MES	Zinc	7440-66-6	landfilled	30300E	ug/kg
MES	Copper '	7440-50-8	landfilled	25,400E	ug/kg
MES	Lead	7439-92-1	landfilled	1,150	ug/kg
MES	Mercury	7439-97-6	landfilled	2.66E	ug/kg
MES	Ţ1ņ	7440-31-5	landfilled	366	ug/kg
MES	Cadmilum	7440-43- 9	landfilled	70	ug/kg
MES	Zinc	7440-66- 6	landfilled	30,300E	ug/kg

J - Compound present below contract-specified detection limits, but above instrument detection limits. E 3- Compound present below contract-specified detection limits, but above instrument detection limits. E - Value estimated due to laboratory interference.

The following hazardous substances were reported disposed of on site by Phase I - Preliminary Investigation of the Spaulding Fibre Company, Inc. and Industrial Waste Sites at Spaulding Fibre Company, Inc.

000	Pheno1	108-95-2	drummed and landfilled	Un known
OCC	Formal dehyde	50-00-0	drummed and landfilled	Unknown
000	Dibutyl phthalate	84-74-2	drummed and landfilled	Un knows
000	Aniline Oil	62-53-3	drummed and landfilled	Unknown
000	Cresol	1319-77- 3	drummed and landfilled	Un knows
SOL	Methanol	67-56-1	drummed and landfilled	Un known
SOL	Ethyl Alcohol	64-17-5	drummed and landfilled	Un known
000	Butyoctal phthalate	999	drummed and landfilled	Unknown
000	Toluene	108-88-3	drummed and landfilled	Unknown
IOC	Asbes tos ·	1332-21-4	bagged and landfilled	Un kecen
IOC	Zinc Chloride	1036-19-52	drummed and landfilled	Unknown
000	Epichlorohydria	106-89-8	drummed and landfilled	Unknown
000	Bisphenol - A	167-55-4 3	drummed and landfilled	Unknown
000	Methyl-Ethyl - Ketone	78-93-3	drummed and landfilled	Unknown
MES	Cadmium	7440-43- 9	Entombed ·	Un known

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

1. IDENTIFICATION
OI STATE 02 SITE NUMBER
NY D000848440

02-8704-02-SR Rev. No. 0

II. HAZARDOUS CONDITIONS AND INCIDENTS				
O1 X A. GROUNDWATER CONTAMINATION O3 POPULATION POTENTIALLY AFFECTED: 0	UZ OBSERVED (DATE: 04 WARRATIVE DESCRIPTION	_}	X PUTENTIAL	_ ALLEGED
Groundwater is only used for industrial purposes. There are only 3 remaining industrial wells in t contractor. There were no contaminants that coul Contaminants detected by Spaulding in 1983 in be ketone, and toluene. FIT site inspection sample	he area. Monitoring wells were instal d be attributed to the facility due to th 40-foot wells included phenol, form	led a the l aldeh	nd sampled by a Sp ack of a true upgr yde, ethyl alcohol	raulding radient well. , methyl ethyl
O1. X B. SURFACE WATER CONTAMINATION O3 POPULATION POTENTIALLY AFFECTED: 76,538	02 OBSERVED (DATE: 04 MARRATIVE DESCRIPTION	_}	X POTENTIAL	X ALLEGED
Storm drainage ditches on site empty into storm within 1 mile of the site. Files from the NY SDE phenolic, suspended, and colored wastes into sto contaminants in the surface water of the storm d	C indicate that the Spaulding Company w rm sewers. FIT site inspection samplin	as re	sponsible for exce	ssive release of
01 X C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: 175,395	02 OBSERVED (DATE: 04 MARRATIVE DESCRIPTION	_}	X POTENTIAL	_ ALLEGED
There are no reports of air contamination at the Air monitoring during the site inspection result auger hole; however, no readings above backgrounds.	ed in readings up to 350 ppm on an OVA			
01. X D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: 36,050	02 OBSERVED (DATE:	_}	X POTENTIAL	_ ALLEGED
A potential fire/explosive condition exists of by stained soil and contaminated soil, were high readings of volatile organic compounds i	n site due to inadequate housekeeping. noted during site inspection. The OVA	flam	e ionization detec	
01. X E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: 16,966	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	_}	X POTENTIAL	_ ALLEGED
During the site inspection by FIT, stained soil Readings of up to 350 ppm on an GVA flame ionization of concentrations of numerous contaminants. The Excessive amounts of phenol and other wastes were Drinking water intakes are 1 mile from the site contact with the waste.	tion detector occurred at the soil samp here are numerous references in MYSDEC e discharged into storm sewers that dis	ile lo files charg	cations, and soil to improper waste e into the Niagara	analysis shows disposal. River.
01 K F. CONTANINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: 50 (ACRES)	O2 X OBSERVED (DATE: April 28, 1987 O4 MARRATIVE DESCRIPTION	_}	POTENTIAL	_ ALLEGED
During the site inspection by FIT, stained soil samples contained high concentrations of numerous occurred at the soil sample locations near the dindicate stained soils.	s contaminants. Readings of up to 350	ррпас	n an OVA flame for	nization detector
01. X G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 75,538	02 OBSERVED (DATE: 04 MARRATIVE DESCRIPTION	_)	X POTENTIAL	_ ALLEGED
There is a potential for drinking water contamin contaminated, but there are no private or communand other wastes were being released into the st surface water intakes. All storm drainage ditch potentially migrate to the surface water. Analy were low concentrations of contaminants in one s	ity wells in the area. NYSDEC files in orm sewers, which discharge into the Ni es empty into the storm sewers where wa sis of samples collected during the FII	idicat agara iste f 2 si	e that excessive a River within 1 mi rom contaminated s te inspection indi	imounts of phenol lie upstream of soils could icated that there
01 X H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED: 320	02 OBSERVED (DATE: 04 MARRATIVE DESCRIPTION	_)	X POTENTIAL	_ ALLEGED
There are no reports of worker exposure/injury, site, and also contaminants detected in soil on			nt of improperly b	ouried wastes on
01 X I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: 175,395	02 OBSERVED (DATE: 04 WARRATIVE DESCRIPTION	_}	X POTENTIAL	_ ALLEGED
There is a potential for population exposure/inj also a potential for waste migration through sto indicates high concentrations of numerous conta	rm sewers to water intakes in the Niaga			

EPA FORM 2070-13 (7-81)

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

1. IDENTIFICATION 01 STATE 02 SITE NUMBER

PART 3 - DESCRIPTION (DE HAZARDOUS COMOTITIONS AND INCIDEN	NY 0000848440
II. HAZARDOUS COMDITIONS AND INCIDENTS (Continued)		
DI X J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:	X POTENTIAL ALLEGED
There is a potential for damage to flora due to the impr groundwater and soils. NYSDEC files indicate excessive into the Niagara River. Flora may become damaged by bio	releases of phenol and other waste accumulating contaminants which ma	s into the storm sewers, which empty y migrate from the site.
01 X K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02 _ OBSERVED (DATE:	
There is a potential for damage to fauna, should they be have been detected in the groundwater and soils, and NYS released into storm sewers which empty into the Niagara into the Niagara River, where potential waste migration	oaccumulate ingested waste which m DEC files mention excessive amount River. Runoff from the site still	igrated from the site. Contaminants s of phenol and other wastes
01 X L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 _ OBSERVED (DATE:	
There is a potential for contamination of the food chain River. Fish in the river may ingest and bioaccumulate c	should waste migrate through the sontaminants in the water.	storm sewers and into the Niagara
01 X M. UNSTABLE CONTAINMENT OF WASTES	92 X OBSERVED (DATE: August 30	, 1978) POTENTIAL ALLEGED
(Spills/runoff/standing liquids/leaking drums) 03 POPULATION POTENTIALLY AFFECTED: 16,966	04 NARRATIVE DESCRIPTION	
During the FIT site inspection, stained soils and signs Readings of up to 350 ppm on an OVA flame ionization det investigation team observed readings of up to 350 ppm o possibly punctured drums landfilled on site.	ector. While soil augering into a	vellow waste, the field
01 X N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	OZ _ OBSERVED (DATE:	
Allegations by the NYSDEC noted excessive releases of ph Niagara River. Monitoring wells on site have also shown	enol and other wastes into the stop contaminant migration through the	m sewers, which empty into the groundwater.
01 X O. CONTAMINATION OF SEWERS, STORM DRAINS, WHITPS O4 NARRATIVE DESCRIPTION	02 X OBSERVED (DATE: April 28, 1	1987) POTENTIAL X ALLEGED
Allegations by the NYSDEC noted that excessive amounts o Analyses of surface water and soil samples collected du contaminants are migrating into the storm drainage ditch	ring the site inspection indicate (that low concentrations of
01 X P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 X 08SERVED (DATE: August 30,	1978 POTENTIAL ALLEGED
NYSDEC files noted leaking and possibly punctured drums is should cease. There was also a mention of unidentified samples collected during the site inspection indicate his	waste spread on the ground near the	landfill. Analyses of soil
OS DESCRIPTION OF ANY OTHER KNOWN, POVENTIAL, OR ALLEGED	HAZĀRDS	
The old lagoons which held grinding wastes were reported migrated away from the lagoons. There are other areas of the smoke stack was also reported to have some cadmium at acres, and old, having been active since 1911, other was	f unspecified wastes and spills whi nd zinc waste stored nearby. As th	ich may be hazardous. The area near
III. TOTAL POPULATION POTENTIALLY AFFECTED: 179	,395	
IV. COMMENTS		
Y. SOURCES OF INFORMATION (Cite specific references.	e.g., state files, sample analysis,	reports)
Phase I - Preliminary Investigation of the Spaulding Fibr Report on Spaulding Fibre Company, Inc. Interagency Task Industrial waste sites at Spaulding Fibre Company, Inc. S Unsigned letters from Robert Mitrey, NYSDEC; to Jack Ker NUS Corp. Region 2 FIT site inspection conducted on April	Force on Hazardous Mastes, 1979. Spaulding Fibre Company, Inc., Dece De. Soaulding Fibre Company. 8/30/	umber 13, 1983. 87. and 9/11/78.
General Sciences Corporation. Draft Graphical Exposure	Modeling System (GEMS). Landover,	Maryland, 1986.

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

1. IDENTIFICATION
OI STATE 02 SITE NUMBER
NY B000848440

II. PERMIT INFORMATION DI TYPE OF PERMIT ISSUED	OZ PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
(Check all th at apply)				
X A. MPDES	NY 0002364	6/28/74		
B. UIC				
C. AIR (See	e Attachments A and B)	Unknown	Unknown	
D. RCRA				
E. RCRA INTERIM STATUS				
F. SPCC PLAN				Implemented in the summer of
G. STATE (Specify)				1974.
d. Sinic topestry/				
H. LOCAL (Specify)	2 02	12/01/85	12/01/88	City of Tonawanda Industrial Sewer
I. OTHER (Specify)				Connection Permit
J. NONE				
SITE DESCRIPTION		 	 	.
torage/Disposal Check all that apply)	OZ ANOUNT OS UNIT		REATHERT Check all that apply)	05 OTHER
A. SURFACE IMPOUNDMENT			INCINERATION	X A. WUILDINGS ON SITE
B. PILES C. DRUMS, ABOYE GROUND	50 0 55- ga	. drums C.	UNDERGROUND INJECTION CHEMICAL/PMY SICAL	
D. TANK, ABOYE GROUND E. TANK, BELOW GROUND			BIOLOGICAL WASTE OIL PROCESSING	05 AREA OF SITE
F. LANDFI LL G. LANDFARM	* see cor		SOLVENT RECOVERY OTHER RECYCLING/RECOVERY	50
H. OPEN DUMP I. OTHER <u>Concrete</u> pit	1181 cubic	Н.	OTHER (Specify)	(Acres)
(Specify)		741 43	(Specify)	
OFFERTS				
40 tons of polyethylene	taining solvent and phenoi bags containing "Spauldite cinerator ash and other was	" dust (containing	asbestos)	
CONTAINMENT OF MASTES (C	heck one)			
A. ADEQUATE, SECURE	B. MODERATE	X C. INADEQUA	TE, POOR _ D. II	ISECURE, UN SOUND, DANGEROUS
SESCRIPTION OF DRUMS, DI	KING, LINERS, BARRIERS, EN	.		
ctured, and other drums the ground mear the land	were noted as leaking on the	h <mark>e ground near the</mark> sb estos landfill an	landfill. An unidentifie d several excavated and f	t. The drums were supposedly d waste was reported spread filled-in lagoons. There were a spill control for large
ACCESSIBILITY				·
IASTE EASILY ACCESSIBLE: CONNENTS	_ AE2 X MG		,	
the NYSDEC that phenol a		erly discharged int	to the storm sewers. Also	nce. There were allegations , soil samples indicate high
SOURCES OF THEOLOGATION (Cite specific references.	e.g., state files,	sample analysis, reports	
oort on Spaulding Fibre C	tigation of the Spaulding ompany, Inc. Interagency To	ask Force on Hazard	lous Wastes, 1979.	
dustrial was te sit es at S signed lett ers f rom Rober	paulding Fibre Company, In t Mitrey, WYSDEC, to Jack K T site inspection conducte	c. Spaulding Fibre ehoe, Spaulding Fib	Company, Inc., December 1 ore Company, 8/30/87, and	9/11/78.

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

l. IDENTIFICATION
OF STATE OZ SITE NUMBER
NY DOOOB48440

ATTACHMENT A

EXISTING ENVIRONMENTAL PERMITS*

9-015949	New York State Certificate to Operate Air Contamination Source
9-015950	New York State Certificate to Operate Air Contamination Source
9-015951	New York State Certificate to Operate Air Contamination Source
9-015952	New York State Certificate to Operate Air Contamination Source
9-016235	New York State Certificate to Operate Air Contamination Source
9-015956	New York State Certificate to Operate Air Contamination Source
9-015803	New York State Certificate to Operate Air Contamination Source
9-016234	New York State Certificate to Operate Air Contamination Source
9-015953	New York State Certificate to Operate Air Contamination Source
9-015954	New York State Certificate to Operate Air Contamination Source
9-015955	New York State Certificate to Operate Air Contamination Source
9-016241	New York State Certificate to Operate Air Contamination Source
9-016242	New York State Certificate to Operate Air Contamination Source
9-016243	New York State Certificate to Operate Air Contamination Source
9-016244	New York State Certificate to Operate. Air Contamination Source
9-016245	New York State Certificate to Operate Air Contamination Source
9-016246	New York State Certificate to Operate Air Contamination Source
9-016236	New York State Certificate to Operate Air Contamination Source
9-016237	New York State Certificate to Operate Air Contamination Source
9-016238	New York State Certificate to Operate Air Contamination Source
9-016239	New York State Certificate to Operate Air Contamination Source
9-016240	New York State Certificate to Operate Air Contamination Source

*Source - U.S. EPA Region 2 RCRA Files.

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ATTACHMENT B

	NY SDEC AIR PERMITS*		
Permit No.	Permitted Unit	Issue Date	Expiration Date
00 00 1	South Fuel Oil Tank	03/07/84	04/01/90
0 000 2	North Fuel Off Tank	03/07/84	04/01 /90
00003	Rag Shed We st Ph enol Tank	03/07/84	04/01/90
0 000 4	Rag Shed Central Cresylic Tank	03/07/84	04/01/90
00005	Rag Shed Ea st Cr esylic S Tank	03/07/84	04/01/90
00006	Resin-Making Formaldehyde Storage Tank	03/07/84	04/01/90
0 000 7	Underground Caustic Tank	03/07/84	04/01/90
80000	Underground Tolu ene Tank	03/07/84	04/01 /90
0 000 9	Underground Methanol Tank (East)	03/07/84	04/01/90
0 001 0	Underground Methanol Tank (West)	03/07/84	04/01/90
00011	Ethanol Tank	03/07/84	04/01/90
00012	Methanol Ta nk	03/07/84	04/01/90
00013	Grinding Oil Tank	03/07/84	04/01/90
008-0	Rag Cutter Wet Scrubber	01/01/82	05/01/91
01 80 0	Spauldite Saws & Sanders Baghouse	01/01/82	05/01/91
01801	SEM Saws & Sanders Baghouse	01/01/82	05/01/91
01 81 A	Cyclone (backup to baghouse)	01/01/82	05/01/91
501-0	Fibre Tube Grinder Electrostatic Precipitator	01/01/82	05/01/91
502-0	Fibre Tube Bip Tank	01/01/82	05/01 /91
5 03- 0	Fibre Tube Bip Tank	01/01/82	05/01/91
504-0	Fibre Tube Grinder Electrostatic Precipitator	01/01/82	05/01/91
52 9- 0	Mezzanine Resin Tanks Exhaust	01/01/82	05/01/91
5 43- 0	Washer Chest	01/01/82	05/01/91
544-0	Washer Chest	01/01/82	05/01/91
5 45- 0	Washer Chest	01/01/82	05/01/91
5 46- 0	Washer Chest	01/01/82	05/01/91
547-0	Washer Chest	01/01/82	05/01/91
0 20E H	No. 2 Treater Exit Exhaust	05/30/85	04/01 /90
O3DEH	No. 3 Treater Exit Exhaust	05/30 /85	04/01 /90
0 4DE H	No. 4 Treater Exit Exhaust	05/30/85	04/01 /90
4 30E E	Treater Room Cefling Exhaust	05/30/85	09/01 /90
43WEE	Treater Room Cefling Exhaust	05/30/85	09/01 /90
0 400 0	Four-Inch Press	03/19/85	04/01/90
0 6000	Six-Inch Press	03/19/85	04/01/90
16000	No. 16 Press	03/19/85	04/01/90
5 380 0	No. 1 Boiler	01/01/82	05/01/91
53900	No. 2 Boiler	01/01/82	05/01/91
5 400 0	No. 3 Boiler	01/01/82	05/01/91
5 410 0	No. 4 Boiler	01/01/82	05/01 /91
54200	Incinerator	01/01/82	05/01/91
5 550 0	No. 5 Treater	12/01/82	05/01/91

*Source - Letter and background files, from Greg Stubbs, Spaulding Fibre, to Alan J. Cherepon, NUS Corp., May 28, 1987.

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			SITE INSP	ARDOUS WASTE ECTION REPOR	Т		TDENTIFICAT	NUMBER
		PART 5 -	DEMOGRAPHIC	, AND ENVIRO	MMENTAL DATA		NY D0008	·48 440
II. DRINKING WATER SUPPLY OF TYPE OF DRINKING SUPPLY			02 STATUS			03 DIS	TANCE TO SITE	
(Check as applicable)	SURFACE	WELL	END ANG EREC			_		
COMMUNITY NON-COMMUNITY	A. <u>X</u> C. <u> </u>	B	A: _	B	C. F. <u> </u>	å: <u> </u>	1.0	{mi} (mi)
III. GROUNDWATER O1 GROUNDWATER USE IN VICI	NITY (Check o	one)			***************************************			
A. ONLY SOURCE FOR DRIN			X C. COMM	ERCIAL, INDUS	STRIAL, IRRIGATIO	ON D. N	OT USED, UNUS	EABLE
_ 1. 01.21 3001.02 1011 01121	(Other avai COMM INDUITED INTO (NO)	er sources lable) ERCIAL, ERTIAL, GATION other water ces availabl	— (Limit		rces available)	_		
02 POPULATION SERVED BY GR	OUND WATER:	<u> </u>		O3 DISTANCE	TO NEAREST DRINK	ING WATER WEL	L: <u>N/A</u>	(m1)
04 DEPTH TO GROUNDWATER	05 DIRECTION	OF GROUNDWA	ITER FLOW	OF CONCERN	AQUIFER 07 POTE OF AQU		08 SOLE SOU	RCE AQUIFER
(ft)		North		10	(ft) <u>Unknow</u>	<u>n</u> (gpd)	_ YES	<u>x</u> no
09 DESCRIPTION OF WELLS (I	ncluding use	age, depth,	and locatio	n relative t	o population and	buildings)		
NOis_relativ	All soil sam site encount vely impermea le recharge.	ered clayey	rings on sil t, which	X NO	COMMENTS			
X A. RESERVOIR, RECREATED DRINKING WATER SOURCE	CE IMPO	RIGATION, EC RTANT RESOUR		C. COMME	RCIAL, INDUSTRIA	L _ D. KOT	CURRENTLY US	SED
02 AFFECTED/POTENTIALLY AL	FFECTED BODIE	S OF WATER		AFFF	CTED DISTANC	E TO SITE		
Ni ag ara Rive	er					0.7	(mi)	
11100011							(ai)	
							(m1)	
							 • •	
V. DEMOGRAPHIC AND PROPER OF TOTAL POPULATION WITHIN		N .			O2 DISTA	NCE TO NEARES	T POPULATION	
ONE (1) MILE OF SITE	E TWO (2)	MILES OF SI	TE THREE	(3) MILES OF	SITE			
A. 15,966 NO. OF PERSONS		36,050 0. OF PERSO	c. KS NO.	98,010 OF PER SORS	· · ·		0	(mi)
O3 NUMBER OF BUILDINGS WI	THIN TWO (2)	MILES OF SI	ΙΈ	04 DISTANCE	TO NEAREST OFF-S	TTE BUILDING		
13,296					<u></u>	0.02		(≡i)
05 POPULATION WITHIN VICI	NITY OF SITE	(Provide nas	rrative desc	ription of n	ature of populat	ion within vi	icinity of si	te. e.g.,
The site is located in a residential properties an	denselv cocul	ated urban a	area in the other. The	suburbs of n total popula	orthern Buffalo. Ition within a 4-	. Commercial, mile radius	/industrial a is 175,395.	nd
EPA FORM 2070-13 (7-81)						02-8704- Rev. No		,

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

1. IDENTIFICATION
OF STATE 02 SITE NUMBER
NY D000848440

02-8704-02-SR Rev. No. 0

VI. ENVIRONMENTAL INFORMATION
OI PERMEABILITY OF UNSATURATED ZONE (Check one) X A. 10-6 - 10-8 cm/sec Reddish-brown clayey-silty glacial till overlain with fill material. D. GREATER THAN 10-3 cm/sec D. GREATER THAN 10-3 cm/sec
02 PERMEABILITY OF BEDROCK (Check one)
A. IMPERMEABLE B. RELATIVELY IMPERMEABLE \times C. RELATIVELY PERMEABLE D. VERY PERMEABLE (Less than 10^{-5} cm/sec) $= (10^{-4} - 10^{-5}$ cm/sec) $= (10^{-2} - 10^{-4}$ cm/sec) (Greater than 10^{-2} cm/sec) Fractured and solution cavitied Camillus Shale.
03 DEPTH TO BEOROCK 04 DEPTH OF CONTANTIBATED SOIL ZONE 05 SOIL PH
29 (ft) 10 (ft) Unknown
06 NET PRECIPITATION 07 ONE YEAR 24 HOUR RAINFALL 08 SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE
8 (in) 2.1 (in) 1 % North 0.4 %
09 FLOOD POTENTIAL 10
SITE IS IN SOO YEAR FLOODPLAIN SITE IS ON BARRIER ISLAND, COASTAL HIGH MAZARD AREA, RIVERIME FLOODMAY
11 DISTANCE TO WETLANDS (5 acre minimum) 12 DISTANCE TO CRITICAL HABITAT (of endangered species)
ESTUARINE OTHER(m1)
A. 2 (m1) B. 31 (m1) ENDANGERED SPECIES: not applicable
13 LAND USE IN VICINITY
DISTANCE TO:
COMMERCIAL/INDUSTRIAL RESIDENTIAL AREAS: MATIONAL/STATE PARKS, AGRICULTURAL LANDS FORESTS, OR WILDLIFE RESERVES PRIME AG LAND AG LAND
A. 0 (mil) B. residential 0.02 (mil) C (mil) D (mil)
14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGNAPHY
The site is on a gently northward-dipping plain, approximately 0.7 mile southeast of the Miagara River, and south of Ellicott Creek.
VII SOURCES OF INFORMATION (Cite specific references e.g., state files, sample analysis, reports)
,
Phase I - Preliminary Investigation of the Spaulding Fibre Company, Inc. Recra Research, Inc., November, 1983. Report on Spaulding Fibre Company, Inc. Interagency Task Force on Hazardous Wastes, 1979. Industrial waste sites at Spaulding Fibre Company, Inc. Spaulding Fibre Company, Inc., December 13, 1983. Unsigned letters from Robert Mitrey, NN SDEC, to Jack Kehoe, Spaulding Fibre Company, 8/30/87, and 9/11/78. Three-mile vicinity map including U.S. Department of the Interior, Geological Survey Topographic Map, 7.5 minute series quadrangles, "Tonawanda West, NY", 1980; "Tonawanda East, NY", 1980; "Buffalo, Northeast, NY", 1965; and "Buffalo, Northwest, NY", 1965. NUS Corporation Region 2 FIT site inspection conducted on April 28 and 29, 1987, TDD No. 02-8704-02.
SI/HRS Report for Tomawanda Incinerator, TDD No. 02-8603-30A, NUS Corporation Region 2 FIT, August 28, 1986.

EPA FORM 2070-13 (7-81)

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

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 000848440

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKE	N 02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	2	Inorganics sent to:	
SURFACE WATER	2	Mack Laboratories 2199 Dartmore Avenue Pittsburgh, PA 15210 Attn: Jim Ciciliano	Results received 11/16/87
WASTE			
AIR			
RUNOFF		Organics sent to:	
SPILL		Cambridge Analytical Assoc. 1106 Commonwealth Avenue Boston, MA 02215 Attn: Sharon Waler	
SOIL	8		Results received 11/16/87
VEGETATION			
OTHER			
I. FIELD HEASUR	EMENTS TAKEN 02 COMMENTS		
r Monitoring	350 ppm were record and of up to 7 ppm (above background we	ed during the soil augering of sample on the soil sample at the surface. M o re recorded.	MYR9-S2, from 2 to 4 ft, job downwind readings
•	and of up to 7 ppm of above background we	on the soil sample at the surface. We	NYR9-S2, from 2 to 4 ft, o downwrind readings
. PHOTOGRAPHS 7	and of up to 7 ppm of above background we	on the soil sample at the surface. More recorded. OZ IN CUSTODY OF NUS Corporate	o downwind readings
. PHOTOGRAPHS 7	and of up to 7 ppm above background we not be seen above by seen above background we not be seen above by seen above background we not be seen above by seen	on the soil sample at the surface. More recorded. OZ IN CUSTODY OF NUS Corporate	o downwind readings
. PHOTOGRAPHS 7 TYPE 2 HAPS 0	and of up to 7 ppm above background we above background we ground we groundAERIAL	O2 IN CUSTORY OF NUS Corporat	o downwind readings
PHOTOGRAPHS 7	and of up to 7 ppm above background we above background we groundAERIAL	O2 IN CUSTOOT OF NUS Corporat (Name of	o downwind readings
. PHOTOGRAPHS A TY PE MAPS X YES NO OTHER FIELD IM	and of up to 7 ppm above background we above background we ground we ground we have a second of maps NUS Corporation FIT	O2 IN CUSTORY OF NUS Corpora (Name of 2 Project Files, Edison, N.J.	tion FIT 2, organization or individual)
TYPE X WAPS 0 X YES NO OTHER FIELD DA	and of up to 7 ppm above background we above background we ground we ground we have a second of maps NUS Corporation FIT	O2 IN CUSTOOT OF NUS Corporat (Name of	tion FIT 2, organization or individual)
PHOTOGRAPHS 7 TY PE 2 HULPS 0 X YES NO OTHER FIELD DA	and of up to 7 ppm above background we above background we ground we ground we have a second of maps NUS Corporation FIT	O2 IN CUSTORY OF NUS Corpora (Name of 2 Project Files, Edison, N.J.	tion FIT 2, organization or individual)
. PHOTOGRAPHS 7 TY PE X YES NO OTHER FIELD IN	and of up to 7 ppm above background we above background we ground we ground we have a second of maps NUS Corporation FIT	O2 IN CUSTODY OF NUS Corporate (Name of 2 Project Files, Edison, N.J. 1ve description) 8704-02, written and photographic documents.	tion FIT 2, organization or individual)
TYPE X WAPS 0 X YES NO OTHER FIELD DA	and of up to 7 ppm above background we above background we ground we ground we have a second of maps NUS Corporation FIT	O2 IN CUSTORY OF NUS Corpora (Name of 2 Project Files, Edison, N.J.	tion FIT 2, organization or individual)
TYPE X MAPS CONTROL NO OTHER FIELD OF	and of up to 7 ppm above background we above background we ground we grow a serial. A LOCATION OF MAPS NUS Corporation FIT TA COLLECTED (Provide narrate) 60, filed under TOD No. 92-	O2 IN CUSTODY OF NUS Corporate (Name of 2 Project Files, Edison, N.J. 1ve description) 8704-02, written and photographic documents.	tion FIT 2, organization or individual) mentation of all field activities.
TYPE X TY	and of up to 7 ppm above background we above background we ground we grow a serial A LOCATION OF MAPS NUS Corporation FIT TA COLLECTED (Provide narration) 60, filed under FDD No. 02-	O2 IN CUSTORY OF NUS Corporate (Name of Value description) 8704-02, written and photographic documents of the corporate of t	alysis, reports)
TYPE X TY	and of up to 7 ppm above background we above background we ground we grow a serial A LOCATION OF MAPS NUS Corporation FIT TA COLLECTED (Provide narration) 60, filed under FDD No. 02-	O2 IN CUSTODY OF NUS Corporate (Name of 2 Project Files, Edison, N.J. 1ve description) 8704-02, written and photographic documents of the second of the se	alysis, reports)

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

OI STATE OZ SITE NUMBER
NY DO00848440

CURRENT OWNER(S)		OZ D + B NUMBER	PARENT COMPANY (If applicable) 08 NAME	09 D + B NUMBER
NAME		טב ט ד ט אעפטנג	OO RAME	US U T D NUMBER
aulding Fibre Co. STREET ADORESS (P.O. Box	c, RFD∌, etc.)	04 SIC CODE	10 STREET ADORESS (P.O. Box, RFD#, etc.)	11 SIC CODE
O Wheeler St re et CITY	06 STATE	07 ZIP CODE	12 CITY 13 STATE	14 ZIP CODE
nawanda	ĸ	14150		
KAME		OZ D + B NUMBER	OB NAME	09 D + B NUMBE
STREET ADORESS (P.O. Box	x, RFD#, etc.)	94 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
CITY	06 STATE	07 ZIP CODE	12 CITY 13 STATE	14 ZIP CODE
MARK		UZ D + B NUMBER	CB KAME	OS D + B MONSE
STREET ADDRESS (P.O. Box	x, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
CITY	06 STATE	07 ZIP CODE	12 CITY 13 STATE	14 ZIP CODE
NAS.		UZ D + B NUMBER	OR NUME	09 D + B WUMBE
STREET ADORESS (P.O. Bo	x, RFD#, etc.)	64 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
				14 ZIP CODE
CITY	06 STATE	07 ZIP COD€	12 CITY 13 STATE	14 ZIP CODE
CITY T. PREVIOUS OWNER(S) (L1			12 CITY 13 STATE IV. REALIT OWNER(S) (If applicable; list of	
Y. PREYTOUS OFMER(S) (LI				iost recent firs
1. PREVIOUS OFMER(S) (L1	st most recent ff	rst)	IV. REALIV CHRER(S) (If applicable; list of	iost recent firs
I. PREVIOUS OWNER(S) (L1 KANE Inogram Industries STREET ADDRESS (P.O. Bo	st most recent ff	rst) UZ V + B NOMBER	IV. REALTY CHMER(S) (IV applicable; list of	ost recent first
Y. PREVIOUS OWNER(S) (L1 KANE Inogram Industries STREET ADDRESS (P.O. Bo	st most recent fl	UZ V + B NUMBER 04 SIC CODE	IV. REALIV OWNER(S) (If applicable; list of traffe OI NAME O3 STREET ADDRESS (P.O. Box, RFD#, etc.)	UZ U + B NUMBE 04 SIC CODE
I. PREVIOUS CHMER(S) (Li NOTE INOGRAM Industries STREET ADDRESS (P.O. Bo 199 Ocean Avenue CITY Inta Monica	st most recent ff ox, RFD#, etc.) 06 STATE	OZ D + B NOMBER O4 SIC CODE O7 ZIP CODE	IV. REALIV OWNER(S) (If applicable; list of traffe OI NAME O3 STREET ADDRESS (P.O. Box, RFD#, etc.)	OZ D + B NUMBE O4 SIC CODE O7 ZIP CODE
T. PREVIOUS OWNER(S) (L1 NOTE DROGGRAM Industries B STREET ADDRESS (P.O. Bo 29 Ocean Avenue 5 CITY anta Monica Daulding Family	ox, RFD#, etc.) 06 STATE CA	04 SIC CODE 07 ZIP CODE 90401	17. REALIT OMMER(S) (IT applicable; list of the control of the con	OZ D + B NUMBE O4 SIC CODE O7 ZIP CODE
	ox, RFD#, etc.) 06 STATE CA	02 0 + 8 NUMBER 04 SIC CODE 07 ZIP CODE 90401 02 0 + 8 NUMBER	IV. REALIV OWNER(S) (IF applicable; list of the control of the con	OZ D + B NUMBE O4 SIC CODE O7 ZIP CODE
DATE OF THE PREVIOUS OF THE PR	st most recent fi ox, RFD#, etc.) 06 STATE CA ox, RFD#, etc.)	04 SIC CODE 04 SIC CODE 07 ZIP CODE 90401 02 D + B NUMBER 04 SIC CODE	17. REALTY OWNER(S) (If applicable; list of the control of the con	OF SIC CODE
T. PREVIOUS OFMER(S) (L1 NAME INTERIOR INDUSTRIES STREET ADDRESS (P.O. Bo 299 Ocean Avenue 5 CITY Anta Monica LAME Daulding Family 3 STREET ADDRESS (P.O. Bo	ox, RFD#, etc.) O6 STATE CA Ox, RFD#, etc.)	04 SIC CODE 04 SIC CODE 07 ZIP CODE 90401 02 D + B NUMBER 04 SIC CODE	17. REALTY OWNER(S) (If applicable; list of the control of the con	OF SIC CODE
I. PREVIOUS OWNER(S) (Li KANE INTOGRAM Industries ISTREET ADDRESS (P.O. Bo 299 Ocean Avenue IS CITY INTERIOR ADDRESS (P.O. Bo S STREET ADDRESS (P.O. Bo S CITY I KANE ONLY I KANE	st most recent fi ox, RFD#, etc.) O6 STATE CA Ox, RFD#, etc.) O6 STATE NH	02 0 + 8 NORSER 04 SIC CODE 07 ZIP CODE 90401 02 0 + 8 NORSER 04 SIC CODE 07 ZIP CODE	17. REALTY OWNER(S) (If applicable; list of the control of the con	OF SIC CODE
DATE OF THE PREVIOUS OF THE PR	st most recent fi ox, RFD#, etc.) O6 STATE CA Ox, RFD#, etc.) O6 STATE NH	04 SIC CODE 07 ZIP CODE 90401 02 D + B NUMBER 04 SIC CODE 07 ZIP CODE 07 ZIP CODE	19. REALTY OWNER(S) (If applicable; list of the control of the control of state of the control of stat	OZ U + B NUMBE OZ U + B NUMBE

NUS Corporation Region 2 FIT site inspection conducted on April 28 and 29, 1987, TDD No. 02-8704-02. Letter and background file from Gregory Stubbs, Spaulding Fibre Company, to Alan J. Cherepon, NUS Corporation Region 2 FIT, May 28, 1987.

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

1. IDENTIFICATION
OI STATE 02 SITE NUMBER
NY 0000848440

II. CURRENT OPERATOR(S)		OPERATOR'S PARENT COMPANY (If applicable)	
OI NAME	02 D + B Number	IU NAME	11 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	94 SIC COBE	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
OS YEARS OF OPERATION OS NAME OF CHINER			
TIT. PREVIOUS OPERATOR(S) (List most recent Provide only if	first: different from owner)	PREVIOUS OPERATOR'S PARENT COMPANIES (IF a	ppTTcable)
OI NAME	02 D + B Number	10 NONE	II D + B NUMBER
93 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)	13 SIC COOE
05 CITY 06 STATE	07 ZIP C 00 €	14 CITY 15 STATE	16 ZIP COOE
08 YEARS OF OPERATION 09 NAME OF OWNER			
OI NAME	UZ D + B Number	10 KARE	II 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 Q6 STATE	07 ZIP COOE	14 CITY 15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 09 NAME OF OWNER			
OI NOME	UZ U + B Wumber	IO MARE	II D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, atc.)	13 SIC CODE
05 CITY 06 STATE	07 ZIP CODE	14 CITY 15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 09 NAME OF OWNER			
IV. SOURCES OF INFORMATION (Cite specific r	eferences, e.g., sta	ce files, sample amalysis, reports)	

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

1. IDENTIFICATION
OI STATE 02 SITE NUMBER
NY 0000848440

II ON-SITE GENERATOR				
OI NAME		02 D + B NUMBER		
Spaulding Fibre Co. 03 STREET ADDRESS (P.O. Box, RFD#	, etc.}	64 SIC CODE		
310 Wheeler Street 05 CITY G	STATE	07 ZIP CODE		
Tonawanda	W	14150		
HI OFF-SITE GENERATOR(S)				
OI NAME		02 D + B NUMBER	OI NAME	OZ D + B NOMBER
03 STREET ADDRESS (P.O. Box, RFD#	, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
05 CITY O	STATE	07 ZIP COOE	05 CITY 06 STATE	07 ZIP CODE
OX NOTE	72	OZ D + B NUMBER	OI NOME	02 D + 8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD#)	, etc.)	G4 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
05 CITY OX	STATE	07 ZIP CODE	05 CITY 06 STATE	07 ZIP CODE
IV. TRANSPORTER(S)				
OI NAME	•	02 D + B NUMBER	OI NOME	02 D + B NUMBER
Niagara Sanitation Co. 03 STREET ADDRESS (P.O. Box, RFD#,	etc.)	04 SIC CODE	Hyman Barrel Company 03 STREET ADORESS (P.O. Box, RFD#, etc.)	04 SIC CODE
1050 Military Road, P.O. Box 9 05 CITY CX	STATE	07 ZIP CODE	878 South Division Street 05 CITY 06 STATE	07 ZIP CODE
Kenmore	MY		Buffalo NY	
OI NAME		OZ D + B NUMBER	OI NAME	02 D + B NUMBER
Wheatfield Warehouse, Inc. 03 STREET ADDRESS (P.O. Box, RFD#,	etc.)	04 SIC CODE	BFI 03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
493 Wheatfield Street 05 CITY 06	STATE	07 ZIP CODE	05 CITY 06 STATE	07 ZIP CODE
North Tonawanda	NY			

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

Phase I - Preliminary Investigation of the Spaulding Fibre Company, Inc. Recra Research, Inc., November, 1983. Report on Spaulding Fibre Company, Inc. Interagency Task Force on Hazardous Wastes, 1979. Industrial waste sites at Spaulding Fibre Company, Inc. Spaulding Fibre Company, Inc., December 13, 1983. Unsigned letters from Robert Mitrey, MYSDEC, to Jack Kehoe, Spaulding Fibre Company, 8/30/87, and 9/11/78. NUS Corporation Region 2 FIT site inspection conducted on April 28 and 29, 1987, TDD No. 02-8704-02.

EPA FORM 2070-13 (7-81)

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

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D000848440

II. PAST RESPONSE ACTIVITIES		
OI R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	OZ DATE:	03 AGENCY:
No Previous History O1 S. CAPPING/COVERING O4 DESCRIPTION	O2 DATE:	03 AGENCY:
A drum landfill and asbestos/grinding waste la O1 T. BULK TANKAGE REPAIRED O4 DESCRIPTION	indfill were reportedly capped with the 02 DATE:	local clayey till. 03 AGENCY:
No Previous History 01 U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE:	03 AGENCY:
No Previous History 01 V. BOTTOM SEALED 04 DESCRIPTION	OZ DATE:	03 AGENCY:
No Previous History Ol W. GAS CONTROL O4 DESCRIPTION	O2 DATE:	03 AGENCY:
No Previous History 01 X. FIRE CONTROL 04 DESCRIPTION	OZ DATE:	03 AGENCY:
No Previous History 01 Y. LEACHATE TREATMENT 04 DESCRIPTION	OZ DATE:	03 AGENCY:
No Previous History 01 Z. AREA EVACUATED 04 DESCRIPTION	OZ DATE:	03 AGENCY:
No Previous History 01 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE:	03 AGENCY:
No Previous History 01 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE:	03 AGENCY:
No Previous History 01 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	OZ DATE:	03 AGENCY:

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

Phase I - Preliminary Investigation of the Spaulding Fibre Company, Inc. Recra Research, Inc., November, 1983. Report on Spaulding Fibre Company, Inc. Interagency Task Force on Hazardous Wastes, 1979. Industrial waste sites at Spaulding Fibre Company, Inc. Spaulding Fibre Company, Inc., December 13, 1983. Unsigned letters from Robert Mitrey, NN SDEC, to Jack Kehoe, Spaulding Fibre Company, 8/30/87, and 9/11/78.

No Previous History

SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

OI STATE OZ SITE NUMBER NY DO00848440

II. PAST RESPONSE ACTIVITIES				
01 A. HATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE:		D3 AGENCY	
No Previous History 01 B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DAYE:		D3 AGENCY:	
No Previous History 01 C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE:		03 AGENCY :	:
No Previous History O1 D. SPILLED MATERIAL REMOVED O4 DESCRIPTION	02 DATE:		03 AGENCY:	
No Previous History 01 X E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION In 1972, lagoons containing phenol and grinding waste were Seaway Landfill. NY SDEC Files report that this was propi	e excavated.	1972 The excavated material a		
01 F. MASTE REPACKAGED 04 DESCRIPTION	•		03 AGENCY:	
No Previous History 01 X G. MASTE DISPOSED ELSEWHERE 04 DESCRIPTION	OZ DATE:	1972	03 AGENCY:	·
Contents of lagoons excavated and disposed of at Seaway E. 01 X H. ON SITE BURIAL 04 DESCRIPTION The drum landfill contains an estimated 750 drums of phenolandfill contains asbestos, phenol, and glass. There is a chloride and possibly cadmium. Other waste is reportedly 01 X I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE: olic resins, also a concre buried on si	te-lined oft inside the	ther wastes. Diant which	The asbestos
Zinc chloride water is treated at the plant wastewater tro 01 J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	eatment syste OZ DATE:	.	03 AGENCY :	· · · · · · · · · · · · · · · · · · ·
No Previous History 01 K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION Boiler ash and incinerator ash was spread around the plan		Waste oil was originally		i on site.
01 X L. ENCAPSULATION 04 DESCRIPTION		February 1978		
Zinc hydroxide waste was encapsulated in a concrete pit in the state of the concrete pit in the concrete p		nt.	O3 AGENCY:	
No Previous History O1 N. CUTOFF WALLS O4 DESCRIPTION	O2 DATE:		03 AGENCY :	
No Previous History 01	02 DATE:		O3 AGENCY :	
No Previous History 01 P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE:		03 AGENCY :	
No Previous History 01 Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	OZ DATE:		O3 AGENCY :	
No Previous History				

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

1. IDENTIFICATION OI STATE OZ SITE NUMBER NY D000848440

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION

X YES

_ 100

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

The Spaulding Fibre Company has been responsible for numerous improper waste handling procedures, with the oldest citation occurring in 1958. This involved the alleged release of phenol and other wastes into the sewer system, which emptied directly into the Niagara River. Also, a letter from the NYSDEC dated August 30, 1978 noted improper waste dumping practices on site which caused the immediate halting of all on-site disposal, noting that continued disposal would be in violation of part 360 of the environmental conservation law. A complaint, compliance order was served to Spaulding Fibre on May 31, 1984, for violations of 40 CFR S 265.112 (closure plan deficiences) and 40 CFR S 265.142 (closure cost estimates did not contain sufficient information). Other actions are as follows:

- NY SDEC Order of Consent File No. 86-399-1711
- U.S. EPA Docket No. 11 TSCA-PCB-86-0241 ٥
- 0
- U.S. Coast Guard Case No. 10-017/86 NY SDEC Uniform Appearance Ticket No. 121251

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

Phase I - Preliminary Investigation of the Spaulding Fibre Company, Inc. Recra Research, Inc., November, 1983. Report on Spaulding Fibre Company, Inc. Interagency Task Force on Hazardous Wastes, 1979. Industrial waste sites at Spaulding Fibre Company, Inc. Spaulding Fibre Company, Inc., December 13, 1983. Unsigned letters from Robert Mitrey, NYSDEC, to Jack Kehoe, Spaulding Filbre Company, 8/30/87, and 9/11/78. U.S. EPA, Region 2, RCRA Files. Letter and background file, from Gregory Stubbs, Spaulding Fibre Company, to Alan J. Cherepon, NUS Corporation, May 28, 1987.

> 02-8704-02-SR Rev. No. 0

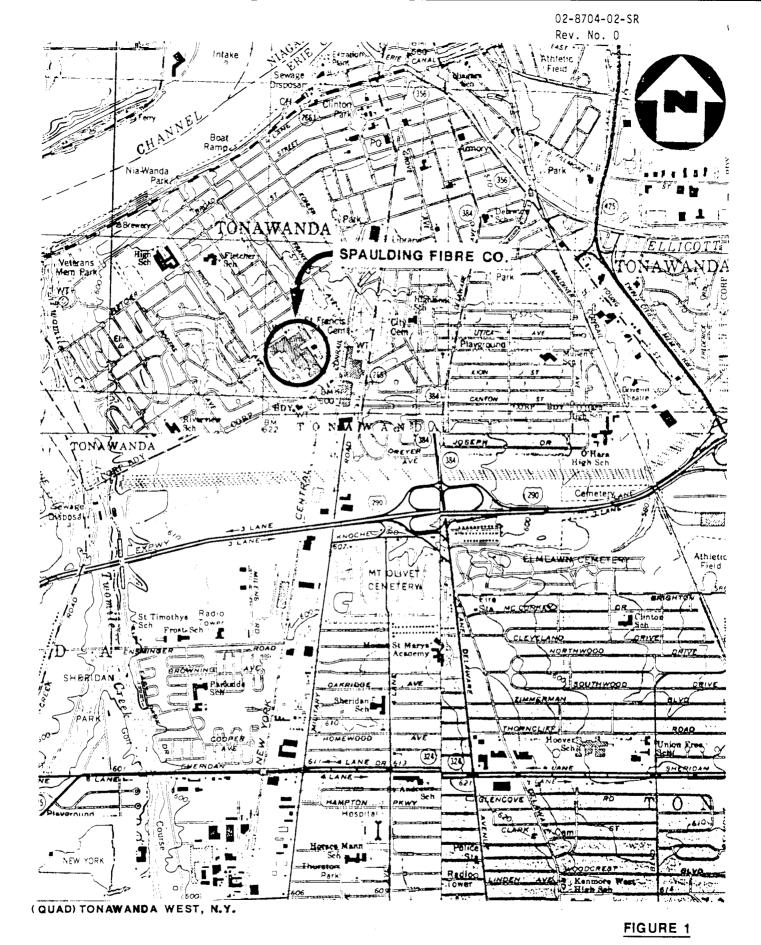
SECTION 3 MAPS AND PHOTOGRAPHS

SPAULDING FIBRE COMPANY TONAWANDA, NEW YORK CONTENTS

FIGURE 1: SITE LOCATION MAP

FIGURE 2: SAMPLE LOCATION MAP

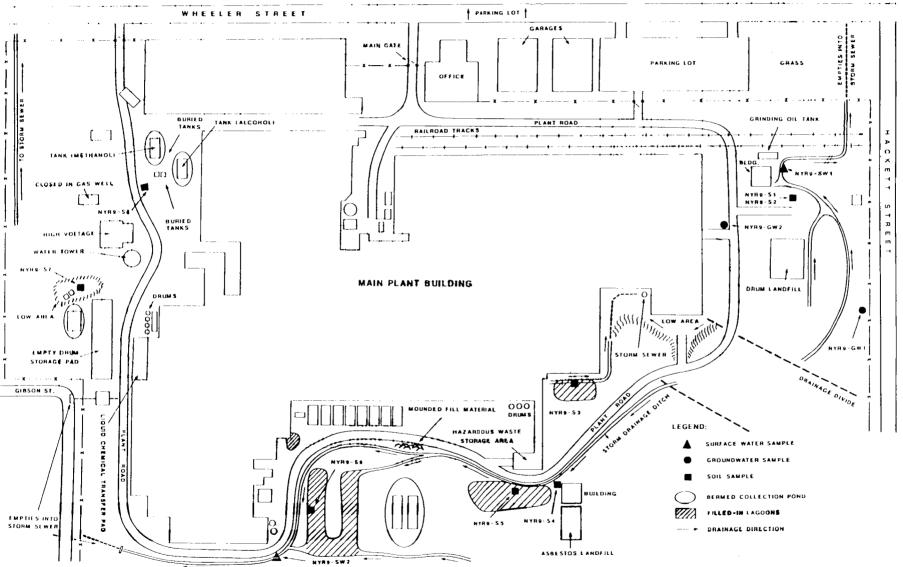
EXHIBIT A: PHOTOGRAPH LOG



SPAULDING FIBRE CO., TONAWANDA, N.Y.



SCALE: 1"=2000"





SAMPLE LOCATION MAP SPAULDING FIBRE COMPANY, TONAWANDA, N.Y.

(NOT TO SCALE)

02-8704-02-SR Rev. No. 0

EXHIBIT A

PHOTOGRAPH LOG

SPAULDING FIBRE COMPANY TONAWANDA, NEW YORK TDD NO. 02-8704-02 APRIL 28 and 29, 1987

SPAULDING FIBRE COMPANY TONAWANDA, NEW YORK TDD NO. 02-8704-02 APRIL 28, 1987

PHOTOGRAPH INDEX

ALL PHOTOGRAPHS TAKEN BY ALAN J. CHEREPON

Photo Number	Description	Time
1P-1	Chemical distribution pad for trucks, across from empty drum storage area, north side of the plant. Photo direction - east.	1330
1P-2	Empty drum storage area on the north side of the plant. Photo direction - northeast.	1332
1P-3	Methanol and alcohol storage tanks on the north side of the plant. Photo direction - east.	1340
1P-4	View of chemical transfer pad and empty drum storage area, with large storage tank behind. This photo shows dip and surface runoff going to the right (north). Photo direction - west.	1341
1P-5	The southwest side of the plant, showing the hazardous waste storage building in the center, and the asbestos landfill behind the building on the left. Photo direction northwest.	1350
1P-6	Surface water sample NYR9-SW1, drainage ditch behind the grinding oil tank, south of the drum landfill, on the south side of the plant. Sampler: Bill Schnitzerling. Photo direction - northwest.	1455
1P-7	Surface water sample NYR9-SW2, drainage ditch near the U-shaped lagoon on the west side of the plant. Sampler: Bill Schnitzerling.	1535
1P-8	Groundwater sample NYR9-GW1 (well A) near the fence by Hackett Street, on the south side of the plant. Samplers: Bill Schnitzerling and Mike Bauman.	1650
1P-9	Groundwater sample NYR9-GW2 (well B) near the south side of the plant building. Samplers: Bill Schnitzerling and Mike Bauman.	1715

SPAULDING FIBRE COMPANY TONAWANDA, NEW YORK TDD NO. 02-8704-02 APRIL 29, 1987

PHOTOGRAPH INDEX

ALL PHOTOGRAPHS TAKEN BY ALAN J. CHEREPON

Photo Number	Description	<u>Time</u>
1P-10	Soil sample NYR9-S4, auger sample from 0-2 feet, aongside the building south of the hazardous waste storage building. Samplers: Randy Rice and Bill Schnitzerling. Photo direction - east.	1230
1P-11	Soil sample NYR9-S5, auger sample from 0-2 feet, filled-in lagoon north of the asbestos landfill on the west side of the plant. Sampler: Randy Rice.	1315
1P-12	Soil sample NYR9-S6, auger from 0-2 feet, U-shaped lagoon on the west side of the plant. Sampler: Bill Schnitzerling.	1335
1P-13	Soil sample NYR9-S7, auger sample from 0-2 feet, low area next to drain coversnorth of the empty drum storage area, on the north side of the plant. Samplers: Randy Rice and Bill Schnitzerling.	1430
1P-14	Soil sample NYR9-S8, auger sample from 0-2 feet, near methanol and alcohol storage tanks on the north side of the plant. Sampler: Bill Schnitzerling. Photo direction - northeast.	1500
1P-15	Panoramic view of the plant as seen from near the train tracks, east of the parking lot, east of the plant on Wheeler Street. Photo direction - west.	1525





1P-1 April 28, 1987
Chemical distribution pad for trucks, across from empty drum storage area, north side of the plant. Photo direction - east.
Photographer: Alan J. Cherepon



April 28, 1987

Empty drum storage area on the north side of the plant.
Photo direction - northeast.
Photographer: Alan J. Cherepon

1P-2

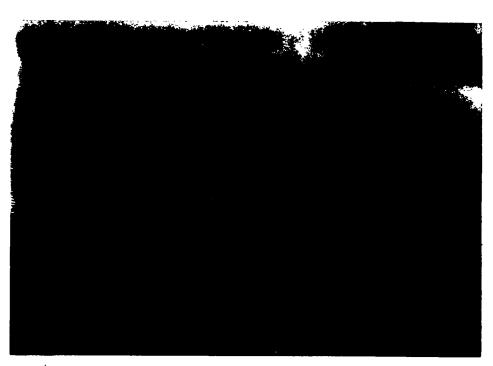




1P-3

April 28, 1987

Methanol and alcohol storage tanks on the north side of the plant. Photo direction - east.
Photographer: Alan J. Cherepon

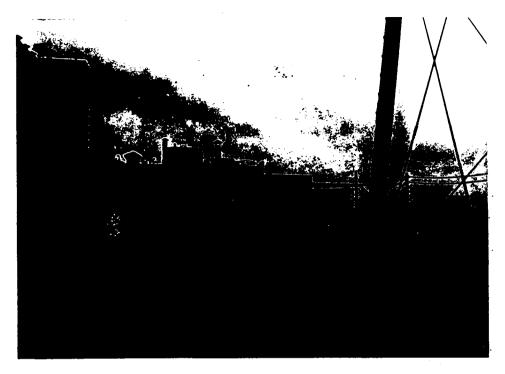


April 28, 1987

View of chemical transfer pad and empty drum storage area, with large storage tank behind. This photo shows dip and surface runoff going to the right (north). Photo direction - west.

Photographer: Alan J. Cherepon





19-5
April 28, 1987
The southwest side of the plant, showing the hazardous waste storage building in the center, and the asbestos landfill behind the building on the left. Photo direction - northwest.

Photographer: Alan J. Cherepon



April 28, 1987

Surface water sample NYR9-SW1, drainage ditch behind the grinding oil tank, south of the drum landfill, on the south side of the plant. Sampler: Bill Schnitzerling Photo direction northwest. Photographer: Alan J. Cherepon





April 28, 1987

Surface water sample NYR9-SW2, drainage ditch near the U-shaped lagoon on the west side of the plant. Sampler: Bill Schnitzerling Photographer: Alan J. Cherepon

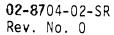


1P-8

April 28, 1987

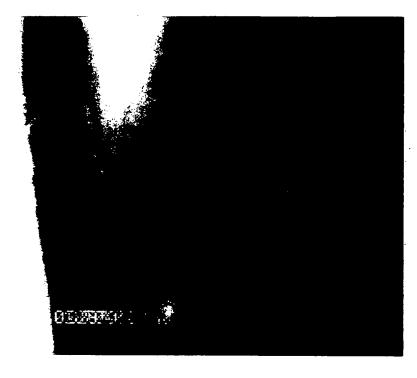
Groundwater sample NYR9-GW1 (well A) near the fence by Hackett Street, on the south side of the plant. Samplers: Bill Schnitzerling and Mike Bauman.

Photographer: Alan J. Cherepon





SPAULDING FIBRE COMPANY, TONAWANDA, NEW YORK



1P-9

April 28, 1987

Groundwater sample NYR9-GW2 (well B) near the south side of the plant building. samplers: Bill Schnitzerling and Mike Bauman

Photographer: Alan J. Cherepon



1P-10

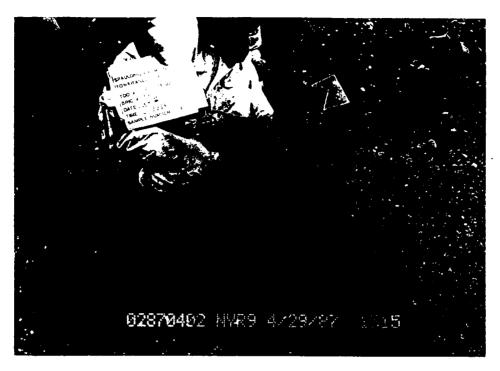
April 29, 1987

Soil sample NYR9-S4, auger from 0-2 feet, alongside the building south of the hazardous waste storage building. Samplers: Randy Rice and Bill Schnitzerling.

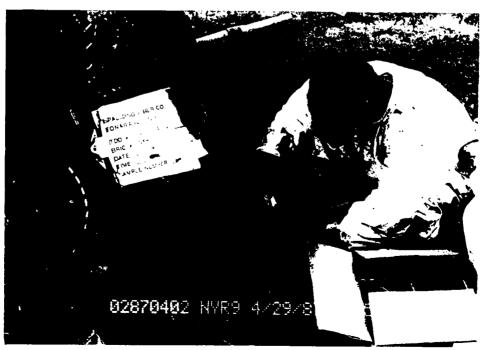
Photographer: Alan J. Cherepon



SPAULDING FIBRE COMPANY, TONAWANDA, NEW YORK



1P-11 April 29, 1987
Soil sample NYR9-S5, auger sample from 0-2 feet, filled-in lagoon north of the asbestos landfill on the west side of the plant.. Sampler: Randy Rice Photographer: Alan J. Cherepon



April 29, 1987

Soil sample NYR9-S6, auger from 0-2 feet, U-shaped lagoon on the west side of the plant. Sampler Bill Schnitzerling Photographer: Alan J. Cherepon

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SPAULDING FIBRE COMPANY, TONAWANDA, NEW YORK



April 29, 1987

Soil sample NYR9-S7, auger sample from 0-2 feet, low area next to drain covers north of the empty drum storage area, on the north side of the plant. Samplers: Randy Rice and Bill Schnitzerling

Photographer: Alan J. Cherepon

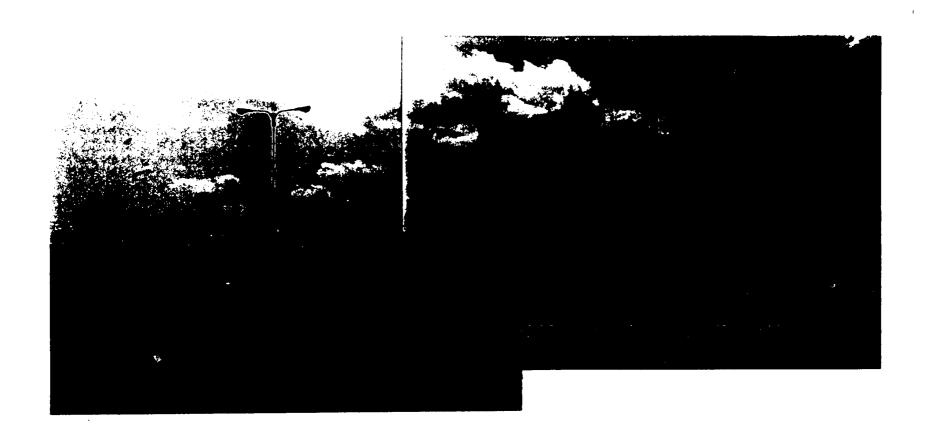


April 29, 1987

Soil sample NYR9-S8, auger sample from 0-2 feet, near methanol and alcohol storage tanks on the north side of the plant. Sampler: Bill Schnitzerling. Photo direction - northeast. Photographer: Alan J. Cherepon

02-8704-02-SR Rev. No. 0

SPAULDING FIBRE COMPANY, TONAWANDA, NEW YORK



1P**-15**

April 29, 1987

1525

Panoramic view of the plant as seen from near the train tracks, east of the parking lot, east of the plant on Wheeler Street. Photo direction - west.

Photographer: Alan J. Cherepon.

SECTION 4 BIBLIOGRAPHY OF INFORMATION SOURCES

BIBLIOGRAPHY OF INFORMATION SOURCES

	SOURCE	LOCATION
1.	Phase I - Preliminary Investigation of the Spaulding Fibre Company, Inc. Recra Research, Inc., November, 1983.	NUS Corp. Edison, N.J.
2.	Report on Spaulding Fibre Company, Inc. Interagency Task Force on Hazardous Wastes, 1979.	NUS Corp. Edison, N.J.
3.	Field Notebook No. 0060, Spaulding Fibre Company, TDD No. 02-8704-02, Site Inspection, NUS Corp. Region 2 FIT, Edison, New Jersey, April 28 and 29, 1987.	NUS Corp. Edison, N.J.
4.	Project Note from Alan Cherepon, NUS Corp., to Project File - Spaulding Fibre Co., TDD No. 02-8704-02, March 8, 1988.	NUS Corp. Edison, N.J.
5.	Industrial waste sites at Spaulding Fibre Company, Inc. Spaulding Fibre Company, Inc., December 13, 1983.	NUS Corp. Edison, N.J.
6.	LaSala, A.M. Jr., Groundwater Resources of the Erie- Niagara Basin, New York, New York State Water Resources Commission Basin Planning Report ENB-3, 1968.	NUS Corp. Edison, N.J.
7.	Uncontrolled hazardous waste site ranking system. A user's manual, 40 CFR, Part 300, Appendix A, 1986.	NUS Corp. Edison, N.J.
8.	Unsigned letters from Robert Mitrey, NYSDEC, to Jack Kehoe, Spaulding Fibre Company, August 30, 1987 and September 11, 1978.	NUS Carp. Edison, N.J
9.	New York State Atlas of Community Water System Sources, Erie-Niagara Counties, New York State Department of Health, 1982.	NUS/Corp. Edispn, N.J.
10.	Telecon Note: Conversation between J. Whittney, Erie County Soil Conservation Service, and Alan J. Cherepon, NUS Corporation, May 21, 1987.	NUS Corp. Edison, N.J.
11.	Three-mile vicinity map including of U.S. Department of the Interior, Geological Survey Topographic Maps, 7.5 minute series, quadrangles "Tonawanda East, New York", 1980; "Tonawanda West, New York", 1980; "Buffalo Northwest, New York", 1965; and "Buffalo Northeast, New York", 1965.	NUS Corp. Edison, N.J.
12	New York State Department of Environmental Conversation, Division of Fish and Wildlife, Bureau of Wildlife, Significant Habitat Unit, Significant Habitat Overlay Map, Buffalo, December 31, 1985.	NUS Corp. Edison, N.J.

BIBLIOGRAPHY OF INFORMATION SOURCES

	SOURCE	LOCATION
13	Endangered and threatened wildlife and plants, 50 CFR 17.11 and 17.12. January 1, 1986.	NUS Corp. Edison, N.J.
14.	Telecon Note: Conversation between the North Tonawanda Water Department and Alan J. Cherepon, NUS Corp., May 11, 1987.	NUS Corp. Edison, N.J.
15.	Telecon Note: Conversation between David Haley, Lock- port Water Department, and Alan J. Cherepon, NUS Corp., May 11, 1987.	NUS Corp. Edison, N.J.
16.	U.S. Department of Agriculture, Soil Conversation Service Important Farmland and Prime Farmland maps of New York, 1977, 1979.	NUS Corp. Edison, N.J.
17.	U.S. Department of the Interior, National Register, Computer printout of historic places and National Natural Landmarks for New York State, 1987.	NUS Corp. Edison, N.J.
18.	Sax, N.I., Dangerous properties of industrial materials. 6 Ed. New York, Van Nostrand Reinhold Co., 1984.	NUS Corp. Edison, N.J.
19.	General Sciences Corp., Graphical Exposure Modeling System (GEMS). Landover, Maryland, 1986.	NUS Corp. Edison, N.J.
20.	Water Quality Management Program. Report 13: Groundwater Problems/Analysis. Erie and Niagra Counties Regional Planning Board, October, 1978.	NUS Corp. Edison, N.J.
21.	Buehler, E.J. and I. H. Tesmer. Geologic Map of Erie County, New York Bedrock Geology, 1963.	NUS Corp. Edison, N.J.
22.	Letter and background files from Gregory Stubbs, Spaulding Fibre Company, to Alan J. Cherepon, NUS Corp., May 28, 1987.	NUS Corp. Edison, N.J.
23.	U.S. EPA Contract Laboratory Program, Cambridge Analytical Associates, Case No. 7204, Laboratory Analyses from NUS Region 2 FIT Site Inspection conducted on April 28 and 29, 1987.	NUS Corp. Edison, N.J.
24.	U.S. EPA Contract Laboratory Program, Mack Laboratories, Case No. 7204, Laboratory Analyses from NUS Region 2 FIT Site Inspection conducted on April 28 and 29, 1987.	NUS Corp. Edison, N.J.

SECTION 5 PRESS RELEASE SUMMARY

SUMMARY STATEMENT SPAULDING FIBRE COMPANY TONAWANDA, ERIE COUNTY, NEW YORK

The Spaulding Fibre Company is a privately owned, active, 50-acre facility located in Tonawanda, Erie County, New York. The plant has been in operation since 1911, in a commercial/industrial and residential area. This plant's main products are circuit boards and other insulated materials for the electronics industry.

The manufacturing process produces a mixture of phenolic resin and solvent liquid waste, wastewater treatment filter cake and sludge, incinerator ash, and waste oil. There is a drum landfill containing 750 drums of liquid waste, and a solid waste landfill. Several lagoons were reportedly excavated and filled in with clean fill. Incinerator ash and possibly other wastes were spread around the company property. Zinc and possible cadmium waste was entombed inside the plant.

New York State Department of Environmental Conservation (NYSDEC) inspection files document numerous waste disposal problems, including leaking drums, unknown waste spread around the site, excessive amounts of phenolic and other wastes released into storm sewers, and improper burial of waste. During the period 1985 to 1987, the United States Environmental Protection Agency (U.S.EPA) and NYSDEC cited several violations of Resource Conservation and Recovery Act, Toxic Substances Control Act, and New York State Solid Waste and Hazardous Waste regulations.

Due to high concentrations of hydrogen sulfide, groundwater use in the area is limited to three industrial wells near the Niagara River. The greatest potential for waste migration is through an on-site storm sewer which empties into the Niagara River. The outfall from the storm sewer is upstream from three surface water intakes in the Niagara River.

SECTION 6 BACKGROUND INFORMATION

REFERENCE NO. 1

New York State Department of Environmental Conservation 50 Wolf Road Albany, New York 12232

Attention: Mr. Norman H. Nosenchuck, P.E.

Director - Division of Solid Waste

RE: PHASE I - PRELIMINARY INVESTIGATION OF THE SPAULDING FIBRE COMPANY INC.

Dear Mr. Nosenchuck:

Attached, please find our Phase I - Preliminary Investigation of the above referenced site. These activities have been carried out under the New York State "Superfund" legislation.

Pertinent information regarding this site is summarized below.

Spaulding Fibre Company (Site #915050-d) is located at 310 Wheeler Street, Tonawanda, Erie County, New York. The general area can be characterized as urban/industrial with private residents occupying property adjacent to the plant on three sides. Accessibility to the plant property is limited by chain link fence and a 24 hour guard.

Primarily the company manufactures products for the electrical and electronics industry such as circuit board material. The processes used a the plant generate solid and liquid waste containing toxics such as phenol, formaldehyde, toluol and cresol. Prior to 1977 and after 1978 these materials were disposed of off site at various locations. Between 1977 and 1978 the company operated two (2) landfills on the plant property one (1) for bagged solid waste and one (1) for drummed liquid waste. Sampling of monitoring wells in place near the liquid landfill has verified contamination with phenol above the NYSDEC groundwater standard.

The entire area is serviced by municipal water drawn from the Niagara River. Groundwater from the bedrock shale aquifer is used for industrial purposes, however, high hydrogen sulfide content prohibits domestic use. The unconsolidated material overlying bedrock is moderately permeable consisting of till and silty clay to approximately seventy (70) foot depth.

In compiling the hazard ranking score, the Spalding Fibre Company was found to have a score for S_m equal to 21.0. However, because some route rating factors, due to data inadequancies, involve a certain degree of subjectivity a range for the S_m score was developed and found to be 16.0 to 25.0.

Remedial action suggested as appropriate to this site to be carried out in Phase II - Field Investigations is summarized in Section 7.0 of the attached report. The total cost of the proposed work is \$30,660.28.

Should you have any questions or require additional information, please feel free to contact me directly.

Sincerely,

RECRA RESEARCH, INC.

Richard S. Cronch

SPAULDING FIBRE COMPANY, INC.

NEW YORK STATE SUPERFUND PHASE I SUMMARY REPORT

FINAL

November 28, 1983

Prepared By:

Recra Research, Inc. 4248 Ridge Lea Road Amherst, New York 14226

For:

New York State Department of Environmental Conservation 50 Wolf Road
Albany, New York 12233-0001

SPAULDING FIBRE COMPANY, : INC. NEW YORK STATE SUPERFUND PHASE I SUMMARY REPORT

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APPENDIX A - Data Sources and References

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1.0 EXECUTIVE SUMMARY

Spaulding Fibre Company, Inc. is located at 310 Wheeler Street, Tonawanda, Erie County, New York. The general area can be characterized as urban/industrial with private residents occupying property adjacent to the plant on three sides. Accessibility to the plant property is limited by chain link fence and a 24 hour guard.

Primarily the company manufactures products for the electrical and electronics industry such as circuit board material. The processes used at the plant generate solid and liquid waste containing toxics such as phenol, formaldehyde, toluol and cresol. Prior to 1977 and after 1978 these materials were disposed of off site at various locations. Between 1977 and 1978 the company operated two (2) landfills on the plant property one (1) for bagged solid waste and one (1) for drummed liquid waste. Sampling of monitoring wells in place near the liquid landfill has verified contamination with phenol above the NYSDEC groundwater standard.

The entire area is serviced by municipal water drawn from the Niagara River. Groundwater from the bedrock shale aquifer is used for industrial purposes, however, high hydrogen sulfide content prohibits domestic use. The unconsolidated material overlying bedrock is moderately permeable consisting of till and silty clay to approximately seventy (70) foot depth.

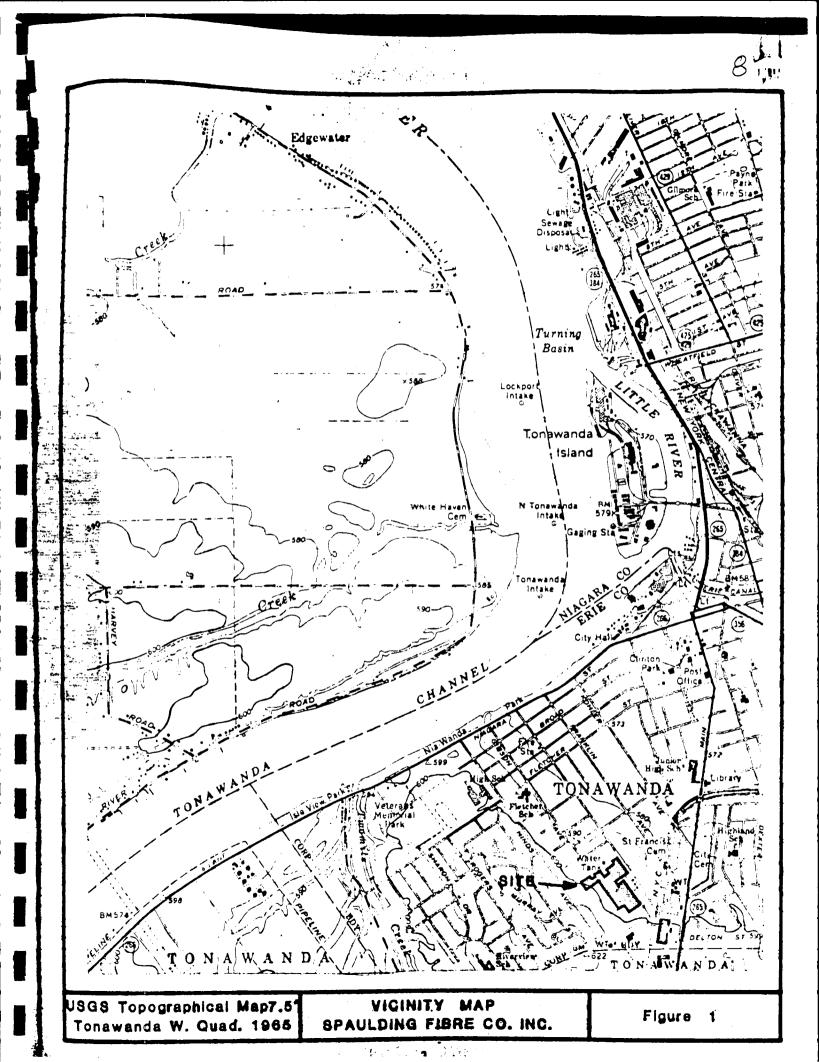
NY 915050-D (,..., 12000 414410)

2.0 SITE DESCRIPTION

Spaulding Fibre Company, Inc. occupies approximately fifty (50) acres of land in an urban/industrial area on the southern boundary of the City of Tonawanda (Figure 1). The plant property is bounded on three (3) sides by private residents. Accessibility to the site is limited by chain link fence and a 24-hour guard.

Topography of the area is basically flat with a shallow east-west running ditch and a mound created by landfilling being the only surface features present.

Of the fifty (50) acre total, approximately 1.5 acres have been used for two landfills. These areas are located toward the southern corner of the plant property (fig. 2). The site is grass covered in all unused areas except above the landfill containing the bagged solid waste. This area is reported to have been covered recently with an additional six (6) inch clay cap (ref. 29).



10

4.0 SITE HISTORY

Spaulding Fibre Company, Inc. is a division of Monogram Industries of California. The company began operation in Tonawanda, New York in 1911. Basic manufacturing processes employed at this plant include paper making, condensation, polymerization, resin carrier saturating, high pressure laminating, vulcanizing filament (1960 to 1977), and fabrication (1939 to 1973). The products manufactured by this company are largely for the electrical industry. These products include vulcanized fibre, thermosetting laminates, paper filawound glass tubing (1960-1977), and fabrication of fibre and laminates (1939-1973). The waste generated from these processes and products are scrap vulcanized fibre, vulcanized fibre sheet, thermosetting plastic, zinc sulfate and diatomaceous earth, zinc hydroxide filter cake, waste oil, asbestos, glass dust, waste varnishes, fabrication grindings and waters of reaction containing phenol, formaldehyde, solvents, and cresylic (Ref. 16).

All combustible waste was incinerated at the plant up until 1969. During this time the grinding waste, which consisted of 50% phenolic resin and 50% asbestos or glass dust, had been lagooned. These lagoons have since been excavated and the excavated material has been disposed of. The names of the haulers and the location of disposal are unknown.

From 1969 to 1974, wastes were hauled by Wheatfield Warehouses Incorporated of North Tonawanda. The waste hauled by this firm included

scrap vulcanized fibre, vulcanized fibre sheet, and thermosetting plastic and trimmings. These materials were disposed of at Seaway Industrial Park and an unspecified area of what is now known as the Lasalle Expressway in Niagara Falls, New York.

Since 1972 Niagara Sanitation has hauled the solid wastes and Booth Oil Company, Incorporated hauls the waste oils. Waters of reaction are incinerated at the Spaulding Fibre plant.

During the period 1977 to 1978 Spaulding Fibre operated two (2) landfill areas on the Company property. These landfills are at present inactive, however, the materials disposed of are still in place on the site. One landfill contains approximately 750 drums of liquid waste. The other landfill contains approximately 20 tons of solid waste. The drummed liquid waste at the site contains phenol, formaldehyde, dibutyl phthalate, aniline oil, cresol, toluol, methanol, ethyl alchol, buty octal phthalate, and toluene. The solid waste, which is generated by a glass "Spauldite" grinding operation at the plant, consists of phenol, asbestos, glass and zinc chloride. This material had been double bagged in polyethylene and buried in clay pits to a depth of fifteen (15) feet (Ref. 3).

5.0 SITE DATA

5.1 Site Area Surface Features

- 5.1.1 Topography and Drainage - The topography in the area of Spaulding Fibre can generally be characterized as flat. Surface features are typical of a glacial lake plain environment. Topography in the immediate area is mainly the result of urban development. Slope of the area has been determined, from the U.S.G.S. Tonawanda West gradrangle, to be approximately .5% (10 ft/2000 ft) to the north (Ref. 15). The nearest downslope water surface is the Niagara River northwest of the site which is a "Class A" (special international boundary) water resource (Ref. 24). Runoff may, however, enter Two Mile Creek west of the site before reaching the Niagara River. Storm sewers for Tonawanda would most likely prevent surface runoff of any distance.
- Environmental Setting The Spaulding Fibre plant is located in a densely populated urban area. There are no protected wetlands, critical habitats of endangered species or wildlife refuges in the vicinity of the site. The Niagara River, Two Mile

Creek and Tonawanda Creek are the only nearby surface waters and are approximately .5 miles from the site (Ref. 15).

5.2 Site Hydrogeology

- is the Camillus Shale of the Salina Group and is encountered at approximately 40 feet below the ground surface. This unit consists mainly of gray shale, however, considerable amounts of gray limestone and dolomite are found interbedded in the unit. Gypsum and anhydrite are present within the beds of shale and many occurences are found to be up to five (5) feet thick. Overall thickness of the Camillus shale is approximately 400 feet. Regional dip of the bedrock is to the south at approximately .5° (Ref. 23).
- Soils The unconsolidated material overlying bedrock in the area is mainly clayey lake sediments and dense glacial till. Boring logs taken at the Spaulding site detail the soil profile to twenty (20) feet as; fill to four (4) feet over .5 foot of silty clay lake sediments resting on very dense silty clay loam glacial till (Ref. 19). Calspan Corporation of Cheektowaga, New York

determined the permeability of these materials ranged from 2.0 x 10^{-5} to 2.3 x 10^{-7} cm/sec (Ref. 26). The surficial soil has been characterized as urban by the Soil Conservation Service.

5.2.3 Groundwater - Groundwater wells are not frequently used in the area around Spaulding Fibre and those that are in use are for industrial purposes. Well depths range from 101 feet to 375 feet and draw water from the Camillus shale bedrock aquifer. Yields of wells in this unit are extremely high due to the large storage capacity created by the dissolving of interbedded gypsum. However, the quality of water drawn from this aquifer is poor due to the high hydrogen sulfide content (Ref. 23). The high groundwater table is reported to be perched in the uppermost fill layer above clay at a depth of approximately four (4) feet. Groundwater flow is in a northerly direction toward the Niagara River and the Erie Canal (Ref. 19).

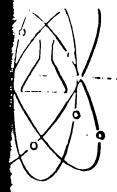
5.3 Previous Sampling and Analysis

5.3.1 <u>Groundwater Quality Data</u> - Groundwater monitoring wells are in place near the drummed liquid landfill with one (1) well upstream and one (1) well

15

downstream of groundwater flow. These are shallow wells at approximately thirty-four (34) foot depth and are screened in the glacial till. Analysis for phenol, antimony and COD has been done biannually since 1978 by Acts Testing Labs, Inc. In November, 1982, Spaulding was advised that monitoring for antimony should be discontinued and monitoring for THO should be initiated. Phenol has been found in excess of NYSDEC standards in both the upstream and the downstream wells (Ref. 1). In some cases the levels of phenol were found to be higher in the upstream than the downstream well, however, this may be due to groundwater mounding as a result of the release of overburden pressure by excavating for the landfill. There has been no known testing of groundwater quality for other than the above mentioned parameters.

- 5.3.2 <u>Surface Water Quality Data</u> There is no surface water quality data for the site.
- 5.3.3 <u>Air Quality Data</u> There is no air quality data for the site.



ACIS HISTING INDS, INC.

3900 Broadway • Buffalo, N.Y. 14227-1192 • (716) 684-3300

FECUNFOAL REPORT

October 19, 1982 .

Mr. Leonard Oseckey
SPAULDING FIBRE COMPANY

UBJECT:

Analysis of two wastewater samples received from Spaulding Fibre Company, 310 Wheeler Street, Buffalo, New York on October 12, 1982.

RESULTS:

10/11/82
Landfill Well | Landfill Well
By Fence (U) | By Building (P)

LT 0.03 | LT 0.03

LT 0.002 | LT 0.002

LT 1.0 | 14.0

Phenols

Autimony

CUD

LT = Less Than

The above results are reported as milligrams per liter (mg/l).

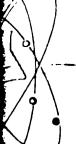
HIXPERIMENTAL:

All analyses were conducted according to procedures listed in "Standard Methods for the Examination of Water and Masfewater", 15th Edition, 1980.

CTS TESTING LARS, INC.

ACTS TESTING LABS, INC.

homas Knickerbocker hvironmental Laboratory fordinator Daniel P. Murtha, Ph.D. Laboratory Director



ACISTESTING LABS, INC.

3900 Broadway . Buffalo, N. Y. 14227 . (716) 684-3300

TECHNICAL REPORT

April 8, 1981

Mr. Leonard Oseekey SPAULDING FIBRE COMPANY

OBJECT:

Analysis of two wastewater samples received from Spaulding Fibre Company, 310 Wheeler Street, Buffalo, New York on March 26, 1981.

RESULT**S:**

•	Well A	Well 8	
Phenol	0.21	(0.26)	
Antimony	LT 0.005	LT 0.005	
Chemical Oxygen Demand	7.7	11.5	

The above results are reported as milligrams per liter (mg/l).

T = Less Than

XPERIMENTAL:

the analyses were performed according to the most recently bublished guidelines of Title 40, Code of Federal Regulations, Section 136.3, "Identification of Test Procedures", December 1, 1976.

ACTS TESTING LABS, INC.

Elmer K. Gerbracht Laboratory Director

n f

ACIS TESTING LABS, INC.

3900 Brondway . Buffalo, N. Y. 14227 . 17161 684-3300

TECHNICAL REPORT

November 7, 1980

Loonard Oseckey
AULDING FIBRE COMPANY

BJECT:

fore Company, 310 Wheeler Street, Buffalo, New York on Lober 23, 1980.

SULIS:

Vell A Vell B.

LT 0.03 LT 0.05

LT 0.002 LT 0.002

Antimony

Phenod

Chemical Oxygen
Demand

18.8 - = 55,

is above results are reported as milligrams per liter

= Less Than

XPERIMENTAL:

the analyses were performed according to the most recently bublished guidelines of Title 40, Code of Federal Regulations, Section 136.3 "Identification of Test Procedures", December 1, 1976.

TO TESTING LABS, INC.

Angero M. Fatta, Ph.D. Jochnical Director

will. to

3900 Broadway . Buffalo, N. Y. 14227 . (716) 684-3300

TECHNICAL REPORT

May 28, 4980.

Mr. Leonard Oseckey
Spaulding Fibre Company

OBJECT:

Analysis of two well water samples received from Spaulding Fibre Co., 310 Wheeler Street, Tonawanda, New York on May 15, 1980.

RESULTS:

COD, mg/l
Phenol, mg/l
Antimous mg/l
<= less than

U-P	Day
Well #1	Wc11 #2
7.9	19.9
0.23	(0.19)
<0.001	<0.001

EXPERIMENTAL:

The analyses were performed according to the most recently published guidelines of Title 40, Code of Federal Regulations, Section 136.3 "Identification of Test Procedures", December 1, 1976.

A.M. Fatta, Ph.D. Technical Director

AMF/sih



ACIS IESTING LABS, INC.

3700 Broadway . Buffalo, N. Y. 14227 . (716) 684-3300

TECHNICAL REPORT 9-699

January 3, 1980

Mr. Leonard Oseckey
Spaulding Fibre Company

OBJECT:

Analysis of two well samples received from Spaulding Fibre Company, 310 Wheeler Street, Tonawanda, New York on 12/20/79 at 8:00 AM.

RESULTS:

COD, mg/1

Pheno1, mg/1

Antimony, mg/1

Well #B

32.2

0.07

0.08

<0.005

< = less than

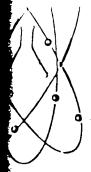
EXPERIMENTAL;

The analyses were performed according to the most recently published guidelines of Title 40, Code of Federal Regulations, Section 136.3 "Identification of Test Procedures", December 1, 1976.

Richard C. Gossner Laboratory Manager

Richard Sesarer

RCG/sih



NCIS ITSTING LABS, INC.

455 Cayuga Road • Buffalo, NY 14225 • 716-634 8221

TECHNICAL REPORT 9-542

October 3, 1979

Mr. L. Oscekey
Spaulding Fibre Company

ORJECT:

Analysis of two well samples received from Spaulding Fibre Company, 310 Wheeler Street, Tonawanda, New York on 9/20/79 at 8:00 A.M.

RESULTS:

COD, mg/1

Phenol, mg/1

Antimony, mg/1

Well #1 Kcll #2

24.4 50.1

0.15 0.08

<0.005

< = less than

EXPERIMENTAL:

The analyses were performed according to the most recently published guidelines of Title 40, Code of Federal Regulations, Section 136.3 "Identification of Test Procedures", December 1, 1976:

Richard C. Gessner, Laboratory Manager

Pictural Lisson

RCG/dk

NUS CORPORATION SUPERFUND DIVISION

PROJECT NOTES

TO: READER	DATE: 5/31/88
FROM: STANLEY SHULFER	COPIES:
SUBJECT: SPAULDING FIBRE	COMPANY
REFERENCE:	
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Mr. L. Oscokov Spaulding Fibre Company

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ACIS ILSING LABS, INC.

TECHNICAL REPORT 9-302

L. Oscekey
lding Fibre Company
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ACIS LESUNG LABSING

r. L. Oseckey Spaulding Fibre Company

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TECHNICAL REPORT 9-005

Mr. L. Oseekey. A Spaulding Fibre Company

ÖBJECT

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Company - Minerity Office Service (and the control of the contro

Francisco Majronos

The Alignment

XERIMEN

TECHNICAL REPORT 785-528

Mr. L Oscekcy Star Spaulding Fibre Company

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5.3.4 Other Analytical Data - There has been no other reported testing other than that previously mentioned.

APPENDIX A

REFERENCES

- NYSDEC Memorandum, Peter Buechi, 2/11/83 in reference to Acts
 Testing Labs Technical Reports.
- 2. NYSDEC Industrial Waste Survey, DEC Interviewer John E. Ianotti 11/10/76.
- 3. Letter from: NYSDEC Region 9 Mr. Robert Hitray to: Spaulding Fibre Mr. Jack Kehoe, 9/11/78/
- 4. Spaulding Fibre Trial Notes and Workpapers available at DEC Region 9 Solid Waste Dept.
- 5. NYSDEC Information Dossier 79.2, April 11, 1979
- 6. RYSDEC Industrial Chemical Survey Part 1, January 26, 1977.
- 7. NYSDEC Hazardous Waste Disposal Sites Reports, Ronald Tramontano, April 15, 1980.
- 8. NYSDEC Facility Inspection Form, D. Tamol, 8/22/78.

- 9. Letter from: Spaulding Fibre Mr. Jack Kehoe to: NYSDEC Mr. Robert J. Mitrey, P.E., Sept. 12, 1978.
- 10. Letter From: Spaulding Fibre, Mr. Jack Kehoe To: Environmental Conservation Dept. Bureau of Water Resources, Mr. Anthony T. Voell P.E. Chief, August 31, 1978.
- 11. Meno, Spaulding Fibre Disposal Area Inspection, Donald Tamol, Anthony T. Voell, August 25, 1978.
- 12. Environmental Assessment Part III, Spaulding Fibre Co. Project No. 15534. Handwritten notes.
- 13. Letter From: NYSDEC Region 9 Mr. Robert J. Mitrey, to: Spaulding Fibre Mr. Jack Kehoe, August 30, 1978.
- 14. ECDEP Report, Spaulding Fibre #915050 (a, b, and c), October 1981.
- 15. U.S. Geological Survey, Topographic Map, Tonawanda North Quadrangle, 1965.
- 16. Waste Disposal Sites, Interagency Task Force on Hazardous Wastes,
 March 1979.

- 17. Letters From: Spaulding Fibre, Mr. L. F. Oseeky, to: Mr. John-McMahan, P.E. In reference to Acts Testing Labs Technical Reports.
 October 21, 1982, January 21, 1982, April 9, 1981, November 12, 1980.
- 18. NYS Water Resources Commission, Erie-Niagara Basin Groundwater Resources, ENB-3. 1973
- 19. Earth Dimensions Inc., Soils Report and Test Borings and Logs, September 27, 1978.
- 20. Interagency Task Force on Hazardous Wastes, Information Sheet. Oct. 30, 1978.
- 21. Computer Printout Data Sheet, Spaulding Fibre Co., Inc. 1978
- 22. Notes taken from DEC Region 9 Spaulding Fibre File, 4/15/83.
- 23. Geology of Erie County New York, Edward J. Buehler and Irving H. Tesmer, Buffalo Society of Natural Sciences Bulletin, Vol 21 No. 3 Buffalo 1963.
- 24. Codes, Rules and Regulations of the State of New York, Vol 6ε , Section 837.4, pg. 1605. 1966
- 25. HRS Mitre, July 16, 1982.

- 26. Letter from Richard P. Leonard, Environmental Science Department, Calspan Corp. 11/9/78.
- 27. Notes taken from application for treatment of an industrial hazardous waste stream September 28, 1983. Document available at DEC Region 9
- 28. Site visit and personal interview with Ken Kasprzak, Spaulding Fibre site representative, June 6, 1983.

Estimated Size: 50 acres/1.5 acres used for landfilling.

Hazardous Waste Disposed?: Yes

Type and Quantity of Hazardous Waste: Approximately 750 drums of liquid industrial wastes, mostly resins and some solvents. 20 tons of solid industrial waste containing phenolic resins and asbestos.

Present Owner: Monogram Industries, Inc., Santa Monica California.

Time Period Site Was Used: 1977 to 1978

Site Status: Inactive

Types of Samples: Groundwater. Found to have phenol above standards.

Remedial Action: None

Status of Legal Action: None

Permits Issued: Unknown

Assessment of Environmental Problems: Site is surrounded on three sides by private residents.

Assessment of Health Problems: None known

Person Completing This form: Andre J. LaPres, Recra Research, Inc.

<u>Date:</u> **June** 6, 1983

APPENDIX B

HAZARDOUS WASTE SITE REPORT REVISED

Code: N

Site Code: 915050-d

Name of Site: Spaulding Fibre Co., Inc.

Region: 9

County: Erie

Town/City: Tonawanda

Street Address: 310 Wheeler St., Tonawanda, N.Y. 14150

Status of Site:

- 2 Inactive landfills. Located in an urban/industrial area. Used for disposal of liquid and solid industrial waste containing phenolic resins. Site drains through municipal storm sewers to the Niagara River. Approximately 70 feet of moderately permeable soil overlying bedrock.
- o Urban/industrial high residential area. Flat topography.
- o Nearest dwelling within 500 feet of landfills.
- o Nearest water body: Niagara River. Approximately 1 mile north
- O Nearest water supply: Municipal water supply drawn from the Niagara River.
- o Approximately 4 feet to seasonal high water table.
- o **Soil** type: Urban fill

Type of Site: Landfill

REFERENCE NO. 2

DCT 3 0 1971

:MTERAGENCY TASK FORCE ON HAZARDOUS WASTES M.P.O. Box 56! Niagara Falis, New York 14302 (716) 285-3057

<u>Gen</u>	eral Information					
1.	Company Name Spau	<u>lding Fi</u>	bre Com	bany. Inc	* 	
	Mailing Address 310	Wheeler	Street,	Tonawan	da, New York	14150
	Street			City	State	Zip
	Present Plant Location A	Same a:	s Above			
	Street			City	State	Zip
2.	If Subsidiary or Divis	ion, Name	of Parent	Company _	Monogram in	dustries
3.	Person Responsible for Plant Operations	Present	Richard	d Hunter		
	W	D Man:	eger of l	Operation	s 716-692	- 2000
	v Title	.r . Flatte	ager or	<u> </u>		phone
4.	Person Answering this Questionnaire		Leonar	d Oseekey		
	Name					
	<u>N</u> Titl		Plant En	gineering		-2000 phone
	,,,,,	=			1616;	onone
Con	pany History					
1.	Date Company Founded _	1873	· · · · · · · · · · · · · · · · · · · 			
	Date and State of Incorporation	1/8/19	920 St	ate of Ne	w Hampshire	
	Date Company Began Operations in Erie or Niagara County	1911				
2.	Other Company Names since 1930 (specify time periods)	<u>None</u>				
-	Other Plant Locations	None				
3.	in Erie or Niagara	None				. —
	County since 1930 (specify locations and time periods)					
4.	Names of Companies	None				
. •	Acquired which have Operated Plants in		,			
	Erie or Niagara County					
	.since 1930 (specify name of company, date			 -		
	of acquisition, locati of plant, and periods	on				
	of operation).					

11.

- Identify all plant managers from 1930 to present, Indicate years of service Company Personnei in that position, last known address and telephone number.
- identify all plant purchasing agents from 1930 to present. Indicate years of service in that position, last known address and telephone number.
- Identify all plant personnel with supervisory responsibility for treatment or disposal of industrial wastes from 1930 to present. Endicate years of service, last known address and telephone number.

ndustrial Waste Production, Treatment and Diapose	
ndustrial wases (1930-1975)	Dates
Processes Used at Plant (1930-1975)	a. 1930 to present
nanufacture	b. 1930 to present
b. Vulcanized Fibre (sheet and tube)	
b. Vulcanized Fibre (shoes	c. 1930 to present
The mosetting Laminates (Sheet on	d. 1960 - 1977
d. Filawound Glass Winding	
d. Filawound Glass Williams	e. 1930 - 1973
e. Fabrication of above materials	
2. Products (1930-1975)	a. 1930 to present
a. Vulcanized Fibre (sheet and tube)	
a. Vulcanized is seed and tube)	b. 1930 to present
 b. Thermosetting Laminates (sheet and tube) 	c. 1960 to 1977
c. Filawound Glass Tubing	
c. Filawound G.	d. 1930 to present
d. Paper	e. 1930 to 1973
e. Fabrication of fibre and laminates	
e. Fabi (602.5)	
3. On Site Waste Treatment (1930-1975)	a. 1930 to 1969
· i and fibre (Incilie out	b. 1930 to 1969
b. Thermosetting Plastics (incineration)	
b. Thermosetting Plastics	c. 1930 to 1972
Fabrication Grindings - lagooned	d,
c	
d	e
e Your C	ompany
4. List all Waste Haulers since 1930 including Your C	
Name Niagara Sanitation Company, Inc.	New York
Name Niagara Sanitation Company, Address 1050 Military Road, P. O. Box 9, Ke Street	State
Address 1050 MITTEGT City	
51,000	
Telephone 693-5185	
Name Wheatfield Warehouse, Inc.	anda New York
how wheatfield Street, North Tonaw	State
Address 493 Wheattieth City	
692-8967	
Telephone	

me of SiteSee Attac	hed Sneets		
cation			
mer or Operator			
mer or uperator			
me Period Site was Used		Total	Type of Conta
escribe Waste Types Treated Disposed at this Site	Physical State	Quantity	<u>If Any</u>
Vulcanized Fibre Sheet	Rolls	Not Segregate Past records	ed None
	Grinding Dust	what was in-	None
Vulcanized Fibre	Trimmings	cinerated at plant until	None
Thermosetting Plastic	Dust	incinerator shut down wa	s None
Thermosetting Plastic	Dust	avc of 12 t	ons7 /wk
·		x 7 years =	
		21000 tons.	
		·	
	_	incineration was stopped	in
		early '69.	
 		earry co.	
Unctes Were X land d)s	sposed incine	ratedr	eclaimed
Wastes Were X land djs treated	sposed incine	rated r	
Wastes Were X land d]s treated Names of waste haulers inc site if a disposal site.	other (spec	rated	
Wastes Were X land dis treated Names of waste haulers inc site, if a disposal site. Wheatfield Warehous	other (spec	rated	
Wastes Were X land distribution treated Names of waste haulers incomite, if a disposal site. Wheatfield Warehous	other (spectage) other (spectage) other company ses, Inc.	rated relify)transporting successions for the first succession of the fir	h wastes to thi
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Wastes Were X land distributed treated Names of waste haulers income, if a disposal site. Wheatfield Warehouse Name 493 Wheatfield Street Time Periods such Hauler Towns	other (specially other (specially other) other (specia	rated rify)transporting successive field from the field from	h wastes to thi
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Wastes Were X land distributed in the street X land disposal Site. Wheatfield Warehous Name 493 Wheatfield Street Time Periods such Hauler To Niagara Sanitation Name 1050 Military Road Street Time Periods such Hauler List Names and Addresses	other (specially other (specially other (specially other (specially other company) of the company of the company of the companies of other Companies of the com	rated rify)transporting successive field from the field from	h wastes to thi
Wastes Were X land distributed treated Names of waste haulers income, if a disposal site. Wheatfield Warehouse Name 493 Wheatfield Street Time Periods such Hauler Towns	other (specially other (specially other (specially other (specially other company) of the company of the company of the companies of other Companies of the com	rated rify)transporting successive field from the field from	h wastes to thi

Sources of Information

Please indicate the sources of all information set forth in response

to Questions IV. 4 and IV. 5 above. (Specify names of individuals and

sources).

The information supplied came from Purchase Orders issued by Spaulding Fibre Company to the two vendors who hauled waste from plant.

Present Conditions

In our waste heat boilers we incinerate the following and recover the heat as steam:

- Waters of Reaction -- approximately 6500 gallons weekly of the water of reaction from resin making are incinerated. The waters of reaction contain phenol, solvents, formaldehyde, cresylic and water.
- Burnable Solid Waste Saw trimmings from laminated sheets and dust are pulverized and incinerated in our waste heat boilers - approximately 40,000 pounds/month.

On Site Burial

In February of 1978 a group of trenches 15'-0 deep were dug on the south end of the plant and approximately 750+ drums were buried and covered with 3 ft. of top fill. The burial was done in solid clay. We ceased burying drums in September 1978. Since that time test wells were installed upstream and downstream of this land fill site and monitoring has commenced on the underground water flow for phenol, antimony and COD.

During the fall of 1977 trenches were dug on the west side of the plant, and asbestos and glass dust encapsulated in polyethylene bags were buried and covered with land fill. This practice stopped in September 1978. Since that time we have retained the services of Krehbiel & Hall Consulting Engineers and filed for a permit to permit the continuation of onsite disposal by burying approximately 20 tons of dust.

Drum Disposal - Scrap barrels are disposed of by Hyman Barrel Company, 878 South Division Street, Buffalo, New York.

ingustrial Plastics Division

in Anager street Tohakanda Gewingt 14160
this 600 0000

Company Personnel 111.

Plant Managers

t Managers	
Name/Last Known Address/Phone	Years of Service
Richard Hunter 310 Wheeler Street Tonawanda, New York 14150 716-692-2000	7/16/76 to present
Eugene Krohn 29č Coolbrook Court East Amherst, New York 14051 716-688-5576	11/26/73 to 7/16/76
Richard Deininger	2/73 to 2/75
(Deceased)	
Robert Didion 73 Wellington Drive East Amherst, New York 14150 716-632-8794	10/8/70 to 12/73
Leslie Towle 235 Willow Ridge Drive Tonawanda, New York 14150 716-692-8915	11/1/68 to 11/1/70
John Ludemann 265 Cottonwood Drive Williamsville, New York 14221 716-633-6240	7/13/64 to 11/1/68
Walter Jackson 71 Burwell Avenue Lancaster, New York 716-RE-4390	1/60 to 10/63

683 - 4390

3 3 **America Screet** Fornawanda New York 14150 716-632 2000

Name/Last Known A	Address/Phone
-------------------	---------------

Years of Service

R. F. Oleksiak 65 Rollingwood Williamsville, New York 14221 4/13/53 - 2/25/64 (Plt.Mg 2/25/64 - 10/1/70 (Pres.)

C. C. Steck

1924-1942 (Gen.Mgr.) 1942-1960 (President)

(Deceased)

2. Purchasing Agents

Albert Hardleben

1921 - 1959

(Deceased)

Walter Greiser 140 Meadow Lane Kenmore, New York 14223 4/1/42 - 6/19/59 (In Purchasing Dept. last few years of his employment)

William Hutchins Durham, New Hampshire 6/59 - 1/69

William C. Ross 1275 Sweeney Street North Tonawanda, New York 716-693-3413

1958 - Asst. P.A. 7/65 - 1/75 P. A.

Plant Personnel With Supervisory Responsibility For Treatment Or Disposal of Industrial Wastes

Clifford Taylor

1941 - 1970

(Deceased)

Raymond Chase

2/11/29 - 2/26/60

(Deceased)



industrial Plastics Division

31 Wheeler Street Tonawarda New York 14150 116-692 2000

Identify all Treatment or Disposal Sites in Erie or Niagara County Used Since 1930

Name of Site:

Seaway Land Fill

Location: b.

River Road, Town of Tonawanda

c. Owner or Operator:

James Sandanato

d. Time Period Site was Used: 1965 - 1974

1969

Industrial Plastics Division
210 Wheeler Sireet Tohawanda Haw York 14150
716-692 0000

Name/Last Known Address/Phone	Years of Service
Roger Davies Akron, Ohio	1956 - 1969
Wilbur Merk 1360 Emery Road East Aurora, New York 716-652-5259	3/1/67 - 4/12/76
John Kehoe 59 Winkler Drive Grand Island, New York 14072 716-773-5874	1/5/77 - 9/22/78
Leonard Oseekey 4750 Helenwood Drive Williamsville, New York 716-634-8322	3/31/58 - present



industrial Plastics Division
31, wheeler Siree, Tonakanda Raw York (415)
716,630,8000

5. Identify all Treatment or Disposal Sites in Erie or Niagara County Used Since 1930

a. Name of Site:

Niagara Recycling

b. Location:

56 & Pine, Niagara Falls, N.Y.

c. Owner or Operator:

Newco Waste System, Inc.

d. Time Period Site Was Used: 1974 - present

Wheat War Niaga

Boot

INTERAGENCY TASK FORCE ON HAZARDOUS WASTES M.P.O. BOX 561 Niagara Falls, New York 14302 (716) 285-3057

October 31, 1978

Mr. Richard Hunter, Vice President Manager or Operations Spaulding Fibre Company, Inc. 310 Wheeler Street Tonawanda, New York 14150

Dear Mr. Hunter:

This is to acknowledge our receipt yesterday of your completed questionnaire. Thank you for your prompt response. Mr. John Iannotti of this Task Force will be calling you in the near future to review any questions he may have about your company's disposal activities.

Very truly yours,

Peter J. Milloch Peter J. Millock

Director

Interagency Task Force on Hazardous Wastes

PJM/pb

Hau	Wheat War	Viaga	Boot
	-> ~		

INTERAGENCY TASK FORCE ON HAZARDOUS WASTES

Checklist

Name of Company Spaulal	179 +1b	<u>re</u>
relephone Number 692 - 2000		,
		10/4
Introductory Letter Sent		Date
Questionnaire Sent		10/6
		10/11
Initial Telephone Call		10/23
Meeting Arranged	-	10/23
App ointment Confirmed in Writing		10/23
DEC Hazardous Waste Questionnaire	1	10/29
Read		10/24
DEC Industrial Chemical Survey Print-out Read		1-1-
		[0/3]
DEC File Reviewed		10/3/
DEC Personnel Consulted	-	10/24
County File Reviewed		10/24
County Personnel Consulted		10/25
Initial Meeting	<u> </u>	10/23
Completed Questionnaire Received	V,	10/30
Receipt of Questionnaire Acknowledged	· <u>/</u>	10/31
Questionnaire Reviewed		
Meeting on Questionnaire	1	
Interviews with Former Employees	2000-01-00-00-00-00-00-00-00-00-00-00-00-	
Interviews with Present Employees		
Interviews with Other Persons	_ 	
Other Reports Consulted		
Summary Report Written		

				Location of Site	Status
	Hauler	Dates Used	Wastes Removed	Seaway	Status
79	Wheatfield Warehowe, Inc. N. Tongwanda, N.Y.	1969-72	vulcanized fibre theet vulcanized fibre theet thermoreting plating trimmings & dust	La Salle expuy area	
	Niagara Squitatia	1972-78	studge & Fine sulphate filter	Niagara - Recycling	
	Booth Oil	-	waste oit	Booth O.7	
				1	1.

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Wood 15 Countrell in Acres y
To contact 1206 Add 100 15.0 23.5 Thock - 1,715 Thys. = 2,29 Thorphy Eddalater = 100 and day = 26,000 gallyes Cred 30,000/100 SICH 3561 Cuffelo France Poper 49 Tloky) sound Recommed - had be now Moral 31 That Selege (Supin & Pagier) Milliante 32 Tlok 108 Tiuk. 56 10 Thys 4.67 Thoughty. Out 35,900.00/140 1972 E/N Camp SW Study

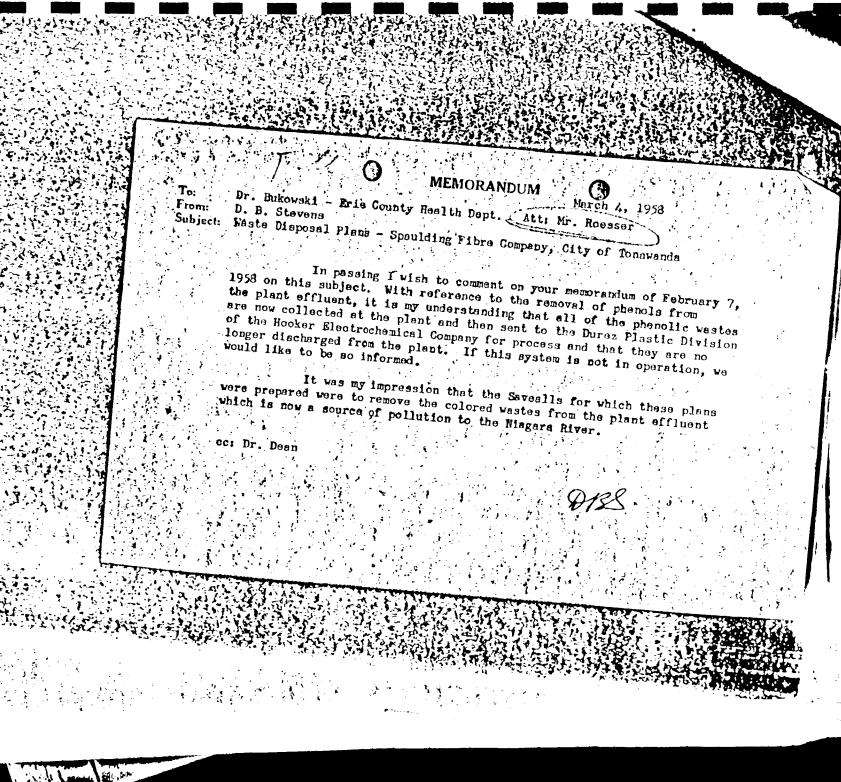
La Salle Arteval

Spanding - sciap

I aminates Isage Walton League Open into -1: pm Located at Lord Amberst Motel-Exitso NEWCO, SCA, I put in special category

Spaulding Fibre

32 Horth Missors Street Tonewands City, New York City of Tonawando Division of Engineering Morth Niagara Street Tonawanda, New York 14150 Partention: Er. Perry Hilson, Rat. Spaulding Fibra Dump Sice Two Mile Creek Road
City of Tonswanda, New York a. On January 19, 1967 Mr. Les C. Aronica, a representative of this office, made a rougino inspection of the above dump site. It was noted from the report that at the time of the inspection an unidentified person with a truck, but who stated ho was a scavenger, was looking. for salvageable miterials At the some time our hr. Aronica noted that six or seven loads of material consisting of paper, large flet piccon of plantie, plestic tubing an well as chavings and chips together with office waste paper. some milk cartons, dixie cups, orange pecis and fruit were noted on the ground, While the garbage was very minimal in the emount of datarial being democd. you will recall that permission to use this site was granted for hord material only. Therefore, no wish to call the above conditions to your attention, and would appreciate your following through to see that only the allowable enterial: is being dumped and that the material is being compacted and covered dailys Thank you for your attention in this matter, and if we can be of any pervice or estimate to you please do not hesitate to call on use " Very truly yours, James F. Stubbe. District Supervisor



SPAULDING FIBRE COMPANY, INC.

City of Tonawanda

Products: Hard vulcanized fibre sheets and tubes

Laminated phenolic sheets, tubes and rods

Employees: About 1150

Smitary Wastes: The sanitary wastes are combined with the process wastes and discharged to the City of Tonawanda storm drains leading to the Niagara River.

Industrial Wastes: The principal components of the industrial wastes which are objectionable are phenolic compounds, solids and highly colored materials.

Industrial Waste Treatment: The phenol bearing wastes are collected in storage tanks and discharged over an 18 to 21 hour period to reduce slug loads on the receiving waters.

Other Pertinent Data: The plant wastes were originally discharged to the city samtary sewers laid in Gibson and Wheeler Streets. Later, storm water drains were laid in these streets, and in 1954 the City of Tonawanda diverted the wastes originating at Spaulding Fibre from the samitary sewers into the Gibson Street storm water drain leading to the Niagara River.

Receiving Waters: Niagara River, Class "A-Special" (International Boundary Waters)

Effects of Discharge on Stream: Raw sewage, phenolic compounds, fleating solids, settleable solids and highly colored wastes are all in contravention of the standards ESTABLISHED FOR THESE WATERS.

Abatement Plan: (1) Arrangements satisfactory to the Water Pollution Control Board should be made to provide means for recovery or treatment of the phenolic wastes.

(2) Install necessary facilities for efficient recovery of settleable suspended. solids from mill wastes. (3) Develop a methodfor reducing color in the plant wastes. (4) Plans for all treatment units necessary to carry out items 1, 2 and 3 should be submitted to the Water Pollution Control Board for approval and then constructed in accordance with approved plans. (5) The sanitary sewage should be collected in a separate system and discharged to the municipal sanitary sewerage system. (6) The company should work out with the Water Pollution Control Board arrangements for effluent sampling, maintenance of operating records and periodic reporting to the Water Pollution Control Board.

poulding to know if contro to tot plant in 1950's
Response une no!

· CALLER CHIEF SOUND

Subsidies / Of Monogram inmusities inc

August 12, 1976

Mr. Gerald M. Hansler, P.L. Regional Administrator, Region II U.S. Environmental Protection Agency 26 Federal Plaza. New .York, New York 10007

> RE: NEDES Permit Number NY 0002364 Spaulding Fibre Company, Inc. Tonawanda, New York 14150

Dear Mr. Hansler:

This letter shall serve as a formal request by Spaulding Fibre Company, Inc. for modification of NPDES Permit Number NY 0002364 dated June 28, 1974, as modified February 14, 1975, for the Tonawanda, New York facility of Spaulding Fibre Company. Inc. This request for modification concerns only the soluble zinc parameter of the Permit. It is requested that the soluble zinc limit in PART I.A(1) page 2 of 770 (1700) kg/day (pounds/day) net daily average be extended to July 1, 1977. This is commensurate with the Federal Law for the implementation of best practical treatment. Approval of the above would also change the effective date in PART I A(2) page 3 and PART I B(1A) page 6 from December 1, 1976 to July 1, 1977. We further request that the schedule for zinc limit progress reports under B(1B) page 6 be changed from October 31, 1976 to January 1, 1977 and March 31, 1977.

The primary reason for this request is Spaulding Fibre Company, Inc.'s inability to make any progress on zinc control for the past 14 weeks and apparently in the foreseeable future due to a strike at the Tonawanda facility occurring on May 10, 1976. At the present time the Company and Union are at an impasse. All work involved in achieving the zinc limit has and will be suspended during this period.

The major items of progress completed to date toward meeting the zinc limit are:

· a. the elimination of the cutdown fibre operation with its batch fibre leaching operation.

Continued.....

			
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_August 12, 1976 Mr. Corold H. Hansler, P. C. Page 4 "

- The property of all contanuous constantions
 - equaling of the home muter a me, ayetem to to a seed counterent species with although of the numb under the onthe of statem.
 - d. repair and closent of the value in the filme tube leach areas.
 - e. Evaluation of a dema mast eliminator in one. evaporator.
 - f. vevaluation of a two shape separator on one evaporator in bundom with the miss linemator in (-).
 - u. The dusign of a precipitation classification cystem for treatment of wine beating waters.
 - n. the investigation and evaluation of filters for nee in washing out learn tanks, wine chloride storage tanks and that equipment to enable liquid recycle with solid always removal.

Should you have any questions or arm to discuss this request, we stand ready attangement to meet with you.

"No are looking forward to your favorable consideration." of the permit modification request.

Minney Fre Late

R. A. Prolofich Con aparo Vica provident of Tocamion Services

12/12/10 are

bcc: T. J. Bernard . O. M. Connors Friedman . 3. R. A. Huncor S. H. Kelly W. A. Kemmel he osockay

October 23, 1978

Mr. Oseekey Spaulding Fibre Company, Inc. 319 Wheeler Street Tonawanda, New York 14150 Tonawanda, New York 14150

Dear Mr. Ososkeys

This is to confirm our meeting on October 25, 1978 at 10:00 a.m. at your facility to discuss the Interagency Task Force questionnaire on Hazardous Wastes.

If any conflicts arise, please call me at 285-3057 and we will arrange another mutually convenient time. another mutually convenience.

Very truly yours,

John E. Tannotti Interagency Task Force on Hazardous Wastes

Permit No. 1

ARY AND RECONMENDATIONS

Violations and/or Problems

Recommended Action

Tiem las requestied (8-12.71) extension of interior give limite until July 1977, no suspense from EPA yet. Request appears sessionable due to atribe.

Comments

SPCC plan could not be located - Tim requested to hence plan and dutabate copies (on summing) to plant wice Ety, monteness are well as management. Chromate pleasantly used in an unidentified cooling water system. Commentations in discharges should be hieramined following connection to municipal since 2.

Inspect	or Signature: She Said	Beneve mie
Name:	Richard Sweeney	
Title:	SR. SANTARIAN	
Data	0 18-71	* ************************************

MGD have the consinue water sinser to regulace evaporation is que to be precipatetidas 1) continue searching process 3) tube - 10 lines and touches non-contact = chillholls, comprise, in conditing fabrication digit-moved out, sowing of sending and eding with incineration alean burning - no- such compactor - palleto, ways grager, then from files machine laminate - suring fund to manufaction = 7 15%, fuel Boiler Water Treatment or suitfyeolite - lendow I to line. Cpart C- durchings were then 0.5 Cr - water trustment regition. magel HP281 H 237 0301 SL 360

October 27, 1977 Mr. William J. Librizzi Page 2

- Do you have a Spill Prevention Control and Countermeasure Plan, as required by 40CFR, Part 112?
 - Yes. Plan, drawing and certification enclosed.
- 6. Q. On what date was your SPCC Plan fully implemented?
 A. Summer 1974.
 - Q. If your SPCC Plan is not yet fully implemented...... A. The Plan is fully implemented.
 - What is the name and telephone number of the operator A. Richard Hunter, V.P. & General Manager, Tel. 716-692-2000. 8. Q.

 - Are any substances other than oil stored at your facility?
 - Yes. They are:
 - 1 12000 Gallon Above Ground Tank 1 - 15000 Gallon Above Ground Tank
 - 1 15000 Gallon Above Ground Tank
 2 15000 Gallon Below Ground Tank
 1 15000 Gallon Below Ground Tank
 1 15000 Gallon Below Ground Tank
 Below Ground Tank
- Ethyl Alcohol Methanol Methanol Toluene & Methanol 50% Caustic

Phenol Distillate.

Very truly yours,

- cilu John A. Kehoe Project Engineer

mm .

. Enclosures

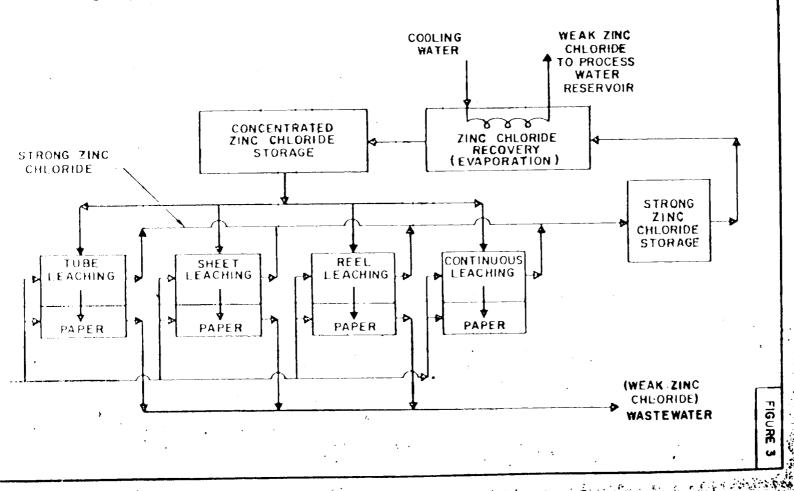
R. Speed, N.Y.S. D.E.C., Buffalo 1. A. Hoekstra, E.C. D.E.Q., Buffalo

SPAULDING FIBRE Co. TONAWANDA, N. Y.

INTAKE

WATER

SCHEMATIC OF PRINCIPLE FIBRE VULCANIZATION PROCESSES



SPAULDING FIBRE Co. TONAWANDA, N.Y. SCHEMATIC OF PRINCIPLE FIBRE VULCANIZATION PROCESSES WEAK ZINC COOLING CHLORIDE WATER TO PROCESS WATER RESERVOIR 8 8 8 CONCENTRATED ZINC CHLORIDE STORAGE ZINC CHLORIDE RECOVERY (EVAPORATION) STRONG ZINC CHLORIDE STRONG ZINC CHLORIDE STORAGE CONTINUOUS LEACHING REEL SHEET LEACHING TUBE LEACHING LEACHING PAPER PAPER PAPER PAPER

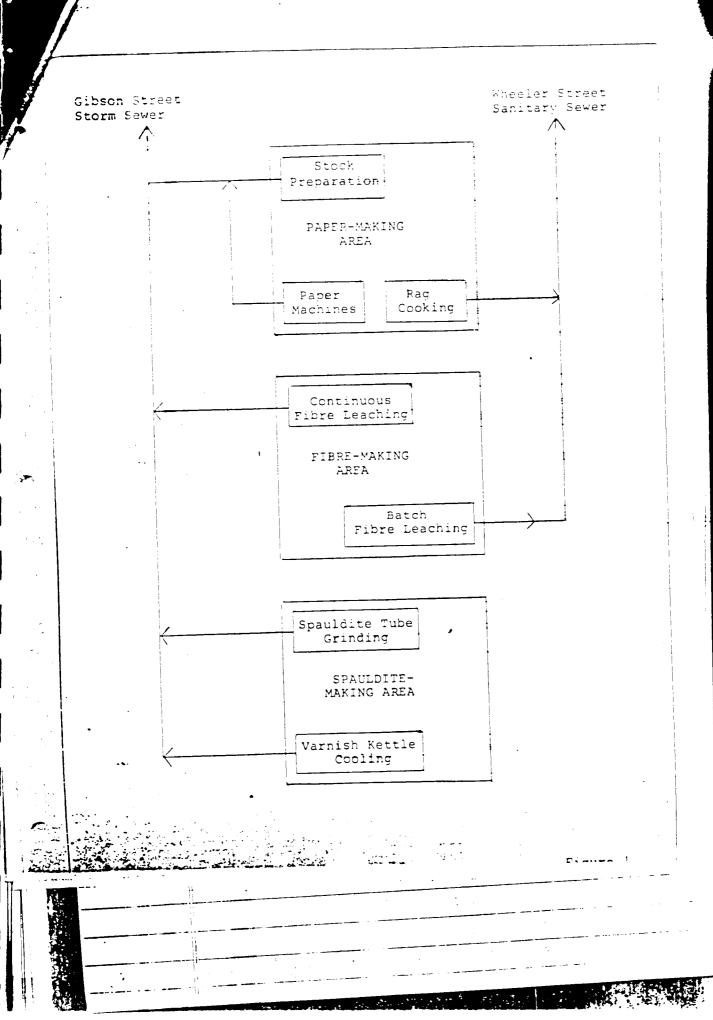
MITAKE

WATER

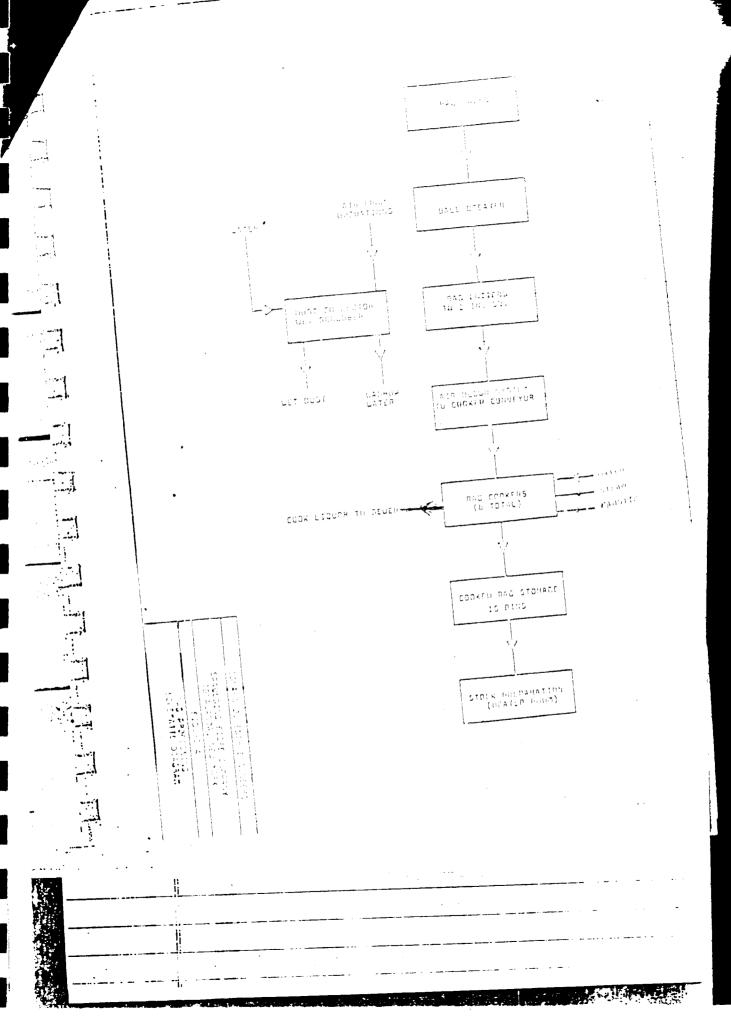
(WEAK ZINC

CHLORIDE)

WASTEWATER



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Fiore Company, Inc.

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interes esa abcê

November 8, 1972

Masin

Mr. Robert L. Hannaford
Division of Pure Waters
New York State Department of
Environmental Conservation
Albany, New York 12201

Dear Mr. Hannaford:

As we discussed by phone on October 31, 1972, neither John Connors for I received your letter of October 2, 1972 regarding the specific questions you had on Spaulding's "Industrial Waste Treatment Facility Engineering Report (Part I)". I am now in possession of the copy you forwarded to me as a result of our phone conversation and will answer your letter instead of John Connors.

New incinerator - the solid waste incinerator and boiler is designed to burn most of the solid waste generated in this plant including scrap vulcanized fibre. Pilot studies performed by the vendor showed that all air pollution codes will be met without a scrubber. The system is nearing completion and does not include a scrubber, so that this new process is not a source of water pollution since it does not generate an aqueous extluct.

Finishing operation - as you are aware via your presence at the joint meeting with EPA in New York City on November 2, 1972, our entire fabricating operation is being removed from this location and being transferred to New Hampshire. Also our Spauldite Tube Department which presently generates the phenol discharge is being transferred to New Hampshire.

Rag pulping - Spaulding's contract with the City commits us to a load based on the use of wood pulp rather than rag cooking. Our detailed studies of the proposed regional plant capacity at startup versus input shows excess plant capacity. If at startup for technical and/or financial reasons we may wish to process some rags, we will pay for the flow and loading on the basis of the contract. If and when the excess capacity of the plant is no longer available to handle the added load due to our rag processing, we will go to pulp (stop rag cooking) and the flow and loading for which we have committed to the City.

Continued.	•	•	•	•	•	•	•	•	

lecember 01, 1970

Spaulding Fiber Co. 310 Wheeler Street

Tonawanda, New York 1-150

Telephone: 892-2000

Re: Survey of PCB's in Erie County

Personnel: Mr. Dick Preibisch

Vice President

He told me that the only plasticizer they use is dibutyl phthallate. He added that they were aware of the ecological hazards of PCB's and they never use them.

For the record, I would like to mention that 25 per cent of PCB, if added to phthallate esters, sometimes enhances the final properties of the produced plastics.

> Fuad Ibrashi, P.E. Sr. Public Health Engineer

Lower of a some was the 2) word grager have used now the ring 3) lamente formen i slaging - filter solida i racycle 4) inching-gn Ch- recycle, you at genofin he similarly stake - pequent to EPa for extension to July 1977 Tangent 12, 1976 to 140milion progress reporte gam is much 1977 triates mantinue proofers in proofers numajer falout may 1978; force main to town from city : Routines system wayels muciption have to be considered at end of October. Fline mount - will be almound on store I live - pincese payon efter Chefter surgears. , emperied Etimes hecords K- sion + sweling + CEN blowdown Barometrie and sers - give in ston-leg which

answered great Niag Sami il

10/27/78 - Jpan ding Fibre Comiany -1) _ willing on site incineration: _ + + + o of RXN_ 21) wite oil - Sevel lungs in - publica times brought in 25. ter or site disjoinal - donne waste varmel phenel 1,3 pom - 10th 1977 antimony _ Lo.1 Plan COD 300+ Pfw metall 2 mantoury wells - 1 clour graduet Tel. Cuous 1 other site - asbestos hured 1977-78

polyethylene vog 3/av/vK weak H20_ w/ 2 ncl (<340) > 9 ves to on site w.w. fit where in precintation - 2 moderne - 2 moderne - 2 moderne precipitation out as 2 moderne - 2 moderne por x 85'

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10/31/73 - Spaulding Fibre 10/3/62 lottin han Carl Bershundt all wast phende de not so to seuro comprise but are collected & sold to Dung momo from Dr. Bubanki - ECHA to D.B. Stovens 3/4/58 Saying sperior collected & sold to Dura Aud time sulphote shalpe to Niag Santalon. have Lunge tank for obend dutillate, ethanol, methanolis tolune & method man, 50% counter.

-.nu (9304 - For Spanleding Calle - Lames Carely 11-1-3 Cuistino (1) 1974 / 740 / 978 | 5; uldery dum, 7 _ | st - 2 mle Seaway 1965 - 74 (spelle) felig pot amland Claim out from
2 pondis phonolic
gunling - world off 2) wheatfield hauled to latalle expury scrap vulcange Fibre - solid mit his air site Iving yanoff stobile owner haved in bulk style - not underens no liquel wastes to there Niagova Santation - Ofrimmings - 100 - of glass i asbester Spauldete, - fernosetting sold denote mill -- miregrabl of perior of creagher, ef trim phendie of grand up & burns 3) refuse (4) fibre trimings from stillers (5) yearlup from file tube of mineral at 15-A3/lay 5) yearlup from file tube of mineral at 15-A3/lay 5) yearlup from file tube of mineral at used to hand an sludge filler fress cope - ZNOH2 72504 from 72 - mid 78 deat enth water or bound on site framauly.

P/A-NOT recorrang because wastes managed andite Spaulding Fibre 11/28 - R.F. oleksiak - could not find his phone number in directory, wrong add ress. 11/29 - John Ludemann - unable to mach - we assured 11/29 - Leslie Toule - wrong number from auctionions 11/29 - Walter Jackson - P/M - 1960-63 - Never 683-4390 11/29 - Roger Davis (R. Davis 794-0481) - No anover - 11/29 Walter Jackson

S.W. Practices

Phenolice—incrinated ansite

fibres dumped on—site)

(trimmings)—to leach zoch

out trimmings from spauldite, -incinerated > vulcavised fibre - edge from
trimmings taken to leach out m fields ouly Heing dumped on-site
from Railroad trank wood-ravea dumped NO other areas on plant , roperty is it agona clammal out?

Mr. L. Osekkey, Manager Spoilding Tire Company, Inc.
310 Wheeler Street
Tonawanda Your Tonawanda, New York 1/150 Dear Mr. Oseekey: I have reviewed the completed questionnaire you recently submitted to us and have the following comments: 1. What wastes were hanled to Seaway Lendfill between 1965-74 and who hauled them bhere? 2. What wastes were disposed of in the area now known as InSalle expressway and who hauled them thered ... 3. What wastes are currently or have been hauled by Miagara Sanitation? I will be calling you shortly to arrange a meeting at which we can JEI/kkk ... JEI/kkk

REFERENCE NO. 3

:0022 F 02-8704-02

NUS CORPORATION

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0060

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p.5 Finished Record p.6-7 SWI+7 p8 - end of	y begin evaci	ition of wel			
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THE FOLLOWING PAGES WERE NON-LEGIBLE AT THE TIME OF FILMING

62.870+-02/NAR9 4/28/87 3 SPAULDING FIBRE CO. SITE INSPECTION 0810 Called office, spoke with Budy LaBOR I Told from Situation about reeding hydrogen for ova they not working. Tosted fine at office, not in Field He said To coll South GTT France Phablems, collact dutter co 0873 ARRIVE AT SPAULDING FIRE, MET WITH MIRESTUS who said, Twas ok To do est, work today. I told him was societ to call our affice and Try to get some sout of decision off our air instruments, They said to get or much of Recent dove of prossible exters hydragen ran out of Cut juid do 1837 of work on level Bon Registratory. CONSTITUTE CONSTRUCTED WITH GOOD FOR him word SITE, HE prosured some, but sind EtA had bis costre File Should get From Them. He said he X Le West to drive stand site, MR, STELLS possible out wester arras. He said The company is now privately owned by 4 principals. 320 comployees, 3 shifts, no guards except on weekends other date at 3946 Sign SETTING of decar area. TOUR Found , Regulater for tilling OVA with Hydicgen. mystigd has at trying mall 120 A. Cherepon + D. Pederson DROVE TO PURITAN BRONETT IN TEMPORANDA TO GET TO STORY ON THE CULT. ARRIVE AT PORTAN - Dend et 1. ATTER THEK IND WITH MAT CO. Rep. Told us to well till up out to stroment. Thanked, line. 1110 Just at site, Go Timo Things Acquir To go

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Elle Francisco Mini Alert Discussed weather cultimes - Compshippery, leak out for plant Trattice, Trucks Solvents, Menole, Ressius, DRUM land Fill, lacons, Asheros to,
and Staining attended Florin Sewers IND Sphishing to caretall. West in the Sound 1 State of 45°F, 10 mgh wind From Worth, company of 15 From ~ 15-30 mgh 1200 SUN CASUT RUN ACTUS Rd ON SITURING OF THE CONTROL OF THE RECENT TERM. 12 10 M. Bayman on all near KELLY 1655.30 WATER POLICE & 6 IN moster well 1800 boilding We ready so UNA. will Toke 27/1 gole for 3 vols. EIGHT I FURTALE BRAKEN OFF WELL COR (IC It well, 19 les 12-20 OFF MR / GET. Though the frame chance of the most of the second of More level Them to It esquared 229 white

028 Tot-03/APP Phyto III AIR MINITARINE OF WEID & 1245 - gaing along Ditter Toget AIR MONITORING _1200 FIX MONITORING AS 18755 /F TOA Jave off scale reading son OVA N 500 DRUNS ON of ROUND, SOME OPEN, Phenolic ResiNS. FIAMMABLE Photo 2 . Chemical distribution pad for TRUCKS, Direction, East. 1-32 Photo 3, Skin staking AREA. Photo 4 Method , Alcohol, storage text area. NE Acadina jexcapt ~ / ppm en Matterial Fruished with Ricoi, M. Barman offair. (EMMIN) STURAGE ARM OF Plant showing strong 1350 : 40106 1391 of Plant, showing hazardous wiste stokage afferm contact 1357 Getting set up to evacuate which that bottom.
1405 Began gracuating with T2951, willing. cuilly et pechange where smith only sheen from the C-4704-12/14KB 1410 Stopped Talling. 1415 calling OFFICE To Find out it ok to Earnette. merrow also BIKE your said it is check finding to sample tome from al so, prost check finding to coolers to make siteme in a very chough stuff. Told non we'll do all with Teday, WINGET Soils TownorTOW. He said Five, Dione Trube said to get Time sheets in This Thing when we get back? Pril schot zerting - call fick - 20(-251- 4280, -8PM2 Telked with, The Mayo Also. 1730 FINISHED WITH ChOPPLET 1435 Tred evacuating well 3 (neor Bldg) again. inly had " types come out will let recharge longer come to do SW-1 + SW-2 First. 18 Expans 1450 Begin Show 10-1 5W-1 1455 Photo 7 +8-5W-1, diteh noor Dave LondFill. Photo direction - N-NW. Bull schenitzerling Same, et MITT EULMAN -45805 TROT MAIN Building , Nor ditch near Trops, by granding out tout 1500 Titing sample Back To Low or such 15/5 locking for good even to Take water sample in Liter on their side of Sant, where it flows 1. 10. Stepn Sewers. 1530 Found of Ca in got of Hant poen in shaped ditheyon After & Heresa -1/25/5

1533 DEGIN Sampling 5W-2 1535 thato 9 - SW-2, near unshaped layour, drainage ditt mean follopione poles from to entitle sewers. Sill schotzer lay + Mike Bauman - Samples. 1540 Firsted Sampling SW-2, Back To Decen greato DREP Samplés off. Tedded To tot well & recharge before Sampling. will born evacuating well A by Frace. 16 03 Segue evacuating well A hose only west down to = 30; hit letter 1610 god evacuation of well A, sumped 25 onlows. From. well will te Recharge a little before samfring. Well water clear at first, Then began sitting up, vices bot tempes example from bottom set. 16/5 formy back of decon orea. 1645 region squipling GW-1 (well A) 1650 Moto D, Gw-1 (well A) near Fence. Sumpless - Bit Schn. Techniq + Mite Bruman. 17/0 Derin Sampling GW-Z (well &) 1715 Photo 11 - GW-Z, Symplers Bill Schmitzerlangt Milte Lauman, Brian ledersen - Accord 1725 FINISHED WIR WILL CW-2 (B) Cleaning up area. Coing Bick To de con Gato closed + lacked, had To drive To main gate STOPPER TO check disposal area near smokestock. 1737 Back at Decoving GW1 + GW2..... County - Coth sings can he theream 1/2 x / 5-7

12-9704-02/1409 4/29/87 SAULDING FIRE CO. SITE INSPECTION - day Two _ 0320 - Called office spoke with Joe Mayo - gave him Smo data For shipping of samples. _ J.900 - drowed on site, get Ting set of going to Telk with The stube. Office receptions said held meet us in for they lot at command post. Entertained -350, conducting satety meeting.

West over hazaids, chemicals cusition.

MUST WEAR DUST for dust mask while sal samplings. The T tack of dot, be constitle ALAN T Charges aller (Lleups - FM BRIAN Poderseh Brown Teacher - 550 Pauline Young Muline your - Smo Mitte Baymon Pas me Council - Decon Kanda Kies Raydy Rice - sumpiler Bill schottzerling = 5 ampiles. Weather : Or ERCOST, - 40°F, ~ 10 mgb will From South. Changes in work plan! No stainless STEE | Bowls for. Eeg, w for year and fill travan problems with some rocks, would to the trent then the traval and the traval problems with some rocks, would to the traval then the traval the mother characters thereof FIR marefrat - dark brown, STOVES, civiles, processet State with now rects and leave to the first of the fall 13 HO FINISLED WITH STROFFEE CONCRETE STATES

02-87/07-07/2129 Photo 12, 5/1 an Site East side of dirt 140 From Eldy, near wall B (cu-2), and 135 From conver of Slig weat Satisticks Samples Right + D. Schotterling -DK. BROWN Fill, conders, processofythe shake. - 0-1.8 1.8 - 2 michtal clay, from, some reddish brown fax. .. ._ 1045 begin augering Fer 52, getting aix kadings griside hole of To 35/pm on OVA, Strong breeze Fam 5 W Keeping Westing 2018 clear, 50mg yellow Eland muttes at ~ 3. Getting Stringel_ TRACTINGS ON CVA JUPTS 3-4 42 as closer, en all explosed treated to put on SCOR'S due to roodings in oreating zone. 1055 NANLY Nice had To dress down To USO LEST ram sampling personnel on our RANDY RICE - SCBA # 165530 Bill SelastEarly - SCH# +28551 1120 RESUMAR SAMPLING ON 21 K 11-5 ON AR OVA readings up to 300-350 ppm in hole, down To 4 1130 PLOTE # 13, 52, 2-4, 5 done / scatton 45 El.

SAMPLERS- F. Selvitzerling + R. Rice. 1135 of Fair, Fin 15head Saugaling 52, 1145 Taking, somples 51 + 52 and sample equipment To docen, pluy To 53. 1150 Beaux surering 53 1 site of old Filled W lagoon will WEST side of plant, simul drawage liter note and and

Up From low itea of the tend with a wine following in 1170/M

155 Down 10 1 det to trans Fill, cinders, coal,

nour old RR Ties. Get Town Clay at a 1;

motified readish brown, some stack, some yellowish

Treating.

OVA his up to 8 ppm to 10 ppm in hoje, nothing in breathing.

ZONR.

- 1209 Photo #11 53 So, / From 8-2 composite.

- okt layounal area, Survey Kes R. Arce + B. Schotzerhing. /

- somple 53 15 m 32 From 31dg Carver and 18 From 31dg. (swood)

- 12157 Fin 51:28 Survey 1, as 5-3.

1220 Begin Sampling 54, 30 From coever of Bldg. __ Near Hazardors storage area + Landfill for Hebestos pand_ 17 From side of Bldg.

1230 Photo 15, 54, soil Fond I on side of Bldg. I From Plan and North of Asheros Londfill.

Sumplexs: R. Accord & Schwitzer lavy.

Photo chrection - North.

1232 Finished with sy Noticed in only metalic scheen on water IN DAYINAGE ditch Mac Sample location of bend in Kord

1235 Back at decor area. Will decon samples + Symptima equipment, personnely and get more gloves!

Garage Townshed with decouring, had to decon all a loves.

The second of second of the vitors as we will be to the second of the vitors as we will see the dean later to the second of t

02-8704-02/Nyeg 1305 BegIN RUSERING 55 60 From (SWot) Haz. wage STurage Blog ; and 40 cm of CORNER OF SOME blog. STETCH, LOCATION OF I'M 12900N. 1315 Photo 16. 50: Lample 55, 0-2- AUFT Composite. Simples. R. Rice + F. Schnitzerhorg, hod readings out of hole. WIND Shitted, on Tot west a 20 mph, a 40 mph Duck Brown, chiedery, rocky Fill 10-1.
Mottled Liay - Keyry - 2, some weed in take of the 1317 Fivished with st. 1323 Begy Augering 56, J-Shaped leveral arman and Luge Tank 1-2 deur petting The species of some gray, grown, SE IS 55 From Bldg, and 75 295T FBVg CORNER [335 Phoje #17 301 Simple >6, 501 composite of 157 Second States 5/4/57 (2014) Second 50/ Simple 56, 501 composite Tom 372

TANKS. SAMALERS B. SCHNITZERINGT.
RRICE OF 2 1901 Photo direction NE.

1505 - Fluibled with 58.

___ 1510 Back at Decon area, will decon samples, tools.

and people, and fack everything up this policy with

Survey ling.

15/5 A. Cheregon Went To OFFICE OF SPAULDING FIRE CO. TO give map showing sample locations to MR. Stubbs.

1525 Photo #21+22-panoramic View of plant From across Wheeler STREET, near AR TRACKS, Facing West.

1535 Buck at Decon area. Noted houses and bisinesses, Restaurants within 100 of site. Landfill, possibly city, South of site Ny mile. Checking smo paperwork + samples before packing.

1600 leaving site top Federal Express
1620 leaving Federal Express of Top diapping off
Coders

1640 Back at hotel.

NOTE About 5 T.E: SINCE E lay was encountered in .

All waserings. It is cossible most contaminants are mighting as surface or near surface run off.

(Lead V. Guldulds: 7 Man a. I herean ul- 9/47

END OF ILLEGIBLE PAGES

92-8704-0	2/W4K9		
SMO DAT		4	15
4/28/97	2 OAGANIC CO	rolers To: CAMBRINGE ANALYTICAL	980
+ A	IRBILL # 3498025786	1106 COMMONWEALTH AUE	
		BOSTON, MA. 02215 ATTN: Sharon WALER	
	1 INOTGANIC COO ARBILL# 34980 25790	ler To:	
<u>:</u>	AIRSILL# 34980 25790		
		2199 DATMORE AVE	
		PITTSBURGL, PA. 15210	
ALL AQUEOU	5 SAMPles Senton	ATTN: JIM CICILIANO 4/28/87	
Sample #	ORGANIC. TRAFFIC ROT. &	WORGANIC TRAFFIC ROT.	
MYR9-BLI	BF 429	MBF- 484	
NY R9-6W1	BK-238	MBJ 137	
NYR9-6WZ	BK 239	MBJ 29Z	
NY29-5W1	BC 084	MBF 490	
 1929-5w2	BC 085	MBJ 192	
4/29/87	SENT TO SAME LA	1 INORGANIC COULER	
	ORganic /	I INORGANIC Cooled	
Inorganic - A	IRBILL # 3498025764 AIRBILL # 349802577	5	
SAmple #	organic TRAFFIC ROT#	IN organic Troffic ApT.#	
NY 29-51	BK 240		
(111)	11 - 13		
		Cent V. Gilliam Cent V. Gilliam SINS	-,
			_

02-8704-02/N)	1R9	1/2 4 Ward on 4/2 1/47 16
5Ample #	DRGANIC TRAFFIC ROT. #	Wargank Traffic LPT. #
NY 89-52	BK 241	MBF 48/
wy R9-53	BF 427	MBF 482
MY R9-54	BF428	MBF 483
NY 19-55	BC 080	MBF 496
My R9-56	BC 081	MBF 487
NY19-57	BC 082 .	MBF 488
NYR9-58	BK 249	MBI 590
WR9-862	BC 083	N/A

General Vicilia Clay cheryson 5/8/87 along cheryson

REFERENCE NO. 4

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TO: PAO TOUT File - Spaulding Fibre Co. DATE: 3/9/88
FROM: Alan J. Cherepon COPIES:
SUBJECT: Flage Fold Tonel Note for Field Mebook. REFERENCE:
REFERENCE:
During The site inspection, it was observed
That a high chain-light force surrounded The site
completely with gates that were either
locked or granded by company porsonne Gard There
was a security system at The plant, with all gates
locked after 5 pm and before & m. This observation
was not noted in The Fieldhoot at The Time of
inspection us as oversight, but is being documented now
To enable this Information to be used in The scoring
OF The accessibility of The was to at the site.
IT was also noted that The plant site was
mostly Flat with 20 4 small slope changes for storm
drainage titches or londing airas near The plant huilding.
The Topographe map shows a very gradual slope of Topography in the area of the plant.
Topography in the area of the plant.

REFERENCE NO. 5

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INDUSTRIAL WASTE SITES

AT

SPAULDING FIBRE COMPANY, INC.

INDUSTRIAL PLASTICS DIVISION

310 WHEELER STREET

TONAWANDA, NEW YORK 14150

DECEMBER 13, 1983

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	F. Spaulding Fibre Company, Inc. Gas Well Log Information - 1978	
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1. BACKGROUND

Spaulding Fibre Company, Inc.'s Industrial Plastics
Division located at 310 Wheeler Street, Tonawanda, New
York, County of Erie has two (2) inactive disposal waste
sites on its property. One (1) is listed under NYSDEC
site code as #915050-b and the other as #915050-c. The
915050-b site contains approximately 750 - 55 gallon
drums of resin and was used from February 1978 to
September 1978. The 915050-c site contains approximately
40 tons (7,500 cubic yards) of Spauldite® dust in
polyethylene bags and was used from the fall of 1977 to
September 1978.

The manufacture of Spauldite® brand high pressure industrial laminate involves the use of a reinforcing web in a resin matrix. The reinforcing webs used at this facility during the 1977 and 1978 time period were: cellulose paper, asbestos paper, woven cotton fabric (linen and canvas), woven asbestos fabric and woven glass fabric. These continuous webs are dipped in a thermosetting liquid resin (adhesive) system and cured (dried) to a B-stage or prepreg condition. Several sheets of B-state are then placed in a press where heat (300-365°F) and pressure (1000-1500 psi) are used to fuse the individual B-stage plies into one homogeneous mass with a thickness determined by the weight (number of plies) put into the press. Since the resins used are all thermosetting the chemical reaction that takes

place is irreversible and the resin is permanently cured (set). An analysis of our production records indicate that the average product mix is 95% phenolic, 2% epoxy and 3% melamine laminate. All the sheets are saw trimmed and most are sawed into thirds or halves. About 5-10% of the laminates are also surface sanded for various reasons such as close thickness tolerance control, roughened surface for bonding, etc. It is the saw and sanding dust that was bagged and disposed of in the dust area #915050-c. This material is solid, inert, water insoluble and non-volatile.

As stated, liquid resin systems are used to impregnate and/or coat the reinforcing webs. It is the tank heels and cleanup residual material that is in the drums in area #915050-b. These systems are thermosetting and have the catalyst in them so that they will polymerize to their cured (C-stage) form. The polymerization process is a chemical reaction that is temperature dependent. The reaction rate doubles for each 10°C increase in temperature. These resins cure at 50 to 300 seconds at 300°F. Since these reactions are condensation polymerization in nature, the by-product is water. The last drum was disposed of in #915050-b in September 1978, over five (5) years ago. We would fully expect that these materials have solidified in that time period. The raw chemicals in these systems are: phenol, formaldehyde, cresylic

acid, dibutyl phthalate, butyl octyl phthalate, aniline, epichlorohydrin, bisphenol-A, methanol, toluol, methyl-ethyl-ketone and ethyl alcohol.

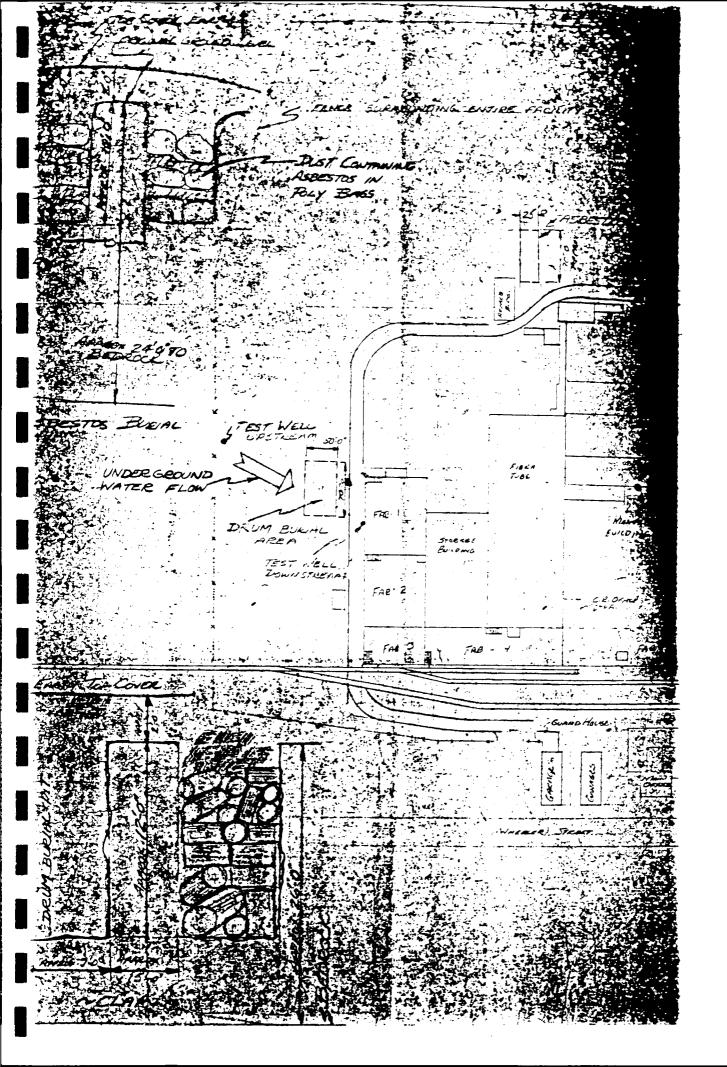
2. DUMP LOCATION AND DESIGN

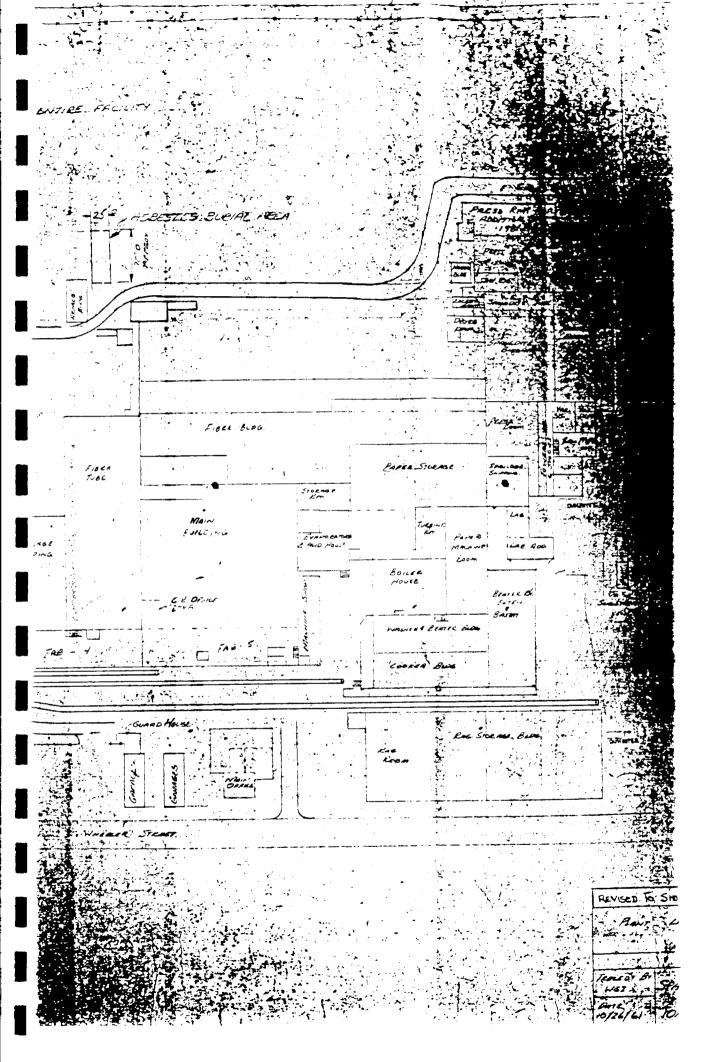
The original 1961 blueprint of the Spaulding buildings and property updated as of November 1983 shows the location, dimensions and vertical section design of the dump sites.

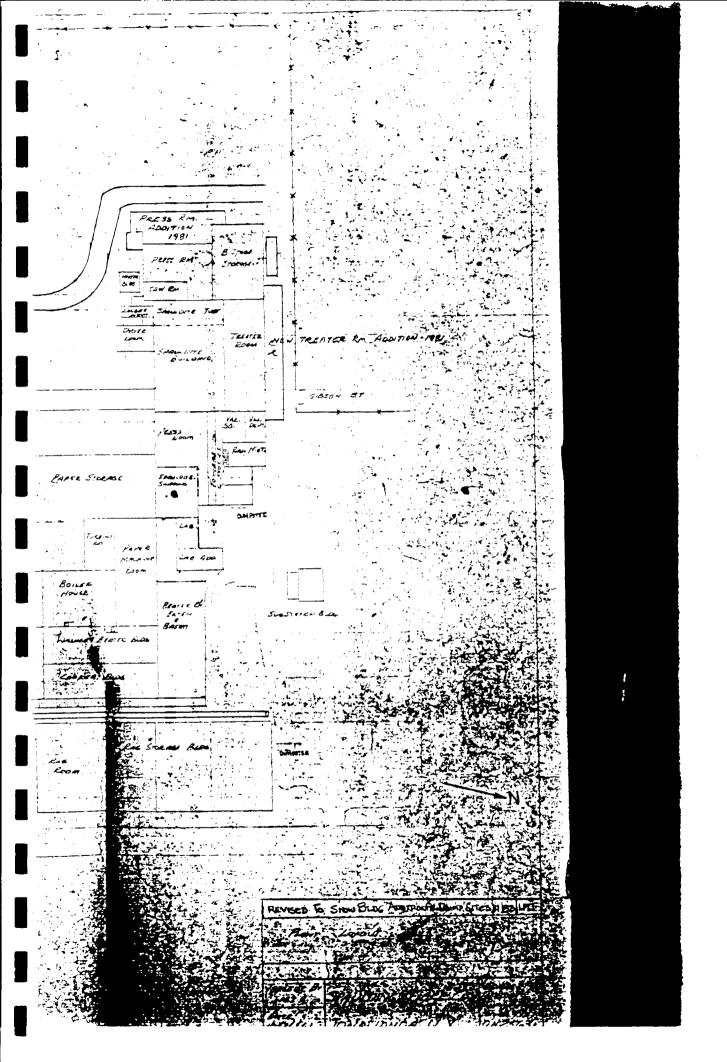
The dust site has a mounded cover approximately 25 x 70 feet. This site contains two (2) trenches 6 x 40 feet and one (1) trench 6 x 20 feet. The bottom of the trenches is ten (10) feet below ground level and twelve (12) feet below the mounded cap.

There is approximately four (4) feet of cover on top of the bagged dust. The bags of dust are in layers with each layer covered with earth.

The drum site has a mounded cover 50×70 feet containing trenches seven (7) feet wide. The drums are positioned in a randomed manner in the trenches with about four (4) feet of earth cover.







3. **DATA**

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- A. USGS Test Borings 1982
 - 1. Site 915050a (lagoon to collect Spauldite® tube wet grinding waste containing phenol)

Lagoons were excavated 1972 and filled with clean material. The excavated material was disposed of at Seaway Landfill. NYDEC reports that this area has been properly closed.

Well No.	Depth (ft)	Description
1	0 - 0.5	Topsoil
	0.1 - 1.5	Clay, red, intermixed with
		gravel, extremely tight
		SOIL SAMPLE: 2 - 3.5 ft.
2	0 - 5.5	Clay, red, tight, dry,
		with layers of gravel
	5.5 - 7.0	Clay, red, wet
	7.0 - 11.5	Clay, red, tight, dry
	11.5 - 16.5	Clay, red, tight, dry
		SOIL SAMPLE: 5.5 - 7.0 ft.
3	0 - 5.0	Clay, reddish, tight, dry,
·		some gravel
	5.0 - 5.5	Clay, reddish, wet
	5.5 - 26.5	Clay, reddish, dry
		SOIL SAMPLE: 5 - 5.5 ft.

7

Well No.	Depth (ft)	Description
4	0 - 0.5	Topsoil
	0.5 - 3.5	Clay, reddish, tight, dry
	3.5 - 4.5	Clay, reddish, damp
	4.5 - 16.5	Same as above but with
		gravel layers.
		SOIL SAMPLE: 3.5 - 4.5

As indicated, soil samples were collected from each boring at depths ranging from 2 - 7 feet.

X No phenols were reported in these samples.

B. Earth Dimensions, Inc. Test Borings - 1978

Attached are copies of these boring data plus
a summation letter dated September 27, 1978 by Mr.

Donald W. Owens, Soil Scientist for Earth Dimensions,
Inc.

EARTH

DIMENSIONS, INC.

Soil Investigations and Natural Resource Assessments 797 Center Street • East Aurora, New York 14052 • 17161 655-1717

September 27, 1975

Mr. David Weber Mrehbiel Associates, Inc. 1868 Wiagara Fails Boulevard Tonawanda, New York 14150

RE: SOILS REPORT - SPAULDING FIERE

Dear David:

Three soil borings were augered september 22, 1978 near the leastern and southern side of the buildings of spaulding fibre in the City of Tonawanda. The placement sites were located by Lavid weber of Krehbiel Associates.

The soils were logged at these sites based on split spoon sambles taken irom every major horizon. In addition, undisturbed soil reamples were collected in Shelby tubes from two depths at each bore site for permeability laboratory tests.

A thin mantle of clayey lake sediment was described as the surficial original sediment at all three sites. This mostly stone free sediment rested on a sulty clay loam (ClayLY-SIDT) dense glafoial till containing some stone fragments. The lower boundary of this very impervious clayey mantle ranged from 3.0 to 4.5 feet below the surface. A silty lake sediment layer was a transition zone between the clayey lake sediment and glacial till in boring wy.

The (CLAYLY-SILT) dense glacial till, sometimes called "hardpan" is very high in silt with moderate (about 25 to 55.) amount of clay and low content (less than 15%) of sand. This till is very uniform, even in the distribution of the stone fragments which is estimated to be less than 15 ... water movement through this dense Izone is also very slow.

water tends to perch above the clayey lake sediment as was the case in soil boring al with the water seeping into the bore hole from the more permeable industrial waste cap. This surficial perched water table usually disappears in late spring reappearing in fall except after intense summer thunderstorms or extended wet periods. The permanent water table was below sampling depth, though the moisture content did increase with death in borings 2 and 45.

rremared by:

Ma Owent Donald .. Owens

Joil Idlentist

DWO/dew 6178



LOGGED BY

Owens A ----

EARTH DIMENSIONS, INC.

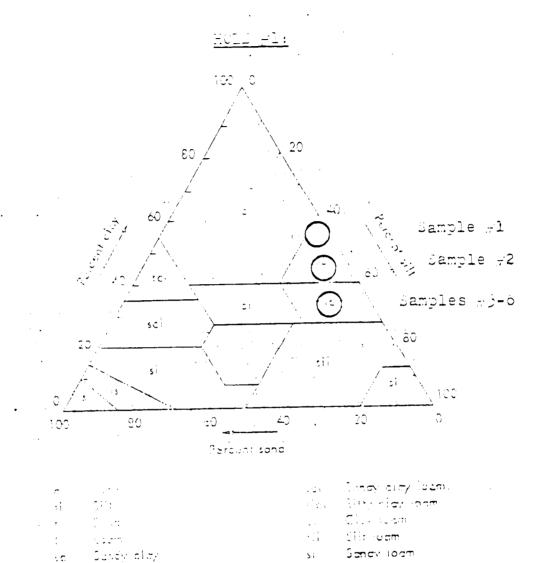
Test Bottnes and Logs

797 Center Street • East Aurora, New York 14072 • (716) RV0[7]7

HOLENO 1			SURF ELEV
PROJECT <u>Spaul</u>	<u>ldina Fibre Co., Inc.</u>	LOCATION	
			ly wheeler street
CLIENT - TEXT	niel associates. Inc.	. DATE STARTED	9/22/78 COMPLETED <u>9/22/7</u>
ELOWS ON SAMPLER			
SAMPLER ON 11. 11. 12. 12. 12. 12. 12. 12. 12. 12.	DESCRIPTION & CLASSIFICA	TION	WATER TABLE & REMARKS
7 8 5 5	Moist, reddish-brown a fill, very firm Entremely moist to wet ders, reddish-brown be and industrial wastes, able to firm, in a to layers.	black cin-	<pre>.ater rapidly sesped into bore hole from the man deposited fill mantle.</pre>
2 27	doist, reddish-orown (Clayly-Sill) with le gravel, massive soil entremely firm (stiff moist, reddish-brown, loam (Clayly-Sill) wit subangular, gray, hard dolomitic gravel, mass structure, extremely filly plastic. This depondence and uniform.	structure, silty clay n 5 to 10,, shale and ive soil irm. slighti	Fill to four feet over foot thick lake sed ment resting on very dense silty glacial to end of boring. The original approximate feet of clayey lake silicial material was rimoved. Mi - not taken due to shelpy tube samples taken at the depth and below.
\$\frac{4}{5} \frac{35}{5} \frac{35}{27} \frac{35}{5} \fra	10 and 15 feet with sar secured between 14.5 ar feet)	mple 4 nd 15.0	ater table at 11.5 feet below surface at completion.
	soring completed at 20.	0 feet	

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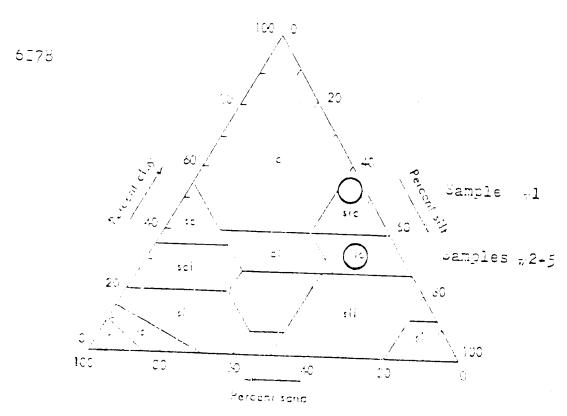
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DIMENSIONS, INC.

Test Borings and Logs 707 Center Street • Eus Aurora, New York 14:32 • 3716-072-1717

HOLENO <u>2</u>	_		SURF ELEV
PROJECT <u>Scauldir</u>	is Fibre Jo., Inc.	LOCATION	<u></u>
CUENT <u>maninal</u>	wsgoolates, Inc.	DATE STARTED	9/22/70 COMPLETED 9/22/70
BLOWS ON SAMPLER	DESCRIPTION & CLASSIFICA	TION	WATER TABLE & REMARKS
Sample 1	Extremely moist, black fill, very friable folst, black, silt load folst, cintictly mott dish-brown SILTY-OLA vertical dessication extremely firm (stiff hoist, reddish-brown s loam (blaff-bflf) wit loam (blaff-bflf) wit shale gravels and occa cle, massive soil stru tremely firm, slightly	e m (ULAYLI- led, red- Y, with gray cracks, I), Plastic ilty clay n lo to lomite and sional coo-	Clayey lake sediments to 2 feet over dense, silty clay loam glacial till to end of boring. At-not taken due to shelby tube sample taken at this depth and below.
1 2 .77 1 2 .77	grādes downward to-14	↓.0 feet	(Note scale change between 10.0 and 15.0 feet.) (Sample 14 taken at 14.5 to 15.0 depths)
sample 2	Moist, brown, silty cla (CLAYLY-STET) with 10 f subangular hard dolomit shale gravel, massive s ture, firm, slightly pl	to 15% te and	ಸಂ water at completion
<u> </u>	Foring completed at 20	fact	





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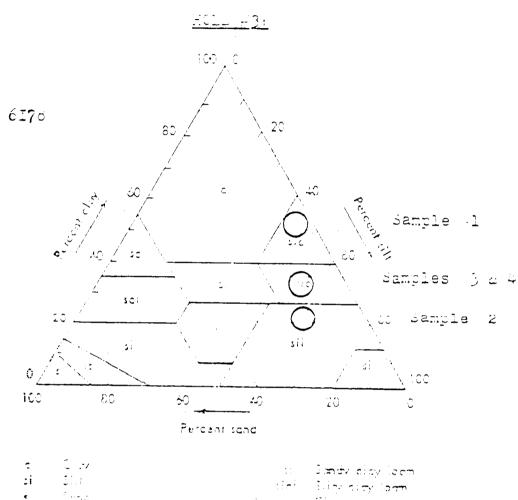
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EARTH

DIMENSIONS, INC.

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HOLENO			SURF ELEV
PROJECT <u>Joauld</u>	ing Pibre Co., Inc. I Lonawania	LOCATION	10 Maelem Otheet
CUENT <u>Imprim</u>	ei wisociates, Tho.	DATE STARTED	<u>9/22/78</u> COMPLETED <u>9/22/7</u>
BLOWS ON SAMPLER	DESCRIPTION & CLASSIFICA	ATION	WATER TABLE & REMARKS
5 2 20 2	Moist, black, silt los	friable .	
2	oist, distinctly motifies dish brown, SILTY-JLAY dessication cracks, versition	erv firm :	Olayey and silty lake
Lasian tube saunipuli	Loist, reddish-brown, loam (OpaYaY-UTER), th firm, nonglastic, none	imly bedract	sediments to 6 feet over dense, silty cla loam glacial till to end of boring
	clear transition loist, reddish-brown loam (CLAYLY-SILY) with subangular, hard, gray dolomite gravels, mass structurs, extremely f	TITY OLLY in 10 to 15, shale and ive soil	
28 21 00 61			
anelby tude sample ;2	Moist, to extremely mo silty clay loam (CLAY) with 10 to 15% subangulard shale and dolomit massive soil structure	ist, brown Y-SILT) lar, gray e grayels.	
1 722 U	Continued on	-age 2	
N = NUMBER OF BLOWS TO Logged by there	DRIVE 2 "SPOON 12		WT, FALLING 50 PER BLOW.



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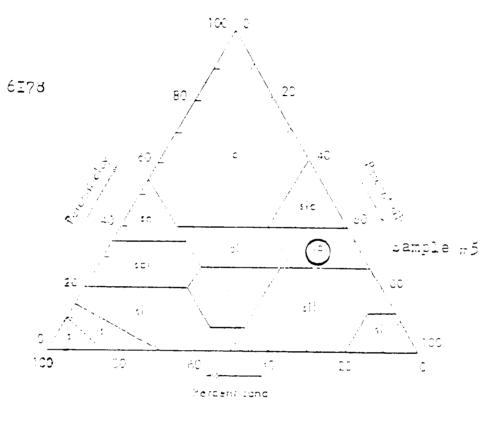
EARTH

Thuare

DIMENSIONS, INC.

Dest Borings and Dogs Ton Center Street • East Aurora, New York 14972 • -716-451(7)7

DUE NO	con-	t <u>ln</u> ued		SURF ELEV.
ROJEKIT I		nt Fiber Jo., Inc.	LOCATION	
EN~				lu "Neeler utreet
			DHIE STARTED	<u>3/22/75</u> COMPLETED <u>9/22/75</u>
	BLOWS ON SAMPLER			
	/ / / >	DESCRIPTION & CLASSIFICATIO	N	WATER TABLE & REMARKS
	2424 2953	(pame horizon as describottom of page 1 of 2)	bed at the	mater table 9.5 feet below surface at completion
		Doring completed at 2	20 feet	
		•		
NUMBE	R OF BLOWS TO	DRIVE 2 " SPOON 12 "	WITH 140 Ib.	. WT. FALLING 30 " PER RIOW



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NON-LEGIBLE

PAGES

C. Calspan Corporation Soil Permeability Coefficients (k) - 1978

Shelby tube samples were taken from two (2) depths at each of the three (3) bore sites augered September 22, 1978 by Earth Dimensions, Inc. and cited in B. above. These samples were tested by Calspan Corporation for natural soil permeability coefficient with the following results:

Test	Boring	Sampl	e	Zone (ft)		C	ermea oeffi (cm	ci	ent
	1	4.5	-	5.5	k	=	1.06	x	10-7
		15	-	17	k	=	2.1	x	10 ⁻⁷
	2	5	-	6	k	=	2.0	х	10-5
		15	-	17	k	=	2.3	x	10-7
	3	3.5	-	4.5	k	=	2.2	x	10-5
		14.5	-	15.5	k	=	1.4	x	10-6

- D. Aerial Photograph Review and Interpretation 1951, 1961, 1972 and 1978 aerial photos were reviewed with the following observations:
 - 1951 Some activity was noted in the area of
 Site 915050c. The soil appears to have
 been disturbed and some piles of material
 or containers were noted in this area.

- 1972 Extensive accumulations of material and disturbance of soils noted in the area of Sites 915050 a, b, and c. Also apparent storage of material noted next to the building in the northeastern corner of property.
- 1978 Only minor activity noted at Site 915050b.

 No determination possible on the type of activity.

The aerial photo review generally confirms reported disposal activity by Spaulding Fibre.

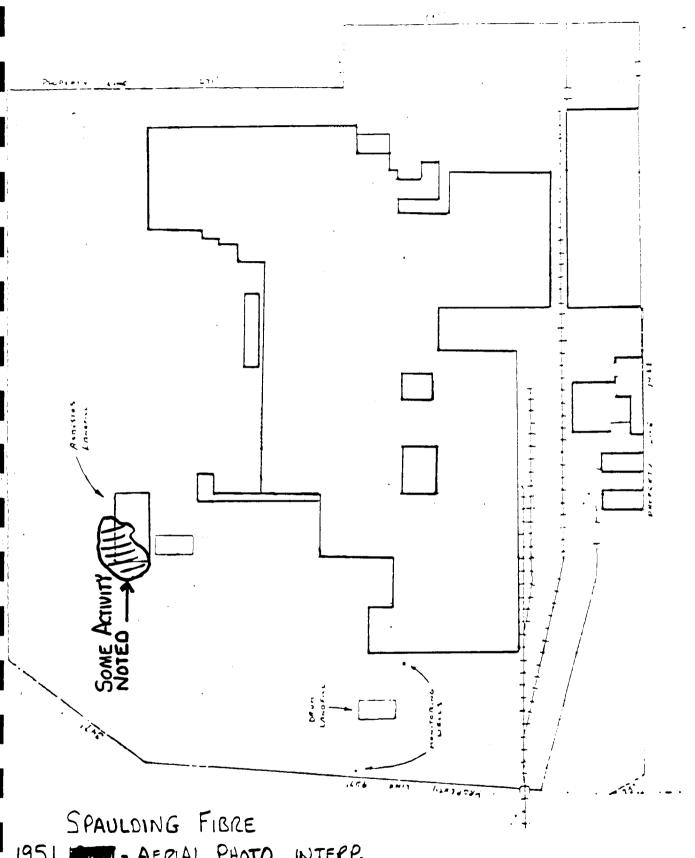
E. Town of Tonawanda Hydrogeologic Investigation By
Thomson Associates - July 1983

This information was reviewed because of the proximity of this site to Spaulding Fibre (approximately 1/4 miles south).

An executive summary on Page 7 of this report indicates that the Tonawanda Landfill areas overlay thick glacial till deposits with low vertical and horizontal permeability. The unconsolidated deposits were described as between 56 and 95.5

feet thick and consisting primarily of a red-brown silty clay glacial till. These materials were tested and showed a mean vertical and horizontal hydraulic conductivity of 1.7 x 10^{-6} cm/sec and 1 x 10^{-5} cm/sec respectively.

This data generally confirms the soil data reported by Krehbiel and USGS for the Spaulding Fibre site.



1951 - AERIAL PHOTO INTERP. A VOELL - DEC-1983

F. Spaulding Fibre Gas Well Log Information - 1978

Spaulding Fibre Company, Inc. installed three

(3) gas wells on its property in 1978. The

following is an excerpt from the drilling logs:

Well #1 (Water Tower Area - North Side of Property)

Depth (ft)

0 - 24

Fill and glacial debris

24 - 170

Salina

Well #2 (Hines Street - Hackett Street - Southwest Corner of Property)

Depth (ft)

0 - 28

Fill and glacial till

28 - 202

Salina

Well #3 (Parking Lot Across Wheeler Street - East Side of Property)

Depth (ft)

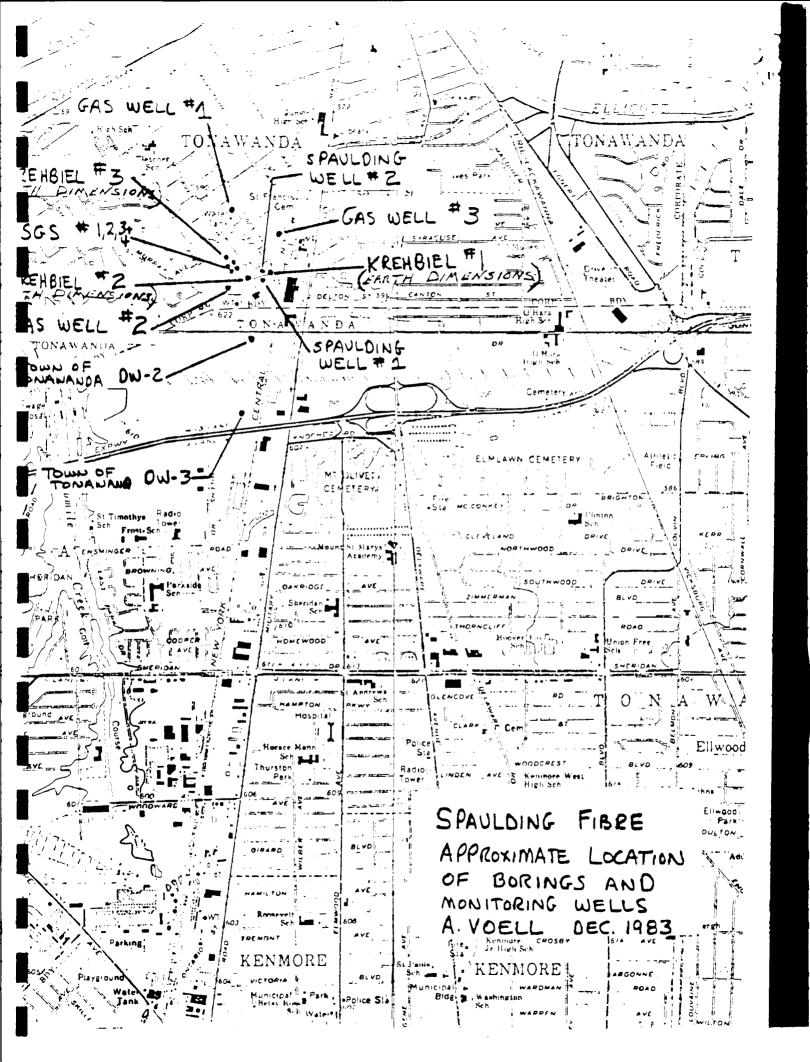
0 - 34

Glacial fill

34 - 196

Salina

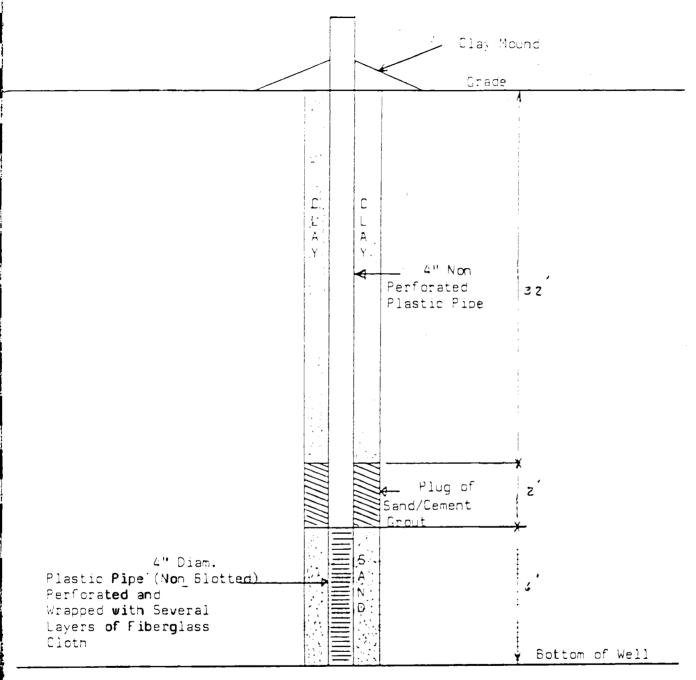
G. Spaulding Fibre Company, Inc. Abandoned Water Well
On the Spaulding property is an abandoned water
well. This well was measured on December 6, 1983
for well depth and water level. The well is twentysix (26) feet deep from ground level and the water
level was at twenty-four (24) feet below the
ground level.



H. Well Monitoring Results - 11/23/78 through 9/29/83

Pittsburgh Testing Lab, 605 Young Street, Tonawanda, New York was contacted to put in two (2) monitoring wells, one upstream and one downstream of the drum dump site (915050b). These wells were put in October 6-7, 1978. The driller's log shows that both wells were sunk to a depth of forty (40) feet below grade. Four (4) inch plastic pipe was used with the bottom six (6) feet perforated and wrapped with fiberglass cloth. The bottom six (6) feet was backfilled with sand then with two (2) feet of cement grout on top of the sand and the thirty-two (32) feet remainder backfilled with the excavated material. The upstream well core was dry for the top thirteen (13) feet and damp from fourteen (14) to forty (40) feet. The well was left open overnight and filled with water to 1.4 feet below the surface. The downstream well filled with water to two (2) feet below grade at the end of the drill.

Following are the test results since 11/23/78.



Water Wells 1 & 2 Installed 10-6, 7-1978

ī		1 2015 30		16-245		
SAMPLE		1/5-	j.,	- 2017		
DATE.	۱, ۵	Dovin	D D	Down	٩٥١	1. Dogwa
11-23-28.	K. 25	K.10	K.01	K.01	175	99
1-25-29	.22	.09	K.0/	<.01	7.5	59
2-22-79	.07	1.23	K.01	(.01	22.5	76
5-17-79	.75	.24	K./	<./	93	38.8
8-18-79	.04	. C. 3	<./	<./	می کے ج	49.1
9-20-79	.15	.08	K.005	K.005	24.4	50.1
12-20-79	.07	.08	K.oas	K.ocs	19. 3	52.2
C-15-RO	. ह उ	10	K.001	K.001	7.9	120
10-23-80	K.03	1.00	K.002	K.002	12.5	15.6
18-86-81	.21	.26	5.00	K.005	7.7	1105
12-10-81	K.03	5.63	K.002	1.002	<<-	<u> </u>
10-12-82	<.e.3	K. 6.3	1.500	K.207	<1.0	14
	F=1 11 1	10/5%		1/4.50	c Te	<u> </u>
				<u> </u>		
			11 D	1.1.1/1 		
<u> </u>	T 1	<.o3	.0082	1 .	16.0	5.5
9 - 29 - 8 3	K.03	K 03	K, 01	K.01	100.0	
						<u> </u>
	1 - 1 - 1					
						
		-				
	-					1
	D AS 21	NDONE				
* EXPRESSE		14 pm 15 44 m	•			-

As a result of NYSDEC's decision to so to Phase II for both the dust and drum sites, it was decided to gather additional data from the test wells. This involved analyzing for additional chemicals and analyzing to a lower sensitivity level. The results are in table form.

SAMPLE DATE	11/2	<u>3/83</u>	12/1	<u> </u>	12/6	<u> </u>
PARAME TER	UP STREAM	DOWN STREAM	UP, STREAM	DOWN STREAM	UP STREAM	DOWN STREAM
nol	< 2	<2	<2	<2		
sols	<5	<5	<5	<5		
atyl Phth alat e	<15	<15	<15	<15		
yl Octyl nthalate	<20	<20	<20	<20		
maldehyde	5	30	14	10	3.4	8. 3
hyl Alcoh ol	3	11	2	2	2.9	2.9
yl Alcohol	13	8	13	13	1.5	2.4
hyl Ethyl Ket one	6	3	5	6	5.8	6.2
uene	9	3	13	9	3.4	5.1

ES: 1. Analysis by ACTS TESTING LABS, INC. using 606, 602, 604

EPA methods.

^{2.} All results in parts per billion.

J. EP Townsty Tests Spauldite% Dust - November 1983

A sample of Spauldite% dust was composited

according to our average product mix as described under the section headed BACKGROUND i.e. 95%

phenolic, 2% epoxy and 3% melamine. This sample was tested according to the EP toxicity test with the following results:

PARAMETER	DUST SAMPLE RESULT	EPA MAXIMUM CONCENTRATION
Arsenic	0.014 ppm	mqq 0,2
Barium	mqq 2.0	100.0 ppm
Cadmium	mqq 10.0>	1.0 ppm
Chromium	<0.01 ppm	mqq 0.2
Lead	mqq 1.0>	maga 0.2
Mercury	mqq 200.0>	0.2 ppm
Selenium	mqq 200.0>	1.0 ppm
Silver	mqq 10.0>	mqq 0.2
Phenol	<2 ppb	NA
o-Cresol	dqq Z>	NA
p,m-Cresol	<5 ppb	NA
Dibutyl Phthalate	5,910 ppb	NA
Butyl Octyl Phthalate	2270 ppb	NA
Formaldehyde	dqq 8.0>	NA
Methyl Alcohol	<0.3 ppb	NA
Ethyl Alcohol	15 ppb	NA
Methyl Ethyl Ketone	ágg E	NA _.
To luene	7 ppb	NA

SUMMARY AND DONOLUSIONS

- 1. Considerable data has already been accumulated in connection with the dump sites on Spaulding Fibre Company, Inc.'s property.
- 2. This data indicates that:
 - a. there has been no evidence of contaminant leaching from the sites or of groundwater contamination,
 - b. the geology of the soil in the area shows a reddish brown silty glacial till down to and below the water table. This is firm, uniform and impermeable,
 - c. soil natural permeability coefficients (k) range from 2.0×10^{-5} to 2.1×10^{-7} cm/sec.,
 - d. EP toxicity tests on Spauldite® dust do not show the material to be a hazardous waste as as defined by RCRA.
- 3. In view of the data, it is felt that Phase II work at the sites is not required, but that the on-going monitoring program be continued.

Many domestic-supply wells penetrate from I foot to a few feet into the soluble rocks and produce small but adequate yields. On the other hand, industrial wells that were intended to produce large supplies of water give a truer picture of the water-supply potential of the rocks. Data on industrial wells show that the Camillus Shale will yield as much as 1,200 gpm and the limestone unit as much as 300 gpm and probably more. But the data also show that the rocks produce low yields at places. This is shown by such wells as 301-848-1 which was drilled to obtain a large supply for an industry but which yielded only 30 gpm. The water-bearing zones obviously are unevenly distributed through the rocks. Factors that control the occurrence of the water-bearing zones cannot be evaluated at the present time to the extent necessary to predict exactly where the zones occur.

The Lockport Dolomite is the least productive unit of the soluble rocks. Within the Erie-Niagara basin yields of wells in the Lockport range from about 4 to 90 gpm. Depth of the wells range from 20 to 70 feet. Most of the deeper wells were drilled where the depth to bedrock is greatest. Domestic-supply wells generally are finished in the fracture zone at the rock surface or in a bedding joint within the uppermost 30 feet of the rock. It is usually not necessary to drill deeper into the Lockport if only a small supply is needed.

Drilling deeper in an attempt to intersect additional bedding-plane openings at depth would provide higher yields but, generally, at the expense of lower water levels and therefore higher pump lifts. Johnston (1964) collected data on a much larger number of wells along the outcrop belt of the Lockport Dolomite than were inventoried in the Erie-Niagara basin. He found that wells drawing water from the lower 40 feet of the Lockport (the northern part of the outcrop area) yield from 1/2 to 20 gpm and have an average yield of 7 gpm. Wells finished in the upper part of the Lockport (the southern part of the outcrop area) yield from 2 to 110 gpm and have an average yield of 31 gpm. Yields of as much as 50 or 100 gpm are possible from the Lockport in the Erie-Niagara basin but would be exceptional.

CAMILLUS SHALE

Bedding and lithology

The Camillus Shale lies above the Lockport Dolomite and crops out to the south of where the dolomite is exposed. Exposures of the Camillus Shale are rare in the Erie-Niagara basin because of the low relief of the outcrop area and the cover of glacial deposits. Geologists who have studied the Camillus in the study basin agree that it consists mostly of gray shale. (For example, see Buehler and Tesmer, 1963, p. 29-30.) Subsurface data, on the other hand, indicate that a considerable amount of gray limestone and dolomite is interbedded with the shale. Along with these carbonates, gypsum comprises a significant part of the Camillus Shale. Some of the gypsum beds are as much as 5 feet thick. Gypsum also occurs in the Camillus as thin lenses and veins. Table 1,

Table 1.--Log of a gypsum-mine slope near Clarence Center

(Site 300-839-A)

	Depth below
Log	land surface (feet)
Top so il, subsoil, gravel and clay	0-25.5
Soft gray limestone mixed with clay	25.5-27.5
Soft dark-gray limestone	27.5-29.5
Soft shaly limestone, thin bedded	29.5-38.0
Crushed dark-gray limestone interbedded with 2-inch seams of brown limestone	38.0-40.8
Dark-gray limestone interbedded with seams of gypsum 1 1/2 to 3 inches thick	40.8-43.6
Hard gray limestone interbedded with thin streaks of gypsum 1/8 to 1/2 inch thick	43.6-45.1
Soft gray limestone	45.1-49.1
Hard gray limestone interbedded with thin streaks of gypsum	49.1-52.1
Hard gray limestone	52.1-57.6
Gypsum	57.6-58.3
Brown limestone	58.3-59.3
Gray li me stone	59.3-61.3
Soft, crumbly green-gray material (shale)	61.3-64.3
Mottled rock rich in gypsum	64.3-65.1
Soft brown limestone	65.1 - 65.7
Cap rock hard dark-gray limestone	65.7-66.8
Soft sh al y material	66.8-66.9
Gyps um	66.9-71.4

which is a log compiled during construction of a mine slope, illustrates the occurrence of gypsum and the predominance of carbonate rocks in some parts of the Camillus.

Though the Camillus dips southward at approximately 40 feet to the mile, the dip is not uniform. Gypsum miners say the formation "rolls," to describe the gentle folding of its beds. The formation is marked by broad, low folds with amplitudes of a few feet and spacings of a few hundred feet between crests. The fold axes generally are east-west.

Water-bearing openings

The extensive beds of gypsum make the Camillus Shale unique among the shale formations of the basin. The importance of the gypsum lies in its solubility; gypsum is far more soluble than the enclosing rocks, whether shale, dolomite, or limestone. Where gypsum has been dissolved, openings exist for the passage and storage of water.

The effect of the solution of gypsum on the water-bearing properties of the Camillus Shale (and other rocks) can be readily appreciated. Where the topmost beds of the Camillus crop out at the base of the falls of Murder Creek at Akron, the Camillus seems to be an impermeable shale. If one judged the water-bearing properties of the Camillus on the basis of this outcrop alone, he would be wrong. Yields of water wells and drainage into gypsum mines prove that large volumes of water do move through the Camillus.

Clues to the nature of the water-bearing openings in the Camillus can be obtained by considering some of the circumstances where large volumes of water were obtained. About 1885, the Buffalo Cement Company located a 4-foot thick bed of gypsum only 43 feet below land surface by test drilling in Buffalo on Main Street near Williamsville. A shaft was sunk with the intention of beginning a subsurface mining operation, but when the gypsum was struck the shaft was flooded with ground water. The report is that ".... a pump with a capacity of 2,000 gallons per minute failed to make any impression upon it [the water] and the attempt was abandoned" (Newland and Leighton, 1920, 209-210).

In 1964, a gypsum mine near Clarence Center received an unexpected inflow of ground water. Several hundred gallons of water per minute continuously enters the mine at a place about midway down the entry slope. This water is pumped out by a drainage system diagrammatically shown in figure 6. Ordinarily, only small seeps occur in the remainder of the mine from roof bolts and small cracks in the roof. At a distance of more than a mile from the entry slope, the working face intersected an unplugged drill hole. Water poured into the mine at an alarming rate until the hole was plugged with much effort.

Large-yield wells, such as those at Tonawanda and North Tonawanda, obtain water from thin intervals of gypsum-bearing rock. The gypsum in the Camillus Shale obviously is related to the occurrence of large quantities of water. Gypsum is a highly soluble mineral and is

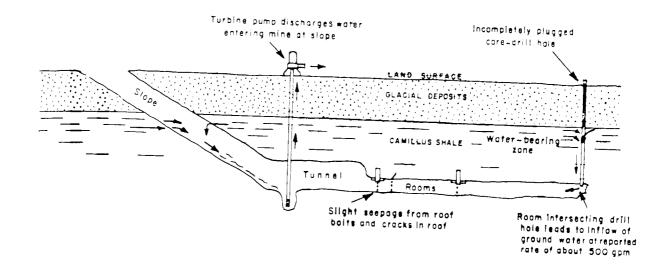


Figure 6.--Occurrence of ground water in the Camillus Shale at a gypsum mine near Clarence Center.

Very likely the openings in the Camillus that yield copious amounts of water were formed by the solution of gypsum by ground water. The water-bearing zones are mainly horizontal because most of the gypsum occurs in those gypsum zones actually exposed to circulating ground water can be widened by solution. The gypsum must be in contact with an open fracture through which the water can move. If no open fracture exists, the gypsum shown in figure 6 is a further illustration. The 4 1/2-foot thick bed that is mined at a depth of 66.9 feet (table 1) is dry because of the lack of vertical fractures to transmit water to it.

as

The solution-widened water-bearing zones occur at various depths and stratigraphic horizons in the Camillus. The existence of such zones is borne out by well data. For instance, wells 303-850-1 and -2 are 90 feet apart and obtain water from the same 2- to 3-foot thick zone at a depth of 67 to 68 feet. Such zones may be continuous for as much as l or 2 miles but information is not available on the extent of individual zones. The gypsum occurs principally in lenticular beds. The thicker beds may be 3 or 4 miles in lateral extent. The thinner beds can be expected to be much smaller in extent.

A zone of fracturing and solution extending several feet below the rock surface yields relatively small but sufficient water supplies for domestic use. This zone appears to be present throughout the area and is unrelated to stratigraphic position.

Hydrologic and hydraulic characteristics

The Camillus Shale forms a low topographic trough split down the axiby Tonawanda Creek. Ground water that enters the formation discharges mainly to the creek. Little water is discharged to the small, barely incised streams on the Camillus. These streams are dry much of the year.

Coefficients of transmissibility given in table 2 were computed for the Camillus Shale on the basis of specific capacities of wells penetrati a considerable thickness of the aquifer, by the method described by Walto (1962, p. 12-13).

Table 2.--Specific-capacity tests of wells finished in the Camillus Shale

Well number	Pumping rate (gpm)	Duration of pumping (hours) e: estimated	Drawdown (feet)	Specific capacity (gpm/ft)	
<u>a</u> / 258-853-1	1,090	e8	53	2 }	40,000
-2	90		22	4	7,000
258-855-1	500	e8	17	29	55,000
-2	1,000	e8	26	38	70,000
-3	1,500	e8	38	39	70 ,0 00
303-850-1	700	24	10	70	• •
-2	660	e8	8	83	

a/ Well also penetrates water-bearing zone in Lockport Dolomite.

The large specific capacities of wells 303-850-1 and -2 probably result in part from recharge induced from Sawyer Creek. Measurements of recovery of water levels in well 303-850-1 were made when well 303-850-2 was shut down after a year of continuous pumping. From these data, a coefficient of transmissibility of about 80,000 per foot and a coefficier of storage of 0.025 were computed. The computed transmissibility is about half the transmissibility that would have been indicated from specific capacity if recharge were not induced from Sawyer Creek.

Yields of wells

The Camillus Shale is by far the most productive bedrock aquifer in the area. Except in the vicinity of Buffalo and Tonawanda, where industrial we'ls produce from 300 to 1,200 gpm, no attempt has been made to obtain large supplies from the formation. However, the inflow of water to gypsum mines near Clarence Center and Akron indicate that large supplies are not necessarily restricted to the Buffaio and the Tonawanda area. Two examples of large flows of water encountered in gypsum mining have already been mentioned. Pumpage from gypsum mines near Clarence Center (including the mine mentioned previously) is substantial. The water pumped is discharged to Got Creek. On July 2, 1963, the creek had a flow of 2.1 mgd (million gallons per day) about half a mile downstream from the mines, that was due almost entirely to the pumpage. Water for industrial use is pumped from a flooded, abandoned gypsum mine at Akron. This pumpage, at a rate of 500 to 700 gpm, has had no appreciable effect on the water level in the mine.

Probably the larger solution openings are most common in discharge areas near Tonawanda Creek and its tributaries and near the Niagara River; the flow of ground water becomes concentrated as it approaches the streams to which it discharges. Other discharge areas, such as low-lying swampy areas and headwaters of small streams that have perennial flow, are likely places to drill wells.

LIMESTONE UNIT

Bedding and lithology

The term "limestone unit" in this report is applied to a sequence of limestone and dolomite overlying the Camillus Shale. The limestone unit includes the Bertie Limestone at the base, the Akron Dolomite, and the Onondaga Limestone at the top. The lithology and thickness of these units are shown in figure 7. The Bertie Limestone and the Akron Dolomite are Silurian in age and are separated from the overlying Onondaga Limestone of Devonian age by an unconformity or erosional contact.

The Bertie Limestone is mainly dolomite and dolomitic limestone but contains interbedded shale particularly in the thin-bedded lower part of the formation. The middle part is brown, massive dolomite, and the upper part is gray dolomite and shale whose beds are of variable thickness. The total thickness of the formation is about 55 feet (Buehler and Tesmer, 1963, p. 30-31).

The Akron Dolomite is composed of greenish-gray and buff dolomite beds varying from a few inches to about a foot in thickness. The upper contact of the Akron is erosional and is often marked by remnants of shallow stream channels. Thin lenses of sandy sediments lie in the bottoms of some channels. The thickness of the formation is generally between 7 and 9 feet (Buehler and Tesmer, 1963, p. 33-34).

-	2 do.	86.			11.7	,		Shale	900	ð, I	6-16-61			•	
258-813-	·1 🐠.	M, Loweland		Dr1				dio.	900	12.1	6 - 26 -6)	5-		υ	Anati, crons, tamp 44.0
	-1 4 0.	dro.		Drl	11	6		30.							
Well number	County	0-mer	red	Type of well	Depth of we'l (feet)	Olameter (Inches)	Depth to bedrock (feet)	Water-bearing material	Attitude above sca level (fcet)	Below land surface (feet)	level Date	Method of lift	Estimated pumpage or flow (gallons per day)	Use	Remarks
258-815-1	Genesee	F, Pack		Drl	31	6		Shale	920	8.1	6-26-63	Sw	50	Д	Anal, iron; temp 49.0, yield 12 ypm (r),
258-822-1	do.	E, Lawis	1964	Drl	41.6	6	41.6	Sand	870	9.1	8-19-64	Sw	400	Aq	Anal, HgS; yield It gpm (r).
258-827-1	do.	E, Powenski	1952	Dri	36.5	6	a 34	Limestone	835	31.3	8-19-64	Jet	250	D	H ₂ S; yield / gpm (r).
* 258-833-1	Erio	B. Fields	1960	Orl	62.6	6	a13	do.	775	p22.7	8-18-64	Sub	300	0	Anal.
258-837-1	do.	R. Bowman	1956	Drl	76.2	6	a 22	do.	740	19.4	8-18-64	Jet	300	٥	Φο.
258-843-1	do.	V. Voss		Drl	62	8		Camillus Shale	615	Flow			5,000	A	Anal; H2S; temp 50.8, 8-14-64; flows about 5 ypm at LS.
258-853-1	do.	Linde Div., Union Carbida Corp.	1944	Orl	r375	8	87	Camillus Shale and Lockport Dolomite		r,pli5	1944	Tur		U	H ₂ S; drilled to 130-rr depth in 1963 and deepened in 1944; "black" water entering from Lockport Orlumical after deeping made well unusable; yield 3,000 gpm (r), pumping text, 1,090 gpm, dd 53 tr.
-2	do.	do.	1944	Arl	r375	8	86	do.	600	r.p82 ~	1944	Tur	**	u	H2S; drilled to 157-ft depth in 1943 and deepened in 1944, water obtained at 90 ft from a gypsiterous zone in Camillus Shale and "black" water at 312 ft from the tockport Botomite which was first penetrated at 288 ft; yield from upper waterbearing zone 90 gpm, dd 22 ft; lower zone was nut tested.
× 258-855-1	do,	Duntop Tire & Rubber Ca.	1943	Ðrl	r137	12	69	Camiffus Shale	590	p36	10-27-52	fur		٠	H ₂ S; pumping rate 1,000 gpm (r); pumping test 500 ypm, swl 36 ft, dd 17 ft; this well and well 258-855-2 yfeld a combined total of 600,000 ypd.
	do.	de.	1943	Ðrl	r 139. <i>1</i>		71	da.	590	p54.3	7-16-64	Tur		•	H2S; pumping rate about 1,000 gpm (r), pumping test 1,000 gpm, swl 36 ft, dd 26 ft; this well and wall 258-B55-1 yield a combined total of 600,000 gpd.
× -3	do.	do.	1952	Drl	r120			do.	592	р39	10-27-52	Tur		1	H ₂ S; pumpfng test 1,500 gpm, swl 39 ft, dd 38 ft.
259-809-1	Genesee	O-AT-KA MINE Products Cooperative, Inc.	1963	Drl	r60	20, 16		Sand and grave?	890	r15	4-27-62	fur	1,000,000	1	Anal; screen, 13 1/8-inch diameter, 10 ft of 60-stol. 10 ft of 125-slot, from 40-60 ft; pumping rate about 1,200 apm (r); pumping lest 600 qpm, swi 15 ft; dd 1.5 ft (r).
-2	do.	City of Batavia	1963	Drl	r69	16		do.	890	14.0	5- 8-63	Tur		PS	Anal; H25; screen, 16-inch telescope, 125-stor, 52.9-69 ft; pumping rate 1,000 gpm
-3	do.	do.	1962	Drl	54,1	8		do.	890	11.7	5- 6-63			ī	Depth 61 ft (r); screen, 6-inch diameter, 100-slot, from 51-61 ft, pumping test 235 ypm, swi 18.3 ft, dd 0.5 ft (r), Ow,
-4	do.	O-AT-KA MITE Products Cooperative, Inc.	1963	Orl	\$2.2	8		do.	890	p13.0	5- 1-63	••	•-	Ť	
-5	dro.	City of Betevia	1962	Drl	60,2	8		do.	890	13.7	5- 8-63		400,000	Ţ	Depth 70 ft (r), screen, 6-inch diameter, 100-slut, from 60-70 ft, pumbping test (r), 235-259 gpm, swi 18,5 ft, dd 0,5 ft after 24 hours discharge.
-6	do.	do.	1963	Drl	r 75	16		do,	895	r14.2	5-27-63	Tur		PS	Screen, 16-inch diameter; test pumped at 1,000 ypm.
-7	do.	do.	1963	Drl	r60	8		dra.	890	r13.7	2-15-62		400,000	x. T	H ₂ S (r); pumping test 200 gpm, swl 13,7 ft, dd 4,4 ft. aftar 24 ho urs discharge.
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259-818-1	do.	Bittermen Bros., Inc.		Drl	- 18.3	12, 6		do.		6.6	9-17-63	Sw		C. D	
259-820-1	do.	A, Winters	1960	Drl	22.6	6		Limestone	880	7.4	9-17-63	Sw	500	C, D	
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Uncontrolled Hazardous Waste Site Ranking System

A Users Manual (HW-10)

Originally Published in the July 16, 1982, Federal Register

United States
Environmental Protection
Agency

New York State Department of Environmental Conservation

584 Delaware Avenue Burfalo, NY 14202



Peter A. A. Berie, Commissioner

August 30, 1978

Jack Kehoe, Project Engineer Spaulding Fibre Company Inc. Industrial Plastics Division 310 Wheeler Street Tonawanda, NY 14150

Re: Industrial Waste Disposal Area

Tonawanda (T) Erie County Inspection Date: 8/24/78 Inspection Time: 12:30 p.m.

Dear Mr. Kehoe:

Representing the Solid Waste Unit of the Department of Environmental Conservation Robert Long made an inspection of all industrial refuse disposal areas located on the Spaulding Fibre Company property at the above noted date and time. Accompanying Mr. Long at the time of the inspection was Mr. R. Sweeney, Senior Sanitarian, Pure Waters Unit and yourself. As a result of that inspection, the following industrial waste problems were identified:

- Dumping in an open trench on thesite were several plastic bags containing asbestos and glass waste along with a quantity of zinc hydroxide and diatametous earth. Surface water was also present in the bottom of the trench.
- 2. Adjacent to the open trench and stockpiles on the ground were 50-60 steel drums filled with scrap resin waste eg. epoxy. Several of these drums were leaking their contents onto the immediate area. Also it was noted that 700 steel drums containing a similar waste, had been buried in trenches nearby. These drums supposedly had been punctured and then covered over with five feet of soil material.

3. Docated within 3.6% of the open trench was a large quantity of unidentified material which had been spread directly on the ground. No information was available for this material. You are to immediately inform this office as to the composition of this material. 4. A completed waste disposal area located at the end of the facility has been covered with soil and graded. As indicated, this area was used for the disposal of asbestos and glass waste. The trench method of operation has been used in this area. Soil erosion was evident in this area indicating a necessity for final grading and seeding of the area. 5. Located directly adjacent to the incinerator building were a number of large holding tanks used for waste oil storage. An excessive amount of oil and water spillage was evident in this area due to poor control measures. Although a soil berm exists around the perimeter of these tanks, much of the spillage has occurred outside this area. At the time of the inspection, waste waters were being discharged directly on the ground in close proximity to the oil storage area. 6. On the Gibson Street side of the facility an area was being used for the storage of empty steel drums. An excessive amount of leakage was found in this area, with much of the immeidate soils saturated with the liquids. The remedial action necessary for the rectification of these conditions cannot be determined by this office until we receive a complete analysis of all wastes generated at the Spaulding Fibre Company Facility. Enclosed are an Application for Treatment or Disposal of an Industiral or Hazardous Waste Stream and a Leaching Potential Test Report which are to be completed and returned to this office within ten (10) days. Until we receive these forms from your office and are able to analyze the contents, you are directed to cease all disposal of industrial wastes on the Spaulding Fibre Company premises. To do otherwise will be in violation of Part 360 of the Environmental Conservation Law. If you have any questions regarding the above, feel free tocontact me at 842-3837. Very truly yours, Robert J. Mitrey, P.E. Regional Solid Waste Engineer RJM:dd Enclosure

New York State Department of Environmental Conservation

584 Delawase Avenue Buffalo, New York 14202



Peter A. A. Berle, Commissioner

September 11, 1978

Mr. Jack Kehoe, Project Engineer Spaulding Fibre Company, Inc. Industrial Plastics Division 310 Wheeler Street Tonawanda, New York 14150

Dear Mr. Kehoe:

Sapulding Fibre Industrial Disposal Area

This is to confirm the meeting held on Sept. 6 as referenced above between you and the writer. The following was discussed regarding your industrial wastes:

- 1. There is presently a 85'x85'x4' deep concrete pit that is being used for the deposit of zinc hydroxide. You are advised to inform this office as to the exact composition of this material and how long it will be stored in this facility. As you stated, you are looking into the possibility of financial recovery from this operation.
- 2. The second industrial waste discussed was the disposal of polyethylene bags containing 50% phenolic resins and 50% glass or asbestos. It was agreed that on or before September 27 you would forward to this office test results on the leachability of this material and also a permeability test on the soil to be used in the area of excavation. Previously this material was placed into two ply polyethylene bags and buried in clay pits to a depth of 15' with the top 3-5' covered with clay. Presently these bags are being stored in a warehouse awaiting approval from this Department for their final disposition.
- 3. The third industrial waste discussed was that of 700 drums containing certain chemicals (see attached letter) on an area of one half acre located on your industrial property. You were advised to initiate a sampling program to determine whether or not any of these chemicals are leaching into the groundwater. It was agreed that by September 20 you would submit a letter to this office outlining your sampling program. This is to include three monitoring wells if you are unable to determine the correct direction of flow of the groundwater. If the direction is known and can be proven, then only two wells will be necessary, one well upgradient of the disposal area and one well downgradient. On or before October 4, these wells are to be placed and the sampling program

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to be begun. Sampling should be undertaken for phenols, antimony and TOC or COD.

Lastly, it was discussed that you would submit to this office the final disposition of any future burial of chemical wastas. You stated these barrels would be stored in another warehouse until you determine your final method of disposal which will possibly be haused to a secure landburial.

Again, you were informed that you are not to bury any industrial waste on your property until permits have been received by this office.

If you have any questions on the above, please call this office at 716/842-3837. Very truly yours,

Robert J. Mitrey, P.E. Regional Solid Waste Engineer

RJM:egb Att.

cc: E.C.D.E.P.

New York State Atlas of Community Water System Sources

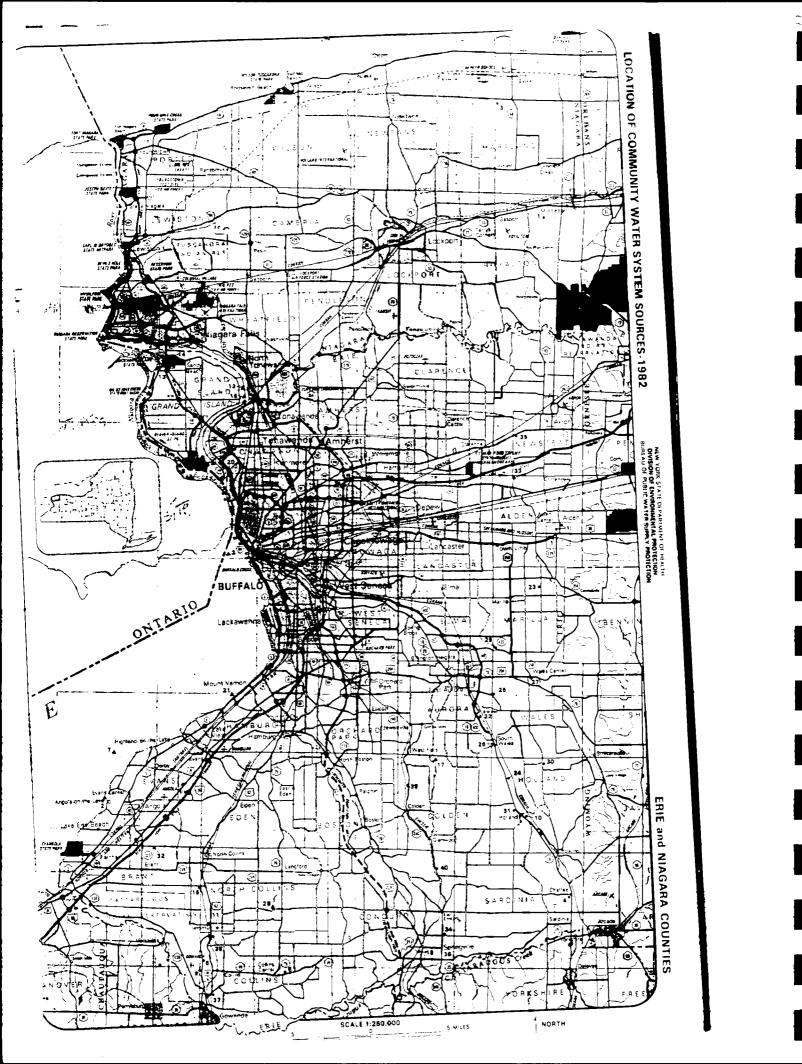
NEW YORK STATE DEPARTMENT OF HEALTH
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BUREAU OF PUBLIC WATER SUPPLY PROTECTION

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NIAGARA COUNTY

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TITLE: THREE MILE VICINITY MAP

SITE :

SPAULDING FIBRE CO.
TONAWANDA, N.Y.

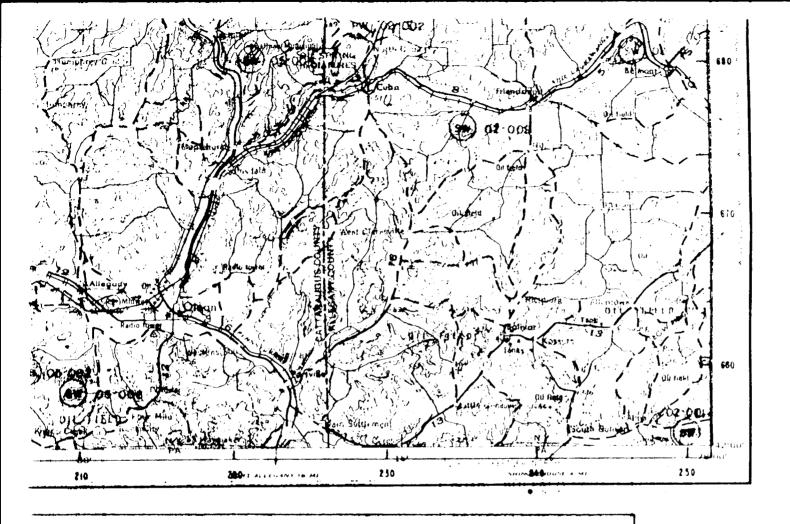
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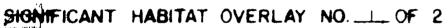
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QUAD TONAWANDA WEST, N.Y.

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W YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF FISH AND WILDLIFE BUREAU OF WILDLIFE

ENERARED FOR: SIGNIFICANT HABITAT UNIT

WILDLIFE RESOURCES CENTER

DELMAR, NEW YORK 12084

(518) 457-5762

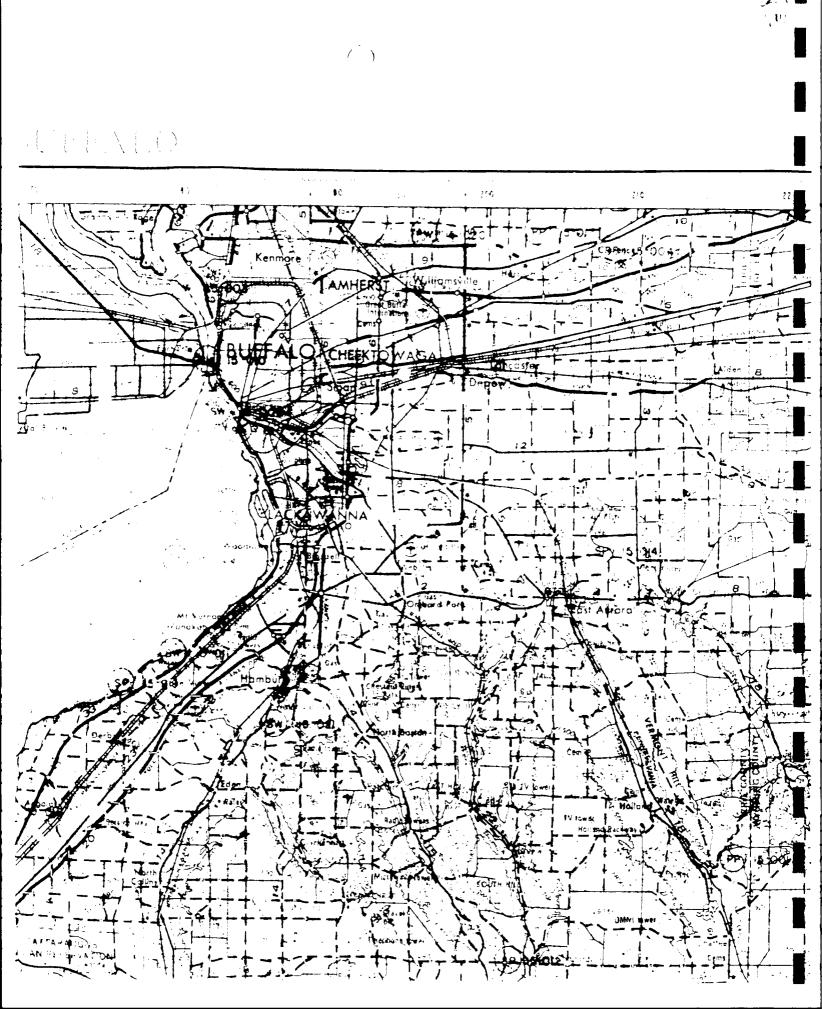
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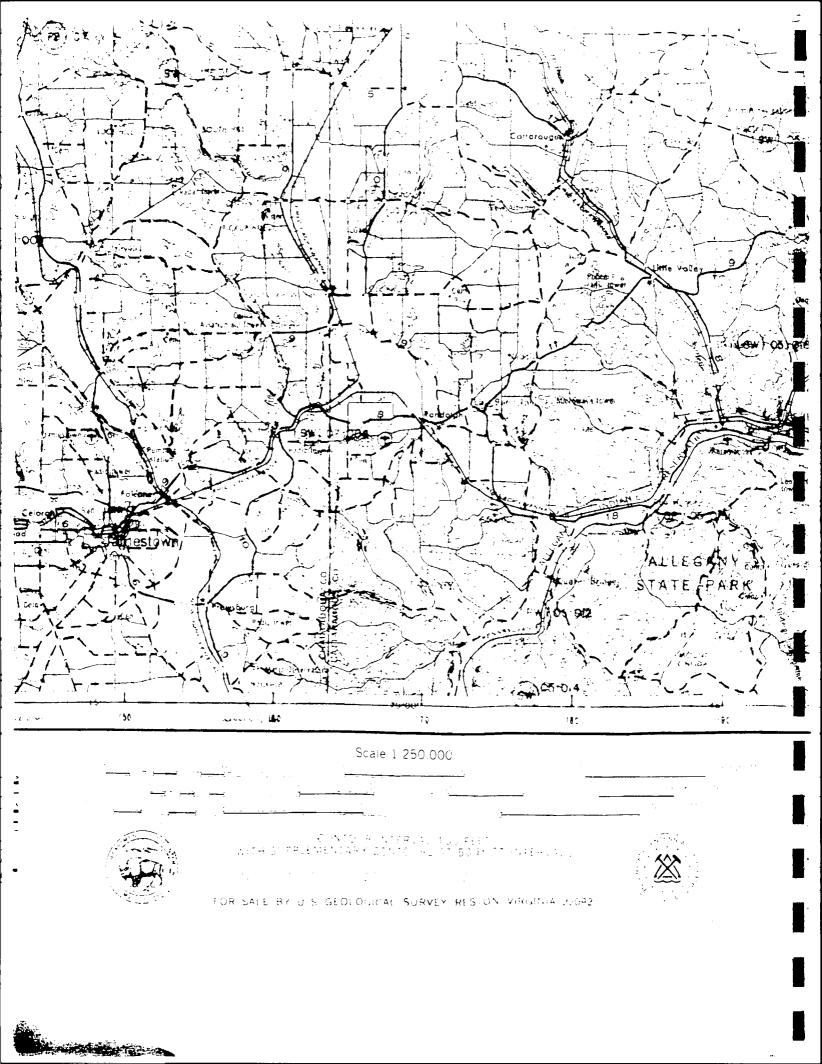
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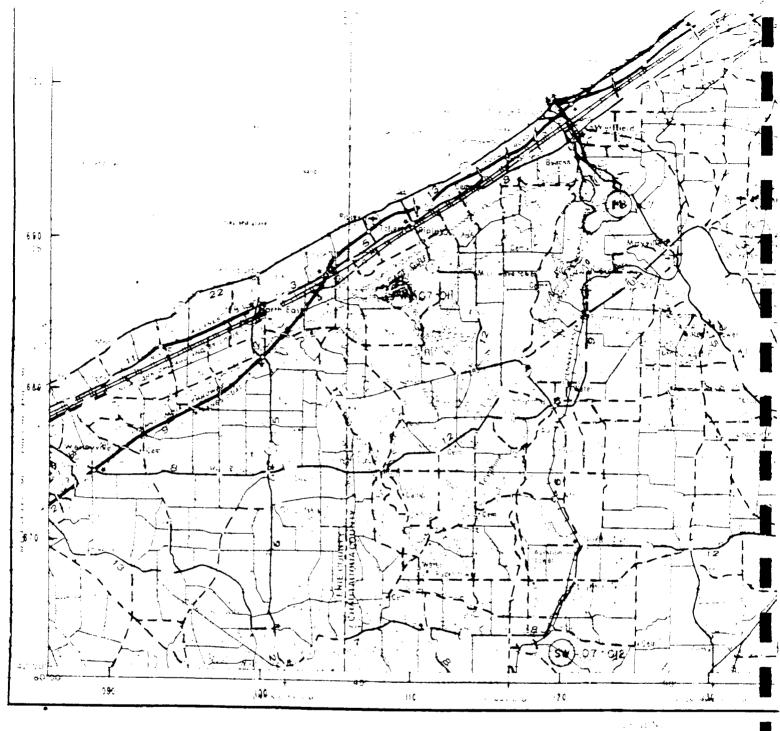
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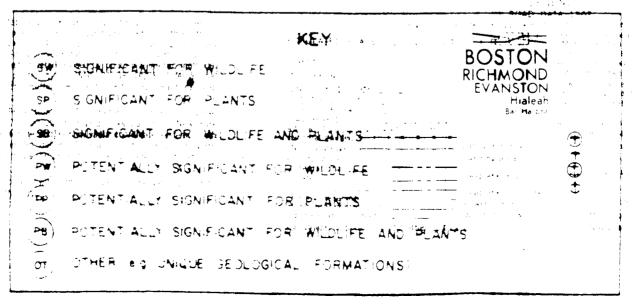
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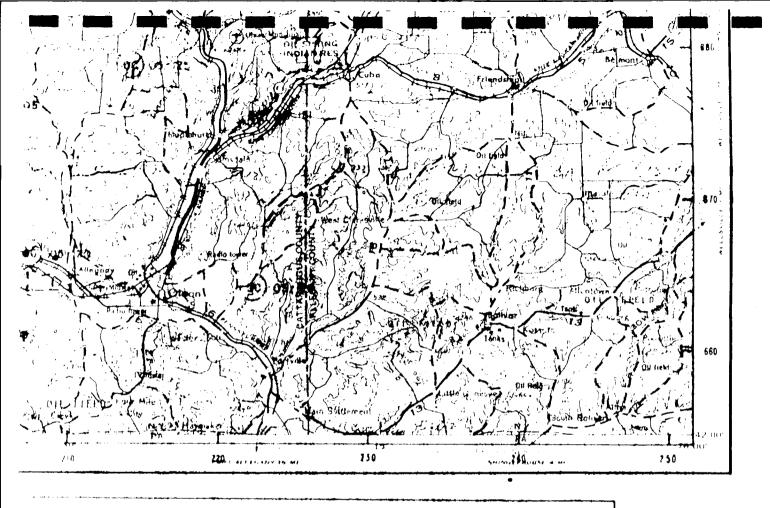
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SIGNIFICANT HABITAT OVERLAY NO. 2 OF 2

MIN YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF FISH AND WILDLIFE MUREAU OF WILDLIFE

PREPARED FOR: SIGNIFICANT HABITAT UNIT

WILDLIFE RESOURCES CENTER

DELMAR, NEW YORK 12054

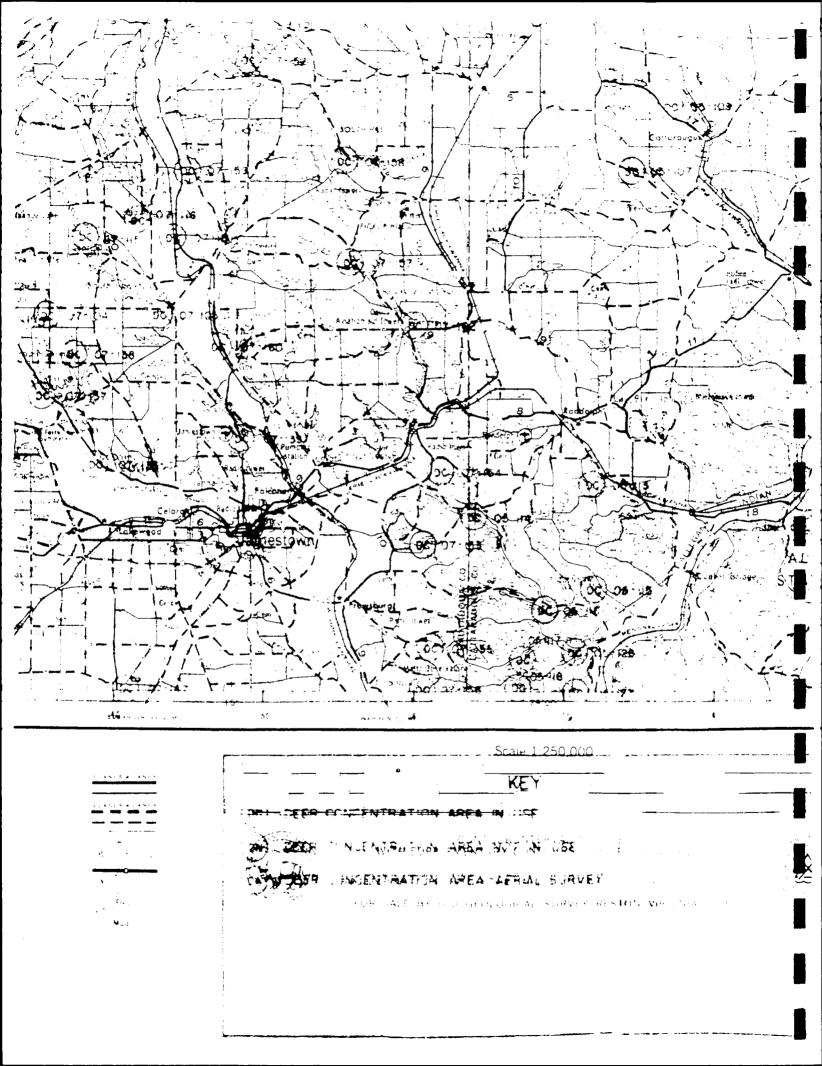
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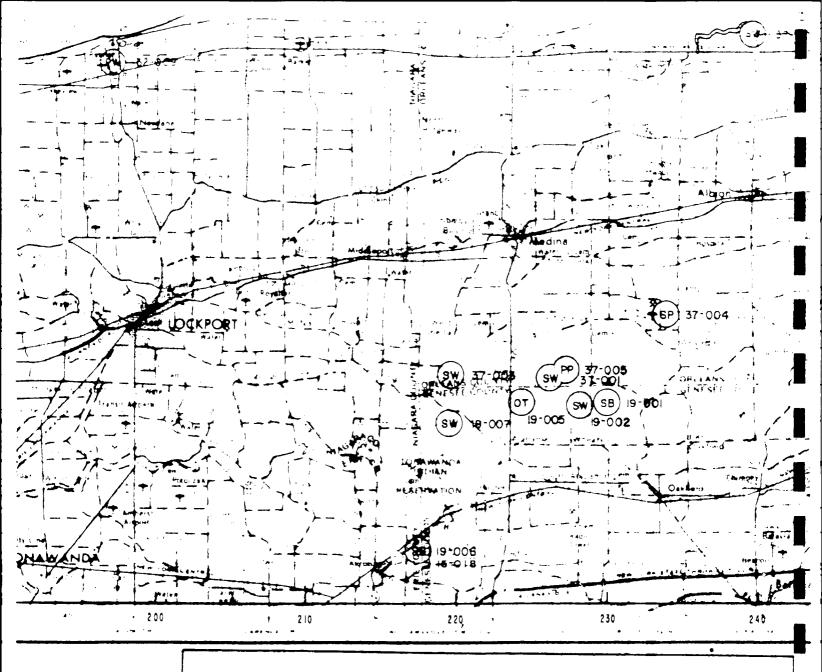
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SIGNIFICANT HABITAT OVERLAY NO. _ OF 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION



DIVISION OF FISH AND WILDLIFE BUREAU OF WILDLIFE

PREMARED FOR: SIGNIFICANT HABITAT UNIT

WILDLIFE RESOURCES CENTER

DELMAR, NEW YORK 12054

(518) 457-5782

PREPARED BY: HABITAT INVENTORY UNIT

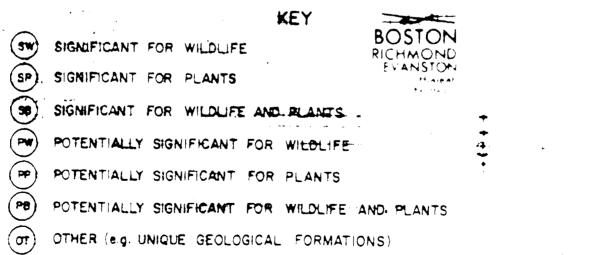
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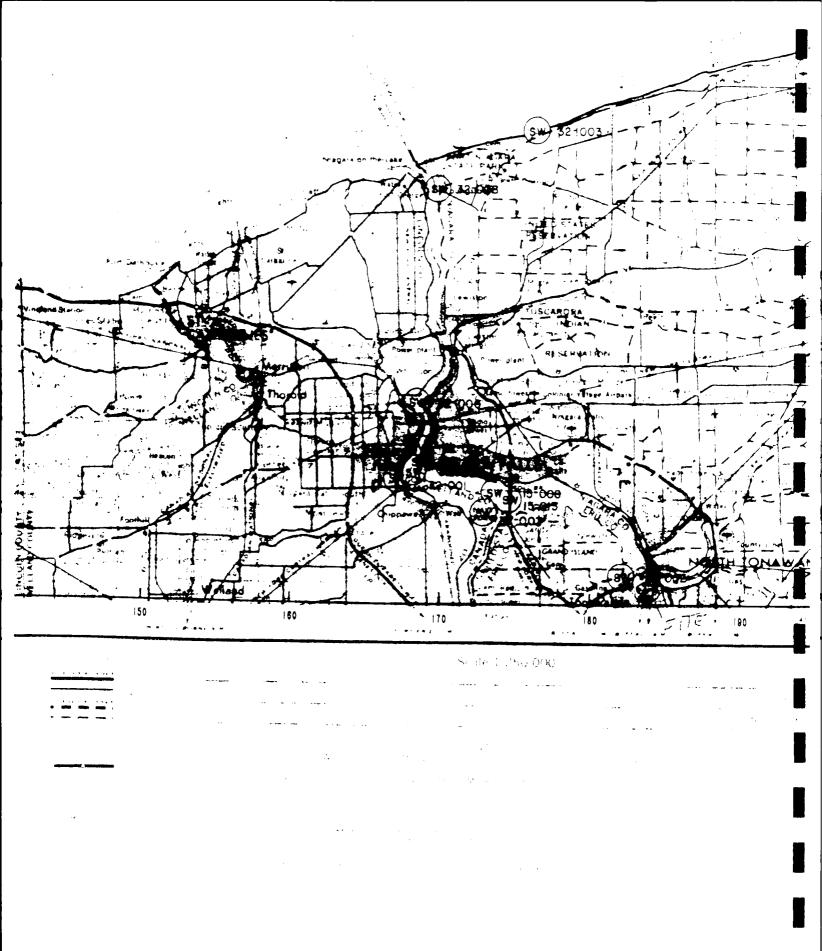
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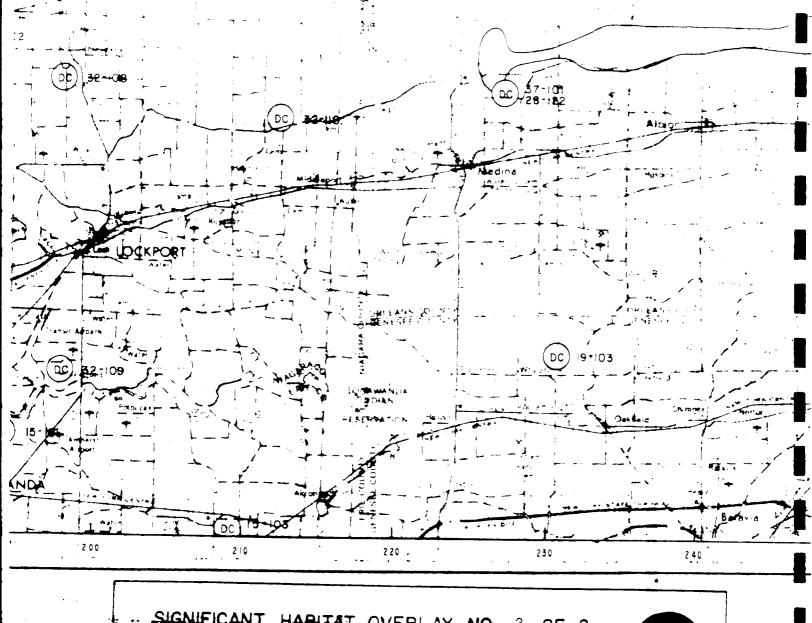
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SIGNIFICANT HABITAT OVERLAY NO. 2 OF 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF FISH AND WILDLIFE BUREAU OF WILDLIFE

PREPARED FOR: SIGNIFICANT HABITAT UNIT

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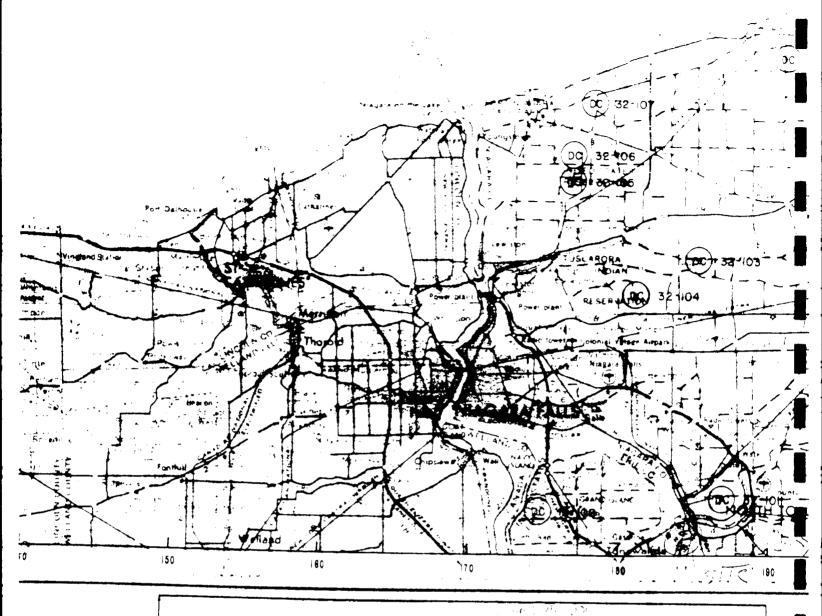
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KEY

- DEER CONCENTRATION AREA IN USE
- (DN) DEER CONCENTRATION AREA NOT IN USE
- (DA) DEER CONCENTRATION AREA-AERIAL SURVEY





ENDANGERED AND THREATENED

WILDLIFE AND PLANTS

JANUARY 1, 1986

50 CFR 17.11 and 17.12

Department of the interior U.S. Fish and Wildlife Service

RECEIVED

APR 3 8 1985

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IMPORTANT FARMLAND OF NEW YORK

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AUGUST 1977

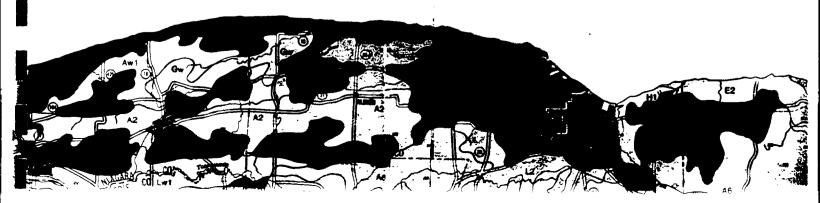
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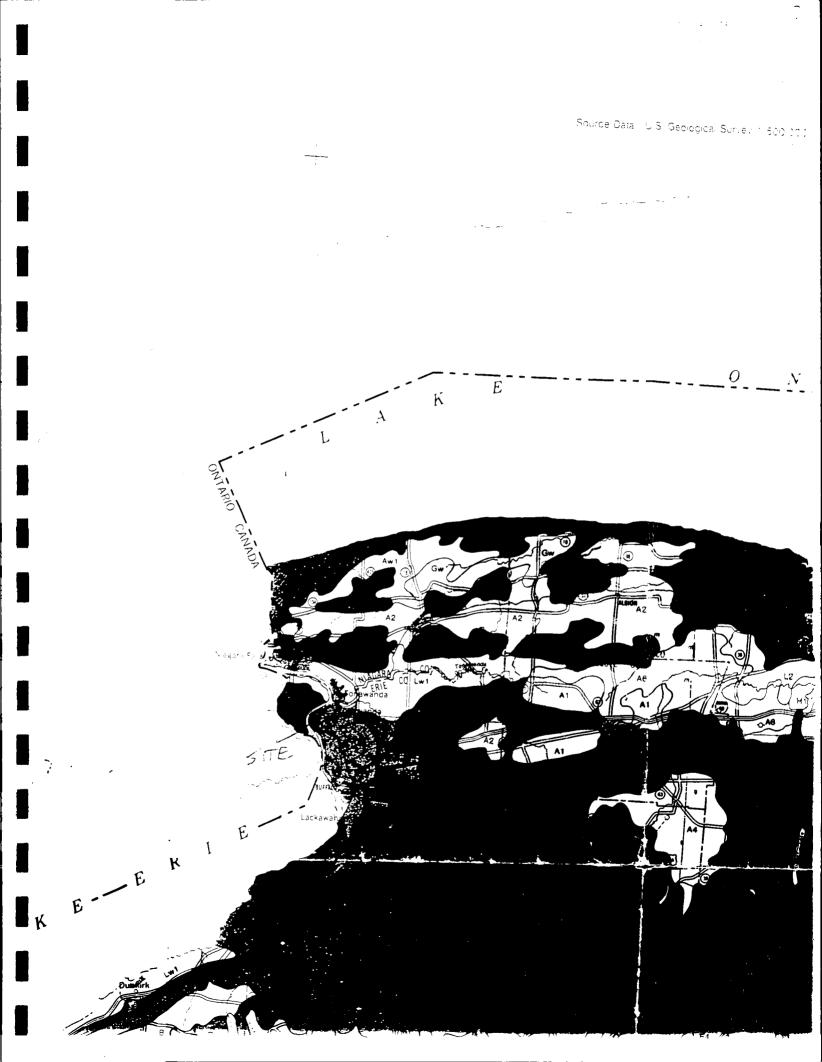
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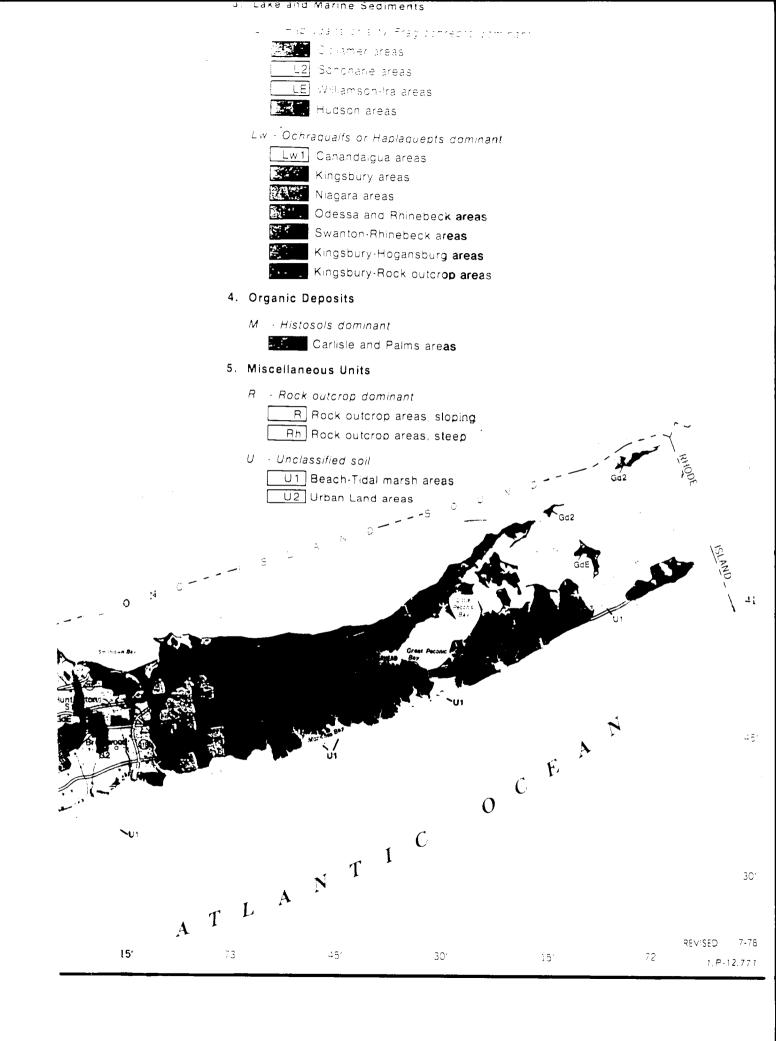
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Source Data: U.S. Geological Survey 1:500,000 Base Map

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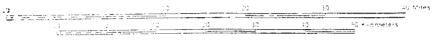
PRIME FARMLAND OF NEW YORK

INTERPRETATIONS DERIVED FROM GENERAL SOIL MAP COMPILED BY CORNELL UNIVERSITY AGRICULTURAL EXPERIMENT STATION CONSTRUCTED 1977 BY CARTOGRAPHIC DIVISION, SOIL CONSERVATION SERVICE, U.S. DEPARTMENT OF AGRICULTURE

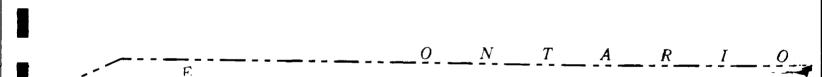
AUGUST 1979

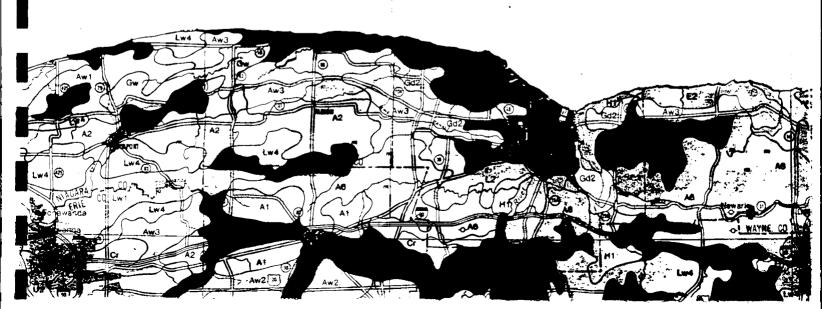


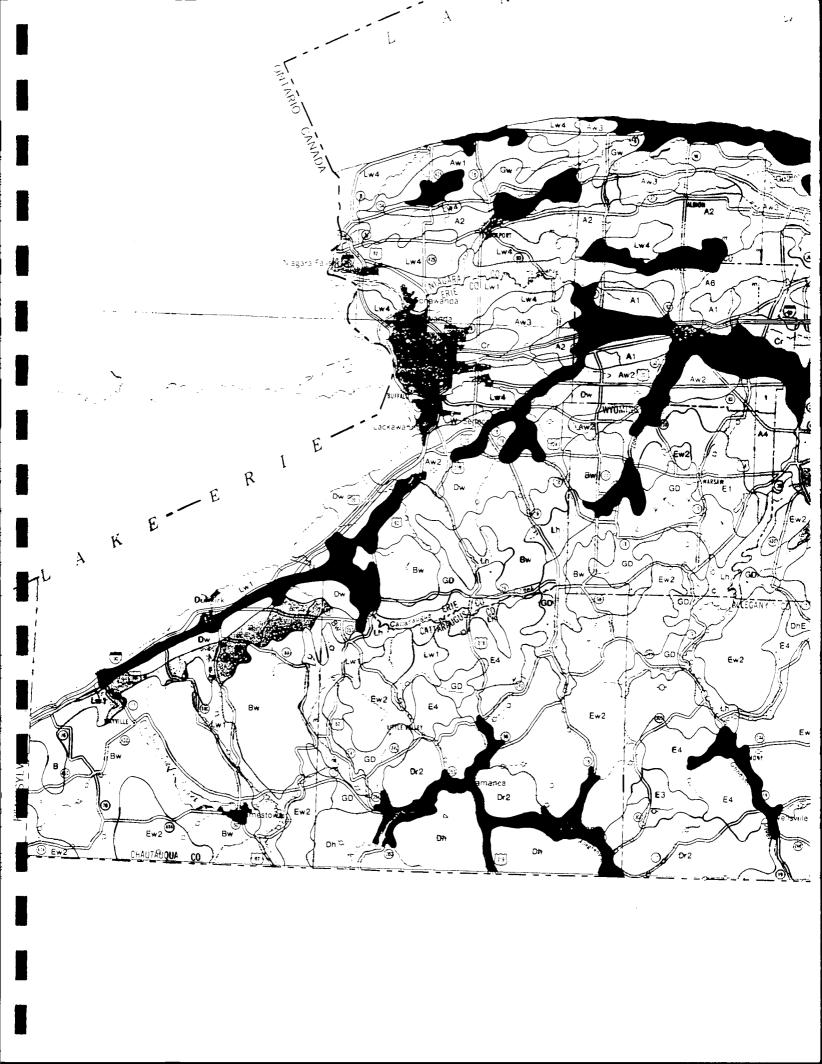
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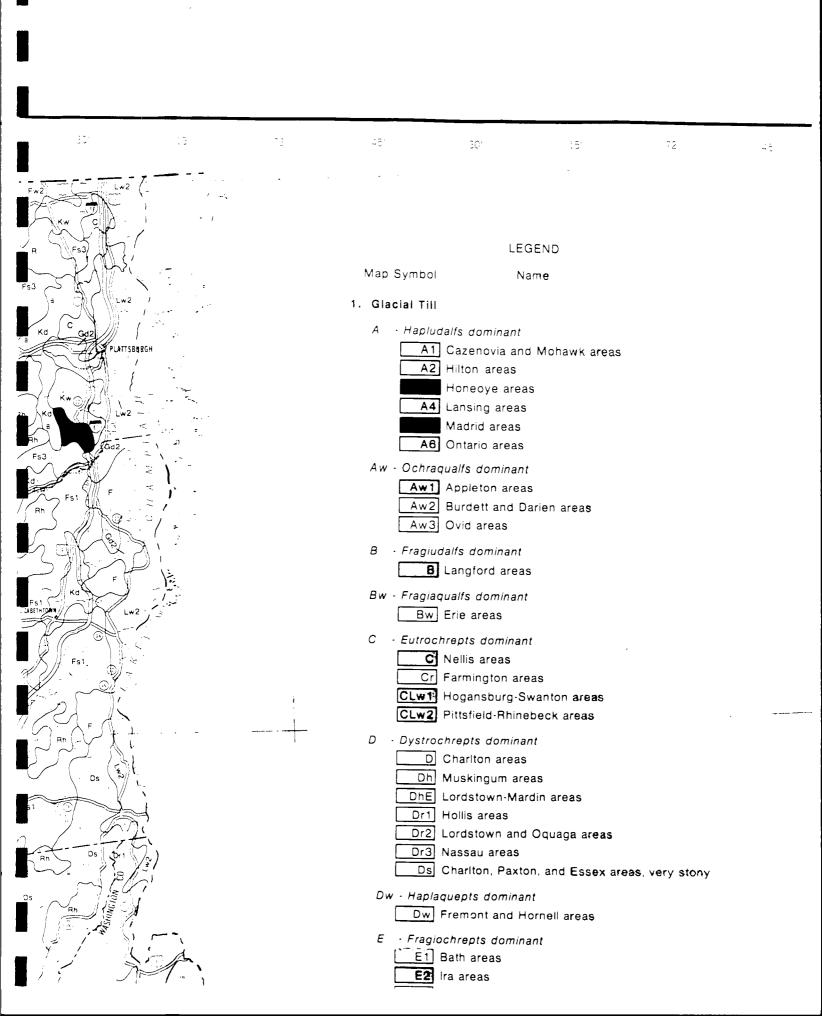


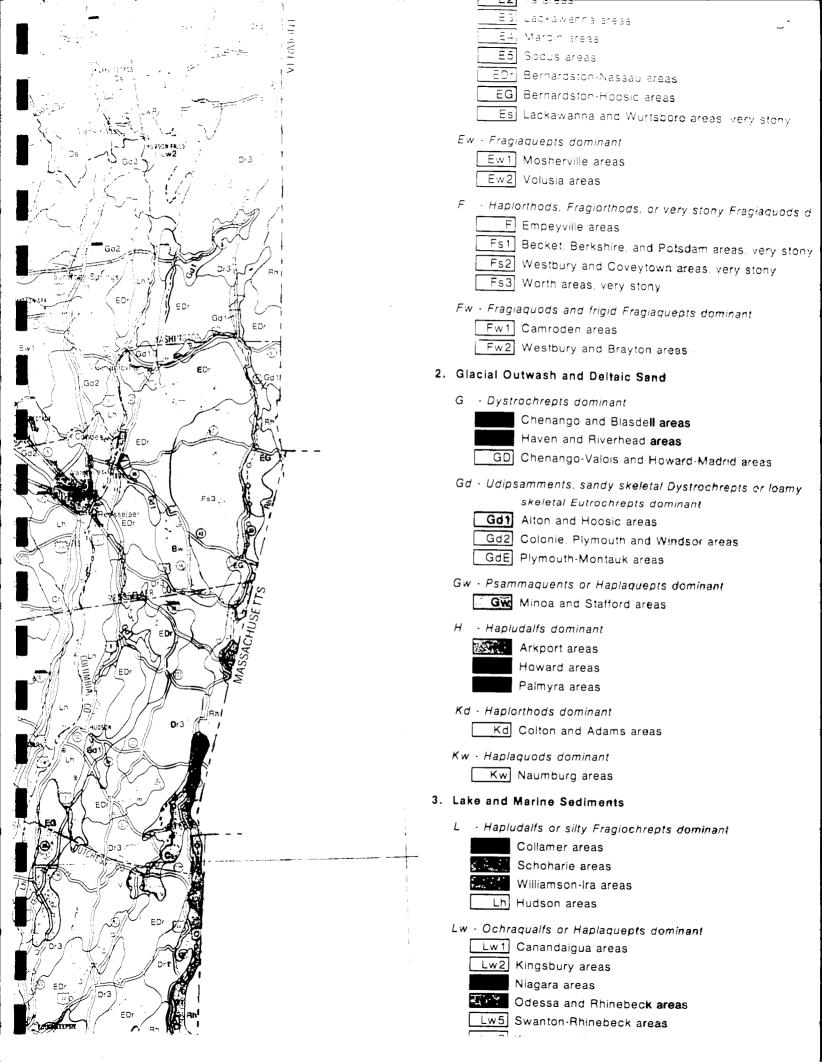
Source Data: U.S. Geological Survey 1:500,000 Base Map











Dangerous Properties of Industrial Materials

Sixth Edition

N. IRVING SAX

Assisted by:

Benjamin Feiner/Joseph J. Fitzgerald/Thomas J. Haley/Elizabeth K. Weisburger

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Reference No. 84002371 Mulhern House Listed [Wappingers Falls MRA] 09/29/84 14-16 Market St Reference No 84002376 Wappingers Falls Historic District Listed LWappingers Falls MRAI 09/29/84 Roughly bounded by South Ave , Elm, Main, Park, Walker, Market, and McKinley Sts Reference No. 84002380 Erie County Buffalo 17--21 Emerson Place Row Listed [Masten Neighborhood Rows TR] 03/19:86 17--21 Emerson Pl. Reference No. 86000689 33--61 Emerson Place Row Listed [Masten Neighborhood Rous TR] 03.19.286 33--61 Emerson Pl. Reference No. 86000691 Albright-Knox Art Gallery Listed (Albright Art Gallery) 05/27/71 1285 Elmwood Ave., in Delaware Park Reference No. 71000538 Allentown Historic District Listed OFF NY 384 04/71/80 Reference No 80002605 Blessed Trinity Roman Catholic Church Buildings Listed 317 LeRoy Ave 08 103. 79 Reference No. 79001579 Buffalo Gas Light Company Works Listea (Jackson Plant; National Fuel Gas Company) 09/01/76 249 W. Genesee St. Reference No. 76001215 Buffalo Main Light Listed IU.S.Coast Guard Lighthouses and Light Stations on the 07719794 Great Lakes IR) Buffalo River Reference Na. 84002383 Buffald North Breakwater South End Light Listed [U S. Coast Guard Lighthouses and Light Stations on the 08/04/83 Great Lakes TR1 Buffalo Harbor Reference No 83001669 Buffalo State Asylum for the Insane Listed (State Lunatic Asylum; Buffalo Psychiatric Center) 081124786 400 Forest Ave Reference No. 86003557 Buffalo State Mospital Listea (Buffalo State Asvius) 01 12/73 400 Forest Ave Reference No 73001186 Buffalo and Erie County Historical Society Listed (New York State Pavilion, Pan American Exposition) 04 . 3/86 25 Nottingham Ct Reference No. 80002606 County and City Hall Listed (Old Erie County Hall) 05/24/16

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95 Franklin St

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Reference No. 76001216
Delaware Avenue Historic District

Reference No. 74001232

(Percival 6. Bixby & Co., Building)

W side of Delaware Ave. between North and Bryant Sis

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Reference No. 80002607 Qurham Memorial A M E Zion Church 1.151+0 (St Luke's A M.E. Zion Church) 09/15/64 174 E Eagle St Reference No. 83001670 Fosdick-Masten Park High School Listed Masten Ave. and E. North St. 06/30/81 Reference No. 83001672 Lafayette High School Listed 370 Lafayette Ave 12/03/80 Reference No 80002608 Laurel and Michigan Avenues Row Listed [Masten Neighborhood Rows IR] 03/19/86 1335--1345 Michigan Ave Reference No. 86000688 Macedonia Baptist Church Listed (Michigan Street Baptist Church) 02:12/74 511 Michigan Ave. Reference No. 74001233 Martin, D. D., House Complex Listed (George Barton House; Gardener's Cottage, See Also Martin 12/30/75 , Darwin D., House) [Olmstead Parks and Parkways TR (AD)] 123 Jewett Pkwy Reference No 75001185 Martin, Darwin B., House Listed (Martin, Darwin D., House National Historic Landmark, Se U2 34/86 e Also Martin House Complex) 125 Jewett Pkwy. Reference No. 86080160 New York Central Terminal Listed (Buffalo Central Yerminal) 09/07/84 495 Padereuski Dr Reference No. 84002389 Parkside East Historic District Listed (See Also: Martin House Complex) 10/17/56 [Olmsted Parks and Parkways TR] Roughly bounded by Parkside Ave , Amberst St , Colvin A ve., NY Central RR tracks, Main St , and Humboldt Ave Reference No 86002817 Parkside West Historic District Listed [Olmsted Parks and Parkways IR] 12710.86 Roughly bounded by Amherst St., Nottingham Terrace, Mid dlesex Rd., and Delaware Ave. Reference No. 86003372 Pierce Arrow Factory Complex Listed Elmwood and Great Arrow Aves 10/01/74 Reference No 74001234 Prudential Building Listed (Guaranty Building) 03/20/73 Church and Pearl Sts. Reference No. 73001187 Shea's Buffalo Theater Listed (The Buffalo Theater) 05/06/75 646 Main St. Reference No 75001186 South Buffalo North Side Light Listel (U.S. Coast Guard Lighthouses and Light Stations on the 181418 Creat Lakes TR1 Buffalo Marbor Reference No. 83001673 St. Andrew's Evangelical Lutheran Church Complex Casted (Deliverance Temple of God & Christi Sherman and Peckham Sts Reference No. 83901674

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tWilCox, Analey, mousel 4.1 (0) 641 Delaware Ave Reference No 66000516 U.S. Post Office 1 1-1-4 (Federal Office Building) 03/16/7 121 Ellicott Si Reference No 72000839 USS THE SULLIVANS (DD-537) Listed 1 Naval Cove Park 01/14/26 Reference No. 86000085 West Village Historic District Listed Roughly bounded by S. Elmwood Ave., Chippewa, Georgia, 05/06/80 Prospect, Carolina and Tracy Sts. Reference No. 80002610 Woodlaun Avenue Rou Listed [Masten Neighborhood Rows TR] 0.3219786 75--81 Woodlawn Ave Reference No. 86000690 Young Men's Christian Association Central Building Listed 45 W. Mohauk St. 09:68/83 Reference No. 83001676 Cheektowaga Chapel Of Our Lady Help Of Christians Listed (Maria Hilf Chapel) 12/14/76 4125 Union Rd. Reference No. 78001851 Clarence Center Eshelman, J., and Company Store Listed (The Square Deal Store) 05/06/82 6000 Goodrich Rd Reference No. 82003356 Fillmore, Millard, House Listed 24 Shearer Ave 05/30/74 Reference No 74001235 Roycroft Campus Listed (Roycroft Campus National Historic Landmark) 11/08/74 Main and W. Grove Sts. Reference No. 74001236 Hamburg Vicinity Kleis Site Listed (NYSDRP Unique Site No. A029-15-0013, U.B. 224, Edn 1-21 04::0/19 Address Restricted Reference No 79001580 Thomas Indian School Listed (Thomas Asylum of Orphan and Destitute Indian Children) 01/25/73 NY 438 on Cattaraugus Reservation Reference No. 73001188 Kenmare Eberhardt Manston Listed 2746 Delaware Ave 09/0H/E; Reference No. 83001671 North Callins Vicinity Camel Heradecagon Barn Listed [Central Plan Dairy Barns of New York IR] 097.29.84 Shirley Rd Reference No. 84002386 Orchard Park Johnson-Joils Complex Listen (Dr. Willard B. Jolls House) U" at. / 150, 5-4287 S Buffalo St Reference No. 80002611 West Seneca $\omega_{\rm max}$ Eaton Site

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. 4 0 8 2211 Address Restricted Reference No. 79001581 Williamsville Williamsville Water Mill Complex 56 and 60 Spring St 09722 81 Reference No. 83001675 Essex County Adirondack State Forest Preserve Adirondack Forest Preserve NE New York State 10/15/66 Reference No 66000891 Crown Point Fort St. Frederic Jct. of NY 8 and 9N 10/15.66 Reference No. 66000517 Fort Crown Point (Fort Amherst, Fort St. Frederic) 11/24/08 Crown Point Reservation, SW of Lake Champlain Bridge an d NY A Reference No. 68000033 Elizabethtown Hand-Hale Mistoric District River and Maple Sts 03/05/79 Reference No 79001582 ESSEE VICIDITY Church of the Nazarene (Boquet Chapel) 06/19/13 U of Essex on NY 22 Reference No 73001189 Octagonal Schoolhouse On Rie 22 in Bouquet 01/17/73 Reference No 73001190 Essex and Vicinity Essex Village Historic District Lighed Town of Essex and surroundings on W bank of Lake Champt 04.7.8 71 Reference No. 75001187 Ironville Ironville Historic District Listed Area surrounding Ironville including Furnace St. and Pe 12/01/14 nfield Pond Reference No. 74001237 Dougle-Span Metal Pratt Truss Bridge Listed [Keeseville Village MRA] 05.10/83 AuSable St Reference No. 83001665 Keeseville Historic District Listed [Keeseville Village MRA] 052301K3 Roughly bounded by Vine, Chesterfield, Clinton, Hill, P. leasant, Front, and Beech Sts. Reference No. 83881666 Rembrandt Hall Listed [Keeseville Village MRA] 05720 313 Clinton St Reference No. 83001677 Tomlinson House Listed (Keeseville Village MRA) 6. Kent St Reference No. 83001678 Lake Placis Brown, John, Fara

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Report 13 GROUND WATER PROBLEMS/ANALYSIS



ERIE AND NIAGARA COUNTIES REGIONAL PLANNING BOARD
OCTOBER 1978

portions (thick-bedded) of the aquifer. These layers are characterized by single fractures, which do not produce as much water as the zones.

Vertical fractures are unimportant except in the few top feet of the rock. They do aid in transfer of water from one zone to another although this effect would tend to decrease with depth due to the pressure closing of the vertical fractures.

Because the water-bearing zones in the Lockport Dolomite are more or less confined within the rock unit, the system may be regarded as artesian. As such, a water table does not really exist for this aquifer.

Yields of wells tapping the upper and middle parts of the Lockport average 31 gpm (gallons per minute). Wells tapping the lower 40 feet of the unit average 7 gpm. Yields are greatest near the Niagara River above Niagara Falls. This is due to induced infiltration from the river which is evidenced from water quality data. Yields from these wells may be as high as 2000 gpm. It appears that vertical fractures form avenues through which river water can readily infiltrate. As such, high yield wells tend to cluster around these fracture zones.

Because the aquifer is not water-bearing throughout its thickness, permeability values serve little useful purpose. It is better instead, to present the ease with which water moves through the aquifer as a function of the total thickness of the unit. This is accomplished by the use of the coefficient of transmissibility (T) and is simply the product of the permeability and the saturated thickness of the aquifer. Transmissibility values can be found directly from well tests in this type of system whereas permeability cannot. Units for T are given as gallons per day per foot of thickness of the aquifer (gpd/ft). T-values for the Lockport Dolomite range from 330 gpd/ft to 68,000 gpd/ft. The latter represents the optimum value for the aquifer. A T-value of 2,300 gpd/ft is probably most representative of the upper part of the aquifer and 330 gpd/ft is probably characteristic of the lower part.

The natural quality of the water can be described as highly mineralized. Hardness is a major problem; a result of high concentrations of CaSO₄ and Ca HCO₃. The uppermost water-bearing zone has been known to yield salt brines in local areas. The origin of these brines is not considered to be man-induced but is rather a result of conditions present at the time the rock was deposited.

C. CAMILLUS SHALE

The Camillus Shale consists of approximately 400 feet of thin-bedded to massive mudstone. Large amounts of gypsum are present in beds up to five feet thick and also in the lenses and veins.

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This formation is hydrologically unique among the shale units in the region. Normally, because of its fine grain size and compact nature, shale does not yield much water to wells (typically less than 5 gpm). The Camillus Shale, however, is a significant water-bearing unit in this area due to the large amounts of gypsum contained in the formation. Because of its highly soluble nature, gypsum is easily removed by percollating ground waters, resulting in solution openings which are capable of storing large amounts of water.

This means, of course, that, like the Lockport Dolomite, water is found in localized zones within the unit rather than throughout the entire extent and thickness of the formation. Some of the thicker beds of gypsum may be expected to have a latteral extent of 3 to 4 miles.

Water reaches these zones by percolation through vertical fractures. The situation is therefore similar to the Lockport Dolomite, in which the primary function of vertical fractures is for recharge. Yields of successful wells tapping the Camillus Shale range from 300 gpm to 1,200 gpm. These large yields are due to the large amounts of water which are contained in the solution openings of the formation.

Ground water flow through the aquifer is toward Tonawanda Creek which is the major discharge point for this formation (Figure 13-5). Because of pumping effects, induced infiltration is occurring from Sawyer Creek along localized reaches.

Normal transmissibility values (T), range from 40,000 to 70,000 gpd/ft. In some areas, T is as low as 7,000 gpd/ft. This wide range in values is not dependent upon geographic location, but rather is a function of whether a given well intersects significant water-bearing openings. Low T-values can be expected where openings are not intersected.

D. LIMESTONE UNIT

For hydrologic purposes, the Bertie, Akron, and Onodaga Formations can be collectively considered as a single aquifer, herein referred to as the Limestone Unit.

The total thickness of this southward dipping unit is roughly 174 feet, but variations occur locally. The composition, from the base to the top, consists of dolomite, dolomitic limestone with interbedded shale, greenish-grey and buff dolomite, limestone and cherty limestone.

The water-bearing characteristics are similar to the Lockport Dolomite. The greater solubility of this unit, however, has resulted in a more pronounced solution widening of the fractures. Principal zones of discharge are at the base of the unit where is contacts the Camillus shale, and a shaly zone about 20 feet above the base.

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Camillus Snale Gray shale containing large amounts of gypsum

Contact

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GEOLOGIC MAP OF ERIE COUNTY, NEW YORK BEDROCK GEOLOGY

by Edward J. Buehler and Irving H. Tesmer

1963

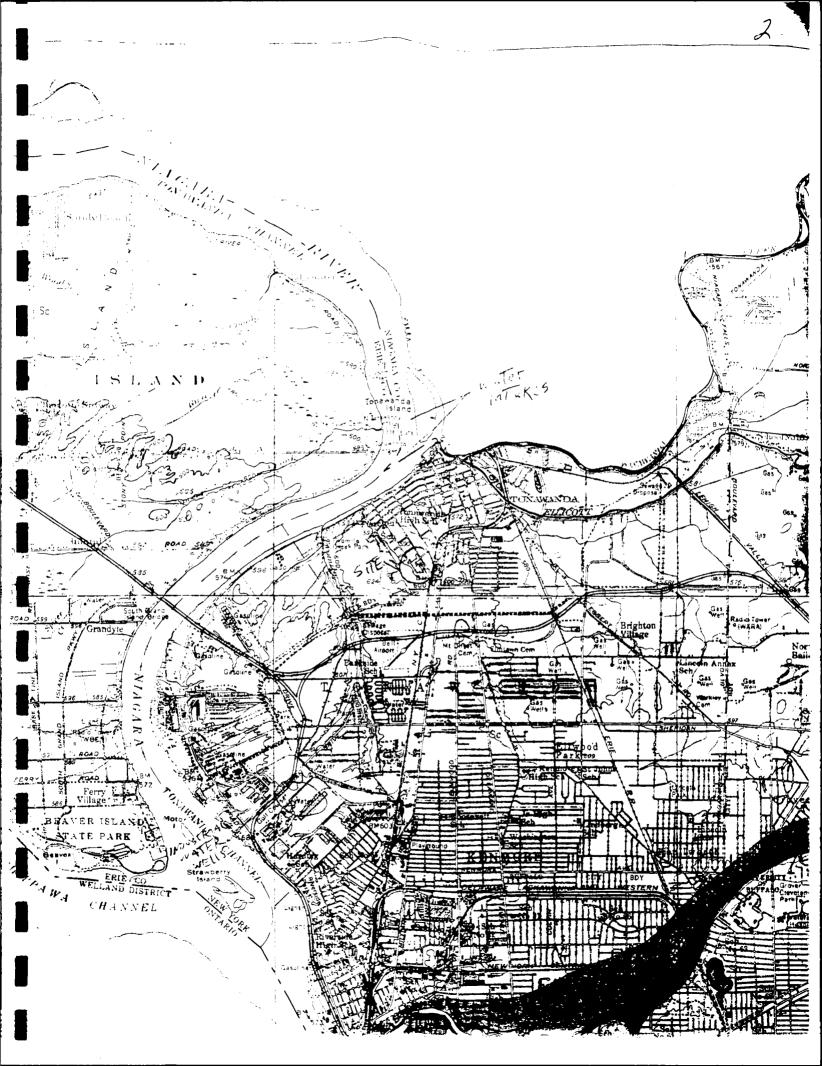
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Industrial Plastics Division 310 Wheeler Street, Tonawanda, New York 14151-5101 716-692-2000

May 28, 1987

Mr. Alan J. Cherepon NUS Corporation Raritan Plaza III Fieldcrest Avenue Edison, New Jersey 08837 RECEIVED

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NUS CORPORATION

REGION II

SENT TO

Dear Mr. Cherepon:

RE: Spaulding Fibre Co., Inc., Site Inspection 4/28/87 - 4/29/87

In response to your letter of April 22, 1987, I have attempted to answer those questions which were not previously answered in the submittal to Mr. Stanley Siegel of the USEPA dated March 13, 1987.

Spaulding Fibre Co., Inc., has been located at this site from 1911 till the present. Prior to Spaulding purchasing the site in 1911, the site was farm land owned by John A. Pohl. If further documentation is required, title surveys are available.

The only past response activities by regulatory agencies I am aware of is the New York State Superfund Phase I Survey of the site by the New York State Department of Environmental Conservation in 1983.

Enclosed are copies of past regulatory enforcement actions as follows:

- 1. NYSDEC Order of Consent File No. 86-39 9-1711
- 2. USEPA Docket No. 11 RCRA-84-0240
- 3. USEPA Docket No. 11 TSCA-PCB-86-0241
- 4. U.S. Coast Guard Case No. 1D-017/86
- 5. NYSDEC Uniform Appearance Ticket No. 121251

These are all the enforcement actions I am aware of. You may want to check with the regulatory agencies to verify. To the best of my knowledge all of these actions were satisfied by Spaulding Fibre Co., Inc.

Enclosed is a list of Spaulding Fibre's environmental permits.

May 28, 1987 Mr. Alan J. Cherepon Page 2

Enclosed is a copy of the results of the most recent OSHA inspection conducted 2/19/87 - 3/11/87 and a copy of the results of the most recent RCRA inspection conducted 1/23/87 by the NYSDEC.

The remainder of your questions should have been answered in the submittal to the USEPA.

if you should have any further questions, please contact me at (716) 692-2000 extension 461.

Sincerely,

Gregory A. Stubbs

Environmental Compliance Analyst

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Enclosures

STATE OF NEW YORK : DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the Matter of the Violations of Article 17 of the Environmental Conservation Law (ECL) by

SPAULDING FIBRE COMPANY, INDUSTRIAL PLASTICS DIVISION 310 Wheeler Street

ORDER
ON
CONSENT

Tonawanda, New York 14150

FILE

(Erie County)

Respondent

NO. 86-39!

WHEREAS:

- 1. Pursuant to Environmental Conservation Law Sections 17-0301 and 17-0303, the Department has adopted water quality standards for the State of New York and administers State Pollutant Discharge Elimination System permits.
- 2. Respondent owns, operates and/or maintains control of facilities in the State of New York subject to ECL Article 17; to wit its outfalls 001 and 003 SPDES Permit No. NY0002364 located at the Wheeler Street plant in the City of Tonawanda, New York, Erie County.
- 3. Respondent has a valid State Pollutant Discharge Elimination

 System (SPDES) Permit No. NY0002364 providing for discharge of

 effectively treated waste to the waters of the State. That permit

 sets standards for any discharge from Respondent's facilities, and

 requires that the permittee shall have met certain standards. Respondent

 has violated this permit in that it has discharged zinc from outfall 003

 in excess of permit requirements [cf Part 754.4(b) of 6NYCRR], as

 documented in its Daily Monitoring Report dated September-November, 1985

 and in Department sampling conducted on November 6-7, 1985 and January

 7, 15, and 30, 1986.

4. Respondent has affirmatively waived its rights to a hearing on these matters as provided by law and has consented to the issuing and entering of this Order pursuant to the provisions of ECL Article 17 and has agreed to be bound by the provisions, terms, and conditions contained herein.

NOW, having considered this matter and being duly advised, it is ORDERED:

- I. THAT immediately upon service of a conformed copy of this Order upon Respondent, Respondent shall be bound as hereinafter provided.
- II. In respect to the aforesaid alleged violations, there is hereby imposed upon Respondent a civil penalty in the amount of Two Thousand Five Hundred Dollars (\$2,500.00) which is to be suspended on condition that Respondent satisfactorily completes the actions as specified in Schedule A.
- III. THAT Respondent shall immediately be bound by the terms and conditions as set forth in "Schedule A" attached to this Order.
- IV. THAT all further non-permitted discharges by Respondent in contravention of the aforementioned standards shall constitute continuing violations of the ECL, and an action for further penalties for future violations will be instituted by the Department if the Respondent fails to adhere to and fully comply with its permit conditions and Schedule A.
- v. THAT should there by any unusual or extraordinary occurrences or deviation from normal operating procedures which does or may contribute to a potentially hazardous condition, or which violates any condition or provision of any permit heretofore or hereafter issued to the Respondent by the Department or which violates any of the terms and conditions of "Schedule A," the Respondent shall within 24 hours notify the Department at 600 Delaware Avenue, Buffalo, New York 14202-1073,

(716) 847-4590, and within five (5) days after such occurrence submit to the Department a report detailing the circumstances and causes of the occurrence, remedial actions and steps taken to prevent recurrence.

VI. THAT for the purpose of insuring compliance with this Order, duly authorized representatives of the State of New York shall be permitted access to inspect the facilities being constructed, owned, operated, maintained, and/or controlled by the Respondent for the purpose of inspecting the discharge therefrom of any liquid, refuse, or other waste to take samples of any discharge, liquid, refuse, or other waste and for the purpose of determining the status of compliance with the terms of this Order and "Schedule A" and with State law and regulation.

VII. THAT all reports and submissions herein required shall be made to the Principal Water Quality Engineer of the Region 9 office of the Department at 600 Delaware Avenue, Buffalo, New York 14202-1073.

VIII. THAT any change in this Order or 'Schedule A" shall not be made or become effective except as specifically set forth by written order of the Commissioner, such written order being made either upon written application of the Respondent or upon the Commissioner's own findings after an opportunity to be heard has been given to Respondent or pursuant to the summary abatement provisions of the Environmental Conservation Law.

IX. THAT the provisions, terms, and conditions of this Order and "Schedule A" shall be deemed to bind Respondent, its officers, directors,

agents, servants, employees, successors and assigns, and all persons, firms, and corporations acting under or for it, including but not limited to those who may carry on any or all of the operations now being conducted by Respondent.

DATED: Buffalo, New York April 23, 1986

> HENRY G. WILLIAMS, Commissioner New York State Department of Environmental Conservation

John J. Stagnoli Regional Director

SCHEDULE A

Respondent shall on or before the indicated dates:

by Best Management Pract: s Plan.

Submit an approvable Engineering Report detailing causes of noncommittance regarding zinc loadings at outfalls O1 and O03 including remedial measure to be taken.
 Complete remedial work. June 1, 1986
 Achieve compliance with permit limitations. June 1, 1986
 Implement non-structural sources specified June 1, 1986

Consent by Respondent

Respondent hereby consents to the issuing and entering of the foregoing Order, waives its right to a hearing herein as provided by law, and agrees to be bound by the provisions, terms and conditions contained therein.

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	Respondent Spaulding Fibre Company, Inc
	Title Vice President Technology
	DateApril 15, 1986
(Seal)	
Corporate	
State of New York County of Erie) }
Richard A. Preibisch depose and say that he resi that he is the V	April , 1986, before me personally came to me known, who being by me duly sworn did des at 160 Glen Ave., Williamsville, New York vice Fres. ofSpaulding Fibre the corporation auted the foregoing instrument; and that he signed his corporation.
	Marile Pritterle
Individual	MARILYN J. CRITTENDEN Notary Public, State of Rew York Qualified in Englishery
State of County of	My Commission Expires Elerch.50, 138.7
On this day of individual described in and acknowledged to me that he	, 19 , before me came , to me known and known to me to be the who executed the foregoing consent and he duly executed the same.
	NOTARY PUBLIC

Docket No. II RCRA-84-0240

The within is a true copy of a duly executed COMPLAINT, COMPLIANCE ORDER, AND NOTICE OF OPPORTUNITY FOR HEARING which is on file in the Regional Office of the U.S. Environmental Protection Agency, Region II.

U.S. ENVIRONMENTAL PROTECTION AGENCY REGION II

In the Matter of

SPAULDING FIBRE COMPANY, INC. NYD002104404 Tonawanda, New York 14150

Respondent.

Proceeding Under Section 3008 of the Solid Waste Disposal Act, as amended.

COMPLAINT, COMPLIANCE ORDER,
AND NOTICE OF OPPORTUNITY
FOR HEARING
WITH NOTICE OF ENTRY

Conrad Simon
Director
Air & Waste Management Division
United States Environmental Protection Agency
Region II
26 Federal Plaza
New York, New York 10278

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION II

In the Matter of : COMPLAINT, COMPLIANCE ORDER, SPAULDING FIBRE COMPANY, INC. : AND NOTICE OF OPPORTUNITY In the Matter of NYD002104404 Tonawanda, New York 14150 .

FOR HEARING

Respondent. :

Docket No. II RCRA-84-0240

Proceeding Under Section 3008 of the Solid Waste Disposal Act, as amended. :

COMPLAINT

This administrative proceeding is instituted pursuant to Section 3008 of the Solid Waste Disposal Act, as amended, 42 U.S.C. §6901 et seq. ("the Act"). [Note: Among the statutes amending the Act is the Resource Conservation and Recovery Act, 90 Stat. 2795, P.L. 94-580 (1976).]

The Director of Air and Waste Management Division of the U.S. Environmental Protection Agency (EPA), Region II, Complainant in this proceeding, has determined that Respondent, SPAULDING FIBRE COMPANY, INC. has violated Section 3004 of the Act, 42 U.S.C. §6924, and the regulations promulgated thereunder, as hereinafter specified:

1. Respondent owns and operates a facility located at:

310 Wheeler Street Tonawanda, New York 14150

- 2. By notification dated August 7, 1980, Respondent informed EPA that it conducts activities at the facility involving "hazardous waste," as that term is defined in Section 1004(5) of the Act, 42 U.S.C. §6903(5) and in 40 CFR §261.3. By application dated November 12, 1980, Respondent requested a permit to conduct its hazardous waste activities.
- 3. On or about March 21, 1984, a record review of the facility's closure plan/cost estimate was conducted by a duly-designated representative of EPA pursuant to Section 3007 of the Act, 42 U.S.C. §6927. Said record review was conducted for the purpose of enforcing the EPA regulations for hazardous waste

management, 40 CFR Part 265 (published in 45 Fed. Reg. 33073 et seq., May 19, 1980, and as later amended), promulgated pursuant to Subtitle C of the Act, 42 U.S.C. §6921 et seq.

- 4. The above-referenced review revealed that Respondent's facility was being used for the generation and storage of hazardous waste.
- 5. 40 CFR Part 265 sets interim status standards for hazardous waste treatment, storage, and disposal facilities. These standards apply until final administrative disposition of permit applications with respect to these facilities has been made. No such final disposition has been made with respect to your facility, and thus the standards of Part 265 apply thereto.
- 6. 40 CFR §265.112(a) sets forth the elements that must be included in a closure plan. On or about September 28, 1983 the Respondent submitted a closure plan to EPA for review. The review established that Respondent's closure plan did not provide any information on the thermal treatment unit, removal procedures, the type of sampling and analyses to be conducted, sampling locations, decontamination, and other required elements of §265.112. Respondent was therefore in violation of 40 CFR §265.112. A specific list of deficiencies and/or omissions is attached hereto.
- 7. 40 CFR §265.142 requires that the owner or operator of a hazardous waste facility must have a written estimate of the costs of closing the facility. On or about September 28, 1983 the respondent submitted a closure cost estimate to EPA for review. The review established that Respondent's closure cost estimate did not provide sufficient information in order to meet the requirements of this Section. Respondent was therefore in violation of CFR §265.142.

PROPOSED CIVIL PENALTY

In view of the above-cited violations, and pursuant to the authority of Section 3008 of the Act. Complainant herewith proposes the assessment of a civil penalty in the amount of \$8,000.00 against SPAULDING FIBRE COMPANY, INC. for the violations specified hereinabove as follows:

-for the violation of 40 CFR §265.112: \$ 7,000.00 -for the violation of 40 CFR §265.142: \$ 1,000.00

Total: \$ 8,000.00

COMPLIANCE ORDER

Based upon the foregoing, and pursuant to the authority of Section 3008 of the Act, Complainant herewith issues the following Compliance Order against Respondent herein:

1. Respondent shall, within thirty (30) days of the effective date of this Compliance Order, submit a closure plan sufficient to meet the requirements of 40 CFR §265.112; and a cost estimate sufficient to meet the requirements of 40 CFR §265.142.

NOTICE OF LIABILITY FOR ADDITIONAL CIVIL PENALTIES

Pursuant to the terms of Section 3008(a)(3) of the Act, a violator failing to take corrective action within the time specified in a Final Compliance Order is liable for a civil penalty of up to \$25,000 for each day of continued noncompliance. Such continued noncompliance may also result in suspension or revocation of any permits issued to the violator pursuant to the authority of the Act.

NOTICE OF OPPORTUNITY TO REQUEST A HEARING

As provided in Section 3008(b) of the Act, and in accordance with EPA's Consolidated Rules of Practices Governing the Administrative Assessment of Civil Penalties and the Revocation or Suspension of Permits, 40 CFR Part 22, 45 Fed. Reg. 24360 (April 9, 1980) (a copy of which accompanies this Complaint, Compliance Order, and Notice of Opportunity for Hearing), you have the right to request a hearing to contest any material fact set out in the Complaint, or to contest the appropriateness of the proposed penalty, or the terms of the Compliance Order. (Consistent with the provisions of Section 3008(b) of the Act, the hearing provided will be noticed and open to the general public, should you specifically request such a public hearing. In the absence of such a specific request, however, public notice of a scheduled hearing will not be published.)

To avoid being found in default, and having the proposed civil penalty assessed and the Compliance Order confirmed without further proceedings, you must file a written answer to the Complaint, which may include a request for a hearing. Your answer (if any) must be addressed to the Regional Hearing Clerk, U.S. Environmental Protection Agency, Region II, 26 Federal Plaza, New York, New York 10278, and must be filed within thirty (30) days of your receipt of this Complaint, Compliance Order, and Notice of Opportunity for Hearing. Your answer must clearly and directly admit, deny or explain each of the factual allegations contained in the Complaint, and should contain (1) a clear statement of the facts which constitute the grounds of your defense, and (2) a concise statement of the contentions which you intend to place in issue at the hearing.

The denial of any material fact, or the raising of any affirmative defense, will be construed as a request for a hearing. Failure to deny any of the factual allegations in the Complaint will be deemed to constitute an admission of the undenied allegations. Your failure to file a written answer within thirty (30) days of receipt of this instrument will be deemed to represent your admission of all facts alleged in the Complaint, and a

waiver of your right to a formal hearing to contest any of the facts alleged by the Complainant. Your default will result in the final issuance of the Compliance Order, and assessment of the proposed civil penalty, without further proceedings.

INFORMAL SETTLEMENT CONFERENCE

Whether or not you request, a hearing, the EPA encourages settlement of this proceeding consistent with the provisions of the Act. At an informal conference with a representative of the Complainant you may comment on the charges and provide whatever additional information you feel is relevant to the disposition of this matter, including any actions you have taken to correct the violation, and any other special circumstances you care to raise. The Complainant has the authority to modify the amount of the proposed penalty, where appropriate, to reflect any settlement agreement reached with you in such conference, or to recommend that any or all of the charges be dismissed, if the circumstances so warrant. Your request for an informal conference and other questions that you may have regarding this Complaint, Complaince Order, and Notice of Opportunity for Hearing should be directed to:

Judith Meritz, (212) 264-1196

Please note that a request for an informal settlement conference does not extend the thirty (30) day period during which a written answer and request for a hearing must be submitted. The informal conference procedure may be pursued as an alternative to or simultaneously with the adjudicatory hearing procedure. However, no penalty reduction will be made simply because such a conference is held. Any settlement which may be reached as a result of such conference will be embodied in a written Consent Agreement and Final Compliance Order to be issued by the Regional Administrator of EPA, Region II, and signed by you or your representative. Your signing of such Consent Agreement would constitute a waiver of your right to request a hearing on any matter stipulated to therein.

RESOLUTION OF THIS PROCEEDING WITHOUT HEARING OR CONFERENCE

Instead of filing an answer requesting a hearing or requesting an informal settlement conference, you may choose to comply with the terms of the Compliance Order, and to pay the proposed penalty. In that case, payment should be made by sending to the Regional Hearing Clerk, EPA, Region II, a cashier's or certified check in the amount of the penalty specified in the "Proposed Civil Penalty" section of this instrument. Your check must be made payable to the Treasurer of the United States of America.

DATED: New York, New York

COMPLAINANT:

CONRAD SIMON

Director

Air and Waste Management Division Environmental Protection Agency

Region II

TO: Richard G. Hunter
Vice President/General Manager
SMANLDING FIBRE COMPANY, INC.
310-Mhealer Street
Tongwands, New York 14150

cc: Laurens Vernon
Compliance Counsel
New York State Department of Environmental Conservation

David Mafrici
Bureau of Hazardous Waste Operations
New York State Department of Environmental Conservation

CERTIFICATE OF SERVICE

This is to certify that on the 31 day of May 1984 I served a true and correct copy of the foregoing Complaint by certified mail to Richard G. Hunter, 310 Wheeler Street, Tonawanda, New York 14150. I handcarried the original foregoing Complaint to the Regional Hearing Clerk.

Victor (MCDonald

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION II

In the Matter of

SPAULDING FIBRE COMPANY, INC.

CONSENT AGREEMENT

AND

Respondent.

FINAL ORDER

Proceeding Under Section 16 of the :Docket No. II TSCA-PCB-86-0241
Toxic Substances Control Act. :

PRELIMINARY STATEMENT

This civil administrative proceeding for the assessment of a penalty was instituted pursuant to Section 16(a) of the Toxic Substances Control Act (TSCA), 15 U.S.C. \$2615(a). The Complainant in this proceeding, the Director of Environmental Services Division, Region II, United States Environmental Protection Agency ("EPA"), issued a Complaint and Notice of Opportunity for Hearing to Respondent, Spaulding Fibre Company, Inc. (Respondent), on September 30, 1985.

The Complaint charged Respondent with a violation of Section 6(e) of TSCA, 15 U.S.C. \$2605(e), and the regulations promulgated pursuant to that Section, 40 CFR Part 761, relating to polychlorinated biphenyls ("PCBs"), and Section 15 of TSCA, 15 U.S.C. \$2614.

FINDING OF FACT

- 1. Respondent is a "person" within the meaning of 40 CFR 761.3, and operates a facility located at 310 Wheeler Street, Tonawanda, New York, where "PCB Transformers" (as that term is defined at 40 CFR 761.3) are used. Respondent is subject to regulation pursuant to the regulations found at 40 CFR Part 761 relating to Polychlorinated Biphenyls ("PCBs").
- 2. On or about May 8, 1984, a duly designated representative of EPA conducted an inspection at Respondent's facility. At the time of the inspection, Respondent had failed to maintain annual documents for the years 1978-1982 as required by 40 CFR 761.180(a). In addition, Respondent had failed to maintain records of an inspection program for the PCB Transformers as required by 40 CFR 761.30(a).
- 3. By letter dated October 17, 1985, Respondent submitted documentation to demonstrate efforts undertaken to come into compliance with 40 CFR Part 761 following EPA's inspection.

 Respondent put together annual documents for the years 1978 through 1982 based on existing and available data. Respondent also submitted annual reports prepared for 1983 and 1984. In addition, Respondent submitted copies of the guarterly inspection reports for PCB Transformers from October 1984 through September 1985 to demonstrate the change in compliance status following the EPA inspection.

4. Following the October 1984 EPA inspection, Respondent hired new compliance personnel to ensure compliance with the requirements of 40 CFR Part 761 and other applicable state and federal regulations.

CONCLUSION OF LAW

Respondent's failure, at the time of inspection, to meet the requirements pertaining to PCBs set forth at 40 CFR Part 761, as specified in paragraph 2 above, constitutes a violation of Section 15(1)(C) of TSCA.

CONSENT AGREEMENT

Based on the foregoing, and pursuant to Section 16(a) of TSCA, 15 U.S.C. \$2615(a), and Section \$22.18 of the Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties and the Revocation or Suspension of Permits, 40 CFR \$22.18, it is hereby agreed that Respondent shall hereafter comply with all applicable provisions of 40 CFR Part 761 and the following terms:

- 1. For the purpose of this proceeding, and in the interest of settling this matter expeditiously, Respondent: (a) admits the jurisdictional allegations of the Complaint; and (b) admits the factual findings and the conclusion of law contained in this Agreement.
- 2. Respondent shall pay, by cashier's or certified check, a civil penalty for the violation cited herein in the amount of thirteen thousand dollars (\$13,000) payable to the "Treasurer,

United States of America" and mailed to: EPA, Region II (Regional Hearing Clerk) P.O. Box 360188M, Pittsburgh, Pennsylvania 15251.

The payment shall be identified as "Spaulding Fibre Company,

Inc. - Docket No. II TSCA-PCB-85-0241.

- a. The payment shall be made in two equal installments. The first installment shall be in the amount of six thousand five hundred dollars (\$6,500) and is due within thirty (30) days after the Regional Administrator signs this Consent Agreement and Final Order (CA/FO) (hereinafter the "effective date"). The second installment shall be in the amount of six thousand five hundred dollars (\$6,500) and is due within sixty (60) days after the Regional Administrator signs this CA/FO.
- b. Failure to pay the penalty in full according to the above provisions will result in referral of this matter to the United States Attorney for collection.
- c. Further, if payment is not received on or before the due dates, interest will be assessed at the annual rate established by the Secretary of Treasury pursuant to 31 U.S.C. \$3717, on the overdue amount from the effective date of this CA/FO through the date of payment. In addition, a late payment handling charge of \$20.00 will be assessed if payment is not received by the due date, with an additional charge of \$10.00 for each subsequent thirty (30) day period. A 6% per annum penalty also will be applied on any principal amount not paid within ninety (90) days of the due date.

This CA/FO is being entered into by the parties in full settlement of all liabilities which might have attached as a result of the violations described in this CA/FO. On this basis, Respondent explicity waives its right to request a hearing on this matter, and agrees to pay the penalty in accordance with the terms of this CA/FO. Respondent has read the foregoing Agreement and its terms and consents to the issuance of the accompanying Final Order.

RESPONDENT:

Paul E. Rickabaugh

NAME: (Please Print) SPAULDING FIBRE COMPANY, INC.

Vice President

TITLE: Industrial Relations

(Please Print)

November 24, 1986

COMPLAINANT:

BY:

DATE:

Director

Environmental Services Division : U.S. Environmental Protection

Agency - Region II

DATE:

December 191986

FINAL ORDER

The Regional Administrator of EPA, Region II, concurs in the foregoing Consent Agreement and incorporates the terms of such Consent Agreement herein by reference. The Consent Agreement is hereby approved and this Final Order is issued, effective immediately. So ordered.

CHRISTOPHER J DAGGETT Regional Administrator

U.S. Environmental Protection Agency

Region II

26 Federal Plaza

New York, New York 10278

PARTMENT OF TRANSPORTATI ON U. S. COAST GU AR D CG-3639 (Rev. 6-79)	√ WATI	ER POLLUTION VIOLATIO	ON REPORT
INSTR: Prepare in suplicate. Retain	i one for case file. Submit original un	d copy.	
REPORTING UNIT		DATE OF V	
Marine Safety Office	e, Buffalo, New York	12 May	1986 1D-017/86
		CHARGE DATA	
1. TIME OF OCCURRENCE	2. LOCATION		
0726	Tonawanda, New York		et)
3. WATER BODY		4. MATERIAL	0.1
Niagara River	16.00	ECON #4 Polishing	Oil
	6. SOURCE		
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Loose hose connection	nn.		. 60
9. REMARKS	<u> </u>	Spaulding Fibre	ω
None			
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	-	2. Addition of Fendon N	YS DEC, 600 Delaware,
Mary Prin g le		P/N716 847-4590 E	suffalo, NY 14202
3. GOVERNMENT AGENCY RECE	IVING REPORT	4. DATE/TIME OF REPORT	
U. S. Coast Guard		22 May 1986/09	
	THE INCIDENT EMPLOYED BY	OR ACTING IN BEHALF OF T	HE VIOLATOR?
YES X NO		7.04.4.70	
6. NOTIFICATION PASSED VIA 7. OTHER AGENCIES NOTIFIED	☐ NAC SOTHER New Yor		
EPA Region II			NOTIFIED (Time/Date) Ly 1986/0907 hours
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Spaulding Fibre Comp	pany	Town of Tonawand	
Manufacturing		4. PERSON-IN-CHARGE Richard Preihisch	, 716 -692-2000 , Ext. 330
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S. NAME OF GIVINER/OFERATOR		310 Wheeler Stree	
Spaulding Fibre Comp	oan y	Town of Tonawanda	
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10. NAME OF LOCAL AGENT		11. ADDRESS OF LOCAL A	GENT
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12 MASTER	13. LICENSE/DOC. NO.	PERSON IN CHARGE	15 LICENSE, NOC. NO.
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NAME Angelo Sarkees		EMPLOYER NYS DEC	·	•	
ADDRESS NYS DEC Buffalo Off	ino	POSITION .	'		
600 Delaware, Buffalo, NY		Investigator			
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(716) 847-4590		ENCLOSURE NUMBER _			
NAME PS2 James Patton		U. S. Coast Gua	ırd		
ADDRESS 111 W. Huron St.		POSITION			
Buffalo, NY	ZIP 14202	Petty Officer CONNECTION WITH THE	CASE		
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None

TANT VILL PROTOGRAPHS

1 NUMBER TAKEN
None

4. REMARKS

PART VIII - LIST OF ENCLOSURES

- (1) Pollution Incident Notification Log
- (2) Letter of Federal Interest
- (3) Letter of Acceptance of Financial Responsibility
- (4) POLREP One and Final

PART IX - INVESTIGATORS SUMMARY

On 22 May 1986 at 0907 local, MSO Buffalo was notified by Mary Pringle of the New York State Dept. of Environmental Conservation of a pollution incident in the Town of Tonawanda, New York involving the Spaulding Fibre Company.

At 1030, PS2 Patton and I were on scene and met with Mr. Richard Preibisch, Vice-President of Technology for the Spaulding Fibre Company. Investigation revealed that on 15 May 1986, a tank truck from Valvoline Oil Company was scheduled to transfer 2496 gallons of Econ #4 Polishing Oil to a holding tank at Spaulding Fibre Co. When the transfer procedure started, the product began to leak from the transfer coupling on to the ground. After a loss of approximately 5 gallons, the operation was stopped and the coupling was adjusted to prevent further loss. The ground below the transfer coupling was saturated with oil. Due to heavy rain on the contaminated soil, a mixture of oil and water entered the storm drain, and eventually reached the Niagara River causing a visible sheen.

The Niagara River is considered navigable waters of the United States as defined in 33 CFR 2.05-25(a).

The Spaulding Fibre Co. removed the contaminated soil and placed absorbent boom in the Niagara River at the mouth of the storm drain.

On 24 May 1986, personnel from MSO Buffalo returned to the spill site and reported clean-up complete and satisfactory.

16 June 1986 consulted with SSC who advised MSO that Econ #4 Polishing Oil is a mixture of mineral oil and kerosene which is considered an oil under the Clean Water Act.

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PAI	RT X - CLEANUP OR OTHER MITIGATION ACTION	·
The soil at the spill site mouth of the discharge pip	is to be removed and boom is to be.	e deployed at the
PORTED IMPACT	·	
FORTED IMPACT		1
Negligible.		;
TION TAKEN TO PREVENT RECURRANT Use of prop er operations a transfer is required.	nd inspection of all couplings pri	or to the start of
	SIGNATURE OF CO	DATE
DAVID J. GORSKI, PS1	FRANCIS X. OWENS, CDR, USO	

U.S. COAST GUARD 4SOBUF-11 (Rev. 2-80)	POLLUTION INC NOTIFICATION		FPM	
NOTIFIER NAME MARU PR	INGLE	NOTES:		
Address NÝS DEC		-	<i>;</i>	
WITNESS TO DISCHARGE? (Y) OCCURRED DATE UNK TIP DISCOVERED DATE 5/22 T	ME UNK	NOTIF MR 692	OF TONALL FIED DEL THIEBOLT - 2121	
BODY OF WATER NEED NO. SOURCE DISCHARGE P	BEBAD Russ		NST. ENTE NST. ENTE HARGE PI TO RIVER	. !
** MATERIAL PETROLES AMOUNT WORKNOW AMOUNT WORKNOW	rm	1 1 1 1 1 1 1 1 1	\	
SLICK SIZE VNK COLOR DATE/TIME REPORT RECEIVED	BLUE	<u> </u>	- .	1
DEC/PHONE) OTHER			;
COAST GUARD JURISDICTION ACTION TAKEN	(YES) (NO)			
INVESTIGATOR	*	-		

**ANY NEW YORK HAZMAT SPILL NOTIFY OSHA REGION II, 212 944-延江3年4 HR NUMBER 202 523-8033.

U.S Department of Transportation United States Coast Guard

Feat & Blag, Rm 1111 111 West Huron St. Buffalo, New York 14202

16450.1A

Gentlemen:

This is to inform you that a pollution incident occurred or threatens to occur at SPAKLDING FIBRE Co.
at THE CITY OF TOWARDA PLANT for which you may be financially responsible under federal statutes, the United States Government has an interest in this incident, and further, may take appropriate action to minimize the damage which may be caused by this incident.

The discharge of a harmful quantity of oil is a violation of the-Federal Water Pollution Control Act as amended by the Clean Water Act. Under this Act, the person responsible for the pollution is and a obligated to undertake removal action. If he refuses to take adequate removal action he is financially responsible for actions taken by the Federal Government to remove the pollutant and adequately mitigate its effects. Removal is being done properly if it is in accordance with Federal and State statutes and regulations and the procedures and criteria of the National Oil and Hazardous Substance Pollution Contingency Plan. If you undertake removal; the adequacy of your actions will be determined by the U.S. Coast Guard On-Scene Coordinator. The On-Scene Coordinator for this area is F.X. OWENS, CDR. USCG. As long as you are taking adequate action in this matter, Federal action will be limited to monitoring the progress of your activities and to provide guidance as necessary.

If it is determined that you are not taking prompt and appropriate actions to contain, clean-up and dispose of the pollutant(s), Federal "response" may be "initiated. You may then be held responsible for all actual costs incurred by the Federal Government as set forth in Section 311(f) of the Federal Water Pollution Control Act, as amended. Should you require further information-concerning this this matter you should contact

Sincerely,

PSID. J. GORSKI + PSZ J. J. PATON On-Scene Coordinator's Representative

Received and Acknowledged

1236 TIME

05/22/85 DATE

ACCEPTANCE OF FINANCIAL RESPONSIBILITY

SPAULDING FIBRE Co. hereby assumes responsibility for (name of company/person)
containment and cleanup of Econ #4 Pol/SHING discharged from (substance)
GIBSONST on 05-22-86, and recognizes that (source) (date)
the determination of the adequacy and propriety of the
containment and cleanup operations continue to rest with the
designated Coast Guard On-scene Coordinator.
Authorized signature and title)
15-23-86 13752 PM

DATE:

November 13, 1986

TO:

Wally Berndt

FROM:

Greg Stubbs

SUBJECT:

IPD PERMITS

Below is the list of IPD environmental permits as per your request.

HYSDEC AIR PERMITS:

Permit No.	Permitted Unit	<u>Issue Date</u>	Expiration Date
00 001	South Fuel Oil Tank	03/07/84	04/01/9 0
00 002	North Fuel Oil Tank	03/07/84	04/01/9 0
00 003	Rag Shed West Phenol Tank	03/07/84	04/01/90
00 004	Rag Shed Central Cresylic Tank	03/07/84	04/01/90
00 005	Rag Shed East Cresylic S Tank	03/07/84	04/01/90
00 006	Resin Making Formaldehyde Storage Tank	03/07/84	04/01/90
00 007	Underground Caustic Tank	03/07/84	04/01/9 0
00008	Underground Toluene Tank	03/07/84	04/01/9 0
00009	Underground Methanol Tank (East)	03/07/84	04/01/90
00010	Underground Methanol Tank (West)	03/07/84	04/01/90
00011	Ethanol Tank	03/07/84	04/01/9 0
00012	Methanol Tank	03/07/84	04/01/9 0
00013	Grinding Oit Tank	03/07/84	04/01/9 0
0 08-0	Rag Cutter Wet Scrubber	01/01/82	05/01/91
01800	Spauldite Saws & Sanders Baghouse	01/01/82	05/01/91
01801	SEM Saws & Sanders Baghouse	09/01/82	, 0 5/01/9 1
01 8 1A	Cyclone (backup to baghouse)	01/01/82	05/01/91
501-0	Fibre Tube Grinder Electrostatic Precipitator	01/01/82	05/01/91
5 02-0	Fibre Tube Dip Tank	01/01/82	05/01/93
5 03-0	Fibre Tube Dip Tank	01/01/82	05/01/91
504-0	Fibre Tube Grinder Electrostatic Precipitator	01/01/82	05/01/91
52 9-0	Mezzanine Resin Tanks Exhaust	01/01/82	05/01/91
54 3 -0	Washer Chest	01/01/82	05/01/91
544-0	Washer Chest	01/01/82	05/01/91
54 5 -0	Washer Chest	01/01/82	05/01/91
5 46 -0	Washer Chest	01/01/82	05/01/91
5 47-0	Washer Ch est	01/01/82	05/01/9 1
0 2D EH	No. 2 Treat er Ex it Exha ust	05/3 0/85	04/01/9 0
0 3D EH	No. 3 Treater Exit Exhaust	05/3 0/85	04/01/9 0
0 4D EH	No. 4 Treat er Ex it Exha ust	05/30/85	04/01/90
4 3D E E	Treater Room Ceiling Exhaust	05/30/8 5	09/01/9 0

Permit No.	Permitted Unit	<u>Issue Date</u>	Expiration Date
4 3 WE E	Treater Room Ceiling Exhaust	05/30/85	09/01/9 0
0 4 00 0	Four Inch Press	03/19/85	04/01/9 0
0 6 00 0	Six Inch Press	03/19/85	04/01/9 0
1 6 00 0	No. 16 Press	03/19/85	04/01/9 0
5 3 80 0	No. 1 Boiler	01/01/82	05/01/ 91
5 3 90 0	No. 2 Boiler	01/01/82	05/01/9 1
5 4 00 0	No. 3 Boiler	01/01/82	05/01/91
54100	No. 4 Boiler	01/01/82	05/01/9 1
5 4 20 0	Incinerato r	01/01/82	05/01/ 91
5 5 50 0	No. 5 Treater	12/01/82	05/01/91
HYSDEC SPE	DES PERMIT:		
NY0002364	001 (F Line), 003 (K Line)	05/01/84	05/01/89

CITY OF TONAWANDA INDUSTRIAL SEWER CONNECTION PERMIT:

2**0**2 | Line | 12/01/8**5** | 12/01/8**8**

You will be notified of any additions, deletions, or changes.

Greg Stubbs

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Picupationai Salety and Health A	administration >//				
· ·	•		3. Issuance Date 4.	Inspection Number	
itation and Notificatio	n or renary			, Oler Caro	
5360 Cenesee Stree			5. Reporting ID	6. CSHO ID	
5360 Genesee Stree	U		0213600	S5140	B w
Bowmansville, NY	14026	The violation(s) described in the Citation are alleged to have to		8. Page No.	Penalties Art Due
BOWNEIISVIIIE, IVI	1020	curred on or about the day t	he 1326	1 of 2	Within 15 Days of
1. Type of Violation(s) 2.	- Citation Number	inspection was made unle otherwise indicated within the	55		Receipt
		description given below.		I	of This Notification
Other	· 01	11, Inspection Site:	2/19/87 -	3/11/87	Unless Contested
9. To:		310 Wheeler Street Tonawanda, NY 141			(See enclosed Booklet)
Spaulding Fibre Co	inc.				
and its successors				ı	This Section May Be
310 Wheeler Street					Detached:
Tonawanda, NY 141					Betore Posting
HE LAW REQUIRES that a copy	of this Citation be poste e violations cited below he	id inmediately in a prominent place ave been absted, or for 3 working days	s (excluding weekends and hec	lersi holicisys), whichever	•
This Citation describes violations of bate the violations referred to in this referred to in this referred holidays) from your recommendations (See the enclosed to office that unless you inform the Association and the proposed penal	is Citation by the dates list eight of this Citation and po- pooklet which outlines your trea Director in writing the tries will become a final ord tation does not constitute to the constitute of the const	and Health Act of 1970. The penaltylis led below and pay the penalties propo- enalty you mail a notice of contest to to rights and responsibilities and should it you intend to contest the Citation or fer of the Occupations' Safety and Hest a finding that a violation of the Act has by the Review Commission.	sed, unless within 15 working d he U.S. Department of Labor A I be read in conjunction with the proposed penalties within 15 w lith Review Commission and ma	ays (excluding weekends area Office at the address in form.) You are further orking days after receipt, by not be reviewed by any	•
12. ftem Number				15. Date by Which	16. Penalt
		14. Description		Violation Must	
3. Standard, Regulation or Section of the Act Violated		14. Description		Be Abated	
•	employees from	parding was not provide hazards created by rother Hercules Ajax; 2) Fit	stating parts:	Immediately Upon Receipt	0.0
	Shisley; 4) Cir		Cilodi y ,		
	shop: Johnson H tion of the bla	Horizontal saw did not ade guarded.	c have		
				I modintalu	0.0
- mm 4040 050/- 1/0	\/:-\/a\.	ygen cylinders in sto	nada wana not	Immediately Upon Receipt	0.0
	gas cylinders à barrier at leas	by a minimum distance st 5 feet high having	of 20 feet or	opon necespe	
		two oxygen cylinders a i adjacent to each oth			
Λ <i>1</i>					
7. Area Director Richar	d J. Bradley				18. Last Pg
NOTICE TO EMPLOYEES in its representative the opportunity of date set for a violatic interasonable. The contest Department of Labor Area is bove within 15 working	- The law gives an ortunity to object to on if he believes the must be mailed a Office at the add days (excluding we	employee or any abate- e date to be to the U.S. dress shown ekkends and employee value of the transfer of the	SCRIMINATION UNLAWI ation by an employer aga nt or for exercising any so who believes that he has e a complaint no later the with the U.S. Department	inst an employee for rights under this Act. Is been discriminated an 30 days after the	Tetal Penalty for This Charlos Make Check Money Orde Psysble to: 'DOL-OSHAL
Federal holidays) of the rection and penalty.	eipt by the employer	of this Cita- fice at the addr	ess shown above.	t responsibilities and	Indicate Inspection Number on Remittence

ORIGINAL

OSHA-2 (Rev. 1/84)

should be read in conjunction with this notification.

DITATION AND NOTIFICATION OF PENALTY

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baring conductors.

18, Area Director (2 Richard J. pradle 0.0

NOTICE TO EMPLOYEES - The law gives an employee or his representative the opportunity to object to any abatement date set for a violation if he believes the date to be inreasonable. The contest must be mailed to the U.S. Department of Labor Area Office at the address shown above within 15 working days (excluding weekends and Federal holidays) of the receipt by the employer of this Citaion and penalty.

EMPLOYER DISCRIMINATION UNLAWFUL -- The law prohibits discrimination by an employer against an employee for filing a complaint or for exercising any rights under this Act. An employee who believes that he has been discriminated against may file a complaint no later than 30 days after the discrimination with the U.S. Department of Labor Area Office at the address shown above.

EMPLOYER RIGHTS AND RESPONSIBILITIES - The enclosed booklet outlines employer rights and responsibilities and should be read in conjunction with this notification.

ORIGINAL CITATION AND NOTIFICATION OF PENALTY

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16. Penalty

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THE PLAN OF BUILTY TO MAKE CITE THE IS COUNTY FOR A CON-	Opening what D.D. The Control of the
Wriction after trial. If you are spretcted, not only will	also has the same
Mourbe Rable to a fine and/or incarceration where improvided, flut in addition, floances issued by the	monitor on the Co day of Mass 19 Tost
Department of Environmental Conservation may	Violational Section 340 3 and 16 Tree
be subject to revocation as prescribed by Law.	
The second secon	Decker Dull 4-3-75
	Cor Cylint) Sheet No June

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If you plea by mail, shall this form to the Court specified out the several side	by Certified Mail. Return Receipt Requested 901034
PART "A" _ Z PLEA OF CUILTY	PART "B" PLEA OF NOT GUILTY and cook service and cook ser
residing at 10 and 2 to 2 to 2	Signature
have been charged with the offense as specified on the reverse of the appliand I waive arraignment in open court and the aid of coursel. I please go the offense as charged and bleet and require that this charge be disposed the fine or penalty fixed by the court. During the last five years I have been victed of, stipulated to or settled for the violations noted below.	dity to Address
All statements are made under the penalty of perfury.	NOTE: Mail to the court within 48 hours. The court shall advise the stoletor by Cortlfied SMail, Return Receipt Requested, of the Trial
DateSigned	date, which in no event shall be sees than 7 days after such notice of mai is mailed.
Convictions (List Offenses, Date, Fine and Place) ENVIRONMENTAL COP	
APPLICANTS UNDER 18 YEARS OF AGE MUST SUBMIT NAM Name of Parent or Guardian	E AND ADDRESS OF PARENT OR GUARDIAN BELOW tress of Parent or Guardian

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New York State Department of Environmental Conservation 50 Wolf Road, Albany, New York 12233-



CERTIFIED MAIL, RETURN RECEIPT REQUESTED MAR 2 1987

Mr. Greg Stubbs
Environmental Compliance Analyst
Spaulding Fibre Company, Inc.
310 Wheeler Street
Tonawanda, Ner York 14150

RE: Hazardous Waste Compliance Inspection Date: January 23, 1987

Location of Handler: Same as Above

EPA Identification Number: NYD002104404

Dear Mr. Stubbs:

In order to determine compliance with the New York State Hazardous Waste-Regulations, the New York State Department of Environmental Conservation conducted an inspection of your facility on the above referenced date.

As a result of that inspection, review of documentation submitted by your facility to this Department, and applying the New York State Hazardous Waste Regulations, we believe that your facility is operating as a generator of hazardous waste.

6NYCRR Part 373-3.2(g)(1),(2),(3) requires that facility personnel must successfully complete a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that ensures the facility's compliance with the requirements of this Subpart. In addition, the owner or operator must ensure that:

- Facility personnel take part in an annual review of the initial training required.

You have not met the above requirement and, therefore, are in violation of 6NYCRR Part 373-3.2(g)(1),(2),(3).

6NYCRR Part 373-3.2(g)(4) requires the owner or operator to maintain the following documents and records at the facility:

- Records that document that the training or job experience required has been given to, and completed by facility personnel.

You have not maintained the above documentation and, therefore, are in violation of 6NYCRR Part 373-3.2(g)(4).

6NYCRR Part $373-3.2(g)\{5\}$ states: "Training records on current personnel must be kept until closure of the facility. Training records on former employees must be kept for at least three years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within the same company." You have not maintained the required records and, therefore, are in violation of 6NYCRR Part 373-3.2(g)(5).

Please confirm in writing within 30 days of the date stamped on this letter, that the above referenced violations have been corrected and include supporting documentation as appropriate. You MUST include your EPA Identification Number on all correspondence. This confirmation should be addressed to:

Mr. Peter Buechi, P.E.
Regional Solid and Hazardous Waste Engineer
New York State Department of Environmental Conservation
600 Delaware Avenue
Buffalo, New York 14202
(716) 847-4600
Attention: Mr. Nelson F. Schnabel, Inspector

with a copy to:

Mr. David A. Blackman, P.E.
Supervisor of the Compliance Inspection Section
Bureau of Hazardous Waste Operations
Division of Solid and Hazardous Waste
New York State Department of Environmental Conservation
50 Wolf Road - Room 208/204
Albany, New York 12233-4017
(518) 457-0532
Attention: Mr. Michael J. Cruden, Reviewer

If you have any questions about this notice or should you wish to discuss this matter further, please contact the Inspector or the Reviewer at the telephone number above. A copy of the Inspection Form is enclosed for your information.

Sincerely,

David Mafrici, P.E.

Chief

Bureau of Hazardous Waste Operations
Division of Solid and Hazardous Waste

Enclosure

cc: w/o enc. - Mr. Jeffrey Lacey, Regional Attorney, Region 9

Mr. Peter Buechi, Regional Solid & Hazardous Waste Engineer, Region 9

Mr. Nel'son F. Schnabel, Inspector, Region 9

New York State Department of Environmental Conservation

Mr. Michael J. Cruden, Reviewer, Central Office

New York State Department of Environmental Conservation

REFERENCE NO. 23

TABLE I SAMPLE DESCRIPTIONS SPAULDING FIBRE COMPANY TONAWANDA, NEW YORK CASE# 7204 4/28/87

Sample ID Number	Organic Traffic Report #	Inorganic Traffic Report #	Time	Sample Type
NYR9-SW1	BC084	MBF 490	1455	A q ue ous
NYR9-SW2	BC085	МВЈ192	1535	Aqueous
ı				
NYR9-GW1	BK 238	MBJ137	1650	Aqueous
NYR9-GW2	BK 239	мвј292	1715	Aqueous
NYR9-BL1	BF 429	MBF 484	-	Aqueous

TABLE 1 (CONT'D) SAMPLE DESCRIPTIONS SPAULDING FIBRE COMPANY TONAWANDA, NEW YORK CASE# 7204 04/29/87

Sample ID Number	Organic Traffic Report #	Inorganic Traffic Report #	<u>Time</u>	Sample Type
NYR9-S1	BK 240	MBF 480	1040	Soit
NYR9-S2	BK 241	MBF481	1130	Soit
NYR9-S3	BF 427	MBF482	1209	Soil
NYR9-54	BF428	MBF 483	1230	Soil
NYR9-S5	BC080	MBF486	1315	Soil
				1
NYR9-S6	BC081	MBF 487	1335	Soil
NYR9-57	BC082	MBF 488	1430	Soil
			,	30H
NYR9-S8	BK 249	MBI 590	1500	Soil
NYR9-BL2	BC083	•	-	Aqueous

ANALYTICAL DATA SPAULDING FIBRE

SAMPLING DATE: 4/28-4/29/87

CASE NUMBER: 7204

VOL	۵Ŧ	11 5	ς
YLA	.H f	ILL	

VOLATILES	!		1	1		1	l 	.	-I	-1	- 	-	-1	
SAMPLE NUMBER	I NYR9-S1	I NYR9-S2	NYR9-53	I NYR9-S4	NYR9-SS	i nyrg-s6	I NYR9-S7					INYR9-SW2		INYR9-BL2
TRAFFIC REPORT NUMBER	I BK-240	1 BK-241	F BF-427	1 BF-428		I BC-081								1 BC-083
MATRIX	I SOIL	I SOIL	SOIL	SOIL	I SOIL	SOIL	I SOIL	SOIL	I WATER	I WATER	I WATER		1 WATER	I MATER
UNITS	l ug/kg	i ug/kg	l ug/kg	l ug/kg	i ug/kg	i ug/kg		32	i ug/L	I ug/L	i ug/L	i ug/L	i ug/L	i ug/L
CONC. /DILUTION FACTOR	1 5	1 5	1 5	i 5	1 5	1 5	1 5	1 5	† 1 -1 	1 	1 1	 		1 -
Chloromethane	1	1	1	i	 I	1	i	i	i	1	i	İ	i	1
Browovethane	ł	I .	1	1	ŀ	1	ı	1	l	1	ı	1	1	1
Vinyl Chloride	1	I	j	i	1	F	i	i	!	I	1	1	1	!
Chloroethane	1	1	ŀ	i	l	1	1	1	1	i	I	I	ŀ	1
Methylene Chloride	l 16J	1 21J	1 17J	1 9J	l 19J	l 10J	I 17J	l 13J	ŀ	ŀ	i	1	1	1
Acetone	1	1	1	t	ł	1	1 360	ł	ļ	i	1	I	1 55	1
Carbon Disulfide	1	1	Į.	1	1	1	1	F	i	I	ı	I	I	1
1,1-Dichloroethene	ł	i .	l .	1	ł	ł	i	1	I	i	ŧ	t	1	1
1,1~Dichloroethane	1	ı	l .	ı	1	ł	1	t .	i	1	1	1	1	1
Trans-1, 2-Dichloroethene	1	i	j	ı	į.	ı	1	i	i	ŧ.	1	1	1	1
Chloroform	ı	i .	1	ı	f	ı	1	4	i	1	1	1	i	1
1,2-Dichloroethane	1	i	ı	ł	1	i	1	1	1	1	i	į.	1	1
2-But anone	i	i	1	ı	i	1	1	1	1	t	1	i	1	1
1,1,1-Trichloroethane	i	i	i	i	1 10J	ı	i	i 10J	1	1	1	1	i	1
Carbon Tetrachloride	i	i	i	i	1	ı	1	1	1	1	1	1	1	4
Vinyl Acetate	i	i	i	i	1	ı	1	1	1	ı	1	1	1	1
Browdichlorquethane	i	ì	i	i	i	ı	i	ı	1	1	i	1	ŀ	1
1,2-Dichloropropane	i	i	i	i	i	1	ı	1	1	i	1	1	1	1
Trans-1,3-Dichloropropene	i	i	i	i	i	i	i	1	1	i	1	ł	ì	1
Trichloroethene	i	i	i	i	i	į	i	1	1	1	1	1	1	i
Dibrosochlorosethane	;	i	i	i	ì	i	ì	i	i	i	1	1	1	1
1, 1, 2-Trichloroethane	;	ì	i	ì	ì	i	ì	i	i	1	ł	1	+	ı
	1	1 230	;	i	i	i	i	i	i	i	i	1	1	i
Benzene	1	1 530	1		ì	ì	i	i	i	i	i	i	i	i
Cis-1, 3-Dichloropropene	1	1		;	i	:	i	i	i	i	i	i	i	1
2-Chloroethylvinylether	!	,	1	;	<u> </u>	;	i	i	i	i	i	i	1	i
Bromoform	!		1	1	,	;	;		i	i	i	i	i	i
2-Hexanone	!	!	1	1	1		;	;	;	;		i	i	i
4-Methyl-2-Pentanone	!	!	!			,	,		1	;	i	;	;	i
Tetrachloroethene	!	!	1	!		1	1		1	;	;	;	;	i
1,1,2,2-Tetrachloroethane		!		1	1 07	. 77	1 107	1 113	;	1	1	;	;	ì
Toluene	1 48	1 120	151	1	1 8J	i 7J	i 10J	1 113	!	,	1	1	;	i
Chlorobenzene	1	1	1	1	1		1	,	:	1	1	1	;	,
Ethylbenzene	1	1	1	1		!	!	1	!	1	Į.	;	1	;
Styrrene	1	1	1	1	!	!	!	!	1	!	1		1	
Total Tylenes	1	1	1	ı	1	1 ~	1	I	1	1	1	ı	1	1

NOTES TO GREANICS DATA:

Blank space - compound analyzed for but not detected

- Q analysis did not pass EPA QA/QC requirements
- J compound present below contract-specified detection limits, but above instrument detection limits
- B compound found in laboratory blank as well as the sample, and indicates possible/probable blank contamination
- E value estimated due to laboratory interference
- NR analysis not required

ANALYTICAL DATA
SPAULDING FIBRE

SAMPLING DATE: 4/28-4/29/87

CASE NUMBER: 7204

4-Nitroaniline

SAMPLE NUMBER	NYR9-SI	NYR9-52	NYR9-51	NYR9-S4	NYR9-55	NYR9-SK	1 NYR9-57	NYR9-SA	INYR9 GMI	INYR9 GLP	INYR9-SHI	INYR9-SH2	INYR9-RL1	INYR9-BI 2
		BK-241					I BC-082		1 BK-238					J BC-083
MATRIX	901L	SOIL	901L	90IL	SOIL	901L	SOIL	SOIL	I WATER	MATER	HATER	I WATER	I WATER	I WATER
UNITS	ug/kg	l ug/kg	un/kp	l ug/kg	i ug/kg	l ug/kg	l ug/kg	i ug/kg	l ug/L	l ug/L	i ug/L	I ug/L	I ug/L	l ug/L
CONC. / DILUTION FACTOR					1 5				1 1	1 1	1 1	-	-	1
Phenol i	9500	1 12000	1100J	 	1 1500J	} }	910000	1 I 840J	1	 	 	11		I NR
Bis(2-Chloroethy1)Ether I		1 (i	í	1	ł	t	l	!	1	I	1	1	I NR
2-Chlorophenol i		1	l	l	1	l	l .	l	1	1	1	i	1	I NR
1,3-Dichlorobenzene i		1 1	!	l	ŀ	I	ł	l	ı	}	1	1	I	i NR
1,4-Dichlorobenzene		1		l	1	I	I	ļ.	ŧ	1	1	F	ŧ	I NR
Benzyl Alcohol I		1 (l	í	t	l .	l	l	I	1	1	1	i NR
1, 2-Dichlorobenzene	ı	1 1	1		ł	1	1		1	ŧ	F	1	I	I NR
2-Methylphenol (2800	28000	l)	I 250J	ł	ı	l	ł	ì	i	1	i	i NR
Bis(2-Chloroisopropyl)Ether(ı	l i	i .)	l	ł	ŧ	l	ł	ł .	i	i	i	i NR
4-Methylphenoi i	11000	71000	5403)	l 430J	i	i	3103	J	1	ł	i j	i	i NR
N-Nitroso-Di-n-Propylamine		i i) ;	1	i	j	i	l	į	ı	į	i	ì	I NR
Hexachloroethane i		1 1)	ł	ŀ	ı	i	ł	i	l .	i	į.	i	I NR
Nitrobenzene l)	1		I	i	j	t	l	ı	ì	i)	ı	i NR
Isophorone i				1	j	1	1	1	i I	ì	ì	i	1	I NR
2-Nitrophenol		1	· }	1	1	1	ì)	i	i	1	i	ĺ	I NR
2,4-Dimethylphenol I	9800	1 150000 1	340J	1	440J	ı J	1	220J	i	i	i	i i	ì	I NR
Benzoic Acid I	Q	1 18000J	· 	1	i	I	i		ŀ	ì	ì	1 3	j	I NR
Bis(2-Chloroethoxy)Methane i) I		1	I	ŀ	1	ì	1	1	ì	1	ŀ	I NR
2,4-Dichlorophenol i		1			i		i		1	i	i	i	i	I NR
1,2,4-Trichlorobenzene I		1		1		}		}	i	1	ì	i	1	1 NFR
Naphthalene i		I 3000J I	1300J		1 370J	I)		i	i	i	í	i	I NR
4-Chloroaniline I					1	I			i	i	i	i	i	I NR
Hexachtorobutadiene i		i i			I	I	3	· 	ŀ	i	ì	i	ì	I NR
4-Chloro-3-Hethylphenol I	Q			1		ì	i	, 	i	i	i	i	i	i NR
2-Methylnaphthalene i		I 4300J I	980J		ĺ	!	i	, 	i '	i ·	ì	i	ì	I NR
Hexachlorocyclopentadiene		, I			l	1	i		}	i	į	i	ì	I NR
2,4,6-Trichlorophenol I		I I				· }	i	1	i	i	i	ì	i	i NR
2,4,5-Trichlorophenol i		I i			i	l	i		i	i	ì	i	i	I NR
2-Chloronaphthalene I						, 			ì	i	i	i	ì	i NR
2-Witroaniline						, 			, i	, I	i	i	i	NR
Dimethyl Phthalate !		. ,										i	i	i NiR
Acenaphthylene i		, ,	· .		• • · · · · · · ·				i	i		i	1	i NR
3-Nitroaniline				· '	,	, I		· i	I	i		, 1		i NiR
Acenaphthene i		, ,	2400		690J			I	i			1	I	i NR
2,4-Dinitrophenol		, , į i	1	,	1	,	, ,		·	i	I	I	}	i NR
4-Nitrophenol I		, , , ,			, ') i	·	. '		, I	1			1	i NER
Di benzofuran I		, ,	1700 i	· · · · · · · · · · · · · · · · · · ·	, 370J I		,		, i	i	I	1		I NR
2,4-Dinitrotoluene I		, ,	1100 1		, 3,04 ('	, ,						, }	i nin i Nin
2,6-Dinitrotolume 1	1	, ,			, ,		, ,			1				r ruk I NIR
Diethylphthalate !			1		' '		' '		, i	to in the				i na
4-Chlorophenylphenyl ether i		. !												NR

ANALYTICAL DATA SPAULDING FIBRE

SAMPLING DATE: 4/28-4/29/87

CASE NUMBER: 7204

SENI-VOLATILES

CON POLITICES																•		
SAMPLE NUMBER TRAFFIC REPORT NUMBER MATRIX UNITS CONC. / DILUTION FACTOR	I NYR9-S1 I BK- 240 I SOIL I ug/kg I 5	1	NYR9-S2 BK-241 SOIL ug/kg 20	1 BF	/R9-53 427 SOIL 19/kg 5	NYR9	3 I	NYR9-SS BC-080 SOIL ug/kg 5	NYR9-S6 RC-081 SOTL ug/kg 1	NYR9-S7 BC-082 SOIL ug/kg 200	NYR 9-58 BK-249 SOIL ug/kg 5	INYR9-GW1 1 BK-238 1 WATER 1 ug/L 1 1	INYR 9 GM 2 I BK-239 I MATER I ug/L	INYR9-SW1 I RC-084 I WATER I ug/L I 1	INYR9-SH2 I RC-085 I HATER I ug/L I 1	INYR9-BL1 I BF-429 I MATER I ug/L I 1	I B	R9-BL2 C-083 NATER ug/L
4,6-Dinitro-2-Methylphenol	 -	-					J		-1			·1	-	· (·	- J	NR
•	, ,			; i			1			1	1			1	t		i	NR
N-Nitrosodiphenylamine		- 1					'		1		1	i	1	1		1	i	NR
4-Bromophenylphenyl ether Hexachlorobenzene	, 1	i				,	i		' !	,		i	i	1	1	1	i	NR
									,	<u> </u>	i	;	i		1	1	i	NR
Pentachlorophenol Phenanthrene	i 240J	;	2000J	١.	13000	1		5300			;		;			1		NR
	I €¶UJ I		20003		1900	1	,	1400J	:	'	i	1	1	1	i i	1	i	NR
Anthracene	I 17000	- ;	160000		5100		,	4200	,	1 240000	1 800J	1	1		1 11	1	i	NR
Di-n-Butylphthalate	13000	,	100000				- !	5000	1 1	1 270000	1 5003	1	1	1	1	1	;	NR
Fluoranthene	2501	•	2000 7		15000 7400	!		4500			1	1	1	1	1	1	1	NR
Pyrene	i 220J	!	5000J	: 1	1100	!	!	4300	!	!	!			1		,	1	NR
Butylbenzylphthalate	!	!		!		!	!		!				1	1	1	1	!	NR
3,31 Dichlorobenzidine	. ,	!		! .		1		0700	!	!	!	1	!	!	!	!	!	NR NR
Benzo (a) Anthracene	1 '	!	00000		3400		!	2300	! .	!	!	1	!				1	
Bis(2-Ethylhexyl)Phthalate	1 350J	!	29000		1300J			2500		!	!		!			1	!	NR NR
Chrysene	!	!			8200	!	!	2000	!	!	!	!	1	!	:	!	1	
Di-m-Octyl Phthalate	!	!		! .		!		0004-	!	!	!	1	,	!	1	1		NR
Benzo(b)Fluoranthene	!	- 1		. 9	3700	!	!	2200+	!	1	!	1	1	1	1		1	NH
Benzo(k)Fluoranthene	ı	1		1		i	- 1		1	!	!	!	!	!	!	1	f	NR
Benzo (a) Pyrene	i	- 1		•	5800	!	- 1	1500J	1	1	!	1	!	1	!	!	!	MH
Indeno (1, 2, 3-cd) Pyrene	i	1			2500	ı	- 1	490J	1	1	1	i	1	1	1	1	İ	NR
Dibenzo (a, h) Anthracene	ı	ł			36 0J	i	1		1	ı	1	1 .	1	1	1	1	1	NR
Benzo(ghi)Perylene	ł	- 1		1 1	1900	ı	- 1	410,3	1	1	ł	1	1	i .	1	1	1	NR

NOTES TO ORGANICS DATA:

Blank space - compound analyzed for but not detected

- Q analysis did not pass EPA QA/QC requirements
- J compound present below contract-specified detection limits, but above instrument detection limits
- B compound found in laboratory blank as well as the sample, and indicates possible/probable blank contamination
- E value estimated due to laboratory interference
- NR analysis not required
- # concentration is an indivisible sum for Benzo(b) - and Benzo(k) - Fluoranthene

ANALYTICAL DATA
SPAULDING FIBRE

SAMPLING DATE: 4/28-4/29/87

CASE NUMBER: 7204

PESTICIDES/PCBs	1							•	1				.1		
SAMPLE NUMBER TRAFFIC REPORT NUMBER MATRIX UNITS	! NYR9-51 ! BK-240 ! SOI L ! ug/kg	NYR9-S2 BK-241 901 L ug/kg	I NYR9-53 I 8f-427 I 90IL I ug/kg	i NYR9-S4 I Bf-42B i SOIL I ug/kg	NYR9-55 BC-080 SOIL ug/kg		1 NYR9-S7 1 BC-082 1 SOIL 1 ug/kg	1 BK-249 1 SO TL	INYR9-GW1 I-BK-238 I-MATER I-ug/L	I BK-239 I water	INYR9-SM1 I BC-084 I WATER I ug/L	INYR9-SN2 I BC-085 I MATER I ug/L	I BF-429 I WATER I ug/L	INYR9-BL2 I BC-083 I HATER I ug/L	•
CONC. /DILUTION FACTOR	1 10	1 10	10	1 1	10	1 10	1 10	l 5	1 1	† 1	1 5	1 10	1 10	 -	- 1
Alpha-BHC		I		 	, I	, I	1	i	ı	i	1	i	i	I NR	í
Beta-BHC	1	ı	I	l	ł	ı	I	1	1	I	1	1	1	I NR	
Delta-BHC	ŀ	E .	1	I .	l	I	1	i	1	ı	1	1	1	1 NR	1
Gamma-BHC (Lindane)	1	i	1	1	l	!	!	1	1	1	1	1	1	I NR	- 1
Heptachlor	ı	1	1	1	ŀ	I	1	I	1	1	ŀ	ŀ	1	I NR	
Aldrin	1	1	1	1	ł	1	l	I	i	I	1,7.	1	1	I NR	-
Heptachlor Epoxide	1	1	1	1	ı	I	i	1	I	I	1 1	1	!	I NR	
Endosulfan I	1	1	Į.	i	i	ı	I	l .	1	1	į	j	1	I NR	1
Dieldrin	ı	I	i	1	i	ŀ	1	ı	1	1	i	1	1	i NR	- 1
4, 41-DDE	ŧ	1	1	i	ı	1	1	1	i	I	1	i	1	I NR	ļ
Endrin	1	i	i	1	i	1	i	1	1	I	1	1	1	i NR	
Endosulfan II	1	1	1	1	1	ı	1	1	ļ	1	1	ł	1	I NR	
4, 4°-DDD	1	ł.	ı	4	ı	!	I	ı	1	i	1	1	1	I NR	1
Endosulfan sulfate	i	1	1	1	i	ı	1	I	i	l .	ł	1	1	i NR	1
4, 41 -DBT	1	1	1	i	i	i	I	ı	ł	1	ı	i	1	I NR	ŀ
Methoxychlor	1	1	t .	ł	i	1	l .	t	ı	I .	1	1	1	I NR	
Endrin Ketone	1	i	1	1	1	1	1	1	į	t	1	1	1	I NR	ı
Chlordane	4	1	1	1	1	1	l .	1	1	1	1	ı	1	I NR	1
Toxaphene	1	1	f	1	ı	1	ı	1	i	1	1	1	i	i NR	1
Aroclor-1016	4	1	1	t	1	ſ	ı	f	1	1	1	1	1	I NR	-
Aroctor-1221	1	f	1	1	i	í	1	ŧ	1	f	1	1	1	I NR	İ
Aroclar-1232	ŧ	1	1	1	1	ı	1	1	1	1	1	1	1	I NR	- 1
Aroctor-1242	1	1	1	1	i	1	ŧ	1	1	1	į .	1	1	i NR	1
Aroctor-1248	3140	1	1	(J	4310	5640	ı	t .	1	1	1	1	i	i MR	ł
Aroclor-1254	1	1 2910	1 1580J	1	i	t	1	1	1	F	ı	1	i .	i NR	1
Aroclor-1260	1	L	1	ř.	i	1	1	1	1	1	1	ı	1	I NR	1

NOTES TO ORGANICS DATA:

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- NR analysis not required



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

Sample Number

BC 084

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			T .	11		3	1	. 2	t 94 '	94 (i	نكم	• 1	EP	\frown	1:1	4 1	
U	111	57 ;	; T)		$\mathbf{\Sigma}$			177	<u></u>	Y		1	7		w		

(1) Case Number:		ONCENTRATIO neck One)	N	4 Shi	pTo: 00153
Sample Site Name/Code:		Concentration in Concentratio	n		
	3 SAMPLE M (Check C		·	Attn: Trans Ship	fer
© Regional Office: Sampling Personnel:	6 For each same of containers to on each bottle	ised and mark v	olume le	vel	Analysis Lab: Rec'd by: Date Rec'd 42757 Sample Condition on Receipt (e.g., broken, no
(Name)	• .	Number of Containers	Approx Total Vo	lume	ice, Chain-of-Custody, etc.)
(Phone) Sampling Date:	Water (Extractable)				
(Begin) (End)	Water (VOA)				
3 Shipping Information	Soil/Sediment (Extractable)				
Name of Carrier	Seil/Sediment (VOA) Other				
Date Shipped:					
* * <u></u>					;
Airbill Number:					
8 Sample Description			9 Sam	ple Lo	cation
Surface Water	Mixed Media				
Ground Water _	Solids				
Leachate	Other (specify).			٠	
(e.g., safety precautions, haza	uctions: rdous nature)				

LABFILECOPY

Organics Analysis Data Sheet (Page 1)

0015	4
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where with the state of the sta

Volatile Compounds

CAS Number	·.	ug/i 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 u
67-64-1	Acetone	100
75-15-0	Carbon Disulfide	5.0
75-35-4	1, 1-Dichleroethene	5 u
75-34-3	1, 1-Dichforoethane	5 v
156-60-5	Trans-1, 2-Dichloroethene	5 u
67-66-J	Chloroform	5 u
107-06-2	1, 2-Dichloroethane	5 บ
78-93-3	2-Butanone	1011
71-55-8	1, 1, 1-Trichloroethene	5 u
56-23-5	Carbon Tetrachloride	5.0
108-05-4	Vinyl Acetate .	100
75-27-4	Bromodichluramethane	5 u

CAS Number	(ug/lerug/Kg (Circle One)
78-87-5	1, 2-Dichleropropane	5 v
10061-02-6	Trans-1, 3-Dichloropropene	5 υ
79-01-6	Trichloroethene	5 u
124-48-1	Dibromochloromethane	5 u
79-00-5.	1, 1, 2-Trichloroethane	5 u
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	Ì Qu
75-25-2	Bromoform	5 u
108-10-1	4-Methyl-2-Pentanone	10u
591-78-6	2-Hexanone	10u
127-18-4	Teirachloroethene	5 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 u
108-88-3	Toluene	5 11
108-90-7	Chiorobenzene	5 u
100-41-4	Ethylbenzene /	5 ú
100-42-5	Styrene	5 U
	Total Xylenes	5 u

Date Reporting Qualifiers

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

- Value If the result is a value greater than ar equal to the detection limit, second the value
 - Indicates compound was analyzed for but not detected. Report the summum detection listed for one sample with the U is g., 10Ul based on necessary concentration/dilution action. (This is not necessarily the institument detection limit.) The desirate should read. U. Compound was analyzed for but not detected. The number is the summum attainable detection limit for the sample.
 - endicates an estimated value. This stag is used either when estimating a concentration for tentatively identified compounds where a 1 % response is assumed or when the mass specified data indicated the presence of a compound that moets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10.0). If firms of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3.0.
- C This flag applies to posticide parameters where the identification has been confirmed by GC/MS. Single component posticides ≥ 10 ng. of in the final extract phould be confirmed by GC/MS.
- 8. This lies is used when the analyse is found in the blank as well as a gample. A indicates possible (probable blank consummation and words the date user to take appropriate action.
- Other specific flags and featness may be required to prove the fine the results. If used, they must be fully described and such description attached to the data summary report.

<u>Cambridge Analytical Associates</u> 7204

Sample Number BC 084

Organics Analysis Data Sheet (Page 2)

Semivolatile Compounds

00155

entration: Medium (Circle One)	GPC Cleanup Yes
Ate Extracted Prepared: 5/4/87	Separatory Funnel E
Date Analyzed5/20/87	Continuous Liquid -
Conc./Dil Factor:	•
Percent Moisture (Decented)N/A	

GPC Cleanup □Yes ØNo
Separatory Funnel Extraction (1) Yes
Continuous Liquid - Liquid Extraction MYes

CAS Number		ug/lor ug/Kg (Circle One)
108-95-2	Phenol	10u
111-44-4	bist-2-ChloroethyllEther	100
95-57-8	2-Chlorophenot	100
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	100
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	100
106-44-5	4-Methylpheno	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	bisi-2-Chloroethoxy)Methane	10u
120-83-2	2. 4-Dichlorophenot	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	100
87-68-3	Hexachiorobutadiene	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 Phthalata	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

Rumber Ray R	CAS		ug/lor ug /Kg
S1-28-5	Number	Acceptable	(Circle One)
100-02-7			
132-64-9 Dibenzofuran 10u 121-14-2 2-4-Dinitrotoluene 10u 606-20-2 2-6-Dinitrotoluene 10u 64-66-2 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 534-52-1 4-6-Dinitro-2-Methylphenol 50u 56-30-6 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 120-12-7 Anthracene 10u 129-00-0 Pyrene 10u 17-84-1 3-3-Dichlorobenzidine 20u 17-81-7 bis(2-EthylhexyliPhthalate 10u 117-84-0 Di-n-Octyl Phthalate 10u 117-84-0 Di-n-Octyl Phthalate 10u 117-84-0 Benzo(b)Fluoranthene 10u 100-30-32-8 Benzo(b)Fluoranthene 10u 10u 100-32-8 Benzo(a)Pyrene 10u 1			
121-14-2 2 4-Dinitrotoluene 10u			
Society Soci			
### 100 #### 100 #### 100 #### 100 #### 100 #### 100 ########			
## 100-01-3 ## 1-Chiorophenyl-phenylether 10u			
\$6-73-7 Fluorene 10rr 100-01-6 4-Nitroaniline 50tr 534-52-1 4, 6-Dinitro-2-Methylphenol 50tr 86-30-6 N-Nitrosodiphenylemine (1) 10tr 101-55-3 4-Bromophenyl-phenylether 10tr 118-74-1 Hexachlorobenzene 10tr 87-86-5 Pentachlorophenol 50tr 85-01-8 Phenanthrene 10tr 120-12-7 Anthracene 10tr 44-74-2 Di-n-Butylphthalate 10tr 1206-44-0 Fluoranthene 10tr 129-00-0 Pyrene I 10tr 156-55-3 Benzola)Anthracene 10tr 117-81-7 bis(2-Ethylhexyl)Phthalate 10tr 117-84-0 Di-n-Octyl Phthalate 10tr 1205-99-2 Benzola)Pyrene 10tr 10tr 10tr 10tr 10tr 10tr 10tr 10tr			
100-01-6		4'-Chiorophenyl-phenylether	1 Ou
534-52-1 4, 6-Dinitro-2-Methylphenol 50ti 86-30-6 N-Nitrosodiphenylamine (1) 10ti 101-55-3 4-Bromophenyl-phenylather 10ti 118-74-1 Hexachlorobenzene 10ti 87-86-5 Pentachlorophenol 50ti 85-01-8 Phenanthrene 10ti 120-12-7 Anthracene 10ti 120-12-7 Anthracene 10ti 206-44-0 Fluoranthene 10ti 129-00-0 Pyrene 10ti 15-88-7 Butylbenzylphthalate 10ti 15-88-7 Butylbenzylphthalate 10ti 17-84-1 3, 3'-Dichlorobenzidine 20ti 17-81-7 bis(2-Ethylhexyl)Phthalate 10ti 117-84-0 Di-n-Octyl Phthalate 10ti 117-84-0 Di-n-Octyl Phthalate 10ti 205-99-2 Benzo(a)Pyrene 10ti 10ti 10ti 10ti 10ti 10ti 10ti 10ti	وبريون والمستقدة		
## 101-55-3 ## Bromoghenyl-phenylether 10u	100-01-6		
101-55-3	534-52-1	4, 6-Dinitro-2-Methylphenol	50u
118-74-1 Hexachlorobenzene 10u 87-85-5 Pentachlorophenol 50u 85-01-8 Phenanthrene 10u 120-12-7 Anthracene 10u 84-74-2 Di-n-Butylphthalate 10u 206-44-0 Fluoranthene 10u 129-00-0 Pyrene 10u 85-68-7 Butylbenzylphthalate 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 117-84-0 Di-n-Octyl Phthalate 10u 205-99-2 Benzo(b)Fluoranthene 10u 207-08-9 Benzo(a)Pyrene 10u 193-39-5 Indeno(1, 2, 3-od)Pyrene 10u	86-30-6		
### ### ##############################	101-55-3	4-Bromophenyl-phenylether	10u
## ## ## ## ## ## ## ## ## ## ## ## ##	118-74-1	Hexachiorobenzene	10น
120-12-7 Anthracene 10:: 84-74-2 Di-n-Butylphthalate 10:: 206-44-0 Fluoranthene 10:: 129-00-0 Pyrene 10:: 85-68-7 Butylbenzylphthalate 10:: 91-94-1 3.3'-Dichlorobenzidine 20:: 56-55-3 Benzo(a)Anthracene 10:: 117-81-7 bis(2-Ethylhexyl)Phthalate 10:: 218-01-9 Chrysene 10:: 117-84-0 Di-n-Octyl Phthalate 10:: 205-99-2 Benzo(b)Fluoranthene 10:: 207-08-9 Benzo(a)Pyrene 10:: 50-32-8 Benzo(a)Pyrene 10::	87-86-5	Pentachierophenol	50u
### 100 ### 10	85-01-8	Phenanthrene	10u
206-44-0 Fluoranthene 10u 129-00-0 Pyrene 10u 155-68-7 Butylbenzylphthalaje 10u 11-94-1 3, 3'-Dichlorobenzidine 20u 156-55-3 Benzo(a)Anthracene 10u 117-81-7 bis(2-Ethylhexyl)Phthalate 10u 117-84-0 Di-n-Octyl Phthalate 10u 117-84-0 Di-n-Octyl Phthalate 10u 205-99-2 Benzo(b)Fluoranthene 10u 207-08-9 Benzo(a)Pyrene 10u 150-32-8 Benzo(a)Pyrene 10u 193-39-5 Indeno(1, 2, 3-od)Pyrene 10u	120-12-7	Anthracene	1. 0 te
206-44-0 Fluoranthene 1 0u 129-00-0 Pyrene 1 0u 85-68-7 Butylbenzylphthalaje 1 0u 91-94-1 3, 3'-Dichlorobenzidine 20u 56-55-3 Benzo(a)Anthracene 1 0u 117-81-7 bis(2-Ethylhexyl)Phthalate 1 0u 218-01-9 Chrysene 1 0u 117-84-0 Di-n-Octyl Phthalate 1 0u 205-99-2 Benzo(b)Fluoranthene 1 0u 207-08-9 Benzo(a)Pyrene 1 0u 50-32-8 Benzo(a)Pyrene 1 0u 193-39-5 Indeno(1, 2, 3-od)Pyrene 1 0u	84-74-2	Di-n-Butylphthalate	10α
129-00-0 Pyrene	206-44-0	Fluoranthene	
B5-68-7 Butylbenzylphthalate 10u 91-94-1 3.3'-Dichlorobenzidine 20u 56-55-3 Benzo(a)Anthracene 10u 117-81-7 bis(2-Ethylhexyl)Phthalate 10u 117-84-0 Chrysene 10u 117-84-0 Di-n-Octyl Phthalate 10u 205-99-2 Benzo(b)Fluoranthene 10u 207-08-9 Benzo(a)Pyrene 10u 193-39-5 Indeno(1, 2, 3-cd)Pyrene 10u 193-39-5 Indeno(1, 2, 3-cd)Pyrene 10u	129-00-0	Pyrene	
91-94-1 3, 3'-Dichlorobenzidine 200 56-55-3 Benzo(a)Anthracene 100 117-81-7 bis(2-Ethylhexyl)Phthalate 100 218-01-9 Chrysene 100 117-84-0 Di-n-Octyl Phthalate 100 205-99-2 Benzo(b)Fluoranthene 100 207-08-9 Benzo(k)Fluoranthene 100 50-32-8 Benzo(a)Pyrene 100 193-39-5 Indeno(1, 2, 3-cd)Pyrene	85-68-7	Butylbenzylphthalate	
56-55-3 Benzo(a)Anthracene 100 117-81-7 bis(2-Ethylhexyl)Phthalate 100 218-01-9 Chrysene 100 117-84-0 Di-n-Octyl Phthalate 100 205-99-2 Benzo(b)Fluoranthene 100 207-08-9 Benzo(k)Fluoranthene 100 50-32-8 Benzo(a)Pyrene 100 193-39-5 Indeno(1, 2, 3-od)Pyrene 100	91-94-1	3. 3'-Dichlorobenzidine	200
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(s)Fluoranthene 10u 50-32-8 Benzo(s)Pyrene 10u 193-39-5 Indeno(1, 2, 3-od)Pyrene 10u	56-55-3	Benzo(a)Anthracene	
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-od)Pyrene 10u	117-81-7	bis(2-Ethylhexyl)Phthalate	
117-84-0 Di-n-Octyl Phinalate 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-od)Pyrene 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-od)Pyrene 10u			
207-08-9 Benzo(k)Fluoranthene 10u 50-32-8 Benzo(a)Pyrene 10u 193-39-5 Indeno(1, 2, 3-od)Pyrene 10u			
50-32-8 Benzo(a)Pyrene 10u 193-39-5 Indeno(1, 2, 3-od)Pyrene 10u			
193-39-5 Indeno(1, 2, 3-od)Pyrene 10u			
191-24-2 Benzo(g.h. i)Perylene 10u			

⁽¹⁾⁻Cannot be separated from diphenylamine

	Name _Camb	ridge Analytical	Associates
•	6666 KD		

Sample Number BC 084

Organics Analysis Data Sheet (Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)	GPC Cleanup EYes EINo
Date Extracted Prepared: -428/87 KO 5/4/87	Separatory Funnel Extraction DYes
Date Analyzed	Continuous Liquid - Liquid Extraction MYes
Conc 'Dil Factor: 150 1/5	
Percent Moisture (decented)	

CAS Number		Ug/lor ug/K (Circle One
319-84-6	Alpha-BHC	0.750
319 85-7	Beta-BHC	0.250
319-86-8	Delta-BHC	0,250
58-89-9	Gamma-BHC (Lindane)	0.200
76-44-8	Heptachior	0,250
309-00-2	Aldrin	0.250
1024-57-3	Heptachlor Epoxide	0.25U
959.98.8	Endosulfan I	0.250
60-57-1	Dieldrin	asou
72.55.9	4, 4'-DDE	0. SOU
72-20-8	Endrin	a.sou
33213-65-9	Endosullan II	0.500
72-54-8	4,4 -DDD	0.500
1031-07-8	Endosulfan Sulfate	0.500
50-29-3	4.4.001	a.SOU
72-43-5	Methoxychlor	250
53494 70 5	Endrin Ketone	0.500
57-74-9	Chiordane	2.50
8001-35-2	Tozaphene	5.00
12674-11-2	Aroclor-1016	250
11104-28-2	Aroclor-1221	2.50
11141-16-5	Aroctor-1232	2.50
53469-21-9	Aroclor-1242	250
12672-29-6	Arocior-1248	2,50
11097-69-1	Aroclor-1254	5,00
11096-82-5	Aroclor-1260	5.00

V. . Volume of extract injected (uf)

Vg = Volume of water extracted (ml)

W_a = Weight of sample extracted (g)

Vg = Volume of total extract (uf)

V ₄	1000 ml	er W ₆	V1 10,000 pl	v. 3,nl
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U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office P.O. Box 818, Alexandra, Vuguna 223:3 -703 557-2490 • FTS 557-2490

Sample Number BC 085

ORGANICS TRAFFIC REPORT

(1) Case Number:	1 🔾	ONCENTRATION (Check One)	ON	4 Sh	
Sample Site Name/Code:	Low (Media 3 SAMPLE N (Check C	Concentration um Concentration IATRIX One)	on	13.57	fer
(5) Regional Office: Sampling Personnel:	6 For each sam of containers on each bottle	used and mark v			(I) Analysis Lab: Rec'd by: A-AMM/L Date Rec'd: #29/87 Sample Condition
(Name)		Number of Containers	Approx Total V	rimate olume	on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
(Phone) Sampling Date:	Water (Extractable)				
(Begin) (End)	Water (VOA)				
(7) Shipping Information	Soil/Sediment (Extractable)	·		· · · ·	
	Soil/Sediment (VOA)				
Name of Camer	Other				
Date Shipped:					!
R: 1:11 Nr h				·	
Airbill Number: 8 Sample Description			9 Sarr	nle I 🗙	ration
Sample Description Surface Water Ground Water Leachate	Mixed Media Solids Other (specify) _		3 San	ipie LXX	- Carlon
10 Special Handling Instru (e.g., safety precautions, hazard					

Organics Analysis Data Sheet

(Page 1)

00171

ratory Name: __Cambridge Analytical Assoc. Case No: 46 Sample ID No: 8704240-3 CLPVOA1138 QC Report No: 68-01-7278 Water Contract No: _ Sample Matrix: _ Date Sample Received: Data Release Authorized By:

Volatile Compounds

(Circle One) Concentration: Low Medium Date Extracted/Prepared: Date Analyzed: .. Conc/Dil Factor: . N/A Percent Moisture: (Not Decanted).

CAS Number		ug/lor ug/Kg (Circle One)
74-87-3	Chloromethane	1.0u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5 4
67-64-1	Acetone	100
75-15-0	Carbon Disulfide	5 u
75-35-4	1, 1-Dichloroethene	5 u
75-34-3	1, 1-Dichloroethane	5 u
156-60-5	Trans-1, 2-Dichloroethene	5 u
67-66-3	Chloroform	5 u
107-06-2	1, 2-Dichloroethane	5 u
78-93-3	2-Butanone	100
71-55-6	1, 1, 1-Trichloroethane	S u
56-23-5	Carbon Tetrachloride	5 ນ
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichlurometharie	5 u

CAS Number		Ug/lår ug/Kg (Circle One)
78-87-5	1, 2-Dichleropropane	5 u
10051-02-6	Trans-1, 3-Dichloropropene	5 u
79-01-6	Trichlöroethene	5 u
124-48-1	Dibromochloromethane	5 u
79-00-5	1, 1, 2-Trichloroethane	5 u
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 0
110-75-8	2-Chloroethylvinylether	YOu
75-25-2	Bromoform	5 u
108-10-1	4-Methyl-2-Pentanone	10υ
591-78-6	2-Hexanone	10u
127-18-4	Tetrachioroethene	5 U
79-34-5	1, 1, 2, 2-Tetrachforcethane	5 u
108-88-3	Toluene	5 11
108-90-7	Chiorobenzene	5 u
100-41-4	Ethylbenzene	5 ບໍ
100-42-5	Styrene :	5 u
	Total Xylenes	5 u

Date Reporting Qualifiers

ing results to EPA, the following results quelifiers are used Idicional flags or feemeres explaining results are encouraged. However, the definition of each flag must be explicit

- If the result is a value greater than or equal to the detection bind, seems the value
 - Endicates compound was analyzed for but not detected. Report the imum detection films for the sample with the U/o g . 10UI based on necessary concentration /dilution action. (This is not necessarily the instrument detection firms). The destinate should read U-Compound was analyzed for but not detected. The number is the minum associated desertion firms for the sample
 - 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 specifal data naisabliness are areas and a compound that meets the identification Criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If firmit of detection is 10 µg/(and a corcentration of 249 1 is executored, report as 33
- This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component posticides 210 ng ut in the final extract should be sentenced by GC/MS
- This king is prediction the analyse is found in the blank as well as a sample. A indicates possible probable atoms communication and words the data user to take appropriate action
- Other specific flags and featnesss may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

Cambridge	Analytical	<u>Associates</u>
1204		

Semple Number BC 085

00172

Organics Analysis Data Sheet (Page 2)

Semivo	latile	Com	oounds
O 0 1 1 1 1 V O		~~~	,,,,,,,,

Concentration:	Medium (Circle One)	(
Date Extracted 'Prepare	red: _5/4/87	
Date Analyzed:	5/20/87	. (
Conc./Dil Factor:		
Percent Moisture (De	canted)N/A	

GPC Cleanup 🗆 Yes 🖾 No

Continuous Liquid - Liquid Extraction MYes

CAS Number		ug /I or ug / Kg (Circle One)
108-95-2	Phenol SN.	100 11
111-44-4	bis(-2-Chloroethyl)Ether	IUU .
95-57-8	2-Chlorophenol	108
541-73-1	1 3-Dichlorobensene	10a
106-46-7	1. 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	100
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylpheno'	100 103
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachioroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isopherone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2. 4-Dimethylphenol	10u
65-85-0	Benzoic Acid SAL	SAL 103
111-91-1	bisi-2-Chloroethoxy)Methane	10u
120-83-2	2. 4-Dichlorophenal	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chlorosniline	100
87-68-3	Hexachlorobutadiene	100
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 Phthalata	10u
208-96-8	Acenephthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/lor ug / Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50น
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	1 Ou
121-14-2	2 4-Dinitrotoluene	1 Ou
606-20-2	2. 6-Dinitrotoluene	1.0u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	1.0u
100-01-6	4-Nitrosniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachiorophenol	5 0 u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	1.00
84-74-2	Di-n-Butylphthalate	100-11
206-44-0	Fluoranthene ,	10u
129-00-0	Pyrene ;	1 Ou
85-68-7	Butylbenzyiphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	200
56-55-3	Benzo(a)Anthracene	100
117-81-7	bis(2-Ethylhexyl)Phthalater	10m 5J
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	1 0 u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	1 0 u
193-39-5	Indeno(1, 2, 3-cd)Pyrane	100
53-70-3	Dibenz(a, h)Anthracene	100
191-24-2	Benzo(g. h. i)Perylene	10u

⁽¹⁾⁻Cannot be separated from diphenylamine

Joratory	NameCambridge Analytis	cal_Associates
ase No _	7204	

Sample Number B.C. 085

Organics Analysis Data Sheet (Page 3)

00173

Pesticide/PCBs

Concentration: Low Medium (Circle One)	GPC Cleanup @Yes MNo
Date Extracted Prepared: 5/4/87	Separatory Funnel Extraction DYes
Date Analyzed5/31/87	Continuous Liquid - Liquid Extraction Dives
Conc 'Dil Factor: 1/10	
Percent Maisture (decented)	

CAS Number		Ug /I or ug / Ki (Circle One
319-84-6	Alpha-BHC	0.50
319-85-7	Beta-BHC	0.50
319-86-8	Delta-BHC	0.50
58-89-9	Gamma-BHC (Lindane)	0.50
76-44-8	Heptachlor	0.50
309-00-2	Aldrin	0.50
1024-57-3	Heptachlor Epoxide	0.50
959.98-8	Endosulfan I	0.50
60-57-1	Dieldrin	7.00
72-55-9	4.4 -DDE	1.00
72-20-8	Endrin	1.00
33213-65-9	Endosulian II	1.00
72-54-8	4, 4 - DDD	1.00.
1031-07-8	Endosulfan Sulfate	1.00
50-29-3	4, 4'-DDT	1.00
72-43-5	Methoxychlor	5.00
53494-70-5	Endrin Ketone	1.00
57-74-9	Chlordane	5,00
8001-35-2	Toxaphene	10,00
12674-11-2	Aroclor-1016	5.00
11104-28-2	Arocior-1221	5.00
11141-16-5	Aroctor-1232	5.00
53469-21-9	Aroclor-1242	5.00
12672-29-6	Aroclor-1248	5.00
11097-69-1	Arocior-1254	10.00
11096-82-5	Aroclor-1260	10.00

V_i = Volume of extract injected (ul)

= Volume of water extracted (mil)

W_a * Weight of sample extracted (g)

V_g = Volume of total extract (ul)

V.	1000 ml	•• W ₆	4 10,000 pl	v, 3 ml
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	alytical Associates
,204	

BC 085	Sampl	e Number
	BC	085

00174

Organics Analysis Data Sheet (Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Frection	RT or Scan Rumber	Estimated Concentration (ug/l or ug/kg)
1	dihydro-23H) Furanone	BNA	8.74	68 J
2	9- hexadecenoic acid		23.83	95
3	17- Pentratria contene NOS		34.09	4
4	24-Cyclopopal(3,470,2-b]oxirone		35.65	15.5
8	nonacosanol		37.61	48 丁
6	17-Pentatric contene NOS		39.95	205
7	1- Dotria contanol	V	42.82	315
8	rone found	VOA		
10	<u> </u>	 		
11		 		
		 		
12 13		 		
16		 		
15		 		
16		 		
17		 		
18				
19		-		
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22			!	
23				
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25				
26				
27				
28				
29				
30				



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office P.O. Box 818, Alexandra, Virginia 223:3-783 557-2490 • FTS 557-2490 • ORGANICS TRAFFIC REPORT

Sample Number BK 238

(1) Case Number:	② SAMPLE CO	NCENTRATIO eck One)	N	4 Shir	DEIDGE ANAUTICAL;
Sample Site Name/Code:	Low Concentration Medium Concentration			1106 C	OMMOWEALTH AVE NIMA 02215 SHARIN WALER:
	3 SAMPLE M. (Check Or Water Soil/Se			Transf Ship T	er 0032 7 To:
Sampling Personnel: NUS (Name)	6 For each samp of containers to on each bottle.	sed and mark v	Approx Total V	rimate	1) Analysis Lab: Rec'd by Lawley Date Rec'd: #29/87 Sample Condition on Receipt (e.g., broken, ice, Chain-of-Custody, etc.)
(Phone) Sampling Date:	Water (Extractable)	2	16	002	
<u>ー/フェ/スフ</u> (Begin) (End)	Water (VOA)	2	<u>ئ</u> ر	50mm	
3 Shipping Information	Soil/Sediment (Extractable)				30 to 10 to
Name of Carrier	Soil/Sediment (VOA)		0-	30 oz	
2/23/27. Date Shipped: .					
3~1502576+				1	
Airbill Number:					
8 Sample Description	÷		(9) Sau	mple Lo	cation
Surface Water Ground Water	Mixed Media Solids				
Leachate -	Other (specify)	· · · · · · · · · · · · · · · · · · ·		NYR	9 -GW1
(e.g., safety precautions, haz	ructions:	1 ATCHES T	IN 0	RGAN ORT 1	IC 14 MBJ 137

Semple Number BX Z3 8

Organics Analysis Data Sheet (Page 1)

Aboratory Name: Cambridge Analytical Assoc. Case No: 7204

Lab Sample ID No: 8704240-04 (2010A1139)

Sample Matrix: Water

Contract No: 68-01-7278

Data Release Authorized By: Date Sample Received: 4/29/87

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/5/87

Date Analyzed: 5/5/87

Conc/Dil Factor: pH T

Percent Moisture: (Not Decented) N/A

CAS Number		ug/l or ug/Kg (Circle One
74-87-3	Chloromethane	100
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10ບ
75-00-3	Chloroethane .	10u
75-09-2	Methylene Chloride	5 u
67-64-1	Acetone	700
75-15-0	Carbon Disulfide	5 u
75-35-4	1, 1-Dichloroethene	5 11
75-34-3	1, 1-Dichloroethane	1 5 u
156-60-5	Trans-1, 2-Dichloroethene	1 5 u
67-66-3	Chloroform	5 u
107-06-2	1, 2-Dichloroethane	5 u
78-93-3	2-Butanone	100
71-55-6	1, 1, 1-Trichlorgethene	5 u
56-23-5	Carbon Tetrachloride	5 11
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichluromethane	5 u

CAS Number		ug/jer ug/Kg (Circle One)
78-87-5	1, 2-Dichleropropane	5 и
10061-02-6	Trans-1, 3-Dichloropropene	15 u
79-01-6	Trichloroethene	5 u
124-48-1	Dibromochloromethane	5 u
79-00-5	1, 1, 2-Trichloroethene	5 u
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	D U
110-75-8	2-Chloroethylvinylether	You
75-25-2	Bromoform	5 u
108-10-1	4-Methyl-2-Pentanone	10u
591-78-6	2-Hexanone	10u
127-18-4	Tetrachloroethene	5 u
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 11
108-88-3	Toluene	5 11
108-90-7	Chlorobenzene	5 u
100-41-4	Ethylbenzene /	5 ů
100-42-5	Styrene	5 u
į	Total Xylenes	5 ย

Date Reporting Qualifiers

For reporting results to EPA, the following results quolifiers are used. Additional flags or feetneses explaining results are encouraged. Movimer, the definition of each flag must be explicit.

- falue If the result is a value greater than or equal to the detection limit, separt the value
 - And-cases compound was analyzed for but not detected. Report the minimum detection time for the sample with the Use g., 10UI based on necessary concentration/dilution action. (This is not necessarily the instrument detection firms.). The desirate about read. U-Compound was analyzed for but not detected. The number is the minimum attainable detection time for the compile.
 - Indicates an estimated volve. 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 date indicated the presence of a compound this meets the identification criteria but the result is less than the specified detection first but greater than zero (e.g., 10.8). If finish of detection is 10 µg/1 and a concentration of 3 µg/1 are calculated, report as 3J.
- © This ling against to posticate parameters where the identification has been confirmed by GC/MS. Single component posticities≥10 ng. uf in the final extract should be confirmed by GC/MS.
- 8 This flag is used when the analyse is found in the blank of well as a comply. It indicates possible (probable blank consommation and words the dolo user to take appropriate action.

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

ne <u>Cambridge</u>	Analytical	<u>Associates</u>
7204		

Sample Number BK 239

Organics Analysis Data Sheet (Page 2)

Semivolatile Compounds

00329

Concentration: Medium (Circle One)	GPC Cleanup □Yes ØNo
Date Extracted 'Prepared: 5/4/87	Separatory Funnel Extraction
Date Analyzed 5/20/87	Continuous Liquid - Liquid Extraction EYes
Conc./Dil Factor:	
Percent Moisture (Decanted) N/A	

CAS Number		ug /lor ug /Kg (Circle One)
83-32-9	Acenaphthene	1 Ou
51-28-5	2, 4-Dinitrophenol	50น
100-02-7	4-Nitrophenal	50u
132-64-9	Dibenzofuran	1 Ou
121-14-2	2 4-Dinitrotoluene	l Ou
606-20-2	2.6-Dinitrotoluene	1.00
84-66-2	Diethylphthalate	1 0 u
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	1.0u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	1 Ou
101-55-3	4-Bromophenyl-phenylether	1 0 u
118-74-1	Hexachiorobenzene	10u
87-86-5	Pentachiorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	1.01
84-74-2	Di-n-Butylphthalate	1 Ou
206-44-0	Fluoranthene	10u
129-00-0	Pyrene	1 Ou
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	1.00
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)Pyrane	100
53.70.3	Dibenz(a h)Anthracene	100
191-24-2	Benzo(g.h. i)Perylene	10u

CAS Number		ug/lor ug/Kg (Circle One)
108 95 2	Phenol	10u
111-44-4	bisi-2-ChloroethyllEther	TOU
95-57-8	2-Chiorophenol	100
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	100
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylpheno	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachioroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isopherone	10u
88-75-5	2-Nitrophenol	10u -
105-67-9	2. 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bisi-2-ChloroethoxylMethane	10u
120-83-2	2. 4-Dichiprophenol	10u
120-82-1	1, 2, 4-Trichlorobenzehe	100
91-20-3	Naphthalene	100
106-47-8	4-Chloroanitine	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	100
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 Phthalata	10u
208-96-8	Acenephthylene	10u
99-09-2	3-Nitroaniline	50u

(1)-Cannot be separated from diphenylamina

Aboratory	Name <u>Cambridge Analyt</u>	ical Associates
Case No	7204	

Sample Number BK.238

Organics Analysis Data Sheet (Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)	GPC Cleanup DYes BNo
Date Extracted Propered: 5/4/87	Separatory Funnel Extraction (1) Yes
Date Analyzed5/31/87	Continuous Liquid - Liquid Extraction Eyes
Conc 'Dil Factor:	
Percent Moisture (decented)	

CAS Number		ug/Lor ug/K (Circle One
319-84-6	Alpha-BHC	0.050
319-85-7	Beta-BHC	0.050
319-86-8	Deha-BHC	0.050
58 89 9	Gamma-BHC (Lindane)	0.050
76-44-8	Heptachlor	0.050
309-00-2	Aldrin	0.050
1024-57-3	Heptachior Epoxide	0.050
959-98-8	Endosulfan i	0.050
60-57-1	Dieldrin	0.10
72-55-9	4,4 -DDE	0,10
72-20-8	Endrin	0.10
33213-65-9	Endosulfan il	0.10
72-54-8	4, 4 -DDD	0.10
1031-07-8	Endosullan Sullate	0.11)
50.29.3	4.4 -DDT	0,10
72-43-5	Methoxychlor	0.50
53494-70-5	Endrin Ketone	0.10
57-74-9	Chiordane	0,50
8001-35-2	Tozaphene	iou
12674-11-2	Arocior-1016	0.50
11104-28-2	Aroclor-1221	0.50
11141-16-5	Aroctor-1232	0.50
53469-21-9	Arocior-1242	0.50
12672-29-6	Aroclor-1248	0,50
11097-69-1	Arocior-1254	1.00
11096-82-5	Aroclor-1260	1.00

V₄ = Volume of extract injected (ul)

Vg = Volume of water extracted (ml)

Wg = Weight of sample extracted (g)

V_E = Volume of total extract (ul)

V.	1000 ml	er W ₈	V, 10,000 al	v, 3.1
----	---------	-------------------	--------------	--------

₁ø <u>Cambridge</u>	Analytical	Associates
7204		

Sample	Number
BK	238

Organics Analysis Data Sheet (Page 4)

00331

Tentatively Identified Compounds

L	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug /kg)
1.		dihydro-2f3#). Firanone	BNA	8.74	675
2.		unknown branched alkane	4	8.92	155
3.		non detected	VOA		
4.					
5 .					•
.					
7.					
10					
14.,			1		
15.,					
18.,					
17.,					
_					
			1		
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			- -		

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office P.O. Box 818, Alexandra, Virginia 22313-703 557-2490 • FTS 557-2490 ORGANICS TRAFFIC REPORT

Sample Number

BK 239

#MBJ 292.

① Case Number:	② SAMPLE CONCENTRATION (Check One)			(4) Ship To: CAMBEIDGE ANALYTUAL A 1106 COMMONWEALTH AVE		
Sample Site Name/Code:	Low Concentration Medium Concentration Attn: (Check One) Trans			डि ०व	70N. MA 02215	
				SHARON WALERS. der To: 00344		
Sampling Personnel: FIT 2 DiffECT (Name)	6 For each sample collected specify number of containers used and mark volume level on each bottle. Number of Approximate				Analysis Lab: Rec'd by: 79/87 Date Rec'd: 4/29/87 Sample Condition on Receipt (e.g., broken, no	
(Name) (Phone)	Water	Containers	Total V	olume	ice, Chain-of-Custody, etc.)	
Sampling Date: 1/2 5/27 4/27 (Begin) / (End)	(Extractable) Water (VOA)	2	_	oz		
7 Shipping Information	Soil/Sediment (Extractable)					
4/28/87	Soil/Sediment (VOA)					
Name of Carrier	N+でと - Other (と3/25分	i	80	07		
Date Shipped:						
3448075755						
Airbill Number:					<u> </u>	
Sample Description			9 San	aple Lo	cation	
Surface Water	Mixed Media					
Ground Water Leachate	Solids Other (specify) .	NYR9-GWZ				
Special Handling Instru (e.g., safety precautions, hazar	dous nature)	TCHES /	N 026	ANIC	. T- REPORT	

LAB COPY FOR RETURN TO SMO

Sample Number BKZ39

Organics Analysis Data Sheet

(Page 1)

00345

poratory Name:Cambridge Analytical A	550C. Case No				
Lab Sample ID No: 8704240-05 CLPVOAL	68-01- 7278				
Sample Matrix: Water Data Release Authorized By:	Contract No: 429 87				
Volatile Compounds					

Concentration: Low Date Extracted/Prepared:	Medium	(Circle C	ne)
Date Extracted/Prepared:	5/5	87	
Date Analyzed:	5/6/8	<u> </u>	
Conc/Dil Factor:	pH	<u>-</u>	
Percent Moisture: (Not De	canted)	N/A	

CAS Number		ug/lor ug/K (Circle One
74-87-3	Chloromethane	100
74-83-9	Bromomethane .	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5 u
67-64-1	Acetone	300
75-15-0	Carbon Disuffide	5 11
75-35-4	1, 1-Dichloroethene	5 u
75-34-3	1, 1-Dichforcethane	5 u
156-60-5	Trans-1, 2-Dichloroethene	5 บ
67-66-3	Chloroform	5 u
107-06-2	1, 2-Dichloroethane	5 u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethene	5 u
56-23-5	Carbon Tetrachloride	5 u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichluremetherie	5 u

CAS Number	· · · · · · · · · · · · · · · · · · ·	ug/jer ug/Kg (Circle One)
78-87-5	1, 2-Dichleropropane	5 u
10061-02-6	Trans-1, 3-Dichloropropene	5 u
79-01-6	Trichloroethene	5 u
124-48-1	Dibromochloromethane	5 u
79-00-5	1, 1, 2-Trichloroethene	5 u
71-43-2	Benzene	5 U
10061-01-5	cis-1, 3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	100
75-25-2	Bromoform	5 u
108-10-1	4-Methyl-2-Pentanone	10u
591-78-6	2-Hexanone	10u
127-18-4	Tetrachloroethene	5 u
79-34-5	1, 1, 2, 2-Tetrachloroethane	5.0
108-88-3	Toluene	5 11
108-90-7	Chlorobenzene	5 u
100-41-4	Ethylbenzene	5 ů
100-42-5	Styrene	5 u
	Total Xylenes	5 บ

Date Reporting Qualifiers

For reporting results to EPA, the following results quelifiers are used Addressal flags or featness explaining results are encouraged However, the definition of each flag must be explicit

- If the result is a value greater than or equal to the detection limit, report the value
 - Indicates compound was analyzed for but not detected. Report the minimum detection firms for the sample with the U to 8 . 10Ul besed on necessary concentration /dilution action. (This is not necessarily the instrument detection firms). The desirate should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection firms for the sample
 - Andicairs an estimated value. This stop is used either when estimating a concentration for tentationly identified compounds where a 1.1 response is assumed or when the mass specifial data andicated the presence of a compound that meets the identification Criteria but the result is less than the specified detection limit but greater than zero to g. 10J). If firms of detection is 10 pg/l and a concentration of 3 µg /1 is calculated, report as 3.4
- This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component posticides 210 ng ut in the final extract should be confirmed by GC/MS
- This lies is used when the analyse is found in the blank as well as a sample it indicates possible/probable blank contamination and worns the data uper to take appropriate action
- Other specific flags and featness may be required to properly define Other the results. If used, they must be fully described and such describion attached to the dots summary report

ne <u>Cambridge</u>	Analytical	Associates
7204		_

Sample Number BK 239

Organics Analysis Data Sheet (Page 2)

00346

Semivolatile Compounds

Joncentration:	Mediur	n,	(Circle One)
Date Extracted 'Prepared:	-51	418	
Date Analyzed	5/2	FO 1.	8'1
Conc./Dil Factor:	1		
Percent Moisture (Decant	ed)	N/A	

GPC Cleanup 🗆 Yes 🖾 No

Separatory Funnel Extraction (1)Yes

Continuous Liquid - Liquid Extraction XYes

CAS Number		ug/lorug/Kg (Circle One)
108-95-2	Phenol	10u
111-44-4	bis(-2-Chloroethyl)Ether	1011
95-57-8	2-Chlorophenol	108
541-73-1	1 3-Dichlorobenzene	104
106-46-7	1. 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10น
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2 Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	100
106-44-5	4-Methylpheno	100
621-64-7	N-Nitroso-De-n-Propylamine	100
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorene	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenal	10u
65-85-0	Benzoic Acid	500
111-91-1	bis/-2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenal	10u
120-82-1	1, 2, 4-Trichlorobenzehe	1.0u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroeniline	100
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-Nitroeniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroeniline	50u

CAS Number		(Circle One)
83-32-9	Acenaphthene	10 u
51-28-5	2, 4-Dinitrophenol	50น
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	1 Ou
121-14-2	2 4-Dinitrotoluene	1 Ou
606-20-2	2.6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	1 Ou
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	1.0u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	100
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachierophenol	5 0 u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	100
84-74-2	Di-n-Butylphthalate	1.00
206-44-0	Fluoranthene	10u
129-00-0	Pyrene	100
85-68-7	Butylbenzylphthalate	1 Ou
91-94-1	3, 3'-Dichlorobenzidine	200
56-55-3	Benzo(a)Anthracene	100
117-81-7	bisi2-EthylhexyllPhthalate	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	100
53-70-3	Dibenzia, hjAnthracene	100
191-24-2	Benzo(g. h. i)Perylene	10u

(1)-Cannot be separated from diphenylamine

4001810	y Name <u>Cambridge Analytical Accociates</u>	
Case No	7204	

Sample Number BK ,239

Organics Analysis Data Sheet (Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)	GPC Cleanup DYes 2No
Date Extracted 'Prepared: 5/4/87	Separatory Funnel Extraction Dives
Date Analyzed 5/31/87	Continuous Liquid - Liquid Extraction Eyes
Conc 'Dil Factor:	
Parrant Majerura Idana and	

CAS Number		ug/l or ug/Ki (Circle One
319-84-6	Alpha-BHC	0.050
319-85-7	Beta-BHC	0,050
319-86-8	Delta-BHC	0.050
58-89-9	Gamma-BHC (Lindane)	0.050
76-44-8	Heptachlor	0.050
309-00-2	Aldrin	0.050
1024-57-3	Heptachior Epoxide	0.050
959.98-8	Endosulfan I	0,050
60-57-1	Dieldrin	0.10
72-55-9	4.4.DDE	0,10
72-20-8	Endrin	aiu
33213-65-9	Endosulfan II	0,10
72-54-8	4.4 -DDD	0.10
1031-07-8	Endosulfan Sulfate	0.10
50-29-3	4.4 -DDT	0.10
72-43-5	Methoxychlor	0.50
53494-70-5	Endrin Ketone	0.10
57.74.9	Chlordane	0.50
8001-35-2	Toxephene	1.00
12674-11-2	Aroclor-1016	0.50
11104-28-2	Aroclor-1221	0,50
11141-16-5	Aroctor-1232	0,50
53469-21-9	Aroclor-1242	0.50
12672-29-6	Arocior-1248	0.50
11097-69-1	Aroclor-1254	0,50
11096-82-5	Aroclor-1260	0.50

V₄ = Volume of extract injected (ul)

Vg = Volume of water extracted (ml)

Wa = Weight of sample extracted (g)

V₂ = Volume of total extract (ul)

V.	1000ml	•• W _s	V1 10,000 1	V,	3 ml	_
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ne <u>Cambridge</u>	Analytical	Associates
7204		

Sample Number
BK 239

Organics Analysis Data Sheet (Page 4)

. 00348

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (lug/l or ug/kg)
1	dihyano-2(3H)-furanono	BNA	.8.68	295
2	none detected	VOA		
3				-
4				
5				
· ———				
7				
•				
10				
11		- 		
12				
13		1		
14				
15				
16				
17				
18				
9				
0				
11			,	
2				
4				
5				
6		+		
7.				
		- -		
9		- -		
0.		++		

	Aman Market
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•	No.

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Ottice PO. Box 818, Alexandra, Virginia 22313—703 557 2490 • FTS 557-2490

Sample Number

BF 429

ORGANICS TRAFFIC REPORT

① Case Number:		ONCENTRATION (Control of the Control	ON	(4) Shi	id To: EIDGE ANAU/TICAL
Sample Site Name/Code:		Concentration um Concentration	on	. "	COMMONWEALTH AV
	③ SAMPLE M (Check C <u>✓</u> Water — Soil/S	One)		Attn: Trans Ship	06300
(5) Regional Office: YUS Sampling Personnel: FIT 2 P. DOLFPTY	© For each sam of containers on each bottle	used and mark v	rolume le	vel	1) Analysis Lab: Rec'd by: A. Acylla Date Rec'd: ##22/8-26 Sample Condition #/29, on Receipt (e.g., broken, fic
(Name)		Number of Containers		ima te olume	ice, Chain-of-Custody, etc.)
(Phone) Sampling Date:	Water (Extractable)	2	(C) 07		OK
(Begin) (End)	Water (VOA)	2	Bomi		
7 Shipping Information	Soil/Sediment (Extractable)				
FETERAL FRAZESS	Soil/Sediment (VOA)	·			
Name of Carrier	NATER Other Co /PEST)	1	3 202.		
Date Shipped:					
3+900070	•				
349 8025 786.	•				
8 Sample Description			(9) Sam	ple Loc	ation
Surface Water	Mixed Media				
Ground Water	Solids	DID RIJANU I			
Leachate	Other (specify)	CIF I DAVIE	NYR	9-B	L1
(e.g., safety precautions, hazan		MATCHES	120	26 A	vic T-REPORT
, , , , , , , , , , , , , , , , , , , ,	•				# MBF 484

Laboratory I	eme <u>Cambridge Analytical Associate</u>	25
Case No:	7204	

Sample Number BK24/

Organics Analysis Data Sheet (Page 2)

Semivolatile Compounds

00417

Concentration: Low	Medium (Circle One)
Date Extracted 'Prepared: _	5-8-87
Date Analyzed:	5-28-87
Conc./Dil Factor:	
Percent Moisture (Decanted	

GPC Cleanup 🗆 Yes 💆 No

Separatory Funnel Extraction DYes

Continuous Liquid - Liquid Extraction □Yes

CAS Number		ug /I or ug /Kg (Circle One
108-95-2	Phenol 12,000	6400 H-32
111-44-4	bis(-2-Chloroethyl)Ether	blenbu
95-57-8	2-Chiorophenol	(de06 u
541-73-1	1 3-Dichlorobenzene	6000
106-46-7	1, 4-Dichlorobenzene	(dono u
100-51-6	Benzyl Alcohol	6600 4
95-50-1	1, 2-Dichlorobenzene	(x600 4
95-48-7	2-Methylphenol 28,000	6600 or 500
39638-32-9	bis(2-chloroisopropyl)Ether	(do00 in
106-44-5	4-Methylpheno 71,000	With good
621-64-7	N-Nitroso-Di-n-Propylamine	(d000 v
67-72-1	Hexachloroethane	(daOD U
98-95-3	Nitrobenzene	(daOD V
78-59-1	Isophorene	(da(X)) u
88-75-5	2-Nitrophenol	(0(001) u
105-67-9	2. 4-Dimethylphenol 50,000	(0(000 to -500)
65-85-0	Benzoic Acid 18:000 J	32000 W SAL
111-91-1	bist-2-ChloroethoxylMethane	1010100
120-83-2	2. 4-Dichlorophenol ·	6606U
120-82-1	1. 2. 4-Trichlorobenzene	66000
91-20-3	Naphthalene 3000 T	460H-50-
106-47-8	4-Chloroaniline	64004
87-68-3	Mexachlorobutadiene	(6000 u
59-50-7	4-Chlore-3-Methylphenol	MODDU
91-57-6	2-Methylnaphthalene 4302	(donu-cel
77-47-4	Hexachlorocyclopentadiene	6600 u
88-06-2	2. 4. 6-Trichlorophenol	6600 N
95-95-4	2. 4. 5-Trichlorophenol	32000 y
91-58-7	2-Chlorenaphthalene	(decou
89-74-4	2-Nitroenifine	32.000 W
131-11-3	Dimethyl Phthalate	Ulerou
208-96-8	Acenephthylene	6000U
99-09-2	3-Nitrosniline	320004

CAS Number		ug/lo(ug/Kg (Circle One)
B3-32-9	Acenaphthene	6600u
51-28-5	2, 4-Dinitrophenol	32000 U
100-02-7	4-Nitrophenol	32000 U
132-64-9	Dibenzofuran	660D U
121-14-2-	2 4-Dinitrotoluene	6600 u
606-20-2	2.6-Dinitrataluene	lelevo u
84-66-2	Diethylphthalate	66004
7005-72-3	4-Chiorophenyl-phenylether	leletO U
86-73-7	Fluorene	6600 sa
100-01-8	4-Nitroaniline	66001
534-52-1	4. 6-Dinitro-2-Methylphenol	320004
86-30-6	N-Nitrosodiphenylamine (1)	6600 h
101-55-3	4-Bromophenyl-phenylether	6600 U
118-74-1	Hexachlorobenzene	6600 u
87-86-5	Pentachiorophenoi	32000 4
85-01-8	Phenenthrene 2000 J	10600 44 sec
120-12-7	Anthrecene 6600 U	WIDOTT OOL
84-74-2	Di-n-Butylphthalate 140,000	10600 mg
206-44-0	Fluoranthene 6600 4	(A (O) 4 SQ_
129-00-0	Pyrene 2000J	6600 4-30 L
85-68-7	Butyibenzyiphthelate	6600 u
91-94-1	3, 3'-Dichlorobenzidine	132004
56-55-3	Benzo(a)Anthracene	6600U
117-81-7	bis(2-Ethylhexyl)Phthalate	10000 Tag,00
218-01-9	Chrysene .	6600 U
117-84-0	Di-n-Octyl Phthalate	66001e
205-99-2	Senzo(b)Fluoranthene	6600.
207-08-9	Benzo(k)Fluoranthene	10600 V
50-32-8	Benzo(a)Pyrene	6600.1
193-39-5	Indeno(1, 2, 3-cd)Pyrene	6600 u
53-70-3	Dibenzia hjAnthracene	6600
191-24-2	Benzo(g.h.i)Perylene	6600 U

(1)-Cannot be separated from diphenylemine

Laboratory Name _	Cambridge Analytical Associates	
Case No	0-1	

Sample Number	
BK.241	

Organics Analysis Data Sheet (Page 3)

00418

Pesticide/PCBs

Concentration: Low Medium (Circle One)	GPC Cleanup DYes MNo
Date Extracted Propered: 5/6/87	Separatory Funnel Extraction (DYes)
Date Analyzed 5/3/87	Continuous Liquid - Liquid Extraction (1) Yes
Conc 'Dil Factor: 10	
Percent Moisture (decented) 41 %	

CAS Number		ug/l or ug/K (Circle One
319-84-6	Alpha-BHC	80.00
319-85-7	Beta-BHC	80.00
319-86-8	Deta-BHC	80,0U
58 89 9	Gamma-BHC (Lindane)	80.00
76-44-8	Heptachlor	80.00
309-00-2	Aldrin	80.00
1024-57-3	Heptachlor Epoxide	80.00
959.98.8	Endosullan I	80.00
60-57-1	Dieldrin	160.00
72-55-9	4.4 -DDE	160,00
72-20-8	Endrin	160,00
33213-65-9	Endosulian II	160.00
72-54-8	4.4 -DDD	160,00
1031-07-8	Endosulfan Sulfate	160.00
50-29-3	4, 4 -DDT	16000
72-43-5	Methoxychlor	800,00
53494-70-5	Endrin Ketone	1600.00
57.74.9	Chiordane	800.00
8001-35-2	Toxaphene	1600.00
12674-11-2	Arcclor-1016	800.0U
11104-28-2	Arocior-1221	800.0 ∪
11141-16-5	Aroctor-1232	800.0 ∪
53469-21-9	Arocior-1242	80000
12672-29-6	Arocior-1248	800.00
11097-69-1	Aroclor-1254	1600.00 20
11096-82-5	Arocior-1260	1600.00

2910 €

V.		/blume	of extract	injected ([U]
----	--	--------	------------	------------	-----

Va . Volume of water extracted (ml)

Wa = Weight of sample extracted (g)

Vg = Volume of total extract (ul)

	_ v, 20,000 nl	v, 3 nl
--	----------------	---------



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office P.O. Box 818, Alexandra, Virginia 22313-703 557 2490 • FTS. 557-2490 ORGANICS TRAFFIC REPORT

Sample Number

Case Number:	(Check One) (Ship To:			
Sample Site Name/Code:		Concentration um Concentratio	on 30570	COMMONINEALTH AVE ON, MA
	3 SAMPLE MATRIX (Check One) Water Soil/Sediment Attn: SHARON WALER Transfer Ship To: 00201			
5 Regional Office: VUS Sampling Personnel: Fitz (Name)	6 For each sam of containers on each bottle	used and mark v	olume level Approximate	(I) Analysis Lab: Rec'd by: 1. April 2. Date Rec'd: 4/30/87 Sample Condition on Receipt (e.g., broken, no
(Phone) Sampling Date:	Water (Extractable)	Containers	Total Volume	ice, Chain-of-Custody, etc.)
(Begin) (End)	Water (VOA)			
7) Shipping Information	Soil/Sediment (Extractable)	ţ	807	
FFT)F741 FXPDES	Soil/Sediment (VOA)		1 Zumf	
Name of Carrier	Other 23/250		907	
Date Shipped:				1
3492025764 Airbill Number:				1
8 Sample Description			Sample Loc	cation
Surface Water Ground Water	Mixed Media Solids			
Leachate	Other (specify)		NYR9	- 53
© Special Handling Instructions, hazard	ctions: dous nature)	MATCHES		MBF 482.

BF 427

Organics Analysis Data Sheet (Page 1)

00202R

Laboratory Name: _	Cambridge Ana	lytical Assoc.	Case No:	7204	
Lab Sample ID No:	8704240-11	CLPY0A1147	OC Report No:	21	
Sample Matrix:	Soil		Contract No:	58-01-727R	
Data Release Author	ized By:	h Suk	Date Sample Re	ceived: \$ 420/87 430	87

Volatile Compounds

Concentration: S	Tow Med	lium (Cir	cle One)
Date Extracted/Pr	repared:	M 5	687
Date Analyzed:	5/6	87	•
Conc/Dil Factor:	_5	PH	N/A
Percent Moisture:	(Not Decant	ed) a 5	5

CAS Number		ug/l or ug/Kr (Circle One
74-87-3	Chloromethane	50u
74-83-9	Bromomethane	50u
75-01-4	Vinyl Chloride	50u
75-00-3	Chloroethane	50u
75-09-2	Methylene Chloride D	264 17T
67-64-1	Acetone	50u
75-15-0	Carbon Disulfide	250
75-35-4	1, 1-Dichloroethene	2511
75-34-3	1, 1-Dichloroethane	25u
156-60-5	Trans-1, 2-Dichlorpethene	25u
67-66-3	Chloroform	25u
107-06-2	1, 2-Dichloroethane	25u
78-93-3	2-Butanone	50u
71-55-6	1, 1, 1-Trichforcethane	25u
56-23-5	Carbon Tetrachloride	25u
108-05-4	Vinyl Acetate	50u
75-27-4	Bromodichloremethane	25u

CAS Number		ug/l or ug/Kg (Circle Ons)
78-87-5	1, 2-Dichleropropane	25
10061-02-6	Trans-1, 3-Dichloropropene	25µ
79-01-6	Trichloroethene.	25u
124-48-1	Dibromochloromethane	25u
79-00-5	1, 1, 2-Trichloroethane	25u
71-43-2	Benzene	2511
10061-01-5	cis-1, 3-Dichtoropropene	254
110-75-8	2-Chloroethylvinylether	50u
75-25-2	Bromoform	25u
108-10-1	4-Methyl-2-Pentanone	50u
591-78-6	2-Hexanone	50u
127-18-4	Tetrachloroethene f	25u
79-34-5	1, 1, 2, 2-Tetrachloroethane	25u
108-88-3		75.127
108-90-7		25u
100-41-4	Ethylbenzene	25u
100-42-5	Styrene	25u
	Total Xylenes	250

Data Reporting Qualifiers

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

- Walue III the result is a value greater than or equal to the detection firms.
 - Indicates compound was analyzed for but not desected. Report the minimum desection hims for the sample with the Use § . 10Us based on necessary concentration /dilution action. (This is not necessarily the instrument desection limit.) The floringte should read U-Campound was analyzed for but not desected. The number is the minimum attoinable desection limit for the sample.
 - Indicates an estimated value. This flag is used either when estimating a concentration for tensatively identified compounds where a 1-1 response is assumed at when the mass specified data indicated the presence of a compound that meets the identification stratera but the result is less than the specified detection and our greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.
- This flag applies to pesticide parameters where the identification has been confirmed by GC MS. Single component posticides 210 kg all in the final extract should be confirmed by GC/MS.
- This flag is used when the analyte is faund in the blank as well as a sample. It indicates possible (probable blank contamination and warns the slate user to take appropriate action.
- Other operatio flags and feotoeses may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory	Name <u>Cambri</u>	dge Analytica	Associates
	7204		
Casa Na:	1201		

Sample Number BF 427

Organics Analysis Data Sheet (Page 2)

Semivolatile Compounds

Concentration: Low	Medium (Circle One)
Date Extracted /Prepared:	5-8-87
Date Analyzed:	5-21-87
Conc. (Dil) Factor:	5
Percent Moisture (Decent	~ =

GPC Cleanup TYes MNo

Separatory Funnel Extraction DYes

00203

Continuous Liquid - Liquid Extraction -Yes

-•		77 - 77
CAS Number		ug/locug/Kg (Circle Oper
106-95-2	Phenol 1100 J	HOFTH SEL
111-44-4	bisi-2-ChloroethyllEther	16504
95-57-8	2-Chiorophenol	16504
541-73-1	1 3-Dichlorobenzene	16504
106-46-7	1, 4-Dichlorobenzene	16504
100-51-6	Benzyl Alcohol	16504
95-50-1	1, 2-Dichlorobenzene	16504
95-48-7	2-Methylphenol	1650U
39638-32-9	bis(2-chloroisopropy)Ether	1650u
106-44-5		1050W
621-64-7	N-Nitroso-Di-n-Propylamine	1650u
67-72-1	Hexachioroethane	1650 U
90-95-3	Nitrobenzene	1650u
78-59-1	fsophorene	650 u
88-75-8	2-Nitrophenol	650 4
105-67-9	2.4-Dimethylphenel 3HOJ	HOSBUSON
65-85-0	Benzoic Acid	8000m
111-91-1	bisi-2-ChloroethoxylMethane	1650U
120-83-2	2, 4-Dichlorophenol	1650U
120-82-1	1, 2, 4-Trichlorobenzene	1650 U
91-20-3	Naphthalene 13005	1650 HS1-
106-47-8	4-Chlorosniline	1650U
87-68-3	Hexachlerobutsdiene	1650 U
59-50-7	4-Chlore-3-Methylphenol	1650 U
91-57-6	2-Methylnaphthalene 9800	16504-
77-47-4	Hexachiorocyclopentadiene	1650U
88-06-2	2.4.6-Trichlorophenol	165DU
95-95-4	2, 4, 5-Trichlorophenol	8000 M
91-58-7	2-Chlorenaphthalene	165Du
88-74-4	2-Nitroeniline	8000M
131-11-3	Dimethyl Phthalate	1650 W
208-96-8	Acenaphthylene	165DU
99-09-2	3-Nitroeniline	8000 N

CAS Number		ug/l or vg/Kg (Circle Case)
83-32-9	Acenaphthene 2400	1050 V
\$1.28.5	2, 4-Dinitrophenal	8006 U
100-02-7	4-Nitrophenol	RODOU
132-64-9	Dibenzofuran 1700	16-75 DU SEL
121-14-2	2 4-Dinitrotoluene	650U
806-20-2	2. 6-Dinitrotoluene	16504
84-86-2	Diethylphthalate	1650 U.
7005-72-3	4-Chiorophenyl-phenylether	16504
86-73-7	Fluorene 2100	1650 W sa
100-01-6	4-Nitrosniline	16504
534-52-1	4, 6-Dinitro-2-Methylphenol	8700 U
86-30-6	N-Nitrosodiphenylamine (1)	
101-55-3	4-Bromophenyl-ghenylether	16504
118-74-1	Hexachiorobenzene	16504
87-86-5	Pentachierophenol	8000 M
85-01-8	Phenenthrene 13,000	1650430
120-12-7	Anthrecene 8,900	HEO H-SAL
84-74-2	Di-n-Butylphthelate 5100	1650-4- SL
206-44-0	Fluorenthene 15,000	165011-5-
129-00-0	Pyrene 7,400	HEGO USEL
85-68-7	Butylbenzylphthelate	16504
91-94-1	3. 3'-Dichlorobenzidine	3300 U
56-55-3	Senzo(a)Anthracene 1400	
117-81-7	bis(2-Ethylhexyl)Phthelatese	1650 U-13 DO
218-01-9	Chrysene 8200	H5D-Har
117-84-0	Di-n-Octyl Phthelate	1650 V
205-99-2	Senzo(b)Fluoranthene97-00	
207-08-9	Senzo(k)Fluoranthene	1650-406L *
50-32-8	BenzolalPyrene 1,400	16.5.DH 36L
193-39-5	indeno(1, 2, 3-cd) PyrenesAL	
53·70·3	Dibenzia hjAnthracene St.	16-20 A 8RD
191-24-2	Benzolg, h. iPenylene 1900	1650H 664
	OF MARSALVAN DONZEN	Jok Himmanthe

Laboratory Na	meCam	bridge	Analytic	al_Asso	ciates
Casa No	7204				

Sample Number BF 427

Organics Analysis Data Sheet (Page 3)

- Pesticide/PCBs

Concentration: (Low) Medium (Circle One)	GPC Cleanup DYes MNo
Date Extracted Prepared: 5/8/87	Separatory Funnel Extraction Dives
Date Analyzed 5/3/87	Continuous Liquid - Liquid Extraction DYes
Cone 'Dil Factor: 10	
Percent Moisture (decented) 251.	

CAS Number		ug /I orlug /Kg (Circle Gne
319-84-6	Alpha-BHC	80.00
319-85-7	Bela-BHC	80.00
319-86-8	Defta-BHC	80.0U
58 89 9	Gamma-BHC (Lindane)	80.00
76-44-8	Heptachlor	80.00
309 ∞ 2	Aldrin	80.00
1024-57-3	Heptachlor Epozide	80.00
959-98-8	Endosulfan i	10.08
60-57-1	Dieldrin	160.00
72-55-9	4.4 -DDE	160,00
72-20-8	Endrin	160,00
33213-65-9	Endosullan H	160.00
72-54-8	4.4 ·DDD	160,00
1031-07-8	Endosulfan Sulfate	160-00
50-29-3	4, 4 -DDT	16000
72-43-5	Methoxychlor	800.0U
53494-70-5	Endrin Ketone	1600.00
57.74.8	Chlordane	800.00
8001-35-2	Tozaphene	1600.00
12674-11-2	Arocior-1016	800.00
11104-28-2	Aroclor-1221	800.00
11141-16-5	Aroclor-1232	800.0 U
53469-21-9	Aroclor-1242	800.00
12672-29-6	Arocior-1248	800.00
11097-69-1	Aroclor-1254	_1600.00 #0
11096-82-5	Aroclor-1260	1600.00

1580I C

V.	= Volume	of extract	injected	(u)
----	----------	------------	----------	------------

V_a = Volume of water extracted (ml)

W_a = Weight of sample extracted (p)

V_E = Volume of total extract (ul)

v	 v, 20,000 pl	_ v, 3, ul

Laboratory	Name <u>Cambridge Analytical Associates</u>
Case No _	7204

Semple Number BF H27

Organics Analysis Data Sheet (Page 4)

00205

Tentatively Identified Compounds

Number	Compound Name	Frection	AT or Scan Number	Estimated Concentration (ug/l er ug/kg)
1	hoxacosane Nos	BNA	14.24	2200丁
2	methy doderane stors isomer		14.46	2200
3	trimethy octane isomer		15.39	3300
4 5	octacosane 2005		15.81	2100
÷	trimethy octans isomer		16.94	3100
7	hexacosane vos	, 	17.26	3500
8.	Letramethy heptaderane isomer		18.13	6000
•	tritetra contane nos		18.34	2600
10	untrown alkane.		19.35	2600
11	tritetra contane Nos		19.49	3600
12	unknown alkane		19.93	6100
13	dimethyl dodecane isomer	1	2056	9000
14	unknown alkane	╂╌┼╌╌╌┫	21,27	15,000
15		*	2357)	8300
6	1	╂╃╼╼╂	29.06	12000
7	benzo (s) fluoranthono	1	33.34	1700
0	dihydro 23H) furanone		8.72	4500
9	MX4COSANE NOS		12.54	2800
<u> </u>	unknown	V	12.81	2000
				2000
2	none found	VOA		
3	V			
4				
5		\coprod		
đ				
7				
0				

ALES ECO.	
1	,
STO	
Total March .	1

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office P.O. Box 918, Alexandra, Virginia 22313—703 557-2490 • FTS 557-2490

Sample Number BF 428

ORGANICS TRAFFIC REPORT

① Case Number:		ONCENTRATION (Control of the Control	1	_	PTO: PIDGE ANALYTICAL
Sample Site Name/Code:	Low Concentration 1106 Medium Concentration Bos			Boat Boat	COMMONWEALTH AVE DN,MA 02215
	3 SAMPLE M (Check C)ne)		Trans Ship	110273
SRegional Office: NUS FIT 2 Sampling Personnel: Propiestry (Name) (20:) 225-6160	6 For each sam of containers on each bottle	used and mark v	olume le	vel . imate	Analysis Lab: Rec'd by: Date Rec'd: #30,67 Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
(Phone) Sampling Date:	Water (Extractable) Water (VOA)			<u>,</u>	OK
7 Shipping Information	Soil/Sediment (Extractable)	1	302.		
Name of Carrier	Soil/Sediment (VOA)		170ml 802		
Date Shipped:	Other - zz-		7.2		1
3-198015710H Airbill Number:		·			
Sample Description			9 Sam	ple Lo	cation
Surface Water Ground Water Leachate	Mixed Media Solids Other (specify)		11	189 -	54
(e.g., safety precautions, hazan		ATCHE'S !	といれな	14. L	T-AEPORT MBF 483

	e Number
BF	428

Organics Analysis Data Sheet (Page 1)

Laboratory Name: Cambridge Analytical Assoc. Lab Sample ID No: 8704240-12 CUP VPA() 61 Soil Data Release Authorized By: Cambridge Analytical Assoc.	Case No: 7204 OC Report No: 2 Contract No: 68-01-7278 Date Sample Received: 94 4 29 8 7 4 30 87
Volatile Com Concentration: (Low) M	pounds
	5 8 87 87
Conc/Dil Factor: Percent Moisture: (Not Deca	pH /A

CAS Number		ug/l or ug/K (Circle One
74-87-3	Chloromethane	50u
74-83-8	Bromomethane	50u
75-01-4	Vinyl Chloride	50u
75-00-3	Chloroethane	50u
75-09-2	Methylene Chloride	20UAC 95
67-64-1	Acetone	50u
75-15-0	Carbon Disulfide	250
75-35-4	1, 1-Dichloroethene	25u
75-34-3	1, 1-Dichloroethane	25u
156-60-5	Trans-1, 2-Dichlorgethene	25u
57-66-3	Chloroform	25u
107-06-2	1, 2-Dichloroethane	25u
78-93-3	2-Butanone •	50u
71-55-6	1, 1, 1-Trichloroethane	25u
56.23.5	Carbon Tetrachloride	25u
108-05-4	Vinyl Acetate	50u
75-27-4	Bromodichloromethane	25u

CAS Number		ug/I or (g/Kg) (Circle One)
78-87-5	1, 2-Dichleropropene	25u
10061-02-6	Trans-1, 3-Dichloropropene	25u
79-01-6	Trichloroethene	25น
124-48-1	Dibromochibromethane	25u
79-00-5	1, 1, 2-Trichloroethene	25u
71-43-2	Benzene	25
10061-01-5	cis-1, 3-Dichloropropène	254
110-75-8	2-Chloroethylvinylether	50u
75-25-2	Bromoform	25u
108-10-1	4-Methyl-2-Pentanone	50u
591-78-6	2-Hexanone	50u
127-18-4	Tetrachloroethene ;	25u
79-34-5	1, 1, 2, 2-Tetrachioroethane	25u
108-88-3	Toluene	25u
108-90-7	Chlorobenzene	25u
100-41-4	Ethylbenzene	25 <i>u</i>
100-42-5	Styrene	25u
	Total Xylenes	25u

Data Reporting Qualifiers

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

- Walue If the result is a value greater than or equal to the desection limit, report the value
 - Indicates compound was analyzed for but not deserted. Report the minimum detection limit for the sample with the U is 9. 10U leased on necessary concentration / dilution action. (This is not necessary the instrument detection limit.) The floorage should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
 - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 response is assumed or when the mass spectral data indicated the presence of a compound their most the identification stream but the result is less than the specified detection limits but greater than zero (e.g., 10J). If limit of detection is 10 µg/1 and a concentration of 3 µg/1 is calculated report or 3J.
- C This flag dephas to pasticide parameters where the identification has been confirmed by GC MS. Single component pasticides ≥10 ng rul in the final extract should be confirmed by GC MS.
- This flag is used when the analyte is found in the blons as well as a sample of indicates passible (probable blons contamination and words the data user to take appropriate action.
- Other apecific flags and feometes may be required to properly define the results. If used they must be fully described and such description attached to the data summary report.

ory Name	Cambridge	Analytical	<u>Associates</u>
No -	7204		

Sample Number BF 428

Organics Analysis Data Sheet (Page 2)

Semivolatile Compounds

00275

Concentration:	Medium (Circle One)
Date Extracted 'Prepared:	5-21-87
Date Analyzed Conc 'Dil Factor:	1
	(ad)

GPC Cleanup Tyes SNo
Separatory Funnal Extraction TYes
Continuous Liquid - Liquid Extraction EYe

CAS		ug /I or ug /Ko (Circle One)
Number 108 95-2	Phenol	330u
111.44.4	bisi-2-Chloroethy1/Ether	3300
95-57-8	2.Chlorophenol	3300
341.73.1	1 3-Dichlorobenzene	3300
106.46.7	1 4-Dichlorobenzene	3304
100-51-6	Benzyl Alcohol	330u
95-50-1	1 2-Dichteroberzene	330u
95-48-7	2-Methylphenof	330u
39638-32-9	Dist2-chloroisopropyllEther	330u
106-44-5	4. Methylpheno	330u
621-64-7	N-Nitroso-Di-n-Propytamine	330u
67-72-1	Mexachioroethene	330u
98-95-3	Nitrobensene	330u
78 59-1	Isopherone	330u
88-75-5	2-Nitrophenol	33Cu
105-67-9	2. 4-Dimethylphenol	330u
65-85-0	Rentale Acid	1600u
111-91-1	bisi-2-ChloroethoxylMethan	• 330u
120-83-2	2 4-Dichlerophenol	3300
120-82-1	1. 2. 4-Trichloropenzene	330u
91-20-3	Naphthalene	330
106-47-8	4-Chlorosniline	3304
87-68 3	Hexachiorobutations	330u
59-50-7	4-Chlora-3-Methylphenot	330u.
91-57-6	2-Methylnaphthalene	330u
77-47-4	Hesachierocyclopentadiene	330u
88-06-2	2 4 6-Trichlorephenot	330u
95 95-4	2 4, 5-Trichlorsphenol	16001
9' 58 7	2-Chlorenaphthalane	330u
88 74-4	2-Nitrosniline	1600u
131-11-3	Dimethyl Phtha ata	330u
208 96-8	Acenephthylene	630u 4600u
99 09 2	3-Nitroaniline	10000

CAS Number	<u> </u>	ug/lerug/Ke (Circle One)
	Acensphinene	3300
5 - 28 - 5		1600u
100-02-7		1600 u
	Dibenzofuran	330u
121-14-2	2 4-Dinitrotoluene	3300
6:6-20-2	2 6 Dinitrotoluene	3300
84-66-2	Distrylphthalate	330u
7:005-72-3	4-Chierophenyl-phanylether	3304
84-73-7	Fluorene 3	3300
120-01-6	4-Nitroeniline	330u
534-52-1	4, 6-Dinitro-2-Methylphenol	10000
86-30-6	N-Nitrosodiphenylamine (1)	3300
101-55-3	4-Bromophenyl-phenyle:her	330u
1 0-74-1	Mexechlorobenzene	330u
8 · · · · · · · · · ·	Pentachtorophenat	1600u
95-01-9	Phenanthrene	330u
120-12-7	Anthrecene .	330u
94-74-2	Di-n-Butylphthelate	3300 -655
206-44-0	Fluoranthene	330n
129-00-0	Pyrene	1330u
05-60-7	Butylbenzylphthatate	1330u
91.94-1	3 3 -Dichiprobenzidine	660u
56-55-3	Benzois)Anthracens	3300
117-01-7	bist2-Ethylhexyl)Phtha ate	1200
2 8 01 9	Chrysene	33011
117-84-0	Di-n-Octyl Phinalate	1330u
255-99-2	Benzorbifluoranthene	1330u
227-08-9	Benzasifiuoranthana	1330u
50-32-0	Benzalahvrene	3300
93-39-5	Indenot 2.3-edifyrene	3300
53-70-3	Dibenzia hAnthracere	33Cu
91-24-2	Bentata in Illeryland	330u

It p-Cannot be separated from dishenylamine

coretory Name __Cambridge Analytical Associates

Sample Number BF. 428

Organics Analysis Data Sheet (Page 3)

Pesticide/PCBs

06276

Concentration: Low Medium (Circle One) Date Extracted Prepared: 5/8/87	GPC Cleanup @Yes MNo
Date Entracted Prepared: 5/8/87	Separatory Funnel Extraction (DYes
Date Analyzed 5/31/87	Continuous Liquid - Liquid Extraction DYes
Conc 'Dil Factor:	•
Percent Moisture (decented) - 16 %	

CAS Number	·	ug/lerug/K (Circle One
319-84-6	Alpha-BHC	8,00
319-85-7	Beta-BHC	8.00
319-86-8	Delta-BHC	800
58-89-9	Gamma-BHC (Lindane)	8,00
76-44-8	Heptechlor	8.00
309-00-2	Aldrin	8.00
1024-57-3	Maptachlor Epozide	8.00
959 98 8	Endosullan i	8.00
60-57-1	Dieldrin	/6.00
72-55-9	4.4 -DDE	16.00
72-20-8	Endrin	16.00
33213-65-9	Endosulfan II	16.00
72-54-8	4.4 -DDD	1600
1031-07-8	Endosulfan Sulfate	1600
50-29-3	4, 4'-DDT	16.00
72-43-5	Methoxychlor	80,00
53494-70-5	Endrin Ketone	160.00
57-74-9	Chiordane	8000
8001-35-2	Tozaphene	160.00
12674-11-2	Arocior-1016	8800
11104-28-2	Aroclor-1221	80.00
11141-16-5	Aroclor-1232	80.00
53469-21-9	Arocior-1242	80.00
12672-29-6	Aroclor-1248	20,000 mg
11097-69-1	Arocior-1254	160,00
11096-82-5	Aroclor-1260	160.00

79.15

V,		Volume	ø	ORIFACT	injected	(41)
----	--	--------	---	---------	----------	------

Vg. * Volume of water extracted (mt)

W_a = Weight of sample extracted (g)

Vg * Volume of total extract (ul)

v. ______ v. 20,5g v. 20,000 v. 3,12

/ NameCambridge	Analytical	<u>Associates</u>
7204		
1207		

Sample Number BF 428

Organics Analysis Data Sheet (Page 4)

00277

Tentatively Identified Compounds

CAS Number	Compound Name	Frection	RT or Scan Number	Estimated Concentration (ug/l of ug/kg)	
1	dehudro 2(3H) Luanone	BNA	8.85	4300 J	
2	3- proposal ester Faltouric acid		9.05	1700 1	
3.	11 Modere, 2- Scome		9.57	1100	
4.	susceptativide unknown		10,16	1800	
8.	Jenzene, 1- biomo 4 Chloro		13.26	320	
8	Mentation on tone 205		30,80	2100	
7	11		33.06	2200 4	
8.	none found	VOA			
	U				
าก					
11				·	
12					
13					
14					
15		<u> </u>			
16					
17					
18					
19					
20	<u> </u>	ļ	!		
21	<u> </u>		,		
22	<u> </u>				
23	<u> </u>				
24					
25					
26					
27			· -		
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29	<u> </u>				
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U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office P.O. Box 818, Alexandria, Virginia: 22313—783 557-2490 • FTS 557-2490

Sample Number BC 080

426

ORGANICS TRAFFIC REPORT

(1) Case Number:	2 SAMPLEC	ONCENTRATIO	ON	(4) Sh	ip To:	
7 4/	(Check One)			CAMBRIDGE ANALYTICAL		
	J LOW (Concentration		1106	COM MONNEALTH AV	
Sample Site Name/Code:	Low Concentration Medium Concentration			Bos	DN. MA 02215	
Cristianie.				Attn: <		
to an main sua ma	3 SAMPLE M					
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(Check C	•		Trans	fer 00017	
	—— Water ——✓ Soil/S	ediment		Ship	To:	
Local troots (NAME)			·			
⑤ Regional Office:	6 For each sam	ple collected sp	ecify nu	mber	(I) Analysis Lab:	
Sampling Personnel:		used and mark v	olume le	rvel	Rec'd by J. Zavle	
	on each bottle) .	•		Date Rec'd: 4/30/87	
			1 -		Sample Condition on Receipt (e.g., broken, no	
(Name)		Number of Containers	Approx Total V	olume	ice, Chain-of-Custody, etc.)	
(Phone)	Water	Contamient	1000			
Sampling Date:	(Extractable)				OK	
	Water					
(Begin) (End)	(VOA)					
7 Shipping Information	Soil/Sediment (Extractable)		£.3			
	Soil/Sediment (VOA)	.	•			
Name of Carrier	12 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -					
	Other			<u></u>		
Data Shippad						
Date Shipped:						
Airbill Number						
All Dill Tulliber ;						
8 Sample Description			Sam	ple Loc	ation	
Surface Water	Mixed Media			٠	Anna agu gada '	
Ground Water	Solids					
Leachate	Other (specify)_					
				XX =	4-55	
(i) Special Handling Instruc	ctions:				1065,-NK_	
(e.g., safety precautions, hazard		: ~ -	4 11-11-11-1		tordistrict to report finare	

Sample Number BC080

Organics Analysis Data Sheet (Page 1)

Laboratory Name: Cambridge Analytical Assoc. Lab Sample ID No: 8704240 43 CLavoA1159	Case No: 720 4 OC Report No: 21
Sample Matrix:	Contract No: 68-01-7278 Date Sample Received: 4 29 87 4 30 87

Volatile Compounds

Concentration:	low Me	dium , (Circle	e One)
Concentration: Date Extracted/Pro	epared;	5887	
Date Analyzed:		87	
Conc/Dil Factor:	5	pHN/	<u>A</u>
Percent Moisture:	(Not Decan	red 14	

CAS Number		ug/l or ug/Ks (Circle One
74-87-3	Chloromethane	50u
74-83-9	Bromomethane	50u
75-01-4	Vinyl Chloride	50u
75-00-3	Chloroethane	50u
75-09-2	Methylene Chforide 95	20U 19J
67-64-1	Acetone	50u
75-15-0	Carbon Disulfide	258
75-35-4	1, 1-Dichloroethene	25u
75-34-3	1, 1-Dichforoethane	25u
156-60-5	Trans-1, 2-Dichloroethene	25 u
67-66-3	Chloroform	25u
107-06-2	1, 2-Dichleroethane	25u
78-93- 3	2-Butanone	50u
71-55-6	1, 1, 1-Trichloroethane A-	75u 10J
56-23-5	Carbon Tetrachloride	25u
108-05-4	Vinyl Acetate	50u
75-27-4	Bromodichloromethane	25u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichleropropane	25u
10061-02-6	Trans-1, 3-Dichloropropene	25u
79-01-6	Trichloroethene	25u
124-48-1	Dibromochloromethene	25u
79.00-5	1, 1, 2-Trichloroethene	25u
71-43-2	Benzene	25.1
10061-01-5	cis-1, 3-Dichloropropene	254
110-75-8	2-Chloroethylvinylether	50u
75-25-2	Bromoform	25u
108-10-1	4-Methyl-2-Pentanone	50u
591-78-6	2-Hexanone	50u
127-18-4	Tetrachloroethene	25u
79-34-5	1, 1, 2, 2-Tetrachioroethane	25u
108-88-3	Toluene 45	75 12K
108-90-7	Chlorobenzene	25น
100-41-4	Ethylbenzene	25u
100-42-5	Styrene	25u
	Total Xylenes	25u

Data Reporting Qualifiers

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

- Walue III the result is 0 value greater then or equal to the detection firms, report the value
 - Indicates compound was analyzed for but not detected. Report the distribution based for the sample with the U/e g. 10Usbased on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The flootings should read. U-Compound was analyzed for but not detected. The number is the minimum attainable detection time for the sample.
 - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 f response is assumed at when the mass spectral data indicated the presence of a compound that meets the identification of their but the result is tres than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/1 and a concentration of 3 µg if is calculated, report as 3J.
- C This flag applies to pesticide parameters where the identification has been confirmed by GC MS. Single component posticides ≥10 ng 'ul in the final estract should be applianted by GC MS.
- B. This flag is used when the analyte is found in the blone as well as a sample. It indicates possible (grabable blane contamination and events the data user to take appropriate action.
- Other Other apecific flags and feotretes may be required to preperly define the results. If used, they must be fully described and such description attached to the data summary resort.

.ofv	Name:	Cambridge	Analytical	Associates
Ma:	7	204		

Sample Number BCO80

Organics Analysis Data Sheet (Page 2)

- 00019

Semivoletile Compounds

Concentration: Low Date Extracted / Prepared:	Medium (Circle One) 5-8-87
Date Analyzed:	5-21-87
Conc (Dil) Factor:	

GPC Cleanup DYes ®No

Separatory Funnel Extraction DYes

Continuous Liquid - Liquid Extraction

Yes

CAS		Girch Oper
Number	15.007	
108-95-2	Phenol 15003	1050H 35H
111-44-4	bisi-2-Chloroethyl)Ether	6504
95-57-8	2-Chlorophenol	6504
541-73-1	1 3-Dichlorobenzene	1650U
106-46-7	1, 4-Dichlorobenzene	16504
100-51-6	Benzyl Alcohol	1650U
95-50-1	1, 2-Dichlorobenzene	6504
95-48-7	2-Methylphenel 250 T	1650H 30L
39638-32-9	bis(2-chloroisopropy)Ether	1650u
106-44-5	4-Methylpheno' 430 J	1050 H
621-64-7	N-Nitroso-Di-n-Propylamine	1650U
67-72-1	Hexachloroethane	1650 U
98-95-3	Nitrobenzene	1650u
78-59-1	Isophorene	650u
88-75-5	2-Nitrophenol	1650 4
105-67-9	2.4-Dimethylpheno! 4403	1650User
65-85-0	Benzoic Acid	8000 n
111-91-1	bisi-2-Chloroethoxy)Methane	1650U
120-83-2	2, 4-Dichtorephenol	1650U
120-82-1	1. 2. 4-Trichforobenzene	1650 U
91-20-3	Naphthelene 3707	650 WWL
106-47-8	4-Chloreaniline	1650U
87-68-3	Hezachlorobutadiene	1650 U
59-50-7	4-Chloro-3-Methylphenol	1650 U
91-57-6	2-Methylnaphthalene	1650 W
77-47-4	Hexachlorocyclopentadiene	1650U
88-06-2	2. 4. 6-Trichlorophenol	165DU
95-95-4	2. 4. 5-Trichlorophenol	8000 u
91-58-7	2-Chlorenaphthalene	1165Du
88-74-4	2-Nitroeniline	ROOOLA
131-11-3	Dimethyl Phthalate	165Du
208-96-8	Acenephthylene	165Du
99-09-2	3-Nitroeniline	8000 N

CAS Number		ug/lor vg/Kg (Circle Case
83-32-9	Acenaphthene 6905	HOSOV WL
51-28-5	2, 4-Dinitrophenal	8005 U
100-02-7	4-Nitrophenol	ROOOU
132-64-9	Dibenzofuran 370 J	to FOUT OF
121-14-2	2 4-Dinitrotoluene	1650U
606-20-2	2. 6-Dinitrotoluene	1650U
84-66-2	Diethylphthalate	164DU
7005-72-3	4-Chiorophenyl-phenylether	16504
88-73-7	Fluorene · 7705	1630 USO -
100-01-6	4-Nitroaniline	16504
534-52-1	4, 6-Dinitro-2-Methylphenol	8200 a
86-30-6	N-Nitrosodiphenylamine (1)	ibeou
101-55-3	4-Bromophenyl-phenylether	1650 U
118-74-1	Mexachiorobenzene	16504
87-86-5	Pentachierophenol	8000 u
85-01-8	Phenanthrene 5300	HUSO USOL
120-12-7	Anthracene 1400 J	HEO-WOL
84.74.2	Di-n-Butylphthelate 4200	HEED W SOL
206-44-0	Fluoranthene 5000	1650 WSFL
129-00-0	Pyrene 4500	1650-41 SEL
85-68-7	Sutyibenzylphtheiste	16504
91-94-1	3.3'-Dichlorobenzidine	3300 U
56-55-3	Senzo(a)Anthrecene 2300	14.40 bt 30-
117-81-7	bis(2-Ethylhexyl)Phthalates	
218-01-9	Chrysene 2000	16.50 W 59L
117-84-0	Di-n-Octyl Phthelate	1650 V
205-99-2	Benzo(b)Fluoranthene 22.00	
207-08-9	Senzo(k)Fluoranthene	1650 USBL+
50-32-8	BenzolalPyrene 1600 3	HOSTINGE TO
193-39-5	indenois, 2. 3-cd/Pyrenest	16504_ 490 5
53-70-3	Dibenzia hjAnthracene	1650 U
191-24-2	Benzala h. iPerylene	HESON 410 J

* Report as unresolved Benzo Fluoranthene.

THE server be seperated from disphenylemine

Laboratory Name .	Cambridge Analytical Associates
Case No	04

Sample Number
BC 080

Organics Analysis Data Sheet (Page 3)

00020

Pesticide/PCBs

Concentration: Low Medium (Circle One)	GPC Cleanup DYes MNo
Date Extracted Prepared:5/8/87	Separatory Funnel Extraction DYes
Date AnalyzedS/31/87	Continuous Liquid - Liquid Extraction Dyes
Conc 'Dil Factor: 10	
Percent Moisture (decented) 147.	

CAS Number		ug/lorug/Kg (Circle One)
319-84-6	Alpha-BHC	80.00
319-85-7	Beta-BHC	80.00
319-86-8	Delta-BHC	80.00
58-89-9	Gamma-BHC (Lindane)	80.00
76-44-8	Heptechlor	80.00
309-00-2	Aldrin	80.00
1024-57-3	Hegtachlor Epoxide	80.00
959-98-8	Endosulfan I	90.00
60-57-1	Dieldrin	160.00
72-55-9	4.4 -DDE	160.00
72-20-8	Endrin	160.00
33213-65-9	Endosulfan II	160.00
72-54-8	4, 4 -DDD	160,00
1031-07-8	Endosulfan Sulfate	160.00
50-29-3	4.4 DDT	16000
72-43-5	Methoxychlor	800,00
53494.70.5	Endrin Ketone	1400.00
57.74.9	Chlordane	800.00
8001-35-2	Toxephene	1600.00
12674-11-2	Aroclor-1016	800.00
11104-28-2	Aroclor-1221	800.00
11141-16-5	Aroclor-1232	800.0 U
53469-21-9	Aroclor-1242	80000
12672-29-6	Arocior-1248	-80000 KD
11097-69-1	Aroclor-1254	1600.00
11096-82-5	Aroclor-1260	1600.00

4310

V,	= Vo	iume	of e	atract	injected	(ut
----	------	------	------	--------	----------	-----

W_a = Weight of sample extracted (g)

V₂ = Volume of total extract (ul)

V.		₩ ₆ 21.8a	v. 20,000pl	_ v, <u>3</u> nl
----	--	----------------------	-------------	------------------

Vg = Volume of water extracted (ml)

	Laborator	y Name:Cambridge_Analytical_Assoc.
Case No:		7204

Sample Number BCO80

Organics Analysis Data Sheet (Page 4)

Tentatively Identified Compounds

00021

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l of ug/kg
1	1,4-DIOXANE	VOA	233	94J
2				
2 3				
4				
6				
6				
7				
8				
9				
0				
1				
2				
3				
4				
5				
6				
i 7				
8				
9				
20			7	
21				
22				
23				
24				
25				
26				
27				
28				
29 30	<u> </u>			

Laboratory Name	Cambridge	<u>Analytical</u>	Associates
Case No	7204		

Sample Number BCO80

Organics Analysis Data Sheet (Page 4)

00022

Tentatively Identified Compounds

CAS Number	Compound Name	Frection	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)	
1	dihydro 2(3H) furanone	BNA	8.73	5200 J	
2	unknown		10.13	1700 5	
3	44- Cyclopenta (def) shemanthreno		23.95	830 J	
4	Phonol, 2-E(4-hydroxypronyl) methyl 7-		25.22	1800 5	
8			25.47	5000 J	- 56L
9	114-Benzo (h) fluorene		26.93	1100 J	
7	unknown		27.65	9705	
8	1-Phenanthrene Carpaxulic acid		27.97	2500 J	
9	I-Phenanthrene Carbo xylic acid unknown benzion acephenanthrylene		30.88	1300 J	
10	benzion acephananthrylene		33,27	2100 T	
11					
12					
13					
14					
18					
16					
17					
18					
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20					
21					
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23					
24					
25			-		
26					
27					
28					
29					
30	† -				



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office PO Box 818, Alexandria, Virginiu 22313 – 703 557-2499 • FTS 557-2490

Sample Number BC 081

ORGANICS TRAFFIC REPORT

① Case Number:	② SAMPLE CONCENTRATION (Check One)			O Ship To: CAMBINGE ANALYTICAL	
Sample Site Name/Code:	Low Concentration Medium Concentration SAMPLE MATRIX (Check One) Water Soil/Sediment			1106 Bos	COMMONWEALTH AVE TON, MA 02215 SHARON WALER
(Name)	6 For each sam of containers on each bottle	used and mark v	rolume le 	vel imate	1) Analysis Lab: Rec'd by: A Low LA Date Rec'd: #30/87 Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
(Phone) Sampling Date: (Begin) (End)	Water (Extractable) Water (VOA)				OK
(Begin) (Line) (Begin) (Cine)	Soil/Sediment (Extractable)		(A)	` , •	
Name of Carrier	Soil/Sediment (VOA)				
	Other		<i>(</i> 2 ×	, •	
Date Shipped:	•			· · · · · · · · · · · · · · · · · · ·	;
Airbill Number:					
Sample Description Surface Water Mixed Media Ground Water Solids Leachate Other (specify)					
(e.g., safety precautions, hazardous nature) Special Handling Instructions: (e.g., safety precautions, hazardous nature) HATTER AND COUNTY TO PERCENT EMBER 437					

LAB COPY FOR RETURN TO SMO

Semple Number BCO8/

Organics Analysis Data Sheet (Page 1)

Laboratory Name:	Cambridge Analytical Assoc.	Case No	7-204	00080R
Lab Sample ID No:	8704240-14/LINA1160	OC Report No:	21	
Sample Matrix:	Soil	Contract No: _68-0		
Data Release Auth	orized By: And Site	Date Sample Receive	d. 94 4129 8	7 4130/87

Volatile Compounds

Concentration:	Low	Medium 1	(Circle One)	
Concentration: Date Extracted/Pi Date Analyzed:	repared,	5/8/	87-	_
Date Analyzed:	5	887		_
	5		~/A	_
Percent Moisture:	(Not Dec	canted)	13	_

CAS Number		ug/l or ug/K
74-87-3	Chloromethane	50u
74-83-9	Bromomethane	50u
75-01-4	Vinyl Chloride	50u
75-00-3	Chloroethane	50u
75-09-2	Methylene Chloride	EST MES
67-64-1	Acetone	50u
75-15-0	Carbon Disulfide	250 .
75-35-4	1, 1-Dichloroethene	25u
75-34-3	1, 1-Dichtproethane	25u
156-60-5	Trans-1, 2-Dichlorgethene	25u
67-66-3	Chloroform	25u
107-06-2	1, 2-Dichloroethans	25u
78-93-3	2-Butanone	50u
71-55-6	1. 1. 1-Trichloroethane	25u
56-23-5	Carbon Tetrachloride	25u
108-05-4	Vinyl Acetate	50u
75-27-4	Bromodichloromethans	25u

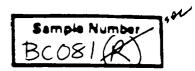
CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichleropropane	25u
10061-02-6	Trans-1, 3-Dichloropropene	25u
79-01-6	Trichloroethene	25u
124-48-1	Dibromochloromethene.	25u
79-00-5	1, 1, 2-Trichloroethene	25u
71-43-2	Benzene	25.1
10061-01-5	cis-1, 3-Dichloropropene	254
110-75-8	2-Chloroethylvinylether	50u
75-25-2	Bromoform	25u
108-10-1	4-Methyl-2-Pentanone	50u
591-78-6	2-Hexanone	50u
127-18-4	Tetrachloroethene ;	25u
79-34-5	1, 1, 2, 2-Tetrachloroethene	25 u
108-88-3		751 7T
108-90-7		25u
100-41-4	Ethylbenzene	25u
100-42-5	Styrene	25u
	Total Xylenes	25u

Data Reporting Qualifiers

For reporting results to EPA, the following results quelifiers are used Additional flags or featnesse applicating results are encouraged. However, the definition of each flag must be explicit.

- Walue If the result to a value greater than or equal to the detection hims, report the value
 - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the USe § . 10Utboard on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnate should read U-Campound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
 - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1-1 response is assumed at when the mass specified data indicated the presence of a compound that meets she identification stratera but the result as less than the specified detection simile but greater than zero (e.g., 10.1). If limit of detection is 10 µg/1 and a concentration of 3 µg (f is calculated, report os 2.5).
- This flag applies to pesticule parameters where the identification has been confirmed by GC MS. Single component posticides 210 flg. of in the final extract should be confirmed by GC-MS.
- This flag is used when the analyse is found in the blank as well as a sample of indicates possible randable blank contamination and words the data user to take appropriate action.
- Other Specific flags and learnates may be required to properly define the results. If used, they must be fully described and such description dilacted to the data summary report.

oratory Name	Cambridge	Analytical	<u>Associates</u>
se No	7204		



Organics Analysis Data Sheet (Page 2)

18000

Semivolatile Compounds

Concentration: Low	Medium (Circle One)
*Date Extracted *Prepared	5-8-87
Date Analyzed	5-28-81
Conc 'Dil Factor:	1
Percent Moisture (Decant	d)13

GPC Cleanup Tyes SNo

Separatory Funnel Extraction Tyes

Continuous Liquid - Liquid Extraction Tyes

CAS Number		ug /I or (g /Ks) (Circle One)
	Phenol	330u
111-44-4	bisi-2-Chloroethy! Ether	3304
98-57-8	2-Chiorophenol -	3300
341-73-1	1 3 Dichlorobenzene	3300
106-46-7	1 4-Dichlorobenzene	330u
100-51-6	Benzyl Alcohol	330u
95-50-1	1 2-Dichlorobenzene	330u
95.48.7	2-Methylphenal	330u
39638-32-9	bisi2-chiloroisopropyliEther	330u
106-44-5	4-Methylpheno	3300
621-64-7	N-Nitroso-Di-n-Propylamine	330u
87-72-1	Hexachloroethane	330u
98 95 3	Nitrobenzene	330u
78 59 1	Isopherane	330u
88 75 5	2-Nitrophenol	33Gu
105-67-9	2. 4-Dimethylphenal 765	330maeL
65-85-0	Benzoic Acid	16004
111-91-1	bisi 2-ChioroethoxylMethane	330u
120-83-2	2. 4-Dichlorophenol	330u
120-82-1	1. 2. 4-Trichloropenzene	330u -
91-20-3	Naphthalene	3300
106-47-8	4-Chloroaniline	33011
87-68 3	Hexachiorobutaciene	330u
59 50 7	4-Chloro-3-Me:nviphenoi	330u
91-57-6	2-Methylnaphthalens	330u
77.47.4	Hexachlorocyclopentadiene	330u
88-06-2	2 4 6-Trichlorophenol	330u
95 95 4	2 4 5-Trichlorophenol	16001
9: 58.7	2-Chloronaphthalene	330u
88 74-4	2 Nitrospiline	1600u
131-11-3	Dimethyl Phina ate	330u
208 96 8	Acenephthylene	330u
99-09-2	3-Nitrosnitine	16000

CAS Number		ug/lorug/Kg (Circle One)
83-32-9	Acenaphthene	330u
5*-28-5	2. 4-Dinitrophenol	1600น
120.02.7		1600 u
132-64 9	Dibenzofuran	330u-
121-14-2	2 4-Dinitrotoluene	3300
606 20 2	2 6-Dinitrotoluene	220.
84.66.7	Diethylphthalate	330u
7005-72-3	4-Chiorophenyl-phenylether	330u
28.73.7	Fluarene	330u
120-01-6	4-Nitroaniline	330u
534-52-1	4, 6-Dinitro-2-Methylphenol	16000
85-30-6	N-Nitrosodiphenylamine (1)	3300
101-55-3	4.Bromophenyl-phenylether	330u
1.8.74.1	Mexachiorobensene	330u
8-86-5	Pentachtorophenol	1600u
85-01-8	Phenanthrene ,	330u
120-12-7	Anthracene	330u
84.74.2	Di-n-Burylphinalate 2205	33005°L
206-44-0	Fluoranthene	3304
129.00.0	Pyrene	330u
85 68 7	Butyfbenzylphthalate	330u
91.94.1	3 3 -Dichiprobenzidine	660 u
56-55-3	BenzoralAnthracene	3304
117-81-7	DISIZ-EthylhexyllPhtha ate	Han, 2005
2.8-01-8	Chrysene	33011
17-84-0	Di-n-Octyl Phinelete	330u
2:5 99 2	BenzolbiFluoranthene	330u
207-08-9	BenzoralFluoranthene	330u
50 32 8	BenzolatPyrene	3308
93 39 5	indenci 2.3-edifyrene	3300
E 3 - 70 - 3	Dibenzia hiAnthracere	330u
91-24-2	Benzaig h ilPerylane	2304

(1)-Cannot be separated from diphenylamine

Deboratory Name	Cambridge Analytical	Associates
Case No	204	

Sample Number BC 081

Organics Analysis Data Sheet (Page 3)

- Pesticide/PCBs				
Concentration: Low Medium (Circle One) Date Extracted 'Prepared; 5/8/87	GPC Cleanup Dyes MNp 00082			
Date Extracted 'Prepared: _5/8/87	Separatory Funnel Extraction DYes			
Conc 'Dil Factor:	Continuous Liquid - Liquid Extraction Dyes			
Conc 'Dil Factor:				
Percent Moisture (decented) 13%				

CAS Number	·	ug/lorug/Kg (Circle One)
319-84-6	Alpha-BHC	80.00
319 85-7	Beta-BHC	80.00
319.86.8	Defta-BHC	80.00
58-89-9	Gamma-BHC (Lindane)	80.00
76.44.8	Heptachlor	80.00
309-00-2	Aldrin	80.00
1024-57-3	Heptachlor Epoxide	80.00
959-98-8	Endosulfan I	80.00
60-57-1	Dieldrin	160.00
72-55-9	4.4 -DDE	160,00
72-20-8	Endrin	160.00
33213-65-9	Endosulfan II	160.00
72-54-8	4.4 -DDD	160,00
1031-07-8	Endosulfan Sulfate	160.00
50-29-3	4.4-DDT	16000
72-43-5	Methoxychior	800.0U
53494.70.5	Endrin Ketone	1400.00
57-74-9	Chlordane	800.0U
8001-35-2	Tozaphene	1600.00
12674-11-2	Aroclor-1016	800.0 U
11104-28-2	Arocior-1221	800.00
11141-16-5	Aroclor-1232	500.0 U
53469-21-9	Aroclor-1242	800.00
12672-29-6	Arocior-124B	\$00.00 ED 5640
11097-69-1	Aroclor-1254	1600.00
11096-82-5	Aroclor-1260	1600.00

V_e = Volume of extract injected (ut)

Vg = Volume of water extracted (ml)

W_g = Weight of sample extracted (g)

Vg . Volume of total extract (ul)

V ₆		₩. 21.0a	4, 20,000 ml	v. 3pl
----------------	--	----------	--------------	--------

JIY	NameCan	hridge	Analytical	Associates
10 _	7204			

Sample Numbe	1 60
BCO812	1"

Organics Analysis Data Sheet (Page 4)

00083

Tentatively Identified Compounds

CAS Number	Compound Name	Frection	RT or Scan Number	Estimated Concentration (ug/l or ug /kg)		
1	Chhydro 2 (3H) turnone	BNA	8.85	53001		
2	1-propens 2 bromo		9.55	870		
3. ——	Unknown		10.14	1600		
4	Jenzene 1- promo-4 chloro		13.26	390		
\$	1,3- Cyclopentaredione, 2 moms		15.59	540		
8	tachlow hiphenul isomer		23.35	200		
7	1,2 benzene dirar poxylic acid		24.10	460		
8.	tetrack loss biphenny ismer		2454	240		
9. ———	"		24.80	230		
10	11		25.45	370		
11			25.79	270		
13	1,2 Benzere dicartoxylic, and	4	29.51	330 V		
16	none detectable	VOA				
15						
18						
17						
18						
19						
20						
21						
22						
23						
24			 -			
28						
28						
27						
28						
29						
30						



U.S. ENVIRONMENTAL PROTECTION ÁGENCY HWI Sample Management Office PO Bax 818, Alexandra, Virginia 22313-763 557 2490 • 1775 557 2490

Sample Number BC 082

ORGANICS TRAFFIC REPORT

① Case Number:	② SAMPLE CONCENTRATION (Check One)				@ Ship To: 00120 CAMBRIDGE ANALYTICAL ASS		
Sample Site Name/Code:	Low (Concentration um Concentrati			commonwealth Ave on, ma		
Frank Frank	3 SAMPLE MATRIX (Check One) Water Soil/Sediment				Attn: SHAPPAN WALEZ. Transfer Ship To: 00121		
Sampling Personnel: (Name)	6 For each sam of containers on each bottle	used and mark v	rolume lev	rei mate	II Analysis Lab: Rec'd by: 1.7/20/87 Date Rec'd: 4/30/87 Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)		
(Phone) Sampling Date:	Water (Extractable)				OK		
(Begin) / (End) / (Shipping Information	(VOA) Soil/Sediment	· · · · · · · · · · · · · · · · · · ·					
Name of Carrier	(Extractable) Soil/Sediment (VOA)	[G 7.7				
	Other -		90.0				
Date Shipped:	•				1		
Airbill Number:	•						
Sample Description	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Samp	le Loc	ation		
	Mixed Media Solids				and the second s		
Leachate	_ Other (specify) _		7	27-	- 57		
(e.g., safety precautions, hazard	,	HOURS	18,025		T-REPURT		
					MBF 488		

Sample Number 8C-08Z

Organics Analysis Data Sheet (Page 1)

Laboratory Name:	Cambridge An	alytical A	lssoc.	Casa No:	7	204		
Lab Sample ID No:	8704240-15	CLP VOA! 15		OC Report No:		21		
Sample Matrix:	Soil '			Continue No.	68-01-727	8		
Deta Release Autho	rized By:	1 4	fa	Date Sample Re	sceived: Str	4/24	VF.	413087

Volatile Compounds

Concentration:	Low Med	lipm, (C	ircle	One)	
Concentration: (Date Extracted/Pr	epared: 5	1687			_
Date Analyzed:		87			_
Conc/Dil Factor: .	5	pH	~	A	_
Percent Moisture:	(Not Decant	ed)	21		_

CAS Number	# * **	ug/l or ug/Kg (Circle One
74-87-3	Chloromethane	50u
74-83-9	Bromomethane	50u
75-01-4	Vinyl Chloride	50u
75-00-3	Chloroethane	50u
75-09-2	Methylene Chloride	TF1 463
67-64-1		50u 360
75-15-0	Carbon Disuffide	250
75-35-4	1, 1-Dichloroethene	25u
75-34-3	1, 1-Dichloroethane	25u
156-60-5	Trans-1, 2-Dichlorgethene	25u
67-66-3	Chloroform	25u
107-06-2	1, 2-Dichloroethane	25u
78-93-3	2-Butanone	50u
71-55-6	1, 1, 1-Trichloroethane	25u
56-23-5	Carbon Tetrachloride	25u
108-05-4	Vinyl Acetate	50u
75-27-4	Bromodichloromethane	25u

CAS Number	•	ug/I or ug/Kg (Circle One)
78-87-5	1, 2-Dichleropropane	25u
10061-02-6	Trans-1, 3-Dichloropropene	25u
79-01-6	Trichloroethene	25u
124-48-1	Dibromochloromethane	25u
79-00-5	1, 1, 2-Trichloroethane	25u
71-43-2	Benzene	25.4
10061-01-5	cis-1, 3-Dichtoropropene	25u
110-75-8	2-Chloroethylvinylether	50u
75-25-2	Bromoform	25u
108-10-1	4-Methyl-2-Pentanone-	50u
591-78-6	2-Hexanone	50u
127-18-4	Tetrachloroethene /	25u
79-34-5	1, 1, 2, 2-Tetrachioroethane	25 u
108-88-3		2511 100
108-90-7	Chlorobenzene	25u
100-41-4	Ethylbenzene	25u
100-42-5	Styrene	25u
	Total Xylenes	25u

Data Reserving Qualifiers

For reporting results to EPA, the following results quelifiers are used Additional flags or featnates explaining results are encouraged Hewever, the definition of each flag must be explicit.

- Value If the result is a value greater than or equal to the detection bining report the value.
 - Indicates compound was analyzed for but not detected. Report the minimum detection hims for the sample with the U/e g., 10Ut based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.). The foomore should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
 - 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 indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection time but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report on 3J.
- C This flag applies to preside the parameters unique the identification has been confirmed by GC MS. Single component posticides ≥10 mg /ul in the final extract should be confirmed by GC MS.
- This flag is used when the analyse is found in the blank as well as a semple. It indicates preside/grahable blank contamination and works the data user to take appropriete action.
- Other Specific flags and feotinates may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

me <u>Cambridge Analytical Associ</u>ates 7204

Sample Number BC 082

Organics Analysis Data Sheet (Page 2)

Semivolatile Compounds

00123

Concentration: Low Date Extracted 'Prepared:	Medium (Circle One)
Date Extracted 'Prepared:	5-8-8T
Date Analyzed:	6-1-8+
Conc. Dil Factor:	200
Percent Moisture (Decante	0

GPC Cleanup DYes DNo
Separatory Funnel Extraction DYes

Continuous Liquid - Liquid Extraction □Yes

CAS		ug/lo(ug/Kg
Number		(Circle One)
108-95-2	Phenol 910,000	66000 W 58L
111-44-4	bisi-2-Chloroethyl)Ether	660004
95-57-8	2-Chiorophenol	419000 W
541-73-1	1 3-Dichlorobenzene	1060000 L
106-46-7	1. 4-Dichlorobenzene	1010000u
100-51-6	Benzyl Alcohol	660100u
95-50-1	1. 2-Dichlorobenzene	la (e000e
95-48-7	2-Methylphenol	100000 m
39638-32-9	bis(2-chloreisopropyl)Ether	hlenoou
106-44-5	4-Methylpheno	669000
621-64-7	N-Nitroso-Di-n-Propylamine	106 AADU
67-72-1	Hexachloroethane	66000u
98-95-3	Nitrobenzene	lele ODDu
78-59-1	Isophorone	66000u
88-75-5	2-Nitrophenol	606000u
105-67-9	2. 4-Dimethylphenol	66000u
65-85-0	Benzoic Acid	32000 u
111-91-1	bisi-2-Chloroethoxy)Methane	66000 u
120-83-2	2. 4-Dichlerophenol	b6000 u
120-82-1	1, 2, 4-Trichlorobenzene	660004
91-20-3	Naphthalene	e6000u
106-47-8	4-Chloroandine	91000 U
87-68-3	Hexachlorobutadiene	60000 u
59-50-7	4-Chloro-3-Methylphenol	V660004
91-57-6	2-Methylnaphthalene	46000 u
77-47-4	Hexachlorocyclopentadiene	66000 H
88-06-2	2. 4. 6-Trichlorophenal	166000 W
95-95-4	2. 4. 5-Trichlorophenal	720000u
91-58-7	2-Chloronaphthalene	16 6000 4
88-74-4	2-Nitrosniline	220000u
131-11-3	Dimethyl Phthalate	660004
208-96-8	Acenaphthylene	66000 u
99-09-2	3-Nitrosniline	nasou

CAS Number		ug /I orug /Kg (Circle One)
83-32-9	Acanaphthene	66000u
51-28-5	2, 4-Dinitrophenal	3200004
100-02-7	4-Nitrophenol	320000u
132-64-9	Dibenzofuran	66000 u
121-14-2	2 4-Dinitrotoluene	lolo 1000 u
606-20-2	2 6-Dinitrotoluene	66000u -
84-66-2	Diethylphthalate	660004
7005-72-3	4-Chiorophenyl-phenylether	10,0004
86-73-7	Fluorene	660004
100-01-6	4-Nitroandine	460000
534-52-1	4, 6-Dinitro-2-Methylphenol	320000 u
86-30-6	N-Nitrosodiphenylamine (1)	66000 u
101-55-3	4-Bromophenyl-phenylether	66000u
118-74-1	Hexachiorobenzene	660000
87-86-5	Pentachiorophenol	320000u
85-01-8	Phenanthrene	(d0000 u
120-12-7	Anthracene	(6600A a
84-74-2	Di-n-Butylphthalate 240,000	66000 a 334
206-44-0	Fluoranthene :	660004
129.00.0	Pyrene	Vola Q OO U
85-68-7	Butyibenzyiphthalate	660004
91-94-1	3.3'-Dichlorobenzidine	132000W
56-55-3	Benzo(a)Anthracene	66000u
117-81-7	bis(2-Ethylhexyl)Phthalate	660006
218-01-9	Chrysene	Velation
117-84-0	Di-n-Octyl Phthalate	600004
205-99-2	Benzo(b)Fluoranthene	66000 u
207-08-9	Senzolk)Fluoranthene	(da000 4
50-32-8	Benzo(a)Pyrene	V 20000 W
193-39-5	Indenot1, 2, 3-cd)Pyrene	66,000 u
53-70-3	Dibenzia hiAnthracene	61,000 u
191-24-2	Benzo(g.h. i)Perylene	(de 800 4

(1)-Cannot be separated from diphenylamine

ratory Name <u>Cambridge Analytical Associates</u>
se No <u>7204</u>

Sample Number BC 082

Organics Analysis Data Sheet (Page 3)

00124

		• •		_	_	•	_
7	sti	C10	8/	r	L	25	2

Concentration: Low Medium (Circle One)	GPC Cleenup DYes MNo
Date Extracted Prepared: 5/8/87	Separatory Funnel Extraction Dives
Date Analyzed5/31/87	Continuous Liquid - Liquid Extraction DYes
Conc 'Dil Factor: 10	
Percent Maisture (decented) 217.	

CAS Number		ug /I orug /Ki (Circle One
319-84-6	Alpha-BHC	80.00
319-85-7	Beta-BHC	80.ov
319-86-8	Delta-BHC	80,0U
58 89 9	Gamma-BHC (Lindane)	80.00
76-44-8	Heptachior	80.00
309-00-2	Aldrin	80.00
1024-57-3	Heptachlor Epoxide	80.00
959-98-8	Endosullan I	80.00
60-57-1	Dieldrin	160.00
72-55-9	4.4 -DDE	160,00
72-20-8	Endrin	160.00
33213-65-9	Endosullan N	160.00
72-54-8	4.4 -DDD	160,00
1031-07-8	Endosulfan Sulfate	160.00
50-29-3	4, 4 - DDT	16000
72-43-5	Methoxychlor	800.00
53494-70-5	Endrin Ketone	1600.00
57-74-9	Chlordane	800.00
8001-35-2	Tozaphene .	1600.00
12674-11-2	Aroclor-1016	800.00
11104-28-2	Aroclor-1221	800.00
11141-16-5	Arocior-1232	800.00
53469-21-9	Arocior-1242	80000
12672-29-6	Arocior-1248	800.00
11097-69-1	Aroclor-1254	1600.00
11096-82-5	Arocior-1260	1600.00

V_a = Volume of extract injected (ul)

V_a = Volume of water extracted (ml)

W_a = Weight of sample extracted (g)

V_e = Volume of total extract (ul)

v v22,2g v20,000pl v. 3pl	v,	• w 22,2a	v, 20,000 nl	v, 3 nl
---------------------------	----	-----------	--------------	---------

iry Name:	Cambridge	Analytical	Assoc.
	7204		
vio:	1004		

Sample Number
BC-082

Organics Analysis Data Sheet (Page 4)

00125

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
	Phenol	VOA	428	270J
1	* Nenor			
2				
3				
4.				
5				
7.				
8.				
9.				
10			<u>-</u>	
11.				
12				
13			_	
14.				
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23				
24				1
25				
26				
27				<u> </u>
28				<u> </u>
30				



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

Sample Number

BK 249

ORGANICS TRAFFIC REPORT

1) Case Number: Q. () 7 2 0 4 Sample Site Name/Code:	Low	One)	on	106 Co Bosto	BRIDGE A MANNWEA W, MA SHAPM/ V	CTH AVE 02215
Sampling Personnel: 772 P. Dorigonia (Name) (Name) (Phone)	6 For each same of containers on each bottle	used and mark v	Approxi	ei I	Analysis I Rec'd by: ———————————————————————————————————	20/27 ition g., broken, r
Sampling Date: Linging Date: (Begin) (End)	(Extractable) Water (VOA)				OC	
(7) Shipping Information	Soil/Sediment (Extractable)	1	9002 E	302		
Name of Carrier	Soil/Sediment (VOA) -/SEDIMENT Other-(Pa/D)=	÷ 1	/70/J A 07			
Date Shipped:			٠.	1		· · · · · · · · · · · · · · · · · · ·
7498025764 Airbill Number:					<u>_</u>	
8 Sample Description Surface Water Ground Water Leachate	Mixed Media Solids Other (specify)		Sample O O O O O O O O O O O O O O O O O O O O O O O O O		tion -58	•
(e.g., safety precautions, hazard	ctions:	1.ATCHES	 			
	g of the	7-121	EPORT	#	MBI	590

LAB COPY FOR RETURN TO SMO

Semple Number BKQ49

Organics Analysis Data Sheet (Page 1)

Laboratory Name: Cambridge Analytical Assoc.	Case No: +204
Lab Sample ID No: 8704240-16 CLI YO 41165	OC Report No: 21
Sample Matrix: Soll	Contract No: 68-01-7278
Data Release Authorized By:	Date Sample Received: 4 79 87 4 30 87
Volatile Con	npounds
Concentration: Low &	Aedium (Circle One)
Date Extracted/Prepared; _	5/8/87 G0476R
Date Analyzed: 5 8	187
Conc/Dil Factor:	pH_V/A
Percent Moisture: (Not Deci	anted)

CAS Number		ug/l or ug/K
74.87.3	Chloromethane :	50u
74.83.9	Bromomethane	50u
75-01-4	Vinyl Chloride	50u
75-00-3	Chloroethane	50u
75-09-2	Methylene Chloride	85U 13J
67-64-1	Acetone	50u
75-15-0	Carbon Disulfide	25U
75-35-4	1, 1-Dichloroethene	25u
75-34-3	1, 1-Dichloroethane	25u
156-60-5	Trans-1, 2-Dichloroethene	25u
67-66-3	Chloroform	25u
107-06-2	1, 2-Dichloroethane	25u
78-93-3	2-Butanone	50u
71-55-6	1, 1, 1-Trichloroethane	75u 10J
56-23-5	Carbon Tetrachloride	25u
108-05-4	Vinyl Acetate	50u
75-27-4	Bromodichloromethany	25u

CAS Number		ug/I or ug/Kg, (Circle One)
78-87-5	1, 2-Dichleropropane	25u
10061-02-6	Trans-1, 3-Dichloropropene	25u
79-01-6	Trichloroethene	25u
124-48-1	Dibromochloromethane	25u
79-00-5	1, 1, 2-Trichloroethene	25u
71-43-2	Benzene	25.4
10061-01-5	cis-1, 3-Dichtoropropene	254
110-75-8	2-Chloroethylvinylether	50u
75-25-2	Bromoform	25u
108-10-1	4-Methyl-2-Pentanone	50u
591-78-6	2-Hexanone	50u
127-18-4	Tetrachloroethene	25u
79-34-5	1, 1, 2, 2-Tetrachioroethane	25u
108-88-3		354 HJ
108-90-7	Chlorobenzene	25u
100-41-4	Ethylbenzene .	25u
100-42-5	Styrene	25u
	Total Xylenes	25 u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used Additional flags or featnates 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 simil, report the value
 - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U/de g., 10Ut based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The facinitie should read. U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
 - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1-1 response is assumed at when the mass spectral data indicated 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). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report or 3J.
- This flog applies to presize the parameters unique the identification has been confirmed by GC MS. Single component positivities ≥10 kg · III in the final extract should be confirmed by GC · MS.
- This fing it used when the analyse is found in the blank as well as a comple. It indicates possible randable blank consumnation and works the data user to take appropriate action.
- Other Other apecific flags and feathers may be required to graperly define the results. If used, they must be fully described and such description attached to the data summery report.

Laboratory Name:	Cambridge	Analytical	<u>Associates</u>
Case No:	7204		

Sample Number BK 249

Organics Analysis Data Sheet (Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)	GPC Cleanup DYes BNo 00477
Date Extracted Prepared: 5-8-87	Separatory Funnel Extraction
Date Analyzed: 5-22-87	Continuous Liquid - Liquid Extraction Yes
Conc/Dil/Factor:5	
Samuel Mainture (Despetad)	

CAS Number		ug/locug/Kg (Circle Oper
108-95-2		1050438L
111-44-4	bis(-2-ChloroethyllEther	16504
95-57-8	2-Chlorephenol	6504
541-73-1	1 3-Dichlorobenzene	16504
106-46-7	1, 4-Dichlorobenzene	16504
100-51-6	Benzyi Alcohol	1650U
95-50-1	1, 2-Dichlorobenzene	1650U
95-48-7	2-Methylphenol	1650U
39638-32-9	bis(2-chloroisopropy))Ether	1650u
106-44-5	4-Methylpheno' 310 J	1050 X
621-64-7	N-Nitreso-Di-n-Propylamine	1650u
67-72-1	Hexachloroethane	1650 U
98-95-3	Nitrobenzene	1650u
78-59-1	isophorene	650u
88-75-5	2-Nitrophenol	1650 U
105-67-9	2.4-Dimethylphenol 2205	H690H-
65-85-0	Benzoic Acid	8000 m
111-91-1	bisi-2-ChloroethoxylMethane	1650U
120-83-2	2. 4-Dichlorophenol	1650U
120-82-1	1, 2, 4-Trichlorobenzene	1650 V
81-20-3	Naphthelene	650 U
106-47-8	4-Chloroantine	1650U
87-68-3	Hexachlorobutadiene	1650 U
\$9-50-7	4-Chloro-3-Methylphenol	1650 u
91-57-6	2-Methylnaphthalane	16504
77-47-4	Hexachlorocyclopentadiene	1650U
88-06-2	2.4.6-Trichlorophenol	1650 U
95-95-4	2. 4. 5-Trichlorophenol	8000 M
91-58-7	2-Chloronaphthalene	1650u
88-74-4	2-Nitroeniline	8000M
131-11-3	Dimethyl Phthalate	165D4
208-96-8	Acenephthylene	65Du
99-09-2	3-Nitrosniline	8000 N

CAS Number		ug/lor vg /Kg (Circle One)
83-32-9	Acenaphthene	1650 V
51-28-5	2. 4-Dinitrophenal	8006 U
100-02-7	4-Nitrophenal	8000U
132-64-9	Dibenzofuran	1650U
121-14-2	2 4-Dinitrotoluene	650U
608-20-2	2. 6-Dinitrotoluene	1650U
84-66-2	Diethylphthalate	16504
7005-72-3	4-Chiorophenyl-phenylether	
86-73-7	Fluorene	1650 U
100-01-6	4-Nitrosniline	16504
534-52-1	4, 6-Dinstro-2-Methylphenol	82000 U
86-30-6	N-Nitrosodiphenylamine (1)	
101-55-3	4-Bromophenyl-phenylether	16504
118-74-1	Hexachiorobenzene	16504
87-86-5	Pentachierophenol	8000 u
85-01-8	Phenenthrene	16504
120-12-7	Anthracene	1650 U
84-74-2	Di-n-Butylphthelate 8003	KED HEBL
206-44-0	Fluoranthene	1650 u
128-00-0	Pyrene	1650 U
85-68-7	Sutyibenzyiphthalate	1650y
91-94-1	3.3'-Dichlorobenzidine	3300 U
56-55-3	Senzo(a)Anthracene	1650 U
117-81-7	bis(2-Ethylhexyl)Phthalate	1650 U
218-01-9	Chrysene	165D.U
117-84-0	Di-n-Octyl Phthelate	16504
205-99-2	Senzo(b)Fluoranthene	165hu
207-08-9	Senzolk)Fluoramhene	1650 Y
50-32-8	Benzo(a)Pyrene	16504
193-39-5	Indenoi1, 2, 3-cd/Pyrene	16504
53-70-3	Dibenzia h)Anthracene	1650 U
191-24-2	Benzo(g.h. i)Perviene	16504

(1)-Cannot be separated from diphonylamine

Laboratory Name <u>Cambridge Analytical</u>

Case No <u>7204</u>

Sample Number BK 249

Organics Analysis Data Sheet (Page 3)

00478

· Pesticio	de/PCBs
Concentration (Low Medium (Circle One)	GPC Cleanup TYes ENo
Date Extracted / Prepared:	Separatory Funnel Extraction
Date Analyzed 5/31/87	Continuous Liquid - Liquid Extraction DYes
Conc / Dil Factor	
Percent Moisture (decanted)	

CAS Number		ug / I or ug / Kg (Circle One)
319-84-6	Alpha-BHC	40.04
319-85-7	Beta-BHC	40.0 U
319-86-8	Delta-BHC	40.0 U
58-89-9	Gamma-BHC (Lindane)	40.0 U
76-44-8	Heptachlor	40.04
309-00-2	Aldrin	40.0U
1024-57-3	Heptachlor Epoxide	40.0U
959.98.8	Endosulfan i	40.04
60-57-1	Dieldrin	80.04
72-55-9	4.4 -DDE	80.04
72-20-8	Endrin	80.04
33213-65-9	Endosulfan II	80.0U
72-54-8	4, 4'-DDD	80.0U
1031-07-8	Endosulfan Sulfate	80.00
50-29-3	4, 4 -DDT	80.0 U
72-43-5	Methoxychlor	400 U
53494-70-5	Endrin Ketone	800 U
57-74-9	Chlordane	400 U
8001-35-2	Toxaphene	800 U
12674-11-2	Aroclor-1016	400 u
11104-28-2	Aroclor-1221	400 U
11141-16-5	Aroctor-1232	400 u
53469-21-9	Aroclor-1242	400U
12672-29-6	Arocior-1248	4004
11097-69-1	Arocior-1254	800 U
11096-82-5	Arocior-1260	800U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (mi)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

	-	or W _s 28.3 _q	20.000	340
V _s		or W _s	V ₁	V,

Laboratory Na	me _Cambridge And	alytical Associates
Case No	7204	

Sample Number BK 249

Organics Analysis Data Sheet (Page 4)

Tentatively Identified Compounds

CAS - Number	Compound Name	Frection	RT or Scan Number	Estimated Concentration (ug/l of ug/kg)
1	dihydro 2(3H) fivanone	BNA	8,72	36005
2	UN ENOUP)		10.12	980 5
· 3	surrogate	-	16.89	1200 se
4	2,4,6 trichloro benzenamino.		17.52	12005
B	unknown		17.81	970
8	Elcosane NOS		30.90	760
7	tritetracontane NOS	V	36.20	8804
8	none selected	VOA		
9				
מר'				
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U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office PO Box 818, Alexandra, Virginia 22313—763 557 2490 • FTS 557-2490 ORGANICS TRAFFIC REPORT

. Sample Number **BC** 083

① Case Number: Sample Site Name/Code:		ONCENTRATION Concentration con		Ship To: CAMBRIDGE ANAU/TICAL ACCION COMMONWEALTH AVE BUSTON, MA 02215		
Fig. 9. The second seco	3 SAMPLE M (Check C ——— Water ——— Soil/S	Attn: Trans Ship	nn146			
Sampling Personnel: (Name)	6 For each sam of containers on each bottle	used and mark v	clume lev	r el mate	1) Analysis Lab: Rec'd by: Aux (a) Date Rec'd: #30/87 Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)	
(Phone) Sampling Date:	Water (Extractable)	2	غد، ب.		OK	
(Begin) (End)	Water (VOA)	-2	حبث			
7 Shipping Information	Soil/Sediment (Extractable)					
Name of Carner	Soil/Sediment (VOA)		<u> </u>			
Date Ship p ed:		4	1	<u>.</u>		
Airbill Number:	,					
8 Sample Description			Samp	le Loc	ation	
Surface Water	_ Mixed Media	!	1			
Ground Water	Solids					
Leachate	∠ Other (specify) □	<u> </u>	A. Y. R	79 -	<u> 2 </u>	
Special Handling Instructions, safety precautions, hazard	,	44-0-5			FUICE PORT	

Sample Number B6083

Organics Analysis Data Sheet

(Page 1)

001472

story Name: Cambridge Analytical Assoc.	Case No:	7204	-
Sample ID No: 8704240 -06 CLP 4041142	OC Report No:	21	
110400	Contract No: _	68-01- 7278	
Deta Release Authorized By	Date Sample A	eceived 2129	4/30/87

Volatile Compounds

Concentration:	Tow Me	dium	(Circle One)	
Date Extracted,	Jahaian -	5/6	187	
Date Analyzed: _	519	87		
Conc/Dil Factor:		pH		
Percent Moisture	: (Not Decar	nted)	N/A	

CAS Number		(Circle One
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroetha ne	10u
75-09-2	Methylene Chlorida	5 u
67-64-1	Acetone	100
75-15-0	Carbon Disulfide	5.0
75-35-4	1, 1-Dichloroethene	5 11
75-34-3	1, 1-Dichforcethane	5 u
156-60-5	Trans-1, 2-Dichloroethene	5 u
67-66-3	Chloroform	5 U
107-06-2	1, 2-Dichloroethane	5 u
78-93-3	2-Butanone	100
71-55-6	1, 1, 1-Trichloroethene	.5 u
56-23-5	Carbon Tatrachloride	5.4
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichlorometharie	5 u

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

Date Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used Additional flogs or feetnates explaining results are encouraged. However, the definition of each flag must be explicit

- Value If the result is 8 value greater than or equal to the detection limit, separt the value
- Andicases compound was analyzed for but not detected. Report the mum detection time for the sample with the U/o g , 10UI based on necessary concentration /dilution action. (This is not necessarily the instrument detection limit). The feathers should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection firms for the sample
- indicates an estimated value. This ties is used either when estimating a concentration for tensatively atomitied compounds where a 1.1 response is assumed ar when the mass apecifal data endicated the presence of a compound that meets the identification Criteria but the result is less than the specified detection firms but greater than zero to g., 10J). If firmit of detection is 10 ug/Land a Lorsentiation of 3 pg 1 is calculated, report as 33
- This ling applies to pessicide parameters where the identification has Ç been confirmed by GC/MS. Single component posticides 210 ng ut in the final extract should be confirmed by GC/MS
- Thus flag is used when the analyse is found in the blank as well as a sample & indicates possible probable blank consamination and worns the date user to take appropriate action

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

REFERENCE NO. 24

Í

TABLE ! SAMPLE DESCRIPTIONS SPAULDING FIBRE COMPANY TONAWANDA, NEW YORK CASE# 7204 4/28/87

Sample ID Number	Organic Traffic Report #	Inorganic Traffic Report #	Time	Sample Type
NYR9-SW1	BC084	MBF 490	1455	Aqueous
NYR9-SW2	BC085	МВЈ192	1535	Aqueous
NYR9-GW1	BK 238	MBJ137	1650	Aqueous
NYR9-GW2	BK 239	MBJ292	i715	Aqueous
NYR9-BL1	BF 429	MBF484	-	Aqueous

TABLE I (CONT'D) SAMPLE DESCRIPTIONS SPAULDING FIBRE COMPANY TONAWANDA, NEW YORK CASE# 7204 04/29/87

Sample ID Number	Organic Traffic Report #	Inorganic Traffic Report #	Time	Sample Type
NYR9-SI	BK 240	MBF480	1640	Soil
NYR9-S2	BK 241	MBF481	1130	Soil
NYR9-S3	BF427	MBF482	1209	Soil
NYR9-S4	BF 428	MBF483	1230	Soil
NYR9-S5	BC080	MBF486	1315	Soil
NYR9-56	BC081	MBF487	1335	Soil
NYR9-57	BC082	MBF488	1430	Soil
NYR9-58	BK 249	MBI <i>5</i> 90	1500	Soil
NYR9-BL2	BC083		-	Aqueous

ANALYTICAL DATA SPALLDING FIBRE

SAMPLING DATE: 4/28-4/29/87

CASE NUMBER: 7204

INORGANICS	; !	_	1	1				l	1	-	-1			.1
SAMPLE MUMBER TRAFFIC REPORT NUMBER	I NYR9-SI		1 NYR9-53 1 NBF-482	NYR9-54 NBF-483	NYR9-55 NBF-486	NYR9-56 NBF-487	NYR9-57 MBF-488	NYR3-58 I NB1-590	1 MBJ-137	I MBJ-292	1 MBF-490	1 MBJ-192	I MBF-484	
MATRIX	I SOIL	I SOIL	I SOIL	I SOIL	I SOIL	I SOIL	SOIL	I SOIL	1 WATER	i water	I WATER	I WATER	I WATER	I WATER
UNITS	i ug/kg	l ug/kg	ug/k g	l ug/kg	l ug/kg	l ug/kg	i ug/kg	u g/kg 	1 ug/ L	i ug/L -1	i ug/L -t	ug/L -	∤ ug/L -	u g/L -
Aluminum	 10700E	1 14600E	12600E	1 22500E	1 21500E	1 22000E	1 27500E	1 18500E	1 1530	1 200	1 380	1 3620	1	I NR
Antimony	i	f	i	j	1	1	1	ł	[50]	j.	1	1	[40]	I NR
Arsenic	1 26	1 33	4 0	1 6	1 13	[4]	1 7	1 10	1	1	[4]	[7]	[4]	I NR
Barium	i Q	ı Q	1 0	ı Q	1 0	1 0	I Q	1 12	I Q	i D	1 0	I Q	1 [50]	I NR
Reryllium	1 (2)	1 [0.7]	[1]	[1]	1 [0.63	[1]	1 [0.7]	[1]	1	}	ı	!	1	I NR
Cadmium	Ī	1 4	l	i	1 5	ł	1 6	1 70	1	1	1	1	Ī	I NR
Calcium	1 8480E	1 11400E	7650E	1 66900E	1 16700E	1 62900E	1 57400E	I 31200E	1 78900	1 74300	1 150000	1 80800	!	I NR
Chronium	1 0	l Q	j Q	1 0	1 Q	i Q	1 0	ı Q	1	1	ł	t	!	I NR
Cobalt	1 (19)	[14]	1 [50]	1 [12]	1 (12)	1	ſ	[18]	1	1	1	1	1	J NR
Copper	1 2040E	1 3920E	1 239E	1 18E	1 596E	} 20E	1 1840E	1 25400E	ł	1 1111	1 (15)	1 23	1	I NR
Iron	1 29900E	1 44000E	1 28400E	1 28600E	1 36200E	1 28300E	1 34100E	1 76300E	1 2040	1 0	1 1050	1 6190	!	I NR
Lead	1 574	1150	1 73	1 17	200	1 16	1 408	581	ı 5	1 15	1 54	1 25	1	I NR
Magnesium	1 3820E	1 6890E	1 5960E	1 22000E	1 7100E	1 21200E	1 50500E	1 7170E	1 77200	1 42200	1 53600	35700	1	I NR
Manganese	1 272E	1 442E	1 624E	1 715E	I 1090E	641E	1 731E	1 699E	ı Q	1 0	1 144	1 423	ł	I NR
Mercury	1	1 0.21E	ı	I	1 0.46E	. 1	1	1 2.66E	1	1	1	ŀ	ı	i NR
Nickel	1 38E	1 56E	1 [20]	1 30€	I 61E	1 35E	I 68E	1 593E	i	ł	1	1	ı	I NR
Potassium	l Gaz	1	1	I 5680E	[2880]	1 4860E	1 3930E	1 [1950]E	1	1	1 (3250)	[3070]	1	I NR
Seleniu*	i	i	ı	1	1	1	1	1	1	1	1	t	1	1 NR
Silver	i	i	i	1	ı	1	1	1	1	1	1	1	1	I NR
Sodium	1 D	1 D	I D	1 0	1 0	1 0	ı Q	1 0	I Q	1 39600	1 0	I Q	1 0	i NR
Thallium	, .	, -	. <u>-</u>	1	1	ı	1	1	1 8	ı g	1 0	1 12	i Q	I NR
	1 102	366	[13]	1	[81]	1	I 82	1 111	i	1	I	1	1	1 NR
Tin Outside:	1 [26]	1 35	1 (56)	1 41	42	1 40	1 41	1 37	ı	1	ı	1	I	I NR
Vanadium Zinc	1 5290E		1850E	1 2540E	3030E	1 87E	1 2130F	1 30300E	ł	ı	1 97E	1 377E	ł	i NR

NOTES TO INORGANICS DATA:

Blank space - compound analyzed for but not detected

- Q analysis did not pass EPA QA/QC requirements
- []— compound present below contract-specified detection limits, but above intstrument detection limits
- B compound found in laboratory blank as well as the sample and indicates possible/probable blank contamination
- E value estimated due to laboratory interference
- NR- analysis not required

Form !

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	ron		P		Vanadium	40 U	P
12.	ead	54 R + 20	F	24.	Zinc	97 J	P
Cyan	de	NR 424-			cent Solids (%)		
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LAB NAMES	Mack Laboratories	CASENO	200A
SOV NO.	7064	CASE NO. <u>7</u>	404
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	2 2 (80) J P		0.2 U C.Vapor
		i6. Nickel	30 U P
Dr. Perkin	IU. P	17. Potassium	[3,070] P
a 6. Cadmit	P 3	18. Selenium	4 U F
The Call Street	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19. Silver	9 ប P
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U.S. EPA Contract Laboratory Program	EPA Sample No.
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INUR	GANICS ANALYSIS DATA SHEET
TAR WALES Brief Talance	
LAB NAME: Mack Laboratories	CASE NO. <u>7204</u>
SOV NO. 78	
LAB SAMPLE ID. NO. 3000/519	QC REPORT NO.: 3000/40
Elem	ents Identified and Measured
	···
Concentation: Low I	Medium
	·
Matrix: Vater X Soil	SludgeOther
	'
ne/I or	mg/kg dry weight (Circle One)
	many or a moretic for one one;
1 Alteninum 1,530 P	13. Magnesium 77.200 p
2. Anumony [50] J P	
3. Arsenic # 4U F	14. Manganese 93 P 15. Mercury 0.1 U C. Vapor
4. Bertun 100 J P	
5. Bervilitum 1 U P	16. Nicket 30 tl P
6. Cermium 5U 5 P	17. Potassium 3.000 U P
7: Calcium 78,900 P	18. Selenium 4 !! F
	19. Silver 9U P
	20. Sodium 25.000 P. P
	21. Theilium 45 UK F
	22. <u>Tin 20 V p</u>
11 Inon 2,040 P	23. Vanadium 🙃 🖫 🗜
12. Lead 5sR F	24. Zinc 130 J P
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2. Andm			13	Mercury	0.2 U	C.Vapor
3. Arseni	C 4 4 W		25 - 15	Nickel	30.U	P
4. Berius				Potassium	3,000 U	p
5. Berylli	Time Time Time Time				4 U	<u> </u>
6. Cedmi	m 50	J	10.	Setenium	9 U	p
Vo CALLIA	m 74 300	P	19.	Silver	39,600 R	P
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Sample Management Office P.O. Box 318 - Mexandria VA 22 703 557-2490 CTS: 8-557-2490	i D1 5 .				
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	7	14. Manger		5 Ŭ	<u>P</u>
3. Arenic i ice a 4	F	15. Mercur	У	5,2 U	C.Vapor
	<u> </u>	16. Nickel		30 U	P
5. Bet village - 48	e . p	17. Potessi	ım	3,000 U	P
6. Cadrillian + 72 - 50	TP	18. Seleniu		4 II	
7. Calcium - 48 800 U		19. Silver	-	311	E p
8. Chromium * 7U	ويشبهبكنكس				<u> </u>
		20. Sodium		(3,000) <u>R</u>	P
9. Cobalt 20 U	р	21. Thalliu	<u> </u>	→ 3 U R	
10. Copper 1 10 U	<u>'\ </u>	22. Tin		<u>20 ∏</u>	P
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	Revised: 34723,1987
	INORGANICS ANALYSIS DATA EMEET
	INURGANICS ATTALLED TO
	CASE NO. 7004
LAB NAME: Mack Laboratories	CROE NO.
AB NAME: MOVA LAUGE	QC REPORT NO. 3000/40
SOW NO: 784 LAB SAMPLE ID. NO. 3000/525	The Read Control of the Prince Control of th
AB SAMPLE ID. No.	ALL A AM A MORGUEFIT
	Elements Identified and Measured
	33. ^
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Concentation	Onla and
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Matrix: Water Suit	
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2 AMMONY WORK	Morciery J.I U.F. C. Valvoi
2 Acceptic 26	16 Nickel
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s Colimium 30	10 Cilvar
7. Galcium 8.480 *	20 Codium
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2. Antimo	19 "	P 19. Ma	7.0 24.44.4	
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- 1		P 16. Nic	kei 56	J P
4. Bertum		P 17. Pot	assium 2,110 U	P
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6. Cedhiu	D T 10.5 12 15 15 15 15 15 15 15 15 15 15 15 15 15		<u> </u>	JP
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10. Copper	1 5 P 3 920 \ J	P 22. Tir	nadium 35	P
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P.O. Box 818 - J	lexandria VA 22313				
703/557-2490	FTS: 8-557-2490		Date:	<u>June 26, 1987</u>	
			Revis	ed: July 23, 198	7
		INORGANICS ANAI	YSIS DATA S	HEET	
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1.0		e g	CASE NO.	720 4	
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Cabell	12 July P			12 U	P
10. Copper	18 CAR 1	22. <u>Tin</u>		41	P
id Iron	28.600 P	<u>∨a</u>	Aadium	2,540	P
12 Lebd	1754	24. <u>Zin</u>	C-1: 2- (77)	33	
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U.S. EPA Contract Laboratory Program	LPA Sample res.
Sample Management Office	MBF 466
P.O. Box 818 - Alexandria, VA 22313	
703/557-2490 ITS: 8-557-2490	
Data Data	: <u>June 26, 1987</u>
Dev	ised. july 23, 1987
INORGANICS ANALYSIS DATA	Onle
LAB NAME: Mack Laboratories CASE NO	3. <u>7204 </u>
SOV NO	
CC REPO	ORI NO.: 3000/40
LAB SAMPLE ID. NO. 3000/529	
Flements Identified and Me	ecured
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Concentation: Low X Medium	
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	7:110 JP
1 Auminim 21 500 E P 13. Magnesium	
2. Andmony 24 UR JP 14. Manganese	
13 Trienie 13 To F	0.46 R J C Vapor
Becken 16. Nickel	61 J P
Beryllitin 0.6 P 17. Potassium	(2,880) JP
19 Colonium	2 U F
A CONTRACTOR OF THE PROPERTY O	5UR JP
7.1	[1 488]
O. The Stiern	SU E
9. Cobalt 12 Jan P 21. Thailium	(18) P
10. Copper 1 596 5 P 22. Tin	
11 froit 23 36 200 P 23. Vanadium	
Technical P 24. Zinc	3,030 J P
Cyanide NR Percent Solids (%)	32
Fig. 1 September 1997	
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				/I or ma/kg	dry weight (C	ircle (ine)	
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*.3.	Arsenic	CI POST SERVICE	14.40 图		Mercury		C.Vapor
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125	Barvilla	M CANADA	P PARTY P	-17.	Potassium	4,860	J# 73
A 1	Cadmius		U + P		Selenium	2 U	E
	alcium				Silver	5 UR	JP
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	all Land water to a contract to the contract	<u> </u>
IIIS EPA Kons	upot Laboratory Program	EPA Semple No.
Samola Man	gement Office	MBF 483
Som Ste unon	Memory Office	MID: 405
. P.U. BOX 818	Alexendria VA 22313	
703/557-2490	FTS: 8-557-2490	
		Doto: None 26 1007
1		Date: <u>June 26</u> <u>1987</u> Revised: July 23, 1987
		Revisad: [NAy 2], 1987
		INORGANICS ANALYSIS DATA SHEET
		Traffamire initial property and a
	Mack Laboratories	CASE NO. 7204
SOV NO	784	
	ID. NO.: 3000/531	9C REPORT NO.: 3000/40
	10.10.	+ OC . QUELTURI INC. JOUUTTU
Se 13.		Elements Identified and Measured
6		Stadium.
Concentation		Medium
Matrix	Vater Soil	X Siudge Other
		
		ug/Lor mg/kg dry weight (Circle One)
		10 11
i. Alumin	bh 27.500 E 27 P	13. <u>Magnesium 20,200 JP</u>
~2. Antimo	httria # 27 UR I IP	14. Manganese 731 R JP
3. Artenic	有支持数据 、 - 73 公 物 公 F	15. Mercury 3.1 UR C.Vapor
d' Badelai	201 P	16. Nickel 68 J P
Del Ion	والمراقب وال	
5. Bervilli		17. Potassium 3.930 JP
6. Cadmiu	II 以36 6 6 P.P.	. 18. Selenium 3 U F
7. Calcium	257.400 * J. P	19. Silver 6 UR JP
8. Chromi		
9. Cobalt	14 U JAYP	7 21. Theilium 6 U F
10. Copper	1,840 J. P	22. Tin 82 P
11. Iron	*34,100 P	
12. Lead		24. Zinc 2,130 J. P
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CASUTOS :	Reserve NR Market	Percent Solids (%) 73
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Footnotes-	For reporting regulate to FD	A, Standard result qualifiers are used as defined on
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U.S. IPA Contract Laboratory Program	EFA Sample No.
Sample Management Office	- MBI 590
P.O. Box 818 - Alexandria, VA 22313	WADI Jau
	*.
703/557-2490 FTS: 8-557-2490	,
1000 1000 1000 1000 1000 1000 1000 100	Date : <u>june 36</u> 1987
	Revised: June 30 1987
	NORGANICS ANALYSIS DATA SHEET
LAB NAME: Mack Laboratories	CASE NO. 7204
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SOV NO. A THA	
LAB SAMPLE D, NO. 3000/532	* QC REPORT NO.: 3000/40
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	Elements Identified and Meesured
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Concentation Low I	Medium
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Matrix Vater Soil	X Sludge Other
Mod IA.	X Sludge Other
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	/L or mg/kg dry weight (Circle One)
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Albaninith 18500 E	13. <u>Magnesium</u> 7,170 J. P
2. Antimont 25 UR 35 P	14. Manganese 599 R JP
3 Artenic 1 10 F	
4. Bottum 18 389	16. <u>Nickei</u> 593 7 P
5 Beryllium P	17. Potassium [1.950] JP
6. Calmium 770 Adv. P	18. Selenium 2 U F
7 Calcium 200 + 74 P	
O. GARGILLA	20. Sodium [1.560] P
9 Comment Program P	21. Thailium 6U F
10. Copper 25,400 P	22. Tin 111 P
11. Iron P 276,300 P	
	·
12. Lead 11. 7 2 581 9 14 7 P	24. Zinc 30 300 J P
Cyanide Tre Lys & NR Med 2	Percent Solids (%) 78
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Over Page. Additional flags	or footnotes explaining results are encouraged.
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Organics Analysis Data Sheet (Page 1)

Jahoratory Name:	Cambridge Ana	lytical Assoc.	Case No:	7204	
tab Sample ID No:	8704240-01	CLANDA1136	QC Report No:	21	
Sample Matrix:	1640-		Contract No:	68-01- 7278	
Data Release Auth	orized By:	1 SM	Date Sample Re	caived: 4/29	87

Volatile Compounds

Concentration: Low Medium (Circle One) Date Extracted/Prepared: 5 5 8 7				
	-1-1-7	87		
Date Analyzed:		7_		
Conc/Dil Factor:	pt	t		
Percent Moisture:	(Not Decented)	N/A		

CAS Number		ug/lor 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 u
67-64-1	Acetone	34 as
75-15-0	Carbon Disulfide	5 u
75-35-4	1, 1-Dichloroethene	5 u
75-34-3	1, 1-Dichloroethane	5 u
156-60-5	Trans-1, 2-Dichloroethene	5 u
67-66-3	Chloroform	5 u
107-06-2	1, 2-Dichloroethane	5 u
78-93-3	2-Butanone	100
71-55-6	1, 1, 1-Trichlorgethane	5 u
56-23-5	Carbon Tetrachloride	5 u
108-05-4	Vinyl Acetate •	10u
75-27-4	Bromodichluromethere	5 u

CAS Number		ug/jer ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	5 11
10061-02-6	Trans-1, 3-Dichloropropene	5 u
79-01-6	Trichloroethene	15 u
124-48-1	Dibromochloromethane	5 u·
79-00-5	1, 1, 2-Trichtoroethene	5 u
71-43-2	Benzene	ว ช
10061-01-5	cis-1, 3-Dichloropropene	5 8
110-75-8	2-Chloroethylvinylether	100
75-25-2	Bromoform	5 v
108-10-1	4-Methyl-2-Pentanone	10u
591-78-6	2-Hexanone	10u
127-18-4	Tetrachloroethene	5 u
79-34-5	1, 1, 2, 2-Tetrachioroethane	5.0
108-88-3	Toluene	5 0
108-90-7	Chlorobenzene /	5 0
100-41-4	Ethylbenzene :	5 ů
100-42-5	Styrene	5 U
	Total Xylenes	5 ย

Data Reporting Qualifiers

For reporting results to EPA, the following results quelifiers are used. Additional flags or feetnates explaining results are encouraged. However, the glafination of each flag must be explicit.

- If the result is a value greater than or equal to the detection limit, report the value $% \left(\mathbf{r}_{i}^{\prime }\right) =\mathbf{r}_{i}^{\prime }$
- Andicases compound was analyzed for but ago descred. Report the minimum desection time for the sample with the Use g., 10Ui based on necessary concentration/dilution action. (This is not necessarily the instrument desection time). The facenate should read. U-Compound was analyzed for but not detected. The number is the minimum attainable desection time for the sample.
- Indicates an estimated value. This stop is used either when estimating a concentration for tentatively identified commounds where a 1-1 response is assumed or when the mass specified data indicated this 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). If limit of detection is 10 µg/1 and a soruentiation of 3 µg/1 is calculated, report as 3J.
- C This ting applies to posticide parameters where the identification has been confirmed by GC/MS. Single companent posticides ≥10 ng. of in the final extract should be gonderted by GC/MS.
- 8 This flag is used when the analyse is found in the blank at well as a gample. A indicates possible / probable blank contamination and words the date user to take appropriate position.

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

ratory Nam	e <u>Cambridge</u>	Analytical	<u>Associates</u>
40 No:	7204		

Sample Number BF 429

Organics Analysis Data Sheet (Page 2)

00308

Semivolatile Compounds

Concentration: (Circle	One) GPC Cleanup DYes ØNo
Date Extracted Prepared 5/04/87	Separatory Funnel Extraction
Date Analyzed 5/20/87	Continuous Liquid - Liquid Extraction XYes
Conc./Dil Factor:	
Percent Moisture (Decented) N/A	

CAS		ug/for ug/Kg (Circle One)
Number		10u
108-95-2	Phenol	100
111-44-4	bisi-2-Chloroethyl)Ether	108
95-57-8_	2-Chiorophenol	
541-73-1	1 3-Dichlorobenzene	101
106-46-7	1, 4-Dichlorobenzene	104
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	100
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropy!)Ether	100
106-44-5	4-Methylpheno*	10u
821-84-7	N-Nitroso-Di-n-Propylamine	10u
87-72-1	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	bisi-2-ChloroethoxylMethane	10u
120-83-2	2.4-Dichlorophenot	10u
120-82-1	1, 2, 4-Trichlorobenzene	1.0u
91-20-3	Naphthalene	10u
106-47-8	4-Chlorosniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	104
88-06-2	2. 4. 6-Trichlorophenal	10u
95-95-4	2. 4. 5-Trichlorophenol	50 u
91-58-7	2-Chloronaphthaiene	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/lor ug /Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenal	50น
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	1 Ou
121-14-2	2 4-Dinitratoluene	1 Ou
606-20-2	2. 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u ~
86-73-7	Fluorene	10ນ 🗝
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	100
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachiorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7 -	Anthracene	100
84-74-2	Di-n-Butylphthelate	1.0u
206-44-0	Fluoranthene	10u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	2011
56-55-3	Benzo(a)Anthracene	100
117-81-7	bisi2-EthylhexyllPhthalate	10u
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate +	10u
205-99-2	Benzo(b)Fluoranthene	110u
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	Dibenzia hjAnthracene	1011
191-24-2	Benzo(g.h.i)Perylene	10u

⁽¹⁾⁻Cannot be separated from diphenylamine

Laboratory	Name	ambridge	<u>Analytical</u>	_Associates
Case No _	7204			

Sample Number BF 429

Organics Analysis Data Sheet (Page 3)

Pesticide/PCBs

Concentration: (ow) Medium (Circle One)	GPC Cleanup Elyes MNo
Date Extracted Prepared: 5/4/87	Separatory Funnel Extraction Tyes
Date Analyzed 5/31/87	Continuous Liquid - Liquid Extraction 図Yes
Conc 'Dil Factor:	
Parant Mainture (deposed)	

CAS Number		(Circle One)
319-84-6	Alpha-BHC	0.05 4
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachior	0.051
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.054
959-98-8	Endosulfan i	0.054
60-57-1	Dieldrin	0.104
72-55-9	4, 4 - DDE	0.10 U
72-20-8	Endrin	0.10 4
33213-65-9	Endosulfan II	0.10 1
72-54-8	4, 4'-DDD	0.10 4
1031-07-8	Endosulfan Sulfate	0.104
50-29-3	4.4'-DDT	0.10 U
72-43-5	Methoxychlor	0.5 4
53494-70-5	Endrin Ketone	0-10 U
57-74-9	Chlordane	0.5 U
8001-35-2	Toxaphene	1.0 0
12674-11-2	Aroclor-1016	0.5 V
11104-28-2	Aroclor-1221	0.5 4
11141-16-5	Aroclor-1232	0.50
53469-21-9	Arocior-1242	050
12672-29-6	Arocior-1248	0.50
11097-69-1	Aroclor-1254	1.0 0
11096-82-5	Arocior-1260	1.0 1

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (mi)

W_a = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

1 LODOM W	V1 10,000 ul	_ v, _ 3ul
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Jratory Name	Cambridge_	Analytical	Associates
e No	7204		

Sampl	e Number
BF	429

00310

Organics Analysis Data Sheet (Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Goncentration (ug/l or ug/kg)
1	nonane	BNA	8.47	16 5
2	dihydro. 2(3H) faranone		8.68	275
3. ——	mone detected		10.64	58 J
4	man altected	VOA		
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7				
18				
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P.—				



P.O. Box 919, Alexandra, Virginia 22313 --703 557-2490 • FTS 557 2490 ORGANICS TRAFFIC REPORT

Sample Number BK 240

(1) Case Number:		ONCENTRATION (Control of the Control	NC	(4) Shi	ip To: BIDGE ANAU/TICAL AS
Sample Site Name/Code:		Concentration um Concentration	on	1106	COMMONWEALTH ALL ON, MA
	3 SAMPLE M (Check C Water Soil/S			Trans	SHARON WALER. fer To: 00360
Sampling Personnel: Property (Name)	6 For each sam of containers on each bottle	used and mark v	Olume le	rvel	I) Analysis Lab: Rec'd by: Sawle Date Rec'd: #30/87 Sample Condition on Receipt (e.g., broken, n
(Phone) Sampling Date:	Water (Extractable)	Containers	Total Vo	olume	ice, Chain-of-Custody, etc.)
(Begin) (End)	Water (VOA)				
7 Shipping Information	Soil/Sediment (Extractable)	.1	302.		
FFT AL ENPOSS	Soil/Sediment (VOA)	1	20ml		
Name of Carrier	Other 23/255F		9 02.		
Date Shipped:					
349802571.4					
Airbill Number:	·				
8 Sample Description	•	· · · · · · · · · · · · · · · · · · ·	9 Sam	ple Lo	cation .
Surface Water Ground Water	Mixed Media Solids				manere .
Leachate	Other (specify) _		N	/R9-	<u>S1</u>
Special Handling Instru (e.g., safety precautions, hazard	ctions:	MATCHES!	WORE	74N10	- T-REPORT
	•				# MBF 480

LAB COPY FOR RETURN TO SMO

Semple Number BK240

Organics Analysis Data Sheet (Page 1)

Laboratory Name:Cambridge Analytical Assoc.	Case No. 7204
Lab Sample ID No: 870+240-09 (LAY041165	OC Report No:
Sample Matrix:Soil	Contract No: 68-01-7278
Data Release Authorized By:	Date Sample Received. 429 77 5AL 4 30 67
Volatile Com	npounds
Concentration: Low M	ledium (Circle One)

5 8 8 7

Date Extracted/Prepared;

Percent Moisture: (Not Decanted).

Date Analyzed: __
Conc/Dil Factor:

CAS Number	·	ug/l or ug/K
74-87-3	Chloromethane	50u
74-83-9	Bromomethane	50u
75-01-4	Vinyl Chloride	50u
75-00-3	Chloroethane	50u
75-09-2	Methylene Chloride	16J 16J
67-64-1	Acetone	50u
75-15-0	Carbon Disulfide	250
75-35-4	1, 1-Dichloroethene	25u
75-34-3	1, 1-Dichloroethane	25u
156-60-5	Trans-1, 2-Dichlorgethene	25u
67-66-3	Chloroform	25u
107-06-2	1, 2-Dichloroethane	25u
78-93-3	2-Butanone	50u
71-55-6	1, 1, 1-Trichloroethane	25u
56-23-5	Carbon Tetrachloride	25u
108-05-4	Vinyl Acetate	50v
75-27-4	Bromodichloromethany	25u

CAS Number		ug/I or ug/Kg (Circle One)
78-87-5	1, 2-Dichleropropene	25u
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	25u
124-48-1	Dibromochloromethene	25u
79-00-5	1, 1, 2-Trichloroethane	25u
71-43-2	Benzene	25
10061-01-5	cis-1, 3-Dichtoropropene	254
110-75-8	2-Chloroethylvinylether	50u
75-25-2	Bromoform	25u
108-10-1	4-Methyl-2-Pentanone	50u
591-78-6	2-Hexanone	50u
127-18-4	Tetrachloroethene	25u
79-34-5	1, 1, 2, 2-Tetrachioroethane	25u
108-88-3	Toluene '88	74u 48
108-90-7	Chlorobenzene	25u
100-41-4	Ethylbenzene	25u
100-42-5	Styrene	25u
	Total Xylenes	25u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or featneses explaining results are encouraged blawwer, the definition of each flag must be explicit.

- false. If the result is a value greater than or equal to the detection binsis, report the value.
 - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the USe 9. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The facinate should read. U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
 - Indicates an ostimated 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 indicated the presence of a compound that masts the identification criteria but the result is test than the specified detection times but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg flat calculated, report on 3J.
- C. This flag applies to posticide parameters where the identification has been confirmed by GC MS. Single companion posticides ≥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 comple. It indicates possible randoble blank contamination and warns the data user to take appropriate action.
- Other apecific flags and featnesses may be required to present define the results. If used they must be fully described and such description attached to the data summary report.

zy Name: _	Cambridge Analyti	cal Associates
40:	7204	

8 BK 240

Organics Analysis Data Sheet (Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)	GPC Cleanup □Yes ®No
	Separatory Funnel Extraction DYes 00362
Date Analyzed: 5-H-8/	Continuous Liquid - Liquid Extraction Yes
Conc (Dil) Factor:	
Percent Moisture (Decented) 2/	

CAS Number		ug/lorug/Kg
108-95-2	Phenol 9500	16504 sa
111-44-4	bist-2-ChloroethyllEther	16504
95-57-8	2-Chlorophenol	6504
541-73-1	1 3-Dichlorobenzene	16504
106-46-7	1, 4-Dichlorobenzene	1650U
100-51-6	Benzyl Alcohol	1650U
95-50-1	1, 2-Dichlorobenzene	16504
95-48-7	2-Methylphenol 2800	1650USEL
39638-32-9	bis(2-chloroisopropyl)Ether	1650u
106-44-5	4-Methylpheno' 11,000	HOSO WASEL
821-64-7	N-Nitroso-Di-n-Propylamine	1650u
87-72-1	Mexachieroethane	1650 U
98-95-3	Nitrobengene	1650u
78-59-1	Isophorone	1650u
88-75-5	2-Nitrophenol	1650 U
105-87-9	2. 4-Dimethylphenol 9800	HOSOUSEL
65-85-0	Benzoic Acid	ROOD LANK
111-91-1	bist-2-Chloroethoxy)Methane	1650U
120-83-2	2, 4-Dichlorophenol .	1650U
120-82-1	1, 2, 4-Trichlerobenzene	1650 U
91-20-3	Naphthalene	650 U
106-47-8	4-Chlorosniline	1650U
87-68-3	Hexachlorobutadiene	1650 U
59-50-7	4-Chloro-3-Methylphencyll	HOOD U SA
91-57-6	2-Methylnaphthalene 1703	1650U SAL
77-47-4	Hexachierocyclopentadiene	16504
88-06-2	2. 4. 6-Trichlorophenol	1650U
95-95-4	2, 4, 5-Trichlorophenol	8000 U
21-58-7	2-Chioronaphthalene	1650u
88-74-4	2-Nitroaniline	8000M
131-11-3	Dimethyl Phthalate	1650 u
206-96-8	Acenephthylene	165Du
99-09-2	3-Nitroaniline	8000 N

CAS Number		ug /l or ug /Kg (Circle Cae
83-32-9	Acenaphthene	1650 V
51-28-5	2. 4-Dinitrophenol	8006 U
100-02-7	4-Nitrophenol	2000U
132-64-9	Dibenzofuran	16504
121-14-2	2 4-Dinitrotoluene	16504
608-20-2	2. 6-Dinitrotoluene	1650U
84-66-2	Diethylphthalate	16504
7005-72-3	4-Chlorophenyl-phenylether	1650U
86-73-7	Fluorene	1650 U
100-01-8	4-Nitroaniline	16504
534-52-1	4, 6-Dinitro-2-Methylphenol	8200 U
86-30-6	N-Nitrosodiphenylamine (1)	BOU
101-55-3	4-Bromophenyl-phenylether	650 U
118-74-1	Hexachlorobenzene	16504
87-86-5		R000 u
85-01-8	Phenenthrene 240J	HUSOU ML
120-12-7	Anthracene	1650 U
84-74-2	Di-n-Butylphthelate /3000	HEDO HOR
206-44-0	Fluoranthene 250J	HEDH SE
129-00-0	Pyrene 229J	1650 U 26L
85-68-7	Butylbenzylphthelate	16504
91-94-1	3. 3 Dichlorobenzidine	3800 U
56-55-3	Benzo(a)Anthracene	1650 U
117-81-7	bis(2-Ethylhexyl)Phthalate	1650 d 360
218-01-9	Chrysene	16504
117-84-0	Di-n-Octyl Phthalate	16504
205-99-2	Benzo(b)Fluoranthene	16504
207-06-9	Benzolk)Fluoranthene	1650 U
50-32-8	Benzo(a)Pyrene	1650 U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	16504
53-70-3	Dibenz(a. h)Anthracene	65D U
191-24-2	Senzo(g. h. i)Perylana	16504

(1)-Cannot be separated from diphonylemine

Laboratory Name __Cambridge Analytical Associates

7204

Sample Number BK 240

Organics Analysis Data Sheet (Page 3)

06363

Pesticide/PCBs

Concentration: Low Medium (Circle One)	GPC Cleanup DYes MNo Separatory Funnel Extraction DYes
Date Entracted 'Prepared: 5/8/87 Date Analyzed 5/31/87	Continuous Liquid - Liquid Extraction DYes
Conc 'Dil Factor: 1/10	·

CAS Number		ug /l orlug /kg (Circle One)
319-84-6	Alpha-BHC	80.00
319-85-7	Bela-BHC	80.00
319-86-8	Delta-BHC	80.00
58-89-9	Gamma-BHC (Lindane)	80.00
76.44.8	Heptachior	80.00
309 00 2	Aldrin	80.00
1024-57-3	Heptachior Eposide	80.0€
959-98-8	Endosulfan I	80.00
60-57-1	Dieldrin	160.0U
72.55.9	4.4.DDE	160.00
72-20-8	Endrin	160,00
33213-65-9		160.00
72-54-8	4.4 -DDD	160,00
1031-07-8	Endosulfan Sulfate	160.00
50-29-3	4,4'-DDT	16000
72-43-5	Methoxychlor	%00.0U
53494.70		7400.00
57.74.9	Chiordane	800.00
8001-35-2	Tousphene	1600.00
12674-11-		800.00
11104-28		800,00
11141-16		800.00
53469-21-		800.00
12672-29		-\$00.0H-10
11097-69		1600.00
11097-83		1600.00
11030.02.	V	

3140 C

٧,	a Volume of extract injected (ul)
٧,	* Volume of water extracted (ml)
_	* Weight of sample extracted (g)
_	= Volume of social extract (ul)

	21.29	v, 20,000pl	v, 3 nl
/ ₋	or Wa	1	• /

Austory Name	<u>mbridoe Analy</u>	tical Associates
	204	

Sample Number BK240

Organics Analysis Data Sheet (Page 4)

Tentatively Identified Compounds

00364

CAS Number	Compound Name	Frection	RT or Scan Number	Estimated Concentration (ug/I of ug/kg)
1	defundro 2/3H Summone	BNA	8.74	2100 T
2	2 estant Charlot		13,19	12001
3	3-methoxy beneat dehude		13,56	930
4	trumethal sherol somes		14.33	1900
S	20ther to mother chause		14.68	1400
6	Benzene, 1-others -4- methoxy	·	14.86	1900
7	Imazine 2,3 drether 5 mesture		15.02	1500
9	(Luknown		25.95	1800
9	1.4 cyclohexediene, 6- nethylene		26.55	2400
10	unknow		27.66	1600
11	1-phenosthernecasboxy/icacid		27.99	3700
12	(mknown		28.08	920
13	11		30.60	5200
14	11		30.91	6400
18	4		31.21	3100
18	"		31,38	3/00
17	Benzenamine, 4-(2-phenylethenyl)	V	31.72	3300 V
18	nonedetected	VOA-		
19				
20			1	
21				
22				
23				
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25				
26	·			
27				
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29				
30	<u></u>			



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office PO Box 818, Alexandria, Virginia: 22313 –703 557-2490 • FTS 557-2490 • ORGANICS TRAFFIC REPORT

Sample Number

BK 241

Sample Site Name/Code:	Low (C. Media SAMPLE M. (Check C. Water	Dne)		106 C 305TO	COMMONWEALTH AVE IN, MA 02215 SHARON WALFA
Sampling Personnel: FITZ DOHERTY (Name) 20127-1110	6 For each sam of containers on each bottle	used and mark v	Approxi	rei mate	(I) Analysis Lab: Rec'd by: 10/67 Date Rec'd: 4/30/67 Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
(Phone) Sampling Date:	Water (Extractable) Water (VOA)	Commicis			OK.
7 Shipping Information	Soil/Sediment (Extractable)		802		·
Name of Carrier Date Shipped:	Soil/Sediment (VOA) シルクを対対性・バ -Other とこ/シェッ	, 1	120ml		
Airbill Number:	•				1
8 Sample Description Surface Water Ground Water Leachate	_ Mixed Media _ Solids _ Other (specify) _		Samp		·
(e.g., safety precautions, hazardous nature) 10 Special Handling Instructions: (e.g., safety precautions, hazardous nature) 11 ATCHES MO INDREANIC T-REPORT # MBF 49;					

Semple Number BK241

Organics Analysis Data Sheet (Page 1)

Laboratory Name:	Cambridge Analytical Assoc.	Case No. 720	,4
Lab Sample ID No:	8704240-10 aproa1146	QC Report No: 2	
Sample Matrix:	Soll	Contract No: _68-0	-7278
Data Release Auth	orized By Chock Sext	Date Sample Receive	8. 52 4/20/87 4/30/87

Volatile Compounds

Concentration:	Low Med	liugi , (C	ircle One)	
Date Extracted/Pr	repared:	2/6/8	}	
Date Analyzed:	5/6	6/87		
Conc/Dil Factor:	_5	pH	N/A	
Percent Moisture:	(Not Decam	ed) as	59 4	1

CAS Number		ug/l or ug/Kg (Circle One
74-87-3	Chloromethane	50a
74-83-9	Bromomethane	50u
75-01-4	Vinyl Chloride	50u
75-00-3	Chloroethane	50u
75-09-2	Methylene Chloride	EUR MOS
67-64-1	Acetone	50u
75-15-0	Carbon Disulfide	Zou
75-35-4	1, 1-Dichloroethene	25u
75-34-3	1, 1-Dichforoethane	25u
156-60-5	Trans-1, 2-Dichloroethene	25u
67-66-3	Chloroform	25u
107-06-2	1, 2-Dichloroethane	250
78-93-3	2-Butanone	50u
71-65-6	1, 1, 1-Trichloroethane	25u
56-23-5	Carbon Tetrachloride	25u
108-05-4	Vinyl Acetate	50u
75-27-4	Bromodichloromethane	25u

CAS Number	•	ug/I or vg/Kg (Circle Ons)
78-87-5	1, 2-Dichleropropane	25u
10061-02-6	Trans-1, 3-Dichloropropene	25u
79-01-6	Trichloroethene	25u
124-48-1	Dibromochloromethane	25ช
79-00-5	1, 1, 2-Trichloroethane	25u
71-43-2	Benzene 66	Jei 230
10061-01-5	cis-1, 3-Dichloropropene	25:
110-75-8	2-Chloroethylvinylether	50u
75-25-2	Bromoform	25น
108-10-1	4-Methyl-2-Pentanone	50u
591-78-6	2-Hexanone	50u
127-18-4	Tetrachloroethene	25u
79-34-5	1, 1, 2, 2-Tetrachloroethane	25 u
108-88-3	Toluene	951 120
108-90-7	Chlorobenzene	25 0
100-41-4	Ethylbenzene	25u
100-42-5	Styrene	25u
	Total Xylenes	25u

Date Reporting Qualifiers

For reporting results to EPA, the following results quelifiers are used Additional flags or feotnoies explaining results are encouraged Hawaver, 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
 - Indicates compound was analyzed for but not detected. Report the minimum detection time; for the sample with the U (e.g., 10U) besed on necessary concentration/dilution action. (This is not necessarily the instrument detection time;). The footnote should read. U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
 - Indicates an estimated value. This flag as used either when estimating a concentration for tentatively identified compounds where a 1.1 response is assumed or when the mass specified data indicated the presence of a compound that makes the identification criticis but the result is less than the specified detection limit but greater than zero (e.g., 10.8). If limit of detection is 10 µg/1 and a concentration of 3 µg/1 is calculated, report as 3J.
- C This lieg applies to pesticate parameters where the identification has been confirmed by GC MS. Single component posticities≥10 ng ·ul in the final extract should be penfirmed by GC·MS.
- 8 This lieg is used when the enable is found in the blank as well as a gample - it indicates possible/grabable blank contamination and worns the data user to take appropriate action.

Other Specific flags and footnetes may be required to properly define the results. If used, they must be fully described and such description attached to the data summery report.

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