STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

INTER-OFFICE MEMO

TO: Thomas Wright, Chief
Air and Hazardous Materials
DEPT: Environmental Management

DATE: 7 December 1982

FROM: James W. Fester, Chief
Division of Water Resources
DEPT: Environmental Management

SUBJECT: Ciba-Geigy Sludge Analysis

Attached please find reports of the analysis of Ciba-Geigy sludge, sludge extract and WWTF effluent. Please review the sludge data to determine if it is classified as a hazardous waste under your regulations.

JWF:lag
Attachment

SEMS DocID 667491

Rhode Island Department of Health Dav[illegible] Providence, Rhode Island

Chemical Results Expressed In Milligrams Per Liter Where Applicable

DATE RECEIVED	LAB NUMBER
4 Oct 82	76579 A

TURBIDITY	SEDIMENT	ODOR	COLOR	SOLIDS				DISSOLVED OXYGEN	B. O. D. 5 DAY	CYANIDE	PHOSPHATE AS P	pH	RES. CHL.
V. SL. SL. CONS. / DEC. GT.	V. SL. SL. CONS. / DEC. GT.	V. FT. FT. DIS. / DEC. STR. V. STR.		TOTAL	LOSS ON IGN.	SUSP.	SETTL. ML/L						

FREE AMMONIA AS N	NITRITE AS N	NITRATE AS N	ALKALINITY	ACIDITY	CHLORIDE	FLUORIDE	HARDNESS	IRON	MANGANESE	SODIUM	POTASSIUM	CALCIUM	MAGNESIUM	SULFATE

ARSENIC	BARIUM	CADMIUM	CHROMIUM	COPPER	LEAD	MERCURY	NICKEL	SELENIUM	SILVER	ZINC	M. B. A. S.
0.016	0.40	0.14	1.65	3.5	1.12	0.028	1.0	0.016	0.11	99.0	

See Attached Sheet

ALDRIN	CHLORDANE	DDT	DIELDRIN	ENDRIN	HEPTACHLOR	HEPTACHLOR EPOXIDE	LINDANE	METHOXYCHLOR	TOXAPHENE	2, 4 D	2, 4, 5 TP SILVEX

Pesticides results cancelled.

MICROBIOLOGICAL

COLIFORM BACTI.	10 ML	1.0 ML	0.1 ML	0.01 ML				M. F.
PRESUMPTIVE-24 HRS.								
PRESUMPTIVE-48 HRS.								
CONFIRMED								
FECAL								
COMPLETED								

RADIOACTIVITY p Ci/L	
GROSS ALPHA	
GROSS BETA	

RAYMOND G LUNDGREN JR PH D

ASSISTANT DIRECTOR OF HEALTH

11 24 82 DATE

See enclosed summary sheet for interpretation if numbers are indicated here. →

DATE COLLECTED	LAB NUMBER
4 October 1982	76579 A

CITY OR TOWN: Cranston

OWNER: CIBA-GEIGY CORP.

SOURCE: Sludge

REPORT TO:

Dr. James Crowley, Section Head
Environmental Technology

Ciba-Geigy Corp.
P.O. Box 2055

Cranston, Rhode Island ZIP CODE

CIBA-GEIGY CORP.
IND. WASTE

DATE

1,2-dichloropropane	ND	10
1,3-dichloropropene (cis & trans)	ND	10
Chlorobenzene	390	10
Benzene	ND	100
Toluene	13,500	100
Ethylbenzene	250	100
Xylene	2100	100

PT 11/23/82

ND - NOT DETECTED at concentrations above the Minimum Detection Limit (MDL).

MDL - MINIMUM DETECTION LIMIT; that is, the level below which the chemical cannot be detected with presently available instrumentation.

RHODE ISLAND DEPARTMENT OF HEALTH
Division of Laboratories

Trace Organics

ATER SAMPLE ANALYSIS REPORT

LOG. NO. 76579

RECEIVED
R.I. DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT

DEC 7 1982

DIVISION OF WATER RESOURCES

Lab #: S-211-78

CHEMICAL	FINDING (Parts Per Billion)	MDL (Parts Per Billion)
Chloroform	50	10
Bromodichloromethane	ND	10
Dibromochloromethane	ND	10
Bromoform	ND	10
1,1,1-trichloroethane	ND	10
Carbon Tetrachloride	ND	10
Trichloroethylene	ND	10
1,1,2-trichloroethane	ND	10
Tetrachloroethylene	ND	10
1,1,2,2-tetrachloroethane	ND	10
Dichloromethane	ND	10
1,1-dichloroethene	ND	10
1,2-dichloroethene	ND	10
1,1-dichloroethane	ND	10
1,2-dichloroethane	ND	10
1,2-dichloropropane	ND	10
1,3-dichloropropene (cis & trans)	ND	10
Chlorobenzene	390	10
Benzene	ND	100
Toluene	13,500	100
Ethylbenzene	250	100
Xylene	2100	100

PT 11/23/82

ND - NOT DETECTED at concentrations above the Minimum Detection Limit (MDL).

MDL - MINIMUM DETECTION LIMIT; that is, the level below which the chemical cannot be detected with presently available instrumentation.

Rhode Island Department of Health Davis St. Providence, Rhode Island

Chemical Results Expressed In Milligrams Per Liter Where Applicable

DATE RECEIVED	LAB NUMBER
	76579B

TURBIDITY		SEDIMENT		ODOR		COLOR	SOLIDS				DISSOLVED OXYGEN	B.O.D. 5 DAY	CYANIDE	PHOSPHATE AS P	pH	RES Cm
V. SL. SL. CONS	DEC. GT.	V. SL. SL. CONS.	DEC. GT.	V. FT. FT. DIS.	DEC. STR. V. STR.		TOTAL	LOSS ON IGN.	SUSP.	SETTL. ML/L						

FREE AMMONIA AS N	NITRITE AS N	NITRATE AS N	ALKALINITY	ACIDITY	CHLORIDE	FLUORIDE	HARDNESS	IRON	MANGANESE	SODIUM	POTASSIUM	CALCIUM	MAGNESIUM	SULFATE

ARSENIC	BARIUM	CADMIUM	CHROMIUM	COPPER	LEAD	MERCURY	NICKEL	SELENIUM	SILVER	ZINC	M. B. A. S.
0.018	0.19	0.009	0.006	<0.02	<0.005	0.0017	0.11	0.007	<0.003	0.45	

See Attached Sheet

ALDRIN	CHLORDANE	DDT	DIELDRIN	ENDRINE	HEPTACHLOR	HEPTACHLOR EPOXIDE	LINDANE	METHOXYCHLOR	TOXAPHENE	2, 4 D	2, 4, 5-TP SILVEX

MICROBIOLOGICAL									RADIOACTIVITY pCi/L	
COLIFORM BACTI.	10 ML	1.0 ML	0.1 ML	0.01 ML				M. F.	GROSS ALPHA	
PRESUMPTIVE-24 HRS.										
PRESUMPTIVE-48 HRS.									GROSS BETA	
CONFIRMED										
FECAL										
COMPLETED										

RAYMOND G LUNDGREN JR PH D

ASSISTANT DIRECTOR OF HEALTH

12 . 1 82
DATE

See enclosed summary sheet for interpretation if numbers are indicated here. ⟶

DATE COLLECTED	LAB NUMBER
4 October 1982	76579 B

CITY OR TOWN: Cranston

OWNER: Ciba-Geigy Corp.

SOURCE: Sludge Extract

REPORT TO:

Dr. James Crowley, Section Head

ZIP CODE

CIBA-Geigy CORP.
IND. WASTE

DATE

RECEIVED
R.I. DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
DEC 1982
DIVISION OF WATER RESOURCES

Sample 765798 Ciba Geigy Sludge Elutriate

Aldrin	if	present	less	than	.2	mcg/	liter	20
Alpha BHC	"	"	"	"	.1	"	"	
Beta BHC	"	"	"	"	.1	"	"	
Gamma BHC	"	"	"	"	.1	"	"	
Delta BHC	"	"	"	"	.1	"	"	
Chlordane	"	"	"	"	2	"	"	
DDD	"	"	"	"	1	"	"	
DDE	"	"	"	"	.4	"	"	
DDT	"	"	"	"	1	"	"	
Thiodan I	"	"	"	"	.2	"	"	
Thiodan II	"	"	"	"	.4	"	"	
Thiodan So_4	"	"	"	"	1	"	"	
Dieldrin	"	"	"	"	.1	"	"	
Endrin	"	"	"	"	.2	"	"	20
Endrin Aldehyde	"	"	"	"	1	"	"	
Heptachlor Epoxide	"	"	"	"	.1	"	"	
Methoxychlor	"	"	"	"	3	"	"	1000
Toxaphene	"	"	"	"	5	"	"	50
PCBS	"	"	"	"	2	"	"	

RECEIVED
R.I. DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
DEC 1 1982
DIVISION OF WATER RESOURCES

Chemical Results Expressed In Milligrams Per Liter Where Applicable

4 Oct 82 76580

TURBIDITY	SEDIMENT	ODOR	COLOR	SOLIDS TOTAL	SOLIDS LOSS ON IGN.	SOLIDS SUSP.	SOLIDS SETTL. ML/L	DISSOLVED OXYGEN	B. O. D. 5 DAY	CYANIDE	PHOSPHATE AS P	pH	RES CHL.
V. SL. SL. CONS. / DEC. GT.	V. SL. SL. CONS. / DEC. GT.	V. FT. FT. DIS. / DEC. STR. V. STR.											

FREE AMMONIA AS N	NITRITE AS N	NITRATE AS N	ALKALINITY	ACIDITY	CHLORIDE	FLUORIDE	HARDNESS	IRON	MANGANESE	SODIUM	POTASSIUM	CALCIUM	MAGNESIUM	SULFATE

ARSENIC	BARIUM	CADMIUM	CHROMIUM	COPPER	LEAD	MERCURY	NICKEL	SELENIUM	SILVER	ZINC	M. B. A. S.
010	0.06	<0.002	0.01	<0.02	<0.015	<0.001	0.03	0.015	0.016	0.24	

See Attached Sheet

ALDRIN	CHLORDANE	DDT	DIELDRIN	ENDRIN	HEPTACHLOR	HEPTACHLOR EPOXIDE	LINDANE	METHOXYCHLOR	TOXAPHENE	2, 4 D	2, 4, 5 TP SILVEX

MICROBIOLOGICAL	10 ML	1.0 ML	0.1 ML	0.01 ML				M. F.
COLIFORM BACTI.								
PRESUMPTIVE-24 HRS.								
PRESUMPTIVE-48 HRS.								
CONFIRMED								
FECAL								
COMPLETED								

RADIOACTIVITY p Ci/L	
GROSS ALPHA	
GROSS BETA	

RAYMOND G LUNDGREN JR PH D
ASSISTANT DIRECTOR OF HEALTH

12 1 82
DATE

See enclosed summary sheet for interpretation if numbers are indicated here. →

DATE COLLECTED	LAB NUMBER
4 Oct. 1982	76580

CITY OR TOWN: Cranston

OWNER: CIBA-GEIGY CORP.

SOURCE: Final effluent

REPORT TO:

Dr. James Crowley, Section Head

ZIP CODE

CIBA-GEIGY CORP.
IND. WASTE

DATE

1,2-dichloroethane	ND	10
1,2-dichloropropane	ND	10
1,3-dichloropropene (cis & trans)	ND	10
Chlorobenzene	150	10
Benzene	ND	100
Toluene	4100	100
Ethylbenzene	ND	100
Xylene	370	100

PT 11/23/82

ND - NOT DETECTED at concentrations above the Minimum Detection Limit (MDL).

MDL - MINIMUM DETECTION LIMIT; that is, the level below which the chemical cannot be detected with presently available instrumentation.

RHODE ISLAND DEPARTMENT OF HEALTH
Division of Laboratories

Trace Organics

WATER SAMPLE ANALYSIS REPORT

LOG. NO. 76580

RECEIVED
R.I. DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
DEC 1 1982
DIVISION OF WATER RESOURCES

Lab # = S-211-77

CHEMICAL	FINDING (Parts Per Billion)	MDL (Parts Per Billion)
Chloroform	ND	10
Bromodichloromethane	ND	10
Dibromochloromethane	ND	10
Bromoform	ND	10
1,1,1-trichloroethane	ND	10
Carbon Tetrachloride	ND	10
Trichloroethylene	ND	10
1,1,2-trichloroethane	ND	10
Tetrachloroethylene	ND	10
1,1,2,2-tetrachloroethane	ND	10
Dichloromethane	ND	10
1,1-dichloroethene	ND	10
1,2-dichloroethene	ND	10
1,1-dichloroethane	ND	10
1,2-dichloroethane	ND	10
1,2-dichloropropane	ND	10
1,3-dichloropropene (cis & trans)	ND	10
Chlorobenzene	150	10
Benzene	ND	100
Toluene	4100	100
Ethylbenzene	ND	100
Xylene	370	100

PT 11/23/82

ND - NOT DETECTED at concentrations above the Minimum Detection Limit (MDL).

MDL - MINIMUM DETECTION LIMIT; that is, the level below which the chemical cannot be detected with presently available instrumentation.

Sample 76580 Ciba Geigy Final Plant Effluent

Pesticides

Aldrin	if present	less	than	2	mcg/liter	
Alpha BHC	"	"	"	1	"	"
Beta BHC	"	"	"	1	"	"
Gamma BHC	"	"	"	1	"	"
Delta BHC	"	"	"	1	"	"
Chlordane	"	"	"	15	"	"
DDD	"	"	"	8	"	"
DDE	"	"	"	5	"	"
DDT	"	"	"	10	"	"
Thiodan I	"	"	"	50	"	"
Thiodan II	"	"	"	8	"	"
Thiodan So_4	"	"	"	10	"	"
Diedrin	"	"	"	150	"	"
Endrin	"	"	"	150	"	"
Endrin Aldehyde	"	"	"	15	"	"
Heptachlor Epoxide	"	"	"	2	"	"
Methoxychlor	"	"	"	5	"	"
Toxaphene	"	"	"	15	"	"
PCBS	"	"	"	50	"	"

RECEIVED
N.J. DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
DEC 1 1982
DIVISION OF WATER RESOURCES