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CH 25 REV 12 80

DUPONT

ESTABLISHED 1802

E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
NEWPORT, DELAWARE 19804

CHEMICALS AND PIGMENTS DEPARTMENT

April 13, 1981

Mr. Robert Zimmerman, Supervisor
Water Resources Section
Division of Environmental Control
State of Delaware
Box 1401
Dover, Delaware 19901

RE: NEWPORT PIGMENTS PLANT
NPDES PERMIT DE 00004000
STATE PERMIT WPCC 3106A/74

Dear Mr. Zimmerman:

Attached are the completed consolidated permit application forms 1 and 2C for the renewal of the Du Pont-Newport Plant's NPDES permit. Confirming our conversation with Mr. Rod Bartchy of your department, we will be separately forwarding to you sample results for Section V-A of Form 2C on our stormwater collection system (outfalls 002-008).

As we indicated in our discussion of March 10, 1981 and our letter of March 23, 1981, we are anticipating the opportunity to further discuss the eventual effluent limitations that may be associated with our noncontact cooling water and stormwater discharges.

Should you have any questions on the enclosed application, please contact me at 999-6245.

Peter E. Kress

PETER E. KRESS
ENVIRONMENTAL COORDINATOR

PEK:cac

Attachments

AR201989

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-R0175

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER: F D E T 0 0 0 6 2 1 3 8 3

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	X		X	D. Is this a proposed facility *(other than those described in A or B above)* which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X			F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP: NEWPORT PIGMENTS PLANT

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
2 KRESS PETER ENVIRON. COORDINATOR	302 999 6245

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX: 3 JAMES AND WATER STREETS

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 NEWPORT	DE	19804

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER: 5 JAMES AND WATER STREETS

B. COUNTY NAME: NEW CASTLE

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE *(if known)*
6 NEWPORT	DE	19804	

AR201990

EPA Form 3510-1 (6-80)

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

III. SIC CODES (4 digit, in order of priority)

	A. FIRST	B. SECOND
(specify)	2865 Organic Pigments	3679 Magnetic tape for recording

	C. THIRD	D. FOURTH
(specify)	2819 Chromium Dioxide	

VIII. OPERATOR INFORMATION

A. NAME

E I DU PONT DE NEMOURS AND COMPANY INC.

B. Is the name listed in Item VIII-A also the owner? [X] YES [ ] NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)

F = FEDERAL; S = STATE; P = PRIVATE; M = PUBLIC (other than federal or state); O = OTHER (specify)

P (specify)

D. PHONE (area code & no.)

A 302 774 1825

E. STREET OR P.O. BOX

TENTH & MARKET STREETS

F. CITY OR TOWN

WILMINGTON

G. STATE DE

H. ZIP CODE 19898

IX. INDIAN LAND

Is the facility located on Indian lands? [ ] YES [X] NO

X. EXISTING ENVIRONMENTAL PERMITS

	A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissions from Proposed Sources)	
	DE0000400		

	B. UIC (Underground Injection of Fluids)	E. OTHER (specify)	
		State Air Permits	See Attached

	C. RCRA (Hazardous Wastes)	E. OTHER (specify)	
		other Permits	See Attached

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property bounderies. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

The Plant manufactures organic pigments, chromium dioxide, and magnetic tape.

XIII. CERTIFICATION (see instructions)

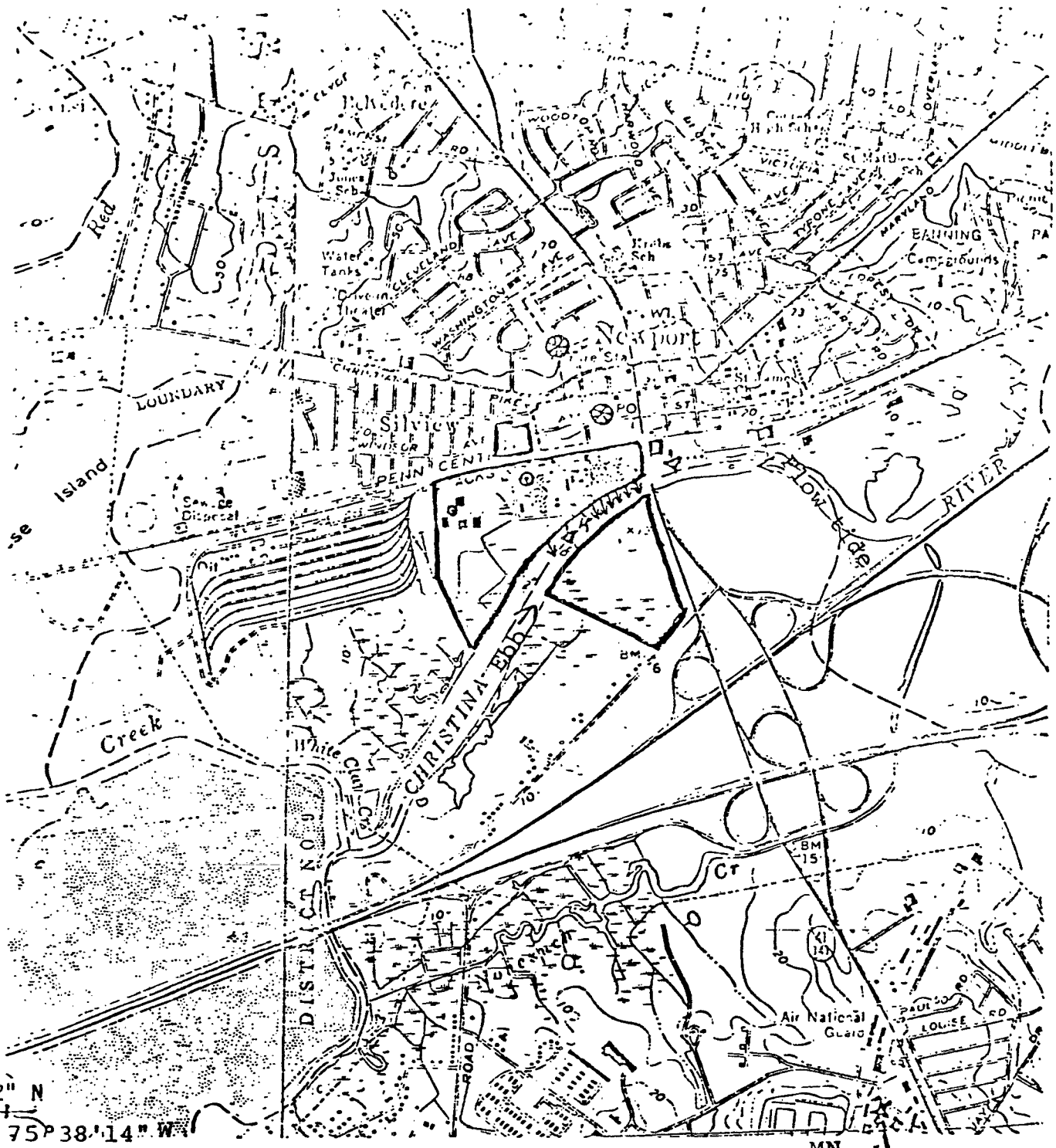
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Robert J. Blair, Vice President Chemicals and Pigments	Robert J Blair.	AR 2 04/88/81

COMMENTS FOR OFFICIAL USE ONLY

C

EPA I.D. NUMBER
DET 000 621 383



- Hazardous Waste Management Facility (Storage)
- 001 = NPDES Outfall Old No. 007
- Creek Water Intake
- Plant Production Water Wells
- Small Stream
- Town Drinking Water Wells
- Newport Plant Boundaries

↓ Storm Sewer

MN
GN
9°
0°22'
160 MILS
6 MILS

UTM Grid and 1967 Magnetic No
Declination at Center of Shee

Scale 1:24,000

1000 0 Feet

Location Map
Newport Pigments Plant
Newport, Newcastle
Delaware

State Drying Lagoon Permit

- SWA-80/19

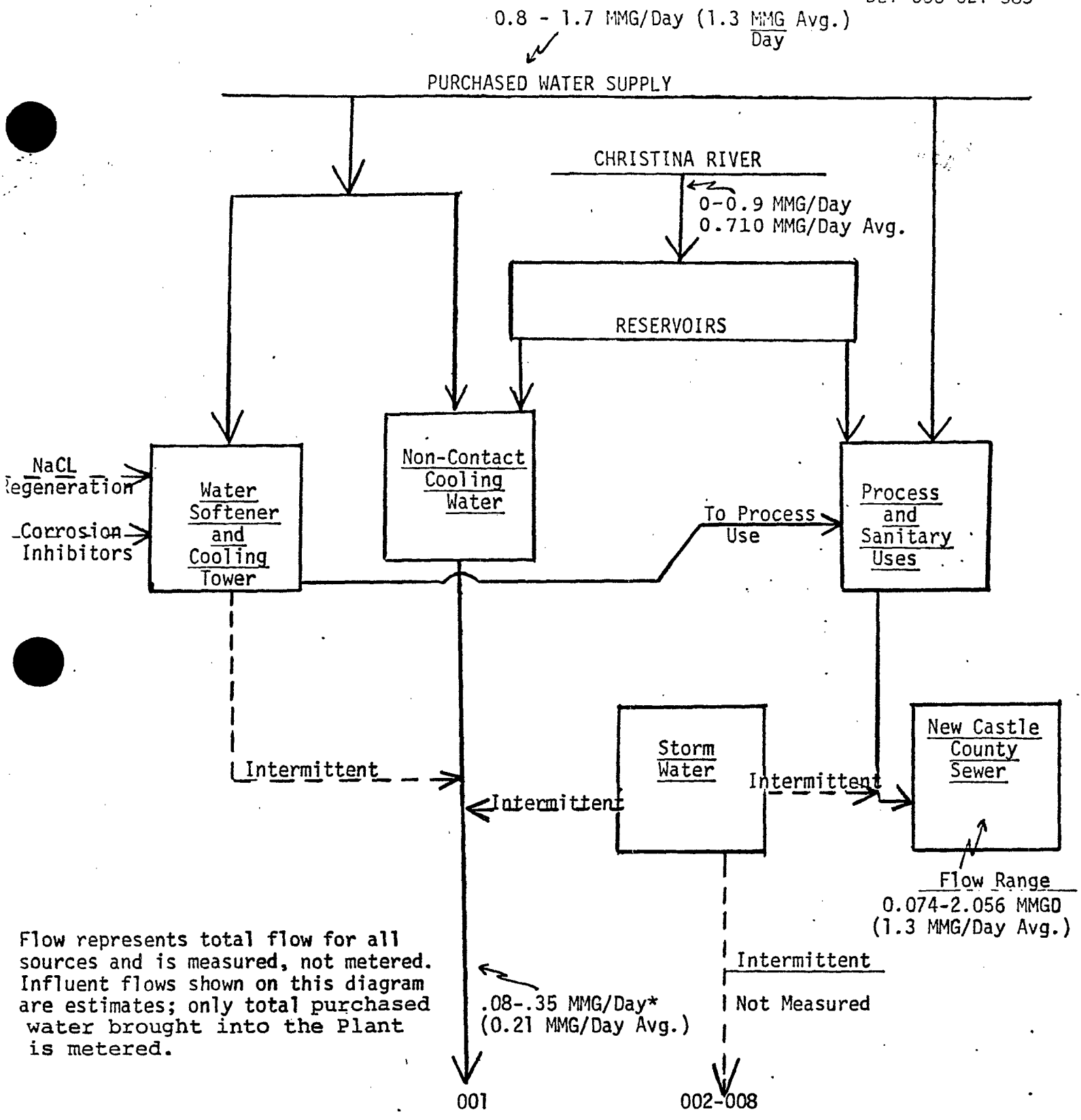
County Sewer Permit

- WDP-76-013

State Air Permits

APC 78/278	APC 79/513	APC 79/294
APC 78/582	APC 79/121	APC 79/297
APC 79/010	APC 79/289	APC 79/212
APC 79/008	APC 79/135	APC 80/740
APC 79/009	APC 79/011	APC 80/737
APC 79/1022	APC 78/277	APC 80/738
APC 79/524	APC 78/836	APC 80/008
APC 79/014	APC 79/217	APC 79/834
APC 79/134	APC 81/136	APC 79/835
APC 79/012	APC 80/002	APC 78/844
APC 79/013	APC 80/003	
APC 79/520	APC 81/064	
APC 79/522	APC 81/063	
APC 79/523	APC 79/298	
APC 79/521	APC 80/288	
APC 79/525	APC 78/834	
APC 79/505	APC 78/229	
APC 79/506	APC 78/835	
APC 79/507	APC 78/212	
APC 79/508	APC 79/966	
APC 79/509	APC 81/126	
APC 79/510	APC 79/39	
APC 79/511	APC 79/296	
APC 79/512	APC 79/295	

EPA I.D. NUMBER
DET 000 621 383



Schematic Water Flow
Newport Pigments Plant
Newport, New Castle, Delaware

AR201994

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: DET 000 621 383

Form Approved OMB No. [illegible]

OUT 001

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details

1. POLLUTANT	2. EFFLUENT (1) a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	d. NO. OF ANALYSES	3. UNITS *(specify if blank)* a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	2 mg/L	61#/day	Not	Available	5mg/L	15#/day	36	-	-			
b. Chemical Oxygen Demand *(COD)*	15mg/L	44#/day	Not	Available	Not	Available	8	-	-	See Attached		
c. Total Organic Carbon *(TOC)*	6mg/L	18#/day	Not	Available	Not	Available	8	-	-	Sheet		
d. Total Suspended Solids *(TSS)*	18mg/L	53#/day	Not	Available	7mg/L	20#/day	36	-	-			
e. Ammonia *(as N)*	0.11mg/L	0.32#/day	Not	Available	Not	Available	7	-	-			
f. Flow	VALUE 0.35 MMGD		VALUE Not Available		VALUE 0.21 MMGD		12	-	-	VALUE		
g. Temperature *(winter)*	VALUE 31°		VALUE Not Available		VALUE Not Applicable		62	°C		VALUE		
h. Temperature *(summer)*	VALUE 36°		VALUE Not Available		VALUE Not Applicable		63	°C		VALUE		
i. pH	MINIMUM 6.0	MAXIMUM 8.8	MINIMUM Not Available	MAXIMUM			184	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X							0					
b. Chlorine, Total Residual	X(2)								0			X(2)	N.AV.	0
c. Color		X							0					
d. Fecal Coliform		X							0					
e. Fluoride (16984 48-8)	X(2)								0			X(2)	N.AV.	0
f. Nitrate-Nitrite *(as N)*	X(2)								0			X(2)	N.AV.	0

(1) = BOD, COD, TOC, T.SS. and (Ammonia as N) are analysis of 24 hour composite samples.

(2) = Typically seen in treated purchased surface water which is one of our influent streams, as based on a conversation with local Water Company and would be expected in our effluent.

AR 20 1992

EPA Form 351[illegible]-80) PA[illegible] CO[illegible]E ON REVERSE

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK X a. BELIEVED PRESENT	2. MARK X b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
Nitrogen (Total organic as N)		X	(2) Typically seen in treated purchased surface water which is one of our influent streams, as based on a conversation with local Water Company and would be expected in our effluent.						0					
Oil and Grease		X							0					
Phosphorus (P), Total (7723-14-0)	X(2)								0			X(2)	N.AV.	0
Radioactivity														
(1) Alpha, Total		X							0					
(2) Beta, Total		X							0					
(3) Radium, Total		X							0					
(4) Radium 226, Total		X							0					
Sulfate (as SO4) (14808-79-8)	X(2)								0			X(2)	N.AV.	0
Sulfide (as S)		X							0					
Sulfite (as SO3) (14265-45-3)		X							0					
Surfactants		X							0					
Aluminum, Total (7429-90-5)	X		1.2mg/L	3.5#/day					8			1.8mg/l	N.AV.	4
Barium, Total (7440-39-3)		X							0					
Boron, Total (7440-42-8)		X							0					
Cobalt, Total (7440-48-4)		X							0					
Iron, Total (7439-89-6)	X		0.3mg/L	0.9#/day					3			0.9mg/L	N.AV.	1
Magnesium, Total (7439-95-4)	X		N.AV.						0			9.6mg/L	N.AV.	2
Molybdenum, Total (7439-98-7)		X							0					
Manganese, Total (7439-96-5)		X							0					
Tin, Total (7440-31-5)		X							0					
Titanium, Total (7440-32-6)		X							0					

AR 20-1996

EPA Form 3510-2C (6-80)

CONTINUE ON PAGE V-3

N.AV. = Not Available

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DET 000 621 383	001

CONTINUED FROM PAGE 3 OF FORM 2-C

Form Approved OMB No. 158-R0173

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanide, and total phenols. If you are not required to mark column 2-a *(secondary industries, non-process wastewater outfalls, and non-required GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe to be absent. If you mark either column 2-b or 2-c for any pollutant you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table *(all seven pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TEST IS REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)		X		<3ug/L	N/A					1			<4ug/L	N.AV.	2
2M. Arsenic, Total (7440-38-2)		X		<3ug/L	N/A					1			<4ug/L	"	2
3M Beryllium, Total, 7440-41-7)		X		<0.4ug/L	N/A					1		<0.4ug/L		"	2
4M. Cadmium, Total (7440-43-9)		X		4.6ug/L	0.013#/day					1		0.4ug/L		"	2
5M. Chromium, Total (7440-47-3)		X		(3) 440ug/L	1.284#/day					5			32ug/L	"	2
6M. Copper, Total (7550-50-8)		X		12ug/L	0.035#/day					1		1000ug/L		"	2
7M. Lead, Total (7439-97-6)		X		1.4ug/L	0.004#/day	(3)	Four of five analyses were below detection limit of 50 ug/L. Results:	440ug/L		1			74ug/L	"	2
8M. Mercury, Total (7439-97-6)		X		2.0ug/L	0.006#/day			<50ug/L		1		6.6ug/L		"	2
9M. Nickel, Total (7440-02-0)		X		300ug/L	0.88#/day			<50ug/1		1		360ug/L		"	2
10M. Selenium, Total (7782-49-2)		X		<2ug/L	N/A			<50ug/1		1			3ug/L	"	2
11M. Silver, Total (7440-22-4)		X		<0.1ug/L	N/A					1		0.2ug/L		"	2
12M. Thallium, Total (7440-28-0)		X		<2ug/L	N/A					1			2ug/L	"	2
13M Zinc, Total (7440-66-6)		X		2.5mg/L	7.3#/day					21		2.4mg/L		"	24
14M. Cyanide, Total (57-12-5)		X		1ug/L	0.003#/day					1			3ug/L	"	2
15M Phenols, Total		X		12ug/L	0.035#/day					1			9ug/L	"	2
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-p-dioxin (176			X	DESCRIBE RESULTS											

APR 2019 97

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)		X		N.D.						1			1ug/L	N.AV.	2
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)		X		0.1	0.0003#/day					1			1.0ug/L	N.AV.	2
6V. Carbon Tetrachloride (56-23-5)		X		N.Q.						1			N.Q.	N.AV.	2
7V. Chlorobenzene (108-90-7)			X												
8V. Chlorodibromomethane (124-48-1)			X												
9V. Chloroethane (75-00-3)			X												
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)		X		5.5ug/L	0.016#/day					2			100ug/L	N.AV.	3
12V. Dichlorobromomethane (75-27-4)		X		10ug/L	0.029#/day					2			40ug/L	N.AV.	3
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X												
15V. 1,2-Dichloroethane (107-06-2)			X												
16V. 1,1-Dichloroethylene (75-35-4)		X		N.AV.						0			N.Q.	N.AV.	1
17V. 1,2-Dichloropropane (78-87-5)			X												
18V. 1,2-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)		X		N.D.	–					1			1ug/L	N.AV.	2
20V. Methyl Bromide (74-83-9)			X												
21V. Methyl Chloride (74-87-3)			X												

AR201998

EPA Form 3510-2C (6-80)

CONTINUE ON PAGE V-5

N.D. – Not Detected N.Q. – A deflection was seen in our GC

1. Pollutant	2a. Testing Required	2b. Believed Present	2c. Believed Absent	3a. Maximum Daily Value (1) Concentration	3a. (2) Mass	3b. Maximum 30 Day Value (1) Concentration	3b. (2) Mass	3c. Long Term Avg. Value (1) Concentration	3c. (2) Mass	3d. No. of Analyses	4a. Units Concentration	4b. Units Mass	5a. Intake Long Term Avg. Value (1) Concentration	5a. (2) Mass	5b. No. of Analyses
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
[illegible]		X		N.D.	-					1			200ug/L	N.AV.	2
[illegible]			X												
[illegible] Tetrachloro-[illegible] (127-18-4)		X		100ug/L	0.292#/day					5			2.1ug/L	N/AV.	10
2?V. Toluene (108-88-3)			X												
[illegible] 1,2 Trans-Dichloroethylene (156-60-5)			X												
??V. 1,1,1 Trichloroethane (71-55-6)		X		N.D.	-					1			1ug/L	N.AV.	2
[illegible] 1,1,2 Trichloroethane (79-00-5)			X												
?V. Trichloroethylene (79-01-6)		X		1.4ug/L	0.004#/day					2			1.3ug/L	N.AV.	4
[illegible] Trichloro[illegible]		X		N.AV.						0			N.Q.	N.AV.	1
[illegible] Vinyl [illegible] (75-01-4)			X												
GC/MS FRACTION – ACID COMPOUNDS															
[illegible] Chlorophenol [illegible]			X												
[illegible] 2,4 Dichlorophenol (120-83-2)			X												
[illegible] 2,4 Dimethylphenol (105-67-9)			X												
4A. 4,6 Dinitro O Cresol (534-52-1)			X												
[illegible] 2,4 Dinitro[illegible] (51-28-5)			X												
[illegible] Nitrophenol [illegible]			X												
[illegible] Nitrophenol [illegible]			X												
[illegible] Chloro M [illegible]			X												
[illegible] Pentachlorophenol [illegible]			X												
[illegible]			X												
[illegible]			X												

N.D. - Not Detected

N.AV. - Not Available

N.Q. - A deflection was seen in our CG analysis but was not quantified.

AR201999

	MARK "X"			3. EFFLUENT						4. UNITS:		5. INTAKE (optional)		
				a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)				a. LONG TERM AVERAGE VALUE		
1. POLLUTANT AND CAS NUMBER (if available)	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1a. Acenaphthene (83-32-9)			X												
2a. Acenaphthylene (208-96-8)			X												
3a. Anthracene (120-12-7)			X												
4a. Benzidine (92-87-5)			X												
5a. Benzo (a) Anthracene (56-55-3)			X												
6a. Benzo (a) Pyrene (50-32-8)			X												
7a. 3,4 Benzo-fluoranthene (205-99-2)			X												
8a. Benzo (ghi) Perylene (191-24-2)			X												
9a. Benzo (k) Fluoranthene (207-08-9)			X												
10a. Bis (2 Chloro-ethoxy) Methane (111-91-1)			X												
11a. Bis (2 Chloro-ethyl) Ether (111-44-4)			X												
12a. Bis (2 Chloro-isopropyl) Ether (39638-32-9)			X												
13a. Bis (2 Ethyl-hexyl) Phthalate (117-81-7)		X		1ug/L	0.0029#/day					1			22ug/L	N.AV.	2
14a. 4-Bromo phenyl Phenyl Ether (101-55-3)			X												
15a. Butyl Benzyl Phthalate (85-68-7)			X												
16a. 2 Chloro-naphthalene (91-58-7)			X												
17a. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X												
18a. Chrysene (218-01-9)			X												
19a. Dibenzo (a,h) Anthracene (53-70-3)			X												
20a. 1,2 Dichloro-benzene (95-50-1)		X		8ug/L	0.023#/day					1			N.D.		2
21a. 1,3-Dichloro-benzene (541-73-1)			X												

AR202000

CONTINUED FROM PAGE V-6

EPA I.D. NUMBER (copy from Item 1 of Form 1): DET 000 621 383

OUTFALL NUMBER: 001

Form Approved OMB No. 158-R0173

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X": a. TESTING REQUIRED	2. MARK "X": b. BELIEVED PRESENT	2. MARK "X": c. BELIEVED ABSENT	3. EFFLUENT: a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT: a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT: b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT: b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT: c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT: c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT: d. NO. OF ANALYSES	4. UNITS: a. CONCENTRATION	4. UNITS: b. MASS	5. INTAKE (optional): a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional): a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional): b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)		X		1ug/L	.003#/day					1			N.D.		2
23B. 3,3'-Dichlorobenzidine (91-94-1)			X												
24B. Diethyl Phthalate (84-66-2)			X												
25B. Dimethyl Phthalate (131-11-3)			X												
26B. Di-N-Butyl Phthalate (84-74-2)		X		N.D.						1			1ug/L	N.AV.	2
27B. 2,4-Dinitrotoluene (121-14-2)		X		(4) 77ug/L	0.225#/day					3			N.D.		2
28B. 2,6-Dinitrotoluene (606-20-2)		X		16ug/L	0.047#/day					1			N.D.		2
29B. Di-N-Octyl Phthalate (117-84-0)			X												
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X												
31B. Fluoranthene (206-44-0)			X												
32B. Fluorene (86-73-7)			X												
33B. Hexachlorobenzene (118-74-1)			X												
34B. Hexachlorobutadiene (87-68-3)			X												
35B. Hexachlorocyclopentadiene (77-47-4)			X												
36B. Hexachloroethane (67-72-1)			X												
37B. Indeno(1,2,3-cd)Pyrene (193-39-5)			X												
38B. Isophorone (78-59-1)			X												
39B. Naphthalene (91-20-3)			X												
40B. Nitrobenzene (98-95-3)			X												
41B. N-Nitrosodimethylamine (62-75-9)			X												
[illegible]			X												

(4) Three Sample Results: 77 ug/L
<5 ug/L - below detection limit
<5 ug/L - below detection limit

AR202001

ORIGINAL (Red)

CONTINUE ON REVERSE

			X
			X
			X
			X

GC/MS FRACTION – PESTICIDES

			X
2P. α-BHC (319-84-6)			X
3P. β-BHC (319-85-7)			X
4P. γ-BHC (58-89-9)			X
5P. δ-BHC (319-86-8)			X
6P. Chlordane (57-74-9)			X
7P. 4,4'-DDT (50-29-3)			X
8P. 4,4'-DDE (72-55-9)			X
9P. 4,4'-DDD (72-54-8)			X
10P. Dieldrin (60-57-1)			X
11P. α-Endosulfan (115-29-7)			X
12P. β-Endosulfan (115-29-7)			X
13P. Endosulfan Sulfate (1031-07-8)			X
14P. Endrin (72-20-8)			X
15P. Endrin Aldehyde (7421-93-4)			X
16P. Heptachlor (76-44-8)			X

EPA I.D. NUMBER (copy from Item 1 of Fo: DET 000 621 383 | OUTFALL NUMBER 001

CONTINUED FROM PAGE V-8

Form Approved OMB No. 158-R0173

1. [illegible]	2. MARK X			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TEST[illegible]	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
[illegible] — PESTICIDES (continued)															
[illegible]			X												
[illegible]			X												
[illegible]			X												
[illegible]			X												
[illegible]			X												
[illegible]			X												
[illegible]			X												
[illegible]			X												
[illegible]			X												

EPA Form 3510-2C (6-80)

EPA I.D. NUMBER
DET 000 621 383

SECTION V - PART A - #4(INTAKE)

		INTAKE WATER			
		Purchased Water	No. of Analyses	Treated Creek Water	No. of Analyses
(a)	BOD_5	7 mg/L	1	10 mg/L	1
(b)	COD	11 mg/l	1	8 mg/L	1
(c)	TOC	20 mg/L max.	1	16 mg/L	1
(d)	TSS	63.4 mg/L	13	29.2 mg/L	12
(e)	NH_3	0.17 mg/L	1	0.50 mg/L	1
(f)	Flow	0-0.35 MMGD	-	0-0.35 MMGD	-
(g)	Temp. Winter	Not Measured	-	Not Measured	-
(h)	Temp. Summer	Not Measured	-	Not Measured	-

Note: Individual intake flows are not metered or measured and mass cannot be calculated.

SECTION V - B & C

NOTE

The analytical methods used were intended for screening effluents for the presence of various compounds rather than a precise determination of concentrations. Consequently, the values indicated ≤100 PPB may not be entirely accurate or reliable. Our experience in measuring specific organics at the PPB levels indicates that an organic measured less than 100 PPB may or may not be present in the sample. This uncertainty is due to the high potential for false positive results inherent in analytical determinations at these levels.

NPDES PERMIT RENEWAL

COMMENTS & REASONING USED

BY P.E. KRESS FOR 4/13/81

SUBMITTAL TO DNREC

4/9/81

Mike Barszcz

NPDES - RENEWAL
NEWPORT PIGMENTS PLANT
APRIL 1981
PERMIT # DE 0000 4000
STATE PERMIT WPCC 3106 A/74

Attached are comments and reasoning used on our most recent NPDES renewal application.

Pete Tsai

Form 1 - Page 2

302-774-1825 This is Sherie Wolf's number. She is the secretary for the C+P Department's Environmental & Regulatory Affairs Group 6TH Floor Brandywine Bldg.

Form 1 - Page 2 No known RCRA permit yet but we have an EPA ID number. We asked Pete Brown about this and he said to leave it blank.

D-20164

- We listed 7 storm sewers as point sources. These are pipes that take plant runoff from rain, snow and ice on roads, natural areas and roads on the plant and send their water to the river by gravity flow through pipes. This was reviewed with Steve Tasker and Carl Everett - Legal and they felt they were point sources.

- There is a trench on the western boundary of the plant property that carries rainwater to the river from natural areas outside the plant boundaries and some plant water. It is not a pipe but a natural trench. Because it is not a constructed conveyance and carries waters (rain) other than plant rain water, it was not counted as a point source. Legal could not say this was a point source.

- There is a culvert that carries water from the town of Newport and some plant rainwater to the river. It is not a county pipe but is not known as a plant pipe. It was not counted since it carries other rainwater than its origin in the town of Newport. Legal could not say this was a point source and did not disagree with us leaving it off the permit as a point source. Legal made the same comment for the above mentioned trench.

Form 2-C
Page 2 of 4 Section III - A

We do not have an effluent guideline promulgated by EPA under Section 304 of the Clean Water Act that applies to our facility. We checked this with Hugh Campbell, our Louviers Water Consultant

Form 2-C
Page 3 of 4

In section V-C, we use antimony and Chromium that are in compounds that can easily dissociate as we know. We use copper compounds and tetrachloroethylene in CPC pigment manufacture as well as 1, 2 Dichlorobenzene known on the plant as ODCB and we use toluene and tetrachloroethylene known as perclen on the plant in our QA pigment manufacturing operation

ORIGINAL (Red)

Page 2 of 4 - Section IV Improvements

The plant has a zinc monitoring program that the plant designed and is running for the state of Delaware. It is not considered compliance or part of construction program. The context of this question on improvements deals more with compliance and not monitoring programs, for this reason our zinc monitoring program was not included. This was reviewed with Carl Everell - Dept and he did not see a problem with our reasoning on this.

Section V-C Statement

This was lifted with the exclusion of the first sentence from a memo from Carl Everett. It was used as a standard for explaining possible future variance

Intake & Effluent Characteristics

- The mean values used in this section and others was determined from the maximum flows the plant has experienced over the last four years.

- One COD value was not used in our application since it 45mg/L was not consistent with other sample results including a split sample sent to another laboratory (contract)

- Two Ammonia Nitrogen values were not used in our application since they were inconsistent with our sample results including splits for both days to another laboratory (contract) 0.94mg/L and 0.62mg/L

- In a conversation with Bill Zimmerman of Wilmington Suburban Water Company. He told me that it was common to see total residual Chlorine, fluoride, nitrate as N, sulfate or SO4, total aluminum and some phosphorus (small amounts). In a conversation with John Pawinski, of Artesian Water Company, he felt that it would not be uncommon to see these compounds or elements in treated surface purchased water (potable water).

In section V-A-B-C Influent streams

Due to the fact that we had insufficient data to characterize our influent streams, both grab and 24 hr analysis were used. In some cases, there was no choice such as with the volatiles where both of all grabs were a necessity. Most all B & C were 24 hour composites with the exception of VOC and a few others.

Flows on V-A Intake water

The water volumes used in the V-A intake water were those which represented only the intake water which could eventually reach our 001 outfall.

Section V B & C

If a compound was seen in analyses whether quantified or unquantified in the effluent or influent, it was listed as believed present

NPDES - 001 Diagram

- Our diagram was reviewed with Hugh Campbell of Louvers and was made in a similar fashion to the example shown by EPA in the 2C instruction booklet.

- The flows coming into our plant from the Christina were estimated by the use of pump capacities and hours of use by Doug Watson and others who were involved recently in a Delaware River Basin Commission water study for the Newport Pigments Plant

LG-4679 REV. 10-63

E. I. DU PONT DE NEMOURS & COMPANY

WILMINGTON, DELAWARE 19898

LEGAL DEPARTMENT

cc: P. F. Brown - C&P

April 23, 1981

P. E. KRESS
CHEMICALS & PIGMENTS DEPT.
NEWPORT PLANT

In response to your inquiries concerning the NPDES permit for Newport, this will confirm my oral advice that the seven pipelines leading into the Christina River carrying stormwater runoff from roofs, parking lots, natural areas, the internal road network, etc. are point sources pursuant to §122.57 of the NPDES regulations and should be so listed.

While the facts surrounding the stormwater runoff which empties into a tributary of the Christina by route of ditches and swales does not constitute a direct discharge into the river, it may be prudent to list same as a point source on the application in order to avoid problems with the Agency on the application.

With respect to the drainage pipe which you have indicated is owned by either the City or the County into which we place stormwater runoff, I recommend ascertaining which entity has jurisdiction. It is highly likely that they hold an NPDES permit for the discharge into the river, in which case, no listing as a point source on our application should be done.

In regard to use of separate analyses for the seven [redacted] if they are substantially identical, we may [redacted] permission to sample and analyze only one outfall [redacted] the results of the analyses for other substa[redacted]identical outfalls.

[redacted] response to your inquiry as to whether we may use intake results performed by other agencies, groups, etc., the response is affirmative, with the corresponding responsibility that we complete Part VIII of the application.

AR202017

NPDES - SAMPLING

RESULTS mg/L
EFFLUENT

	TOC	COD	AMMONIA AS NITROGEN	ALUMINUM	PERC	2,4 DNT	LAB	TYPE OF SAMPLE	T. CHROME
[illegible]/81	16.7	—		<0.2, <0.2, 0.3	—	—	BRANDT	?	<0.05, <0.05, <0.05
3/12/81	< 1	< 1	0.44 ★	0.2	—	—	BRANDT	24 COMP	
3/[illegible]/81	6 BRANDT TOC MACHINE DOWN	10	<0.11	0.6	—	—	RICHARDSON	24 COMP	
3/13/81		45 ★	0.62 ★	0.3	—	—	BRANDT	24 COMP	
3/13/81	5	10	<0.11	0.2	—	—	RICHARDSON	24 COMP	
3/17/81	5	11	<0.11	0.2	—	—	RICHARDSON	24 COMP	<0.05
3/18/81	5	13	<0.11	1.2	—	—	RICHARDSON	24 COMP	<0.05
3/19/81	3	6	<0.11	0.2	—	—	RICHARDSON	24 COMP	<0.05
3/20/81	5	12	<0.11	0.4	—	—	RICHARDSON	24 COMP	<0.05
3/24/81	4	15	<0.11	—	—	—	RICHARDSON	24 COMP	—

★ Suspect error in analysis due to consistently lower numbers for other days & to split with Richardson

10/78	—	—	—	POSSIBLY NOT DETECTED	0.1	0.077	ACCUTEST	GRAB	—
3/[illegible]/81	—	—	—	—	0.0247	—	ARTESIAN	GRAB	—
3/18/81	—	—	—	— NEAR SPLIT	0.081	—	JACKSON LAB	GRAB	—
3/18/81	—	—	—	—	0.092	—	JACKSON LAB	GRAB	—
3/19/81	—	—	—	—	0.057	—	JACKSON LAB	GRAB	—
3/17/81	—	—	—	—	—	N.D*	JACKSON LAB	24 HR COMP	—
3/18/81	—	—	—	—	—	N.D*	JACKSON LAB	24 HR COMP	—
AVG.					0.0709				

AR202018

* APPROXIMATE LIMIT OF DETECTION BY GC MS = 5 PPB

NPDES - SAMPLING
INFLUENT + EFFLUENT
RESULTS IN UG/L - TETRACHLOROETHYLENE (GRAB-SAMPL...

...TE	PURCHASED	CREEK SETTLED	CREEK	NPDES	LAB
10-78	N.D.	—	2	100	ACCU...
3-18-81	0.1	0.8	—	24.7	ARTESI...
3-18-81	N.D	6	—	81	JACKSO...
3-18-81	8	2	—	92	JACKSO...
3-19-81	N.D	2	—	57	JACKSO...
				↑ 70.9 avg.	

0
0.1
0
8
0
0.8
6 ... / 18.9/9 = 2.1

NPDES SAMPLING
INFLUENT + EFFLUENT
RESULTS IN UG/L
CHLOROFORM (GRAB-SAMPLE)

DATE	PURCHASED	CREEK SETTLED	CREEK	NPDES	LAB
10-78	100	—	2	50	ACCURA...
3-18-81	29.9	0.15	—	5.5	ARTESIA...

AR202019

NPDES SAMPLING

COD - RESULTS IN mg/L

GRAB SAMPLES

DATE	PURCHASED	CREEK-SETTLED	NPDES	LAB
3-11-81	11	8	23	BRANDT

TOC - RESULTS IN mg/L

DATE	PURCHASED	CREEK SETTLED	NPDES	LAB
3-11-81	20	16	41	BRANDT

ALUMINUM RESULTS IN mg/L

DATE	PURCHASED	CREEK SETTLED	NPDES	LAB
3-11-81	0.4	0.7	0.8	BRANDT

WV

PURCHASED WATER

GRAB SAMPLES - mg/L
NEWPORT - SAMPLING.

DATE	LOCATION	COD	TOC	CHROME	LAB
6-15-79	A-303	12.2	—		ARTESIAN
4-25-80	CARPENTER SHOP	< 1	—		BRANDT
5-18-79	A-100	10.5	—		ARTESIAN
5-14-79	A-202	11.8	—		ARTESIAN
3-16-81	A-202	—	< 1		BRANDT
3-11-81	POWERHOUSE	11	20		BRANDT

Not Meant for Sampling — use as a guide

WILMINGTON SUBURBAN

- SAMPLING BY : CM. SUB.
- ANALYSIS BY CRIPPEN LABS
- DATE : -20-81

TOC = 10 mg/L
AL = 0.7 mg/L
ZN = < 0.100 mg/L
TOTAL TRIHALOMETHANES = 43 PPB STATE LIMIT 100 PPB

→ INCLUDES CHLOROFORM, BROMOFORM ETC.

CREEK - CHRISTINA RIVER

- DATES 1967 - 1974
- SAMPLED BY STATE
- ANALYSIS RUN AMMONIA AS NITROGEN
  - 2.7 mg/L AMBIENT
  - 1.0 - 5.5 mg/L WET-WEATHER

ZINC SAMPLING
NPDES

	1978	1979	1980	19
Jan	1.16	1.7	—	0.5
Feb	—	1.5	—	0.79
March	—	—	—	—
April	0.95	2.5	.66	—
May	—	1.6	—	—
June	0.98	—	—	—
July	0.54	0.87	—	—
Aug	1.32	—	0.35	—
Sept	—	1.11	—	.83
Oct	0.67	0.46	—	—
Nov.	1.14	—	—	—
Dec	2.5	—	1.6 0.9	—
Yearly Avg.	1.157	1.391	0.877	0.74

Average 1979 + 1980 + 1981 = 1.1208 $\frac{14.57}{13}$ = 1.120

Total Average Jan 78 to March 81 = $\frac{23.83}{21}$ = 1.1348

Zinc #/DAY

$$(1.13\ mg/L\ AVG)\left(8.34\ \frac{\#}{gallon}\right)(0.191\ MGD) = 1.8\ \frac{\#}{day}$$

Total Chromium Sampling - NPDES

440 PPB - Accuracy

50 PPB Eichondsen

50 PPB Eichondsen " "

50 PPB Eichondsen " "

50 PPB Eichondsen " "

Arsenic #/DAY

		Arsenic
OCT 78	flow - 0.076	0.44
March	81 = 0.275	< 0.05
March	81 = 0.275	< 0.05
April	81 = 0.275	< 0.05
May	81 = 0.275	< 0.05
	1.171 =	0.235 mmg/DAY AVG

$$(0.128)(8.34)(0.235) = 0.25 \frac{\#}{DAY}$$

Influent Chart

	Purchased Creek	
[illegible] Biochemical Oxygen	< 0.02 mg/L	0.5 mg/L <

Jochem Labs

Perchloroethene

1 =	non detected	PURCH.
2 =	0.006 PPM	CREEK S
3 =	0.081 PPM	NPDES
4 =	0.008 PPM	PURCH.
5 =	0.002 PPM	CREEK S.
6 =	0.092 PPM	NPDES
7 =	non detected	PURCH
8 =	0.002	CREEK S
9 =	0.057 PPM	~~PURCH~~ NPDES

Perchlorate – Influent

$\frac{8.1}{5 \text{ samples}}$ = 1.62 PPB in Purchased water AVERAGE

$\frac{10.8}{5}$ = 2.16 PPB in Creek Settled AVERAGE

$\frac{354.7}{5}$ = 70.94 PPB in NPDES AVERAGE

Slaws NPDES

	1978	1979	1980	1981	
Jan	.054	.08	.12	.26	.[illegible]
Feb	.08	.35	.19	.24	.275
Mar	.21	.08	.16	0.25	.275
Apr	.08	.35	.16		
May	.08	.15	.19		
June	.21	.08	.19		
July	.35	.05	.16		
Aug	.05	.08	.26		
Sept	.09	.22	.19		
Oct	.076	.35	.26		
Nov	.28	.15	.35		
Dec	.35	.35	.26		

Average 79+80+81 = $\frac{5.53}{27}$ = 0.205 MMGD

Average 78+79+80+81 = $\frac{7.440}{39}$ = 0.191 MMGD

1980

	Temp			PH		
	High temp	Number of Readings		Low PH	High PH	Number
WINTER ↑ Dec	82°F	21		7.0	8.8	21
Jan	75°F	18		6.0	8.0	19
Feb	87°F	15	31°C	6.6	8.0	15
March	77°F	18		6.8	7.9	18
April	81°F	12		6.5	7.8	13
May	97°F	15		7.0	8.4	15
June	85°F	16		7.1	8.6	17
SUMMER ↓ July	97°F	16	36°C	7.8	8.4	16
Aug	93°F	16		7.3	8.1	15
Sept	82°F	18		6.7	8.3	18
Oct	68°F	8		6.8	7.8	8
Nov	72°F	8		7.1	8.0	
WINTER Dec						

1981

	Temp.		PH		
	High temp	Number of Readings	Low PH	High PH	Number
Jan	63°F	8	6.8	7.6	8
Feb	62°F	4	6.8	7.6	4
March	50°F	4	7.0	7.3	4

001 — NPDES [illegible]

Mass Calculation — Effluent

[illegible] = ([illegible] 21 PPM) [illegible] = 61.3 #/DAY

C.O.D = ([illegible] 15 PPM) (8.34) = 43.78 #/DAY

[illegible] = [illegible] (6 PPM) (8.34) = 17.5 #/DAY

[illegible] N = [illegible] (<0.11 PPM) (8.34) = [illegible] #/DAY

TYPICAL FLOW DURING THIS SAMPLING PERIOD

Aluminum = (0.35 [illegible]) (8.34) = [illegible] #/DAY

AVERAGE FLOW

[illegible] = (0.35) (.128) (8.34) = 0.374 #/DAY

[illegible] = (0.35 mg/D) (1.13) (8.34) = 3.298 #/DAY

AVERAGE-FLOW

Typical effluent flow for Acute samples 0.35 [illegible]/DAY

T.S.S = (0.35 mg/D) (18 PPM) (8.34 #/gallon) = 52.54 #/DAY

[illegible]

1980

3:6 - 12 = 354 + [illegible]

463 days total

607,328,600 gallons = 1,[illegible]
463 days

Average flow to the [illegible]
between Sept. 13, 1979 and Dec. 19, [illegible]
was 1.290 MMG/DAY

723,000/DAY AVG

LOW 664,000/DAY
HIGH 764,000

~~77~~

723,000 gallons/day AVG
0 → 764,000 gallons/DAY [illegible]

• [illegible] [illegible] [illegible] [illegible]
[illegible] R[illegible]

AR202033

$\underline{Q_{50}} = ($ .33 mmos/3A . . . ." / ! /

AR202034

CO 1 - NPDES

= lbs / MG

Aluminum (1.2 mg/L) (8.34 lbs/gal) (0.35 MG) = 3.5 #/...
Iron (0.3 mg/L) (8.34) (0.35) = 0.876
Thallium (0.003 mg/L) (8.34) (0.35) = 0.0087
Arsenic (0.003 mg/L) (8.34) (0.35) = 0.0087
Beryllium (0.0004 mg/L) (8.34) (0.35) = 0.0012
Cadmium (0.0046 mg/L) (8.34) (0.35) = 0.013
Chromium (0.44 mg/L) (8.34) (0.35) = 1.284
Copper (.012 mg/L) (8.34) (0.35) = 0.035
Lead (.0014 mg/L) (8.34) (0.35) = 0.004
Mercury (.002 mg/L) (8.34) (0.35) = 0.0058
Nickel (0.3 mg/L) (8.34) (0.35) = 0.876
Selenium (0.002 mg/L) (8.34) (0.35) = 0.0058
Silver (0.0001 mg/L) (8.34) (0.35) = 0.00029
Thallium (0.002 mg/L) (8.34) (0.35) = 0.0058
Zinc (2.5 mg/L) (8.34) (0.35) = 7.3
Cyanide (0.001 mg/L) (8.34) (0.35) = 0.0029
Phenols (0.012 mg/L) (8.34) (0.35) = 0.0350
Bromoform (0.0001 mg/L) (8.34) (0.35) = 0.00029
Chloroform (0.0055 mg/L) (8.34) (0.35) = 0.0160
Dichlorobromomethane (0.010 mg/L) (8.34) (0.35) = 0.0292
Tetrachloroethylene (0.1 mg/L) (8.34) (0.35) = 0.2919
trichloroethylene (0.0014 mg/L) (8.34) (0.35) = 0.0041
Phenol (0.012 mg/L) (8.34) (0.35) = 0.035
Bis (2-Ethylhexyl) Phthalate (0.001 mg/L) (8.34) (0.35) = 0.0029
1,2 Dichlorobenzene (0.008 mg/L) (8.34) (0.35) = 0.0233
1,4-Dichlorobenzene (0.001 mg/L) (8.34) (0.35) = 0.0029
2,4-Dinitrotoluene (0.077 mg/L) (8.34) (0.35) = 0.2247
2,6-Dinitrotoluene (0.016 mg/L) (8.34) (0.35) = 0.0467

AR202035

87°F = 31 °C

97°F = 36 °C

$\frac{5}{9} \times (87-32) =$

$\frac{5}{9} \times (55) = 30.55°C$

$\frac{5}{9} \times (97-32) =$

$.5555(65) = 36°C$

Influent

In conversation with Bill Zimmerman Wilmington Suburban Water Company on 4-7-81 He told me that his product water would have the following in it.

- Chloride - total residual
- Fluoride
- Nitrate (as N) due to ammonia in his intake water oxidizing ammonia to nitrate 1-3 PPM
- Sulfate 20-40 mg/L range due to Alum treatment
- Small amount of Phosphorous - from intake
- Aluminum due to Alum treatment
- TOC ~ 10 mg/L
- Trihalomethanes ~ 44 PPB

Peter

TABLE II

3/18/87

(a) BOD_5

N=36

DAILY MAX = 21 mg/l > (21)(8.34)(.22) = 38.5 Lbs/DAY

FLOW = .22 MMGD

LTA = 5 mg/l > (5)(8.34)(0.20) = 8.3 Lbs/DAY

FLOW = 0.20 MMGD

(b) COD 3/12 BARNOT - <1 mg/l RICH. = 10 mg/l

3/13 BARNOT - 45 mg/l RICH. = 10 mg/l

FLOW = 0.25 MMGD

(10 - 45)(0.25)(8.34) = 21 → 94

(c) TOC

	BARNOT	RICH.
3/12	< 1 mg/l	6
3/13	—	5

FLOW = 0.25 MMGD

(1 - 6)(0.25)(8.34) = 2 → 13

AR202038

(d) TSS

N=18 DAILY MAX = 18 mg/l > (18)(0.21)(8.34) = 31.5 Lbs/DAY

FLOW = 0.21 MMGD

LTA = 7 mg/l; FLOW = 0.20 MMGD > (7)(0.2)(8.34) = 11.7

(e) NH_3

	Ballston	Rich-
3/12	0.94 mg/l	0.11 mg/l
3/13	0.62 mg/l	0.11 mg/l

Flow = 0.25 MMGD

$(0.11 - 0.94)(0.25)(8.34) = 0.23 \rightarrow 1.96$

(f) Flow — MGD

	1978	1979	1980	1981
J	0.054	0.08	0.12	0.26
F	0.08	0.35	0.19	
M	0.21	0.08	0.16	
A	0.08	0.35		
M	0.08	0.15	0.16	
J	0.21	0.08	0.19	
J	0.35	0.05		
A	0.05	0.08	0.19	
S	0.08	0.22	0.16	
O	0.076	0.35	0.26	
N	0.28	0.15	0.19	
D	0.35	0.35	0.26	
			0.35	
			0.26	

(g) Temperature

	1979	1980	1981
J	72	82	63
F	62	75	57
M	67	87	
A	67	77	
M	93	81	
J	92	97	
J	93	85	
A	87	97	
S	82	93	
O	85	82	
N	83	68	
D	84	72	

(5)

(h) pH

1979	1980	1981
7.2-8.1	7.0-8.8	6.8-7.6
7.1-8.0	6.0-8.0	7.2-7.6
6.9-8.3	6.6-8.0	
7.0-7.9	6.8-7.9	
7.2-7.9	6.5-7.8	
6.8-7.7	7.0-8.4	
7.2-7.7	7.1-8.6	
6.9-8.6	7.8-8.4	
7.8-8.4	7.3-8.1	
6.3-8.7	6.7-8.3	
7.2-8.6	6.8-7.8	
6.9-8.5	7.1-8.0	

METHANE DATA

WILM. SUBURBAN

(SEE NEXT PAGE)

4. Intake

(From Part II Table V-A-4)

		Wilm. Suburban	Tatd River Water *	No. of Analyses
a	BOD_5	7 mg/l	10 mg/l	1
b	COD	12.2 mg/L MAX, 9.3 mg/L AVG.	8 mg/l	6
c	TOC	20 mg/L MAX, 10.5 mg/L AVG	16 mg/l	3
d	TSS **	14 mg/l	11 mg/l	10
e	NH_3	0.17 mg/l - Okgrab	0.50 mg/l Okgrab	1
f	Flow ***	0 - 0.35 MGD	0 - 0.35 MGD	—
g	Temp. Winter	Not Measured	Not Measured	—
h	Temp: Summer	Not Measured	Not Measured	—

*** Note: Flow Not Measured On These Two Sources, Values Given Are Possible Ranges Of Flows From These Two Sources On Any Given Day.

* Note: State Records Should Be Available For The Parameters Of BOD_5 And TSS On Untreated River Water

AR202041

** Note: Reported Averages Are Following Individual TSS Data

W.S.

3.1, <0.5, 2.3, 3.0, 2.9, 61.7, 6.6, <0.5, 0.7, 63 (3-11 <0.5 TSS)

Creek

5.4, 0.7, 1.4, 3.5, 29.2, 11.8, 13.0, 25.2, 8.6,

Boron [illegible] = (0.128)(8.34 #/gal)(0.35 mgd) =

[illegible] = (0.07 [illegible])(8.34 #/gal)([illegible]

AR202042

Purchased Water Data

Range in Daily Usage

[illegible] 26, 1979	1.595, 1.564, 1.526, 1.683
[illegible] 27, 1979	1.206, 1.436, 1.457, 1.381
[illegible] 1980	1.436, 1.457, 1.381, 1.554
[illegible]	1.457, 1.381, 1.554, 1.594
[illegible] 27, 1980	1.554, 1.594, 1.534, 1.320
[illegible] 1980	1.594, 1.534, 1.320, 1.202
[illegible] 23, 1980	1.534, 1.320, 1.202, 1.087
June 26, 1980	1.320, 1.202, 1.087, 1.070
July 28, 1980	1.202, 1.087, 1.070, 0.846
August 27, 1980	1.087, 1.070, 0.846, 0.929
Sept 26, 1980	1.070, 0.846, 0.929, 1.062
Oct 27, 1980	0.846, 0.929, 1.062, 1.133
[illegible] 26, 1980	0.929, 1.062, 1.133, 1.163
Jan. 27, 1981	1.133, 1.163, 1.452, 1.447
Feb. 25, 1981	1.163, 1.452, 1.447, 1.471

1.269
60) 76.165

[redacted] 1.269 mmg AVG / DAY

Flows of Purchased Water into the System:

- Range 0.846 mmg/D → 1.683 mmg/D
- AVERAGE 1.269 mmg/D

E. I. DU PONT DE NEMOURS & COMPANY
CHEMICALS, DYES AND PIGMENTS DEPARTMENT
NEWPORT, DELAWARE

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A. M. Bulloch
W. L. Spillan

April 26, 1979

PURCHASED WATER CONSUMPTION
(averaged M Gal./Day)

Plant Total	Avg./Day 1,430		12/22 - 1/22 1,595	1/23 - 2/21 1,564	2/22 - 3/22 1,526	3/23 - 4/23 1,683
6" Distribution						
Research R&D	2		0	0	0	0
Control Lab	4		2	3	2	3
QA	417		426	468	461	536
"Afflair"	49		41	46	37	42
Overhead	11		5	4	6	5
Black Oxide	61		35	31	39	45
Unaccounted for	13		0	0	0	0
Total	557		509	552	545	631
10" Service Distribution						
Powerhouse	218		318	327	283	284
CPC - Areas I & II	377		435	425	441	440
Photo Products	24		36	31	28	27
Overhead	9		7	3	4	4
CPC - Area III	245		290	226	225	297
Unaccounted for	0		0	0	0	0
Total	873		1086	1012	981	1052
Total Unaccounted for	13	(1%)	0	0	0	0

M. R. Biddle

M. R. BIDDLE, MECH. SUPVR. POWER

/tg

AR2020144

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November 27, 1979

PURCHASED WATER CONSUMPTION
(averaged M Gal./Day)

Plant Total	Avg./Day	7/24 - 8/22	8/23 - 9/20	9/21 - 10/21	10/22 - 11/20
	1,430	1,206	1,436	1,457	1,381
6" Distribution					
Research R&D	2	0	0	0	0
Control Lab	4	1	2	2	2
QA	417	453	467	489	460
"Afflair"	49	37	35	46	21
Overhead	11	13	12	7	5
Black Oxide	61	37	51	46	31
Unaccounted for	13	0	0	0	0
Total	557	541	567	590	519
10" Service Distribution					
Powerhouse	218	140	206	212	240
CPC - Areas I & II	377	341	379	400	393
Photo Products	24	27	33	29	25
Overhead	9	6	8	5	3
CPC - Area III	245	151	243	221	201
Unaccounted for	0	0	0	0	0
Total	873	665	869	867	862
Total Unaccounted for	13 (1%)	0	0	0	0

M. R. Biddle / A. T. S.
M. R. BIDDLE, MECH. SUPVR. POWER

/tg

AE2020045

E. I. DU PONT DE NEMOURS & COMPANY
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January 2, 1980

PURCHASED WATER CONSUMPTION
(averaged M Gal./Day)

Plant Total	Avg./Day	8/23 - 9/20	9/21 - 10/21	10/22 - 11/20	11/21-12/21
	1,430	1,436	1,457	1,381	1,554
6" Distribution					
Research R&D	2	0	0	0	0
Control Lab	4	2	2	2	2
QA	417	467	489	460	538
"Afflair"	49	35	46	21	16
Overhead	11	12	7	5	5
Black Oxide	61	51	46	31	38
Unaccounted for	13	0	0	0	0
Total	557	567	590	519	599
10" Service Distribution					
Powerhouse	218	206	212	240	282
CPC - Areas I & II	377	379	400	393	408
Photo Products	24	33	29	25	27
Overhead	9	8	5	3	3
CPC - Area III	245	243	221	201	235
Unaccounted for	0	0	0	0	0
Total	873	869	867	862	955
Total Unaccounted for	13 (1%)	0	0	0	0

WLS/tg

J. P. BRADLEY, MECH. SUPVR. POWER

E. I. DU[illegible]T DE NEMOURS & COMPANY
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January 28, 1980

PURCHASED WATER CONSUMPTION
(averaged M Gal./Day)

Plant Total	Avg./Day	9/21 - 10/21	10/22 - 11/20	11/21 - 12/21	12/22 - 1/[illegible]
	1,430	1,457	1,381	1,554	1,594
6" Distribution					
Research R & D	2	0	0	0	0
Control Lab	4	2	2	2	2
QA	417	489	460	538	563
"Afflair"	49	46	21	16	0
Overhead	11	7	5	5	5
Black Oxide	61	46	31	38	48
Unaccounted for	13	0	0	0	0
Total	557	590	519	599	618
10" Service Distribution					
Powerhouse	218	212	240	282	303
CPC - Areas I & II	377	400	393	408	433
Photo Products	24	29	25	27	27
Overhead	9	5	3	3	4
CPC - Area III	245	221	201	235	209
Unaccounted for	0	0	0	0	0
Total	873	867	862	955	976
Total Unaccounted for	13 (1%)	0	0	0	0

J. P. BRADLEY, MECH. SUPVR. POWER

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March 27, 1980

PURCHASED WATER CONSUMPTION
(averaged M Gal./Day)

Plant Total	Avg./Day	11/21 - 12/21	12/22 - 1/25	1/26 - 2/24	2/25 - 3/24
	1,430	1,554	1,594	1,534	1,320
6" Distribution					
Research R & D	2	0	0	0	0
Control Lab	4	2	2	2	2
QA	417	538	563	520	471
"Afflair"	49	16	0	0	0
Overhead	11	5	5	4	4
Black Oxide	61	38	48	39	38
Unaccounted for	13	0	0	0	0
Total	557	599	618	565	515
10" Service Distribution					
Powerhouse	218	282	303	303	265
CPC - Areas I & II	377	408	433	398	304
Photo Products	24	27	27	9	3
Overhead	9	3	4	4	3
CPC - Area III	245	235	209	255	230
Unaccounted for	0	0	0	0	0
Total	873	955	976	969	805
Total Unaccounted for	13 (1%)	0	0	0	0

AR202048

J. P. BRADLEY, MECH. SUPV. POWER

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April 27, 1980

PURCHASED WATER CONSUMPTION
(averaged M Gal./Day)

Plant Total	Avg./Day	12/22 - 1/25	1/26 - 2/24	2/25 - 3/24	3/25 - 4/24
	1,430	1,594	1,534	1,320	1,202
6" Distribution					
Research R&D	2	0	0	0	0
Control Lab	4	2	2	2	2
QA	417	563	520	471	459
"Afflair"	49	0	0	0	0
Overhead	11	5	4	4	6
Black Oxide	61	48	39	38	41
Unaccounted for	13	0	0	0	0
Total	557	618	565	515	508
10" Service Distribution					
Powerhouse	218	303	303	265	205
CPC - Areas I & II	377	433	398	304	225
Photo Products	24	27	9	3	22
Overhead	9	4	4	3	3
CPC - Area III	245	209	255	230	239
Unaccounted for	0	0	0	0	0
Total	873	976	969	805	694
Total Unaccounted for	13 (1%)	0	0	0	0

J. P. Bradley / W.L.S.
J. P. BRADLEY, MECH. SUPV. POWER

WLS/tg

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W. L. Spillan

May 23, 1980

PURCHASED WATER CONSUMPTION
(averaged M Gal./Day)

Plant Total	Avg./Day	1/26 - 2/24	2/25 - 3/24	3/25 - 4/24	4/25 - 5/23
	1,430	1,534	1,320	1,202	1,087
6" Distribution					
Research R&D	2	0	0	0	0
Control Lab	4	2	2	2	1
QA	417	520	471	459	433
"Afflair"	49	0	0	0	0
Overhead	11	4	4	6	8
Black Oxide	61	39	38	41	36
Unaccounted for	13	0	0	0	0
Total	557	565	515	508	478
10" Service Distribution					
Powerhouse	218	303	265	205	163
CPC - Areas I & II	377	398	304	225	188
Photo Products	24	9	3	22	19
Overhead	9	4	3	3	4
CPC - Area III	245	255	230	239	235
Unaccounted for	0	0	0	0	0
Total	873	969	805	694	609
Total Un counted for	13 (1%)	0	0	0	0

J. P. Bradley /tg
J. P. BRADLEY, MECH / SUPV. POWER

WLS/tg

AR202050

E. I. DU PONT DE NEMOURS & COMPANY
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W. L. Spillan

June 26, 1980

PURCHASED WATER CONSUMPTION
(averaged M Gal./Day)

Plant Total	Avg./Day	2/25 - 3/24	3/25 - 4/24	4/25 - 5/23	5/24 - 6/23
	1,430	1,320	1,202	1,087	1,070
6" Distribution					
Research R&D	2	0	0	0	0
Control Lab	4	2	2	1	2
QA	417	471	459	433	388
"Afflair"	49	0	0	0	0
Overhead	11	4	6	8	11
Black Oxide	61	38	41	36	36
Unaccounted for	13	0	0	0	0
Total	557	515	508	478	437
10" Distribution					
Powerhouse	218	265	205	163	152
CPC - Areas I & II	377	304	225	188	193
Photo Products	24	3	22	19	28
Overhead	9	3	3	4	5
CPC - Area III	245	230	239	235	255
Unaccounted for	0	0	0	0	0
Total	873	805	694	609	633
Total Unaccounted for	13 (1%)	0	0	0	0

DRO2051

J. P. Bradley/tq
J. P. BRADLEY, MECH./SUPV. POWER

WLS/tq

E. I. DU PONT DE NEMOURS & COMPANY
CHEMICALS, DYES AND PIGMENTS DEPARTMENT
NEWPORT, DELAWARE

CC: A. E. Andrejko, G. G. Dougherty, D. M. Strouss, J. L. Deming, J. B. Pietuszka, J. C. Lofland, C. E. Tryon/ R. C. Chynoweth, J. C. Chaney, R. A. Dean, J. G. Hnat, J. E. Waller, P. E. Kress, J. I. Nied, A. M. Bulloch

July 28, 1980

PURCHASED WATER CONSUMPTION
(averaged M Gal./Day)

Plant Total	Avg./Day	3/25 - 4/24	4/25 - 5/23	5/24 - 6/23	6/24 - 7/24
	1,430	1,202	1,087	1,070	846
6" Distribution					
Research R&D	2	0	0	0	0
Control Lab	4	2	1	2	1
QA	417	459	433	388	352
"Afflair"	49	0	0	0	0
Overhead	11	6	8	11	17
Black Oxide	61	41	36	36	27
Unaccounted for	13	0	0	0	0
Total	557	508	478	437	397
10" Distribution					
Powerhouse	218	205	163	152	138
CPC - Areas I & II	377	225	188	193	128
Photo Products	24	22	19	28	28
Overhead	9	3	4	5	4
CPC - Area III	245	239	235	255	151
Unaccounted for	0	0	0	0	0
Total	873	694	609	633	449
Total Unaccounted for	13 (1%)	0	0	0	0

J. P. Bradley/tg
J. P. BRADLEY, MECH. SUPV. POWER

/tg

E. I. [redacted]PONT DE NEMOURS & COMPANY
CHEMICALS AND PIGMENTS DEPARTMENT
NEWPORT, DELAWARE

A. E. Andrejko
G. G. Dougherty
D. M. Strouss
J. L. Deming
J. B. Pietuszka
C. E. Tryon/
R. C. Chynoweth
J. C. Chaney
R. A. Dean
J. G. Hnat
J. E. Waller
[redacted]
J. I. Nied
R. J. Stawicki
S. Dombchik

August 27, 1980

PURCHASED WATER CONSUMPTION
(averaged M Gal./Day)

Plant Total	Avg./Day	4/25 - 5/23	5/24 - 6/23	6/24 - 7/24	7/25 - 8/24
	1,430	1,087	1,070	846	929
6" Distribution					
Research R&D	2	0	0	0	0
Control Lab	4	1	2	1	1
QA	417	433	388	352	388
"Afflair"	49	0	0	0	0
Overhead	11	8	11	17	16
Black Oxide	61	36	36	27	27
Unaccounted for	13	0	0	0	0
Total	557	478	437	397	432
10" Distribution					
Powerhouse	218	163	152	138	163
CPC - Plant I	377	188	193	128	175
Photo Products	24	19	28	28	29
Overhead	9	4	5	4	10
CPC - Plant II	245	235	255	151	120
Unaccounted for	0	0	0	0	0
Total	873	609	633	449	497
Total Unaccounted for	13 (1%)	0	0	0	0

J. P. Bradley

J. P. BRADLEY, PRODUCTION COORD. POWER

/ds

E. I. DU ANT DE NEMOURS & COMPANY
CHEMICALS AND PIGMENTS DEPARTMENT
NEWPORT, DELAWARE

cc: A. E. Andrejko
G. G. Dougherty
D. M. Strouss
J. L. Deming
J. B. Pietuszka
C. E. Tryon/
R. C. Chynoweth
J. C. Chaney
R. A. Dean
J. G. Hnat
P. E. Kress ←
J. I. Nied
R. J. Stawicki
S. Dombchik
W. L. Spillan

September 26, 1980

PURCHASED WATER CONSUMPTION
(averaged M Gal./Day)

Plant Total	Avg./Day	5/24 - 6/23	6/24 - 7/24	7/25 - 8/24	8/25 - 9/23
	1,430	1,070	846	929	1,062
6" Distribution					
Research R&D	2	0	0	0	0
Control Lab	4	2	1	1	1
QA	417	388	352	388	430
"Afflair"	49	0	0	0	0
Overhead	11	11	17	16	16
Black Oxide	61	36	27	27	30
Unaccounted for	13	0	0	0	0
Total	557	437	397	432	477
10" Distribution					
Powerhouse	218	152	138	163	184
CPC-Plant I	377	193	128	175	242
Photo Products	24	28	28	29	26
Overhead	9	5	4	10	12
CPC Plant II	245	255	151	120	121
Unaccounted for	0	0	0	0	0
Total	873	633	449	497	585
Total Unaccounted for	13 (1%)	0	0	0	0

J. P. Bradley /ds

J. P. BRADLEY, PRODUCTION COORD. POWER

WLS/ds

E. I. [redacted] NT DE NEMOURS & COMPANY
CHEMICALS AND PIGMENTS DEPARTMENT
NEWPORT, DELAWARE

cc: A. E. Andrejko
G. G. Dougherty
D. M. Strouss
J. L. Deming
J. B. Pietuszka
C. E. Tryon
R. C. Chynoweth
J. C. [redacted]
R. A. Deal
J. G. Hnat
P. E. Kreas
J. I. Nied
R. J. Stawicki
S. Dombchik
W. L. Spillan

October 27, 1980

[redacted]

PURCHASED WATER CONSUMPTION
(averaged M Gal./DAY)

Plant Total	Avg./Day	6/24 - 7/24	7/25 - 8/24	8/25 - 9/23	9/24 - 10/23
	1,430	846	929	1,062	1,133
6" Distribution					
Research R&D	2	0	0	0	0
Control Lab	4	1	1	1	1
QA	417	352	388	430	410
"Afflair"	49	0	0	0	0
Overhead	11	17	16	16	11
Black Oxide	61	27	27	30	19
Unaccounted for	13	0	0	0	0
Total	557	397	432	477	441
10" Distribution					
Powerhouse	218	138	163	184	191
CPC Plant I	377	128	175	242	225
Photo Products	24	28	29	26	23
Overhead	9	4	10	12	10
CPC Plant II	245	151	120	121	243
Unaccounted for	0	0	0	0	0
Total	873	449	497	585	692
Total Unaccounted for	13 (%)	0	0	0	0

AR202055

J. P. Bradley Jr.
J. P. BRADLEY, PRODUCTION COORD. POWER

WLS/ds

E. I. DU NT DE NEMOURS & COMPANY
CHEMICALS AND PIGMENTS DEPARTMENT
NEWPORT, DELAWARE

cc: A. E. Andrejko
G. G. Dougherty
D. M. Strouss
J. L. Deming
J. B. Pietuszka
C. E. Tryon/
R. C. Chynoweth
J. C. Ch[illegible]y
R. A. Dean
J. G. Hnat
P. E. Kress
J. I. Nied
R. J. Stawicki
S. Dombchik
W. L. Spillan

November 26, 1980

PURCHASED WATER CONSUMPTION
(averaged M Gal./Day)

Plant Total	Avg./Day	7/25 - 8/24	8/25 - 9/23	9/24 - 10/23	10/24 - 11/21
	1,430	929	1,062	1,133	1,163
6" Distribution					
Research R&D	2	0	0	0	0
Control Lab	4	1	1	1	1
QA	417	388	430	410	394
"Afflair"	49	0	0	0	0
Overhead	11	16	16	11	6
Black Oxide	61	27	30	19	22
Unaccounted for	13	0	0	0	0
Total	557	432	477	441	423
10" Distribution					
Powerhouse	218	163	184	191	288
CPC Plant I	377	175	242	225	178
Photo Products	24	29	26	23	22
Overhead	9	10	12	10	10
CPC Plant II	245	120	121	243	242
Unaccounted for	0	0	0	0	0
Total	873	497	585	692	740
Total Unaccounted for	13 (%)	0	0	0	0

WLS/ds

J. P. BRADLEY, PRODUCTION COORD. POWER

CONTINUED FROM FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X							0					
2V. Acrylonitrile (107-13-1)			X							0					
3V. Benzene (71-43-2)			X							0					
4V. Bis (Chloromethyl) Ether (542-88-1)			X							0					
5V. Bromoform (75-25-2)			X							0					
6V. Carbon Tetrachloride (56-23-5)			X							0					
7V. Chlorobenzene (108-90-7)			X							0					
8V. Chlorodibromomethane (124-48-1)			X							0					
9V. Chloroethane (75-00-3)			X							0					
10V. 2-Chloroethylvinyl Ether (110-75-8)			X							0					
11V. Chloroform (67-66-3)			X							0					
12V. Dichlorobromomethane (75-27-4)			X							0					
13V. Dichlorodifluoromethane (75-71-8)			X							0					
14V. 1,1-Dichloroethane (75-34-3)			X							0					
15V. 1,2-Dichloroethane (107-06-2)			X							0					
16V. 1,1-Dichloroethylene (75-35-4)			X							0					
17V. 1,2-Dichloropropane (78-87-5)			X							0					
18V. 1,2-Dichloropropylene (542-75-6)			X							0					
19V. Ethylbenzene (100-41-4)			X							0					
20V. Methyl Bromide (74-83-9)			X							0					
21V. Methyl Chloride (74-87-3)			X							0					

AR202057

ORIGINAL (Red)

2c

Question 2

Provide all information in CIBA-GEIGY's possession regarding storm sewer discharge contamination at the site.

Attachment

ORIGINAL (Red)

3) NPDES Permit DE0000400 Application, 1988.

Pigments Department
CIBA-GEIGY Corporation
James & Water Streets
Newport, Delaware 19804
Telephone 302 992 5600

CIBA-GEIGY

4.7.94

ORIGINAL
(Red)

April 15, 1988

Mr. Paul J. Janiga,
Environmental Engineer
Water Pollution Control Branch
Division of Water Resources
Department of Natural Resources
and Environmental Control
State of Delaware
P.O. Box 1401
Dover, Delaware 19903

RE: NPDES PERMIT DE 0000400, STATE PERMIT 3106 B/74

Dear Mr. Janiga:

Attached are the completed consolidated permit application forms 1 and 2C for the renewal of the CIBA-GEIGY Corporation, Newport, DE plant NPDES discharge permit.

We trust this information will meet your needs. We also look forward to working with you on this renewal. If you need to contact us, please call me at 992-5621.

Sincerely,

George H. Hull

George H. Hull
Environmental Coordinator

GHH/baj
ID-0568X

Attachment

AR202059

Please print or type in the unshaded areas only
(fill—in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

FORM 1 GENERAL

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program
(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

F D E D 9 8 0 8 3 0 4 0 0 | | D

LABEL ITEMS

- I. EPA I.D. NUMBER
- III. FACILITY NAME
- V. FACILITY MAILING ADDRESS
- VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill—in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill—in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold—faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X	
B. Does or will this facility *(either existing or proposed)* include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	X		X
D. Is this a proposed facility *(other than those described in A or B above)* which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)		X	
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	
J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP C I B A - G E I G Y C O R P O R A T I O N

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
2 H U L L , G E O R G E H. E N V I R O N. C O O R D.	3 0 2 | 9 9 2 | 5 6 2 1

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

3 J A M E S A N D W A T E R S T R E E T S

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 N E W P O R T	D E	1 9 8 0 4

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

5 J A M E S A N D W A T E R S T R E E T S

AR202060

B. COUNTY NAME			
N E W C A S T L E C O U N T Y			
C. CITY OR TOWN	**D. STATE**	**E. ZIP CODE**	**F. COUNTY CODE (if known)**
6 N E W P O R T	D E	1 9 8 0 4	

EPA I.D. No. DED980830400

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
2865 ORGANIC PIGMENTS	(specify)

C. THIRD	D. FOURTH
(specify)	(specify)

ORIGINAL (Red)

VIII. OPERATOR INFORMATION

A. NAME

CIBA-GEIGY CORPORATION

B. Is the name listed in Item VIII-A also the owner? ☒ YES ☐ NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)

F = FEDERAL S = STATE P = PRIVATE M = PUBLIC (other than federal or state) O = OTHER (specify)

P (specify)

D. PHONE (area code & no.)

A 914 478 3131

E. STREET OR P.O. BOX

444 SAW MILL RIVER ROAD

F. CITY OR TOWN	G. STATE	H. ZIP CODE
ARDSLEY	NY	10502

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☒ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissions from Proposed Sources)
N DE0000400	P

B. UIC (Underground Injection of Fluids)	E. OTHER (specify)	
U	OTHER PERMITS	(specify) SEE ATTACHED

C. RCRA (Hazardous Wastes)	E. OTHER (specify)
R	(specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property bounderies. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

The Plant manufactures organic pigments.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Everett A. Kliphouse, Vice-President & General Manager	Everett A. Kliphouse	April 15, 1985

ARD000206

COMMENTS FOR OFFICIAL USE ONLY

C

EPA Form 3510-1 (Rev. 10-80) Reverse

☆ U.S. Government Printing Office : 1985 - 486-785/32991

CIBA-GEIGY CORPORATION

NEWPORT PLANT

ORIGINAL (Red)

State Drying Lagoon Permit

- SWA-84/13

County Sewer Permit

- WDP-84-057

Water Intake

- Delaware State Lease No. SL-0705/81
- Delaware Intake Permit No. 84-0023
- Del. River Basin Comm. Docket No. D-84-12 (Also applies to NPDES, but through DNREC.)
- Army C.O.E. Permit No. NAPOP-R-81-0311-3

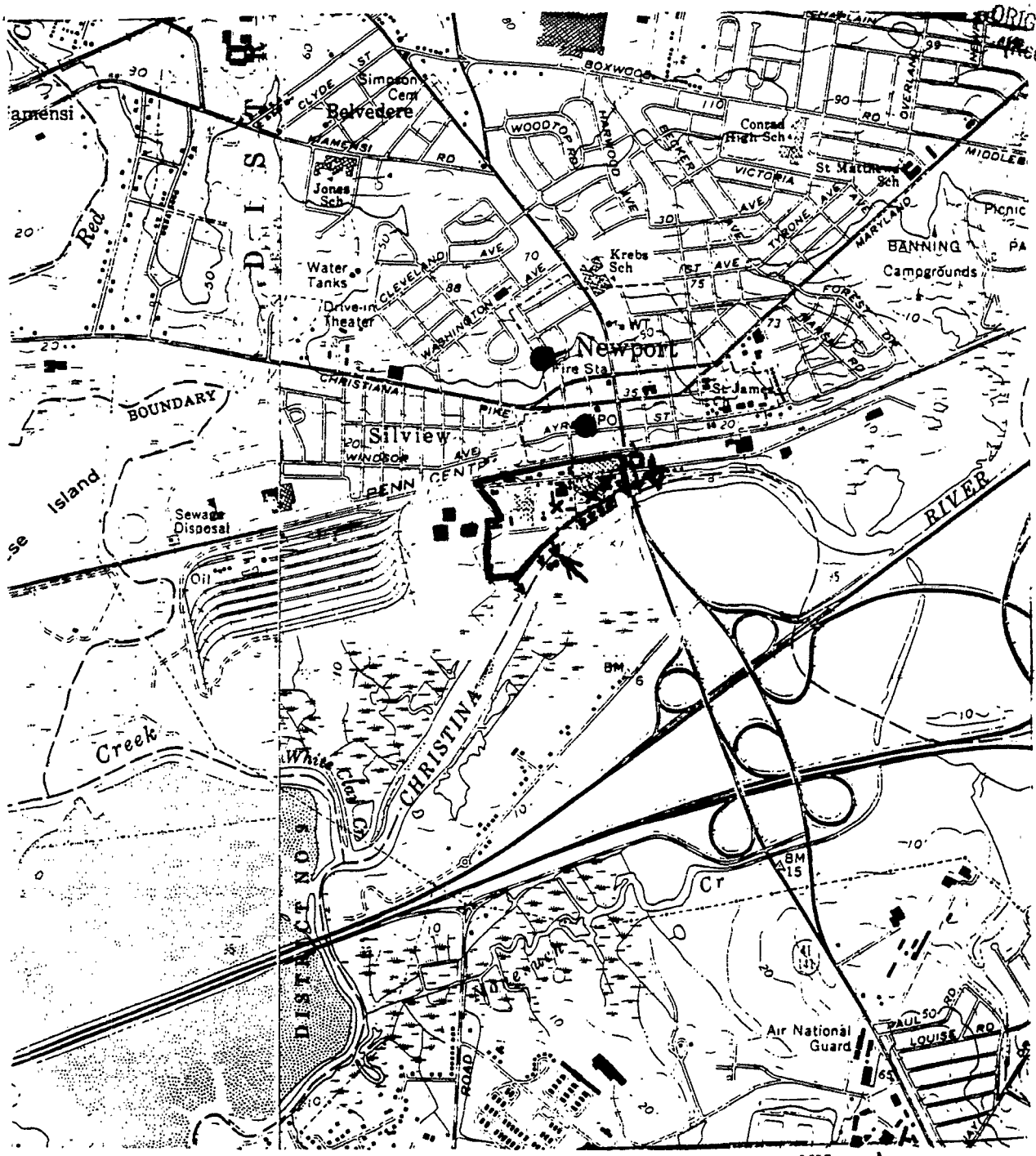
State Air Permits

APC-81/679	APC-82/514
APC-81/907	APC-82/828
APC-82/011	APC-84/700
APC-82/129	APC-86/326
APC-82/130	APC-87/261
APC-82/131	APC-87/272
APC-82/135	APC-87/273
APC-82/136	APC-87/274
APC-82/137	APC-87/275
APC-82/138	APC-87/277
APC-82/407	APC-87/278
APC-82/510	APC-87/283
APC-82/511	APC-87/284
APC-82/512	APC-87/285
APC-82/513	APC-87/297

Hazardous Waste, Generator Only

- EPA I.D. NO. DED980830400

ORIGINAL (Red)



39°41'12" N
75°38'14" W

MN
GN
9°
160 MILS
0°22'
6 MILS

UTM Grid and 1967 Magnetic North Declination at Center of Sheet

Scale 1:24,000

1000 0 Feet

- Hazardous Waste (Generator only temporary storage, i.e. 90 days or less)
- Creek Water Intake
- Small Stream
- Town Drinking Water Wells
- Newport Plant Boundaries
- Outfall

AR202063

CERTIFICATE OF APPLICANT

ORIGINAL (Red)

I HEREBY CERTIFY THAT THE APPLICANT IS:

☐ a Delaware resident residing therein at: _____

_____

or

☐ a nonresident residing at: _____

but owning property in Delaware at: _____

_____

or

☐ a Delaware corporation, whose registered agent in accordance with 8 Del. C. §132 is: _____

address: _____

or

☐ a foreign corporation organized in the State of _____ and authorized to do business in the State of Delaware pursuant to 8 Del. C. §371, whose registered agent in the State of Delaware is: _____

address: _____

or

☐ a partnership, firm or association, with certificate on file with the Prothonotary of _____ County in the State of Delaware, recorded in Book _____ at Page _____ in accordance with 6 Del. C. §3101.

or

☒ other: A New York corporation qualified to do business in the State of Delaware, whose registered agent in the State of Delaware is Corporation Trust Co., 100 W. Tenth St., Wilmington, DE 19899.

Everett A. Kliphouse
(typed or printed name)

Vice-President and General Manager
(typed or printed title)

James & Water Streets
(Address)

Newport, DE 19804

AR202064

Everett A. Kliphouse
Signature

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (copy from Item 1 of Form 1): DED980830400

Form Approved
OMB No 2040-0086
Approval expires 7 31 88

FORM 2C NPDES

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water. (Red)

A. OUTFALL NUMBER (list)	B. LATITUDE 1. DEG.	2. MIN.	3. SEC.	C. LONGITUDE 1. DEG.	2. MIN.	3. SEC.	D. RECEIVING WATER (name)
001	39	41	12	75	38	14	CHRISTINA RIVER
002-006	39	41	12	75	38	14	CHRISTINA RIVER
008	39	41	12	75	38	14	CHRISTINA RIVER
009	39	41	12	75	38	14	CITY OF NEWPORT DRAINAGE TRENCH

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined *(e.g. for certain mining activities)*, provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures. ATTACHED

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW a. OPERATION (list)	b. AVERAGE FLOW (include units)	3. TREATMENT a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
001	Salt water backwash	10,000 GPD	Discharge to Christina River	4A	
	Non-contact cooling water.	30,000 GPD			
	Cooling tower water.	2,000 GPD			
	Storm water run-off.	None, unless rain.			
002 to 006	Storm water run-off.	None, unless rain.	Discharge to Christina River	4A	
008	Storm water run-off.	None, unless rain.	Discharge to Christina River	4A	
009	Storm water run-off.	None, unless rain.	Discharge to Christina River	4A	
	Note: flows above are estimates. No metered		data is available.		

AR202065

OFFICIAL USE ONLY *(effluent guidelines sub-categories)*

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ YES *(complete the following table)* ☐ NO *(go to Section III)*

1. OUTFALL NUMBER *(list)*	2. OPERATION(s) CONTRIBUTING FLOW *(list)*	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK *(specify average)*	b. MONTHS PER YEAR *(specify average)*	a. FLOW RATE *(in mgd)*		b. TOTAL VOLUME *(specify with units)*		c. DURATION *(in days)*
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
	NOT APPLICABLE							

ORIGINAL (Red)

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ YES *(complete Item III-B)* ☒ NO *(to to Section IV)*

B. Are the limitations in the applicable effluent guideline expressed in terms of production *(or other measure of operation)*?

☐ YES *(complete Item III-C)* ☒ NO *(go to Section IV)*

C. If you answered "yes" to item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS *(list outfall numbers)*
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. *(specify)*	
		NOT APPLICABLE BECAUSE PRODUCTION IS LESS THAN 5,000,000 LBS./YR. AND BECAUSE GUIDELINES APPLICABLE TO LARGER FACILITIES THAN OURS ARE NOT EXPRESSED IN TERMS OF PRODUCTION.	

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES *(complete the following table)* ☒ NO *(go to Item IV-B)*

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED
NOT APPLICABLE					

AR202066

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs *(or other environmental projects which may affect your discharges)* you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

EPA I.D. NUMBER (copy from Item 1 of Form 1)
DED980830400

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9. ATTACHED

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
NONE FROM TABLE 2C-3 IS EXPECTED.			ORIGINAL (Red)

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☒ YES (list all such pollutants below) ☐ NO (go to Item VI-B)

TETRACHLOROETHYLENE AND TOLUENE ARE USED IN MANUFACTURING.

AR202067

EPA I.D. No. DED980830400

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☒ YES *(identify the test(s) and describe their purposes below)* ☐ NO *(go to Section VIII)*

The State of Delaware Department of Natural Resources and Environmental Control took water quality samples for bioassays in June 1987. Samples were also taken state-wide from all other direct discharges as part of state-wide testing.

ORIGINAL (Red)

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☒ YES *(list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)* ☐ NO *(go to Section IX)*

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
Artesian Laboratories, Inc.	630 Churchmans Road Newark, DE 19702	(302) 453-6920	V- Part A - All (For 001) V- Intake (For purchased water to plant.)
Lancaster Laboratories, Inc.	2425 New Holland Pike Lancaster, PA 17601	(717) 656-2301	V- All Parts (For 001) V- Intake (For purchased water to plant).

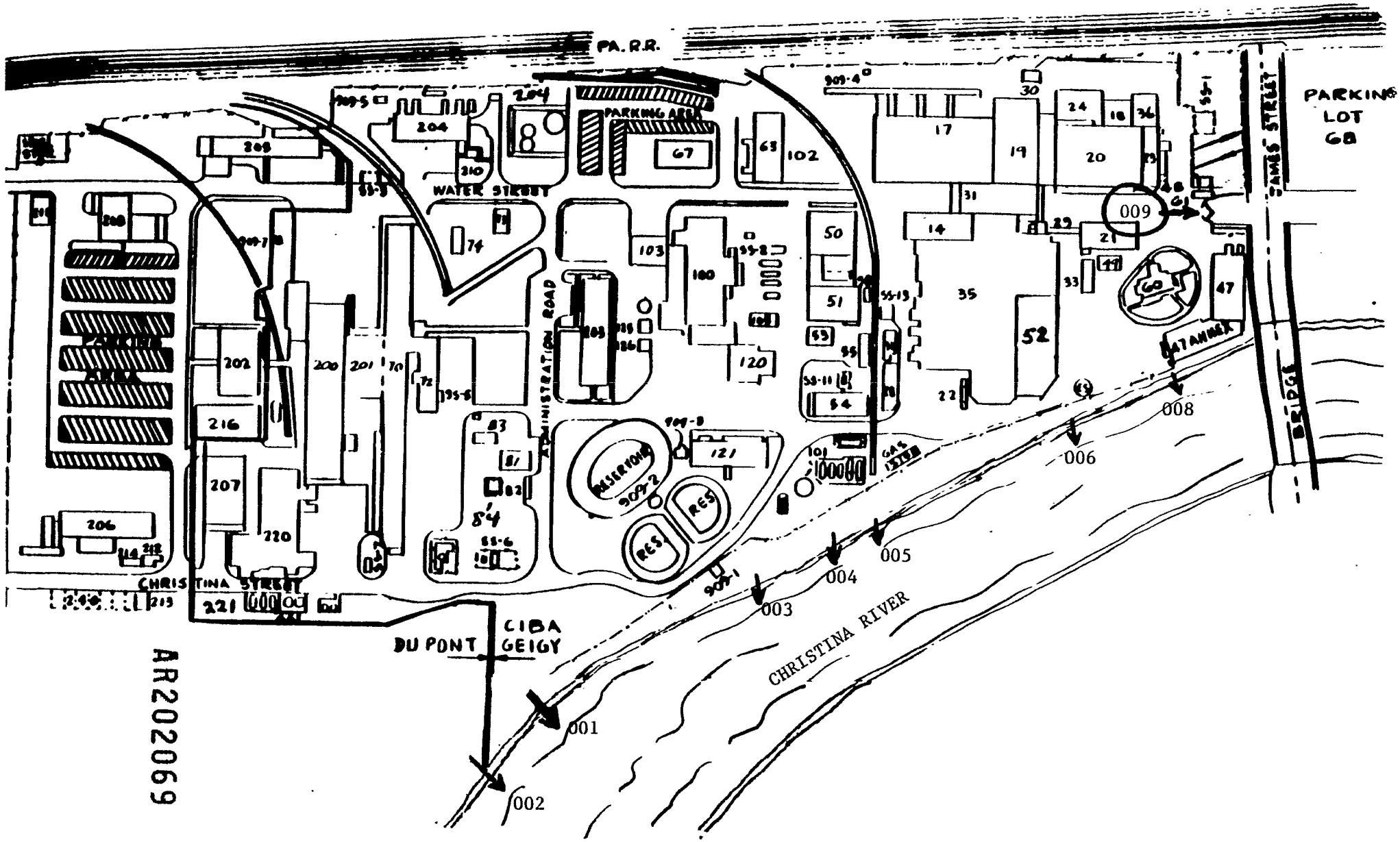
IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE *(type or print)*	B. PHONE NO. *(area code & no.)*
Everett A. Kliphouse Vice-President & General Manager	(302) 992-5670
C. SIGNATURE	D. DATE SIGNED
Everett A Kliphouse	April 15, 1988

AR202068

NEWPORT PLANT



LOCATION OF CONTINUOUS OUTFALL 001
AND OF STORM WATER OUTFALLS 002, 003,
004, 005, 006, 008, & 009.

EPA I.D. No. DED980830400

ATTACHMENT

ORIGINAL
(Red)

Part V, Tables A, B, and C of Permit
Application Form 2C NPDES for
Outfalls Nos. 001, 002, 003, 004,
005, 006, 008, & 009

Notes:

1. Comprehensive analysis of outfall 001 was done by Lancaster Laboratories in March 1988.

2. BOD, TSS, pH and temperature are monitored routinely, for outfall 001. Data is from 1985 to 1988 analyses.

3. BOD, TSS, COD, TOC and NH_3 for intake are from a previous application. Rest of intake analyses are from 1987 to 1988 data.

4. No new analysis was performed on the storm water outfalls. This was agreed to by Mr. Janiga of DNREC, because regulatory protocols for outfall sampling have not been established yet.

5. Outfall 009 consists of about 4 pipes that enter the City of Newport drainage ditch separately.

ID-0568X

ORIGI
(Red)

OUTFALL NO. 001

AR202071

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: DED980830400

Form Approved OMB No 2040-0086 Approval expires 7-31-88

0002072

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO: 001

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	2. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	2. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	2. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	2. EFFLUENT d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCENTRATION	3. UNITS (specify if blank) b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE (optional) b. NO OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	7.9	4.6	N/A	N/A	3.1	1.2	38	mg/1	Lbs./ Day			
b. Chemical Oxygen Demand *(COD)*	12.0	3.2	N/A	N/A	N/A	N/A	2	mg/1	Lbs./ Day			
c. Total Organic Carbon *(TOC)*	2.3	0.6	N/A	N/A	N/A	N/A	2	mg/1	Lbs./ Day	See Attached		
d. Total Suspended Solids *(TSS)*	23.0	15.2	N/A	N/A	6.3	2.2	38	mg/1	Lbs./ Day			
e. Ammonia *(as N)*	1.0	0.4	N/A	N/A	N/A	N/A	2	mg/1	Lbs./ Day			
f. Flow	VALUE 182400		VALUE N/A		VALUE 46500		38	----	Gallons	VALUE		
g. Temperature *(winter)*	VALUE 31°C.		VALUE N/A		VALUE 16°C.		38	°C		VALUE		
h. Temperature *(summer)*	VALUE 33°C.		VALUE N/A		VALUE 25°C.		40	°C		VALUE		
i. pH	MINIMUM 6.1	MAXIMUM 8.1	MINIMUM N/A	MAXIMUM N/A			156	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X	N.D. <5.0						1	mg/1				
b. Chlorine, Total Residual		X	N.D. <0.05						1	mg/1				
c. Color		X	N.D. <5.0						1	CP units				
d. Fecal Coliform		X	N.D. <10.0						1	/100 ml		N.D. <1.0		8
e. Fluoride (16984-48-8)	(1) X		N.D. <1.0	(1)Not detected. Would expect this sometimes in purchased intake water.					1	mg/1				
f. Nitrate-Nitrite *(as N)*			3.0	0.8					1	mg/1		4.4		8

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (If available)	2. MARK 'X' a. PRESENT	b. ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (If available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (If available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		2.7	0.73					1	mg/1	Lbs./ Day			
h. Oil and Grease		X	N.D. < 2.0						1	mg/1				
i. Phosphorus (as P), Total (7723-14-0)		X	N.D. < 0.02						1	mg/1				
j. Radioactivity														
(1) Alpha, Total		X							0					
(2) Beta, Total		X							0					
(3) Radium, Total		X							0					
(4) Radium 226, Total		X							0					
k. Sulfate (as SO_4) (14808-79-8)	(1) X		48.	12.94	(1) Believed present due to intake water.				1	mg/1	Lbs./ Day			
l. Sulfide (as S)		X	N.D. < 0.1						1	mg/1				
m. Sulfite (as SO_3) (14265-45-3)	(2) X		N.D. < 2.0	(2) Not detected but believe may be present.					1	mg/1				
n. Surfactants	X		0.1	0.03					1	mg/1	Lbs./ Day	0.03		8
o. Aluminum, Total (7429-90-5)	X		0.1	0.03					1	mg/1	Lbs./ Day			
p. Barium, Total (7440-39-3)		(3) X	3.2	(3) Believed absent.					1	mg/1				
q. Boron, Total (7440-42-8)	X		0.15	0.04										
r. Cobalt, Total (7440-48-4)		X	N.D. < 0.05	--					1	mg/1				
s. Iron, Total (7439-89-6)	X		0.5	0.13					1	mg/1	Lbs./ Day	0.26		8
t. Magnesium, Total (7439-95-4)	(4) X		8.96	2.4	(4) Believed present due to intake water, based on prior data.				1	mg/1				
u. Molybdenum, Total (7439-98-7)		X	N.D. < 0.1						1	mg/1				
v. Manganese, Total (7439-96-5)	(1) X		0.39	0.11					1	mg/1				
w. Tin, Total (7440-31-5)		X	N.D. < 0.5						1	mg/1				
x. Titanium, Total (7440-32-6)		X	N.D. < 0.05						1	mg/1				

CONTINUED FROM PAGE 3 OF FORM 2-C

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	001

Form Approved.
OMB No 2040-0086
Approval expires 7-31-88

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (If available)	2. MARK 'X' a. TESTING REQUIRED	2. MARK 'X' b. BELIEVED PRESENT	2. MARK 'X' c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X	N.D. <0.05						1	mg/1				
2M. Arsenic, Total (7440-38-2)			(1) X	0.01	(1) Result is at detection limit and is not believed present.					1	mg/1				
3M. Beryllium, Total (7440-41-7)			X	N.D. <0.005						1	mg/1				
4M. Cadmium, Total (7440-43-9)		(2) X		0.104	0.03	(2) Believe present due to intake water, based on prior intake data.				1	mg/1	Lbs./ Day			
5M. Chromium, Total (7440-47-3)			X	N.D. < 0.05						1	mg/1				
6M. Copper, Total (7440-50-8)		(2) X		0.03	0.01					1	mg/1	Lbs./ Day	1.0		7
7M. Lead, Total (7439-92-1)		(2) X		N.D. <0.05	0.01					1	mg/1		0.03		8
8M. Mercury, Total (7439-97-6)			X	N.D. <0.0005						1	mg/1				
9M. Nickel, Total (7440-02-0)		(2) X		0.10	0.03					1	mg/1				
10M. Selenium, Total (7782-49-2)			X	N.D. <0.005						1	mg/1				
11M. Silver, Total (7440-22-4)			X	N.D. <0.01						1	mg/1				
12M. Thallium, Total (7440-28-0)			X	N.D. <0.1						1	mg/1				
13M. Zinc, Total (7440-66-6)		(2) X		4.35	1.17					1	mg/1	Lbs./ Day			
14M. Cyanide, Total (57-12-5)			X	N.D. <0.005						1	mg/1				
15M. Phenols, Total			X	N.D. <0.004						1	mg/1				
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01			X	DESCRIBE RESULTS											

AR202074

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X	N.D. <100.0						1	ug/l				
2V. Acrylonitrile (107-13-1)			X	N.D. <100,0						1	ug/l				
3V. Benzene (71-43-2)			X	N.D. <5.0						1	ug/l		N.D <1.0		8
4V. Bis (Chloromethyl) Ether (542-88-1)			X	---						0	---				
5V. Bromoform (75-25-2)			X	N.D. <5.0						1	ug/l		N.D <1.0		8
6V. Carbon Tetrachloride (56-23-5)			X	N.D. <5.0						1	ug/l		N.D. <1.0		8
7V. Chlorobenzene (108-90-7)			X	N.D. <5.0						1	ug/l		N.D. <1.0		8
8V. Chlorodibromomethane (124-48-1)			X	N.D. <5.0						1	ug/l		N.D. <1.0		8
9V. Chloroethane (75-00-3)			X	N.D. <5.0						1	ug/l		N.D. <1.0		8
10V. 2-Chloroethylvinyl Ether (110-75-8)			X	N.D. < 10.0						1	ug/l		N.D. <1.0		8
11V. Chloroform (67-66-3)			X	N.D. <5.0						1	ug/l		25.4		8
12V. Dichlorobromomethane (75-27-4)			X	N.D. <5.0						1	ug/l		5.0		8
13V. Dichlorodifluoromethane (75-71-8)			X	---						0	---		N.D. <1.0		7
14V. 1,1-Dichloroethane (75-34-3)			X	N.D. <5.0						1	ug/l		N.D. <1.0		8
15V. 1,2-Dichloroethane (107-06-2)			X	N.D. <5.0						1	ug/l		N.D. <1.0		8
16V. 1,1-Dichloroethylene (75-35-4)			X	N.D. <5.0						1	ug/l		N.D. <1.0		8
17V. 1,2 Dichloropropane (78-87 5)			X	N.D. <5.0						1	ug/l		N.D. <1.0		8
18V 1,3-Dichloropropylene (542-75-6)			X	N.D. <5.0						1	ug/l		N.D. <1.0		8
19V. Ethylbenzene (100-41 4)			X	N.D. <5.0						1	ug/l		N.D. <1.0		8
20V. Methyl Bromide (74 83 9)			X	N.D. <10.0						1	ug/l		N.D. <1.0		8
21V. Methyl Chloride (74 87 3)			X	N.D. <10.0						1	ug/l		N.D. <1.0		8

AR202075

OUTFALL NO. 001

EPA I.D. NUMBER (copy from Item 1 of Form 1): DED980830400 | OUTFALL NUMBER: 001

Form Approved
OMB No. 2040-0086
Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X	N.D. <5.0						1	ug/1		N.D. <1.0		8
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	N.D. <5.0						1	ug/1		N.D. <1.0		8
24V. Tetrachloroethylene (127-18-4)		X		38.0	0.01					1	ug/1	lbs/day	N.D. <1.0		8
25V. Toluene (108-88-3)			X	N.D. <5.0						1	ug/1		N.D. <1.0		8
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	N.D. <5.0						1	ug/1		N.D. <1.0		8
27V. 1,1,1-Trichloroethane (71-55-6)			X	N.D. <5.0						1	ug/1		N.D. <1.0		8
28V. 1,1,2-Trichloroethane (79-00-5)			X	N.D. <5.0						1	ug/1		N.D. <1.0		8
29V. Trichloroethylene (79-01-6)			X	N.D. <5.0						1	ug/1		N.D. <1.0		8
30V. Trichlorofluoromethane (75-69-4)			X	N.D. <5.0						1	ug/1		N.D. <1.0		7
31V. Vinyl Chloride (75-01-4)			X	N.D. <10.0						1	ug/1		N.D. <1.0		8
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X	N.D. <10.0						1	ug/1				
2A. 2,4-Dichlorophenol (120-83-2)			X	N.D. <10.0						1	ug/1				
3A. 2,4-Dimethylphenol (105-67-9)			X	N.D. <10.0						1	ug/1				
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X	N.D. <25.0						1	ug/1				
5A. 2,4-Dinitrophenol (51-28-5)			X	N.D. <25.0						1	ug/1				
6A. 2-Nitrophenol (88-75-5)			X	N.D. <10.0						1	ug/1				
7A. 4-Nitrophenol (100-02-7)			X	N.D. <25.0						1	ug/1				
8A. P-Chloro-M-Cresol (59-50-7)			X	N.D. <10.0						1	ug/1				
9A. Pentachlorophenol (87-86-5)			X	N.D. <25.0						1	ug/1				
10A. Phenol (108-95-2)			X	N.D. <10.0						1	ug/1				
11A. 2,4,6-Trichlorophenol (88-06-2)			X	N.D. <10.0						1	ug/1				

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X	N.D. <10.0						1	ug/1				
2B. Acenaphtylene (208-96-8)			X	N.D. <10.0						1	ug/1				
3B. Anthracene (120-12-7)			X	N.D. <10.0						1	ug/1				
4B. Benzidine (92-87-5)			X	N.D. <25.0						1	ug/1				
5B. Benzo (a) Anthracene (56-55-3)			X	N.D. <10.0						1	ug/1				
6B. Benzo (a) Pyrene (50-32-8)			X	N.D. <10.0						1	ug/1				
7B. 3,4-Benzo-fluoranthene (205-99-2)			X	N.D. <10.0						1	ug/1				
8B. Benzo (ghi) Perylene (191-24-2)			X	N.D. <10.0						1	ug/1				
9B. Benzo (k) Fluoranthene (207-08-9)			X	N.D. <10.0						1	ug/1				
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)			X	N.D. <10.0						1	ug/1				
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)			X	N.D. <10.0						1	ug/1				
12B Bis (2-Chloroiso-propyl) Ether (102-60-1)			X	N.D. <10.0						1	ug/1				
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)			X	N.D. <10.0						1	ug/1				
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)			X	N.D. <10.0						1	ug/1				
15B. Butyl Benzyl Phthalate (85-68-7)			X	N.D. <10.0						1	ug/1				
16B. 2-Chloro-naphthalene (91-58-7)			X	N.D. <10.0						1	ug/1				
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X	N.D. <10.0						1	ug/1				
18B. Chrysene (218-01-9)			X	N.D. <10.0						1	ug/1				
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	N.D. <10.0						1	ug/1				
20B. 1,2-Dichloro-benzene (95-50-1)			X	10.0	Result is at detection limit and is not believed present.					1	ug/1		N.D. <1.0		7
21B. 1,3-Dichloro-benzene (541-73-1)			X	N.D. <10.0						1	ug/1		N.D. <1.0		7

AR202077

EPA I.D. NUMBER (copy from Item 1 of Form 1): DED980830400 | OUTFALL NUMBER: 001

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. STATE REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)			X	N.D. <10.0						1	ug/1		N.D. <1.0		7
23B. 3,3'-Dichlorobenzidine (91-94-1)			X	N.D. <25.0						1	ug/1				
24B. Diethyl Phthalate (84-66-2)			X	N.D. <10.0						1	ug/1				
25B. Dimethyl Phthalate (131-11-3)			X	N.D. <10.0						1	ug/1				
26B. Di-N-Butyl Phthalate (84-74-2)			X	N.D. <10.0						1	ug/1				
27B. 2,4-Dinitrotoluene (121-14-2)			X	N.D. <10.0						1	ug/1				
28B. 2,6-Dinitrotoluene (606-20-2)			X	N.D. <10.0						1	ug/1				
29B. Di-N-Octyl Phthalate (117-84-0)			X	N.D. <10.0						1	ug/1				
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X	N.D. <10.0						1	ug/1				
31B. Fluoranthene (206-44-0)			X	N.D. <10.0						1	ug/1				
32B. Fluorene (86-73-7)			X	N.D. <10.0						1	ug/1				
33B. Hexachlorobenzene (118-74-1)			X	N.D. <10.0						1	ug/1				
34B. Hexachlorobutadiene (87-68-3)			X	N.D. <10.0						1	ug/1				
35B. Hexachlorocyclopentadiene (77-47-4)			X	N.D. <10.0						1	ug/1				
36B. Hexachloroethane (67-72-1)			X	N.D. <10.0						1	ug/1				
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	N.D. <10.0						1	ug/1				
38B. Isophorone (78-59-1)			X	N.D. <10.0						1	ug/1				
39B. Naphthalene (91-20-3)			X	N.D. <10.0						1	ug/1				
40B. Nitrobenzene (98-95-3)			X	N.D. <10.0						1	ug/1				
41B. N-Nitrosodimethylamine (62-75-9)			X	N.D. <10.0						1	ug/1				
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X	N.D. <10.0						1	ug/1				

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X	N.D. <10.0						1	ug/1				
44B. Phenanthrene (85-01-8)			X	N.D. <10.0						1	ug/1				
45B. Pyrene (129-00-0)			X	N.D. <10.0						1	ug/1				
46B. 1,2,4 - Trichlorobenzene (120-82-1)			X	N.D. <10.0						1	ug/1				
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00 2)			X	N.D. <0.05						1	ug/1				
2P. α BHC (319 84 6)			X	N.D. <0.05						1	ug/1				
3P. β-BHC (319-85 7)			X	N.D. <0.05						1	ug/1				
4P. γ-BHC (58 89-9)			X	N.D. <0.05						1	ug/1				
5P. δ-BHC (319 86-8)			X	N.D. <0.05						1	ug/1				
6P. Chlordane (57 74-9)			X	N.D. <0.1						1	ug/1				
7P. 4,4'-DDT (50 29-3)			X	N.D. <0.02						1	ug/1				
8P. 4,4' DDE (72 55-9)			X	N.D. <0.02						1	ug/1				
9P. 4,4'-DDD (72-54-8)			X	N.D. <0.02						1	ug/1				
10P. Dieldrin (60-57-1)			X	N.D. <0.02						1	ug/1				
11P. α-Endosulfan (115-29-7)			X	N.D. <0.02						1	ug/1				
12P. β-Endosulfan (115-29-7)			X	N.D. <0.02						1	ug/1				
13P. Endosulfan Sulfate (1031-07-8)			X	N.D. <0.1						1	ug/1				
14P. Endrin (72-20-8)			X	N.D. <0.02						1	ug/1				
15P. Endrin Aldehyde (7421-93 4)			X	N.D. <0.2						1	ug/1				
16P Heptachlor (76 44 8)			X	N.D. <0.05						1	ug/1				

AR202079

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	001

Form Approved
OMB No 2040 0086
Approval expires 7 31 88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION — PESTICIDES *(continued)*															
17P. Heptachlor Epoxide (1024-57-3)			X	N.D. <0.05						1	ug/1				
18P. PCB-1242 (53469-21-9)			X	N.D. <2.0						1	ug/1				
19P. PCB-1254 (11097-69-1)			X	N.D. <2.0						1	ug/1				
20P. PCB-1221 (11104-28-2)			X	N.D. <2.0						1	ug/1				
21P. PCB-1232 (11141-16-5)			X	N.D. <2.0						1	ug/1				
22P. PCB-1248 (12672-29-6)			X	N.D. <2.0						1	ug/1				
23P. PCB-1260 (11096-82-5)			X	N.D. <2.0						1	ug/1				
24P. PCB-1016 (12674-11-2)			X	N.D. <2.0						1	ug/1				
25P. Toxaphene (8001-35-2)			X	N.D. <2.0						1	ug/1				

AR202080

SECTION V - PART A - #4(INTAKE)

		INTAKE WATER			
		Purchased Water	No. of Analyses	Treated Creek Water	No. of Analyses
(a)	BOD_5	7 mg/L	1	10 mg/L	1
(b)	COD	11 mg/l	1	8 mg/L	1
(c)	TOC	20 mg/L max.	1	16 mg/L	1
(d)	TSS	63.4 mg/L	13	29.2 mg/L	12
(e)	NH_3	0.17 mg/L	1	0.50 mg/L	1
(f)	Flow	0-0.35 MMGD	-	0-0.35 MMGD	-
(g)	Temp. Winter	Not Measured	-	Not Measured	-
(h)	Temp. Summer	Not Measured	-	Not Measured	-

Note: Individual intake flows are not metered or measured and mass cannot be calculated.

ATTACHMENT

NPDES: STORM WATER OUTFALLS SAMPLE RESULTS' SUMMARY

AR202082

Stormwater Outfall No.	Date Sample Taken	Concentrations, in mg/l: Biological Oxygen Demand (BOD)	Chemical Oxygen Demand (COD)	Total Organic Carbon (TOC)	Total Suspended Solids (TSS)	Ammonia (as N)	Chromium, Total (Cr)	Copper, Total (Cu)	pH	Temperature °F	Temperature °C
002	8/5/81	<6.0	31	11	14	0.46	<0.05	0.07			
	1/4/82	6.9	23	10	26	<0.28	<0.05	0.07	6.9	44	7
	2/19/82	<6.0	78	14	130	0.11	0.06	<0.05			
	4/26/82	<6.0	33	8	64	0.11	<0.05	0.07	6.8	66	19
003	8/5/82	11	41	12	11	1.5	<0.05	0.11			
	1/4/82	6.6	31	10	23	0.34	<0.05	0.09	6.9	44	7
	4/26/82	6.0	14	7	9	1.5	<0.05	0.06	6.8	66	19
004	4/26/82	<12	18	18	55	1.4	0.06	0.09	5.7	68	20
005	4/26/82	<6.0	25	14	33	0.45	<0.05	0.07	5.4	68	20
006	1/4/82	<6.0	15	5	69	<0.11	<0.05	<0.05	6.6	44	7
	4/26/82	<6.0	53	13	94	0.11	0.06	0.06	7.3	68	20
007	Outfall Closed	NO DATA. OUTFALL CLOSED PERMANENTLY									
008	8/5/81	<6.0	19	4	6	0.23	<0.05	<0.05			
	1/4/82	<6.0	35	10	72	<0.28	<0.05	<0.05	6.5	44	7
	2/19/82	<6.0	21	6	25	0.11	<0.05	0.10			
	4/26/82	<6.0	25	10	44	0.23	<0.05	<0.05	6.6	66	19
009	----	NO DATA. SIMILAR TO OTHER OUTFALLS.									

Where the symbol < appears, this indicates the lower detection limit.

All samples are grab samples.

OUTFALL NO. 002

ORIGINAL (Red)

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

ORIGINAL (Typed)

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: DED980830400

Form Approved OMB No 2040-0086 Approval expires 7-31-88

202084

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO: 002

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE (optional) b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	7	N/A	N/A	N/A	N/A	N/A	4	mg/1	---	N/A	N/A	---
b. Chemical Oxygen Demand *(COD)*	78	N/A	N/A	N/A	N/A	N/A	4	mg/1	---	N/A	N/A	---
c. Total Organic Carbon *(TOC)*	14	N/A	N/A	N/A	N/A	N/A	4	mg/1	---	N/A	N/A	---
d. Total Suspended Solids *(TSS)*	130	N/A	N/A	N/A	N/A	N/A	4	mg/1	---	N/A	N/A	---
e. Ammonia *(as N)*	0.5	N/A	N/A	N/A	N/A	N/A	4	mg/1	---	N/A	N/A	---
f. Flow	VALUE N/A		VALUE N/A		VALUE N/A		---	---	---	VALUE ---		---
g. Temperature *(winter)*	VALUE 7°C.		VALUE N/A		VALUE N/A		1	°C		VALUE N/A		---
h. Temperature *(summer)*	VALUE 19°C.		VALUE N/A		VALUE N/A		1	°C		VALUE N/A		---
i. pH	MINIMUM 6.8	MAXIMUM 6.9	MINIMUM N/A	MAXIMUM N/A			2	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X							0					
b. Chlorine, Total Residual		X							0					
c. Color		X							0					
d. Fecal Coliform		X							0					
e. Fluoride (16984-48-8)		X							0					
f. Nitrate–Nitrite *(as N)*	(1)		(1) Believed to be present in rainwater or [illegible]ment carried into river by rainwater.						0					

CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (If available)	2. MARK 'X' a. PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (If available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (If available) (2) MASS	c. LONG TERM AVRG. VALUE (If available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (If available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)		X							0					
h. Oil and Grease		X							0					
i. Phosphorus (as P), Total (7723-14-0)		X							0					
j. Radioactivity														
(1) Alpha, Total		X							0					
(2) Beta, Total		X							0					
(3) Radium, Total		X							0					
(4) Radium 226, Total		X							0					
k. Sulfate (as SO_4) (14808-79-8)	(1) X		(1) Believed to be present in rainwater or sediment carried into river by rainwater.						0					
l. Sulfide (as S)		X							0					
m. Sulfite (as SO_3) (14265-45-3)		X							0					
n. Surfactants		X							0					
o. Aluminum, Total (7429-90-5)	(1) X								0					
p. Barium, Total (7440-39-3)		X							0					
q. Boron, Total (7440-42-8)		X							0					
r. Cobalt, Total (7440-48-4)		X							0					
s. Iron, Total (7439-89-6)	(1) X								0					
t. Magnesium, Total (7439-95-4)		X							0					
u. Molybdenum, Total (7439-98-7)		X							0					
v. Manganese, Total (7439-96-5)		X							0					
w. Tin, Total (7440-31-5)		X							0					
x. Titanium, Total (7440-32-6)		X							0					

AR202085

ORIGINAL (Red)

CONTINUED FROM PAGE 3 OF FORM 2-C

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	002

Form Approved
OMB No 2040-0086
Approval expires 7-31-88

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X							0					
2M. Arsenic, Total (7440-38-2)			X							0					
3M. Beryllium, Total, 7440-41-7)			X							0					
4M. Cadmium, Total (7440-43-9)			X							0					
5M. Chromium, Total (7440-47-3)		X		0.06	N/A	N/A	N/A	N/A	N/A	4	mg/1				
6M. Copper, Total (7440-50-8)		X		0.07	N/A	N/A	N/A	N/A	N/A	4	mg/1				
7M. Lead, Total (7439-92-1)			X							0					
8M. Mercury, Total (7439-97-6)			X							0					
9M. Nickel, Total (7440-02-0)			X							0					
10M. Selenium, Total (7782-49-2)			X							0					
11M. Silver, Total (7440-22-4)			X							0					
12M. Thallium, Total (7440-28-0)			X							0					
13M. Zinc, Total (7440-66-6)			X							0					
14M. Cyanide, Total (57-12-5)			X							0					
15M. Phenols, Total			X							0					
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P Dioxin (1764-01			X	DESCRIBE RESULTS											

AR202086

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X							0					
2V. Acrylonitrile (107-13-1)			X							0					
3V. Benzene (71-43-2)			X							0					
4V. Bis (Chloromethyl) Ether (542-88-1)			X							0					
5V. Bromoform (75-25-2)			X							0					
6V. Carbon Tetrachloride (56-23-5)			X							0					
7V. Chlorobenzene (108-90-7)			X							0					
8V. Chlorodibromomethane (124-48-1)			X							0					
9V. Chloroethane (75-00-3)			X							0					
10V. 2-Chloroethylvinyl Ether (110-75-8)			X							0					
11V. Chloroform (67-66-3)			X							0					
12V. Dichlorobromomethane (75-27-4)			X							0					
13V. Dichlorodifluoromethane (75-71-8)			X							0					
14V. 1,1-Dichloroethane (75-34-3)			X							0					
15V. 1,2-Dichloroethane (107-06-2)			X							0					
16V. 1,1-Dichloroethylene (75-35-4)			X							0					
17V. 1,2 Dichloropropane (78-87-5)			X							0					
18V. 1,3-Dichloropropylene (542-75-6)			X							0					
19V. Ethylbenzene (100-41-4)			X							0					
20V. Methyl Bromide (74-83-9)			X							0					
21V. Methyl Chloride (74-87-3)			X							0					

AR202087

OUTFALL NO. 002

CONTINUED FROM PAGE V-4

EPA I.D. NUMBER (copy from Item 1 of Form 1): DED980830400 | OUTFALL NUMBER: 002

Form Approved
OMB No 2040-0086
Approval expires 7-31 88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TEST-ING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X							0					
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X							0					
24V. Tetrachloroethylene (127-18-4)		(1) X		(1) Believe may be present, but only at levels equal to or less than in Outfall 001.						0					
25V. Toluene (108-88-3)			X							0					
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X							0					
27V. 1,1,1-Trichloroethane (71-55-6)			X							0					
28V. 1,1,2-Trichloroethane (79-00-5)			X							0					
29V. Trichloroethylene (79-01-6)			X							0					
30V. Trichlorofluoromethane (75-69-4)			X							0					
31V. Vinyl Chloride (75-01-4)			X							0					
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2 Chlorophenol (95 57-8)			X							0					
2A. 2,4-Dichlorophenol (120-83 2)			X							0					
3A. 2,4-Dimethylphenol (105 67-9)			X							0					
4A 4,6-Dinitro-O-Cresol (534-52-1)			X							0					
5A. 2,4-Dinitrophenol (51-28-5)			X							0					
6A. 2-Nitrophenol (88-75-5)			X							0					
7A. 4-Nitrophenol (100 02-7)			X							0					
8A. P-Chloro-M-Cresol (59-50-7)			X							0					
9A. Pentachlorophenol (87-86-5)			X							0					
10A. Phenol (108 95 2)			X							0					
11A. 2,4,6 Trichlorophenol (88 06-2)			X							0					

AR202088

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	MARK 'X' a. REQUIRED	b. PRESENT	c. ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)		ORIGINAL (Red)	X							0					
2B. Acenaphtylene (208-96-8)			X							0					
3B. Anthracene (120-12-7)			X							0					
4B. Benzidine (92-87-5)			X							0					
5B. Benzo *(a)* Anthracene (56-55-3)			X							0					
6B. Benzo *(a)* Pyrene (50-32-8)			X							0					
7B. 3,4-Benzo-fluoranthene (205-99-2)			X							0					
8B. Benzo *(ghi)* Perylene (191-24-2)			X							0					
9B. Benzo *(k)* Fluoranthene (207-08-9)			X							0					
10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1)			X							0					
11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4)			X							0					
12B. Bis *(2-Chloroiso-propyl)* Ether (102-80-1)			X							0					
13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7)			X							0					
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)			X							0					
15B. Butyl Benzyl Phthalate (85-68-7)			X							0					
16B. 2-Chloro-naphthalene (91-58-7)			X							0					
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X							0					
18B. Chrysene (218-01-9)			X							0					
19B. Dibenzo *(a,h)* Anthracene (53-70-3)			X							0					
20B. 1,2-Dichloro-benzene (95-50-1)			X							0					
21B. 1,3-Dichloro-benzene (541-73-1)			X							0					

AR202089

OUTFALL NO. 002

CONTINUED FROM PAGE V-6

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	002

Form Approved
OMB No 2040-0086
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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)			X							0					
23B. 3,3'-Dichlorobenzidine (91-94-1)			X							0					
24B. Diethyl Phthalate (84-66-2)			X							0					
25B. Dimethyl Phthalate (131-11-3)			X							0					
26B. Di-N-Butyl Phthalate (84-74-2)			X							0					
27B. 2,4-Dinitrotoluene (121-14-2)			X							0					
28B. 2,6-Dinitrotoluene (606-20-2)			X							0					
29B. Di-N-Octyl Phthalate (117-84-0)			X							0					
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X							0					
31B. Fluoranthene (206-44-0)			X							0					
32B. Fluorene (86-73-7)			X							0					
33B. Hexachlorobenzene (118-74-1)			X							0					
34B. Hexachlorobutadiene (87-68-3)			X							0					
35B. Hexachlorocyclopentadiene (77-47-4)			X							0					
36B. Hexachloroethane (67-72-1)			X							0					
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X							0					
38B. Isophorone (78-59-1)			X							0					
39B. Naphthalene (91-20-3)			X							0					
40B. Nitrobenzene (98-95-3)			X							0					
41B. N-Nitrosodimethylamine (62-75-9)			X							0					
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X							0					

AR202090

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	MARK 'X' a. REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)		ORIGINAL (Red)	X							0					
44B. Phenanthrene (85-01-8)			X							0					
45B. Pyrene (129-00-0)			X							0					
46B. 1,2,4 - Trichlorobenzene (120-82-1)			X							0					
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00 2)			X							0					
2P. α-BHC (319-84-6)			X							0					
3P. β-BHC (319-85-7)			X							0					
4P. γ-BHC (58 89-9)			X							0					
5P. δ-BHC (319-86-8)			X							0					
6P. Chlordane (57-74 9)			X							0					
7P. 4,4'-DDT (50 29-3)			X							0					
8P. 4,4'-DDE (72-55-9)			X							0					
9P. 4,4'-DDD (72-54-8)			X							0					
10P. Dieldrin (60-57-1)			X							0					
11P. α-Endosulfan (115-29-7)			X							0					
12P. β-Endosulfan (115-29-7)			X							0					
13P. Endosulfan Sulfate (1031-07-8)			X							0					
14P. Endrin (72-20-8)			X							0					
15P. Endrin Aldehyde (7421-93-4)			X							0					
16P. Heptachlor (76 44 8)			X							0					

AR202091

OUTFALL NO. 002

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – PESTICIDES *(continued)*															
17P. Heptachlor Epoxide (1024-57-3)			X							0					
18P. PCB-1242 (53469-21-9)			X							0					
19P. PCB-1254 (11097-69-1)			X							0					
20P. PCB-1221 (11104-28-2)			X							0					
21P. PCB-1232 (11141-16-5)			X							0					
22P. PCB-1248 (12672-29-6)			X							0					
23P. PCB-1260 (11096-82-5)			X							0					
24P. PCB-1016 (12674-11-2)			X							0					
25P. Toxaphene (8001-35-2)			X							0					

OUTFALL NO. 003

ORIGINAL (Red)

AR202093

ORIGINAL (Red)

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: DED980830400

Form Approved OMB No 2040-0086 Approval expires 7 31 88

NPDES 0020095

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO: 003

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	11	N/A	N/A	N/A	N/A	N/A	3	mg/1	---	N/A	N/A	---
b. Chemical Oxygen Demand *(COD)*	41	N/A	N/A	N/A	N/A	N/A	3	mg/1	---	N/A	N/A	---
c. Total Organic Carbon *(TOC)*	12	N/A	N/A	N/A	N/A	N/A	3	mg/1	---	N/A	N/A	---
d. Total Suspended Solids *(TSS)*	23	N/A	N/A	N/A	N/A	N/A	3	mg/1	---	N/A	N/A	---
e. Ammonia *(as N)*	1.5	N/A	N/A	N/A	N/A	N/A	3	mg/1	---	N/A	N/A	---
f. Flow	VALUE N/A		VALUE N/A		VALUE N/A		---	---	---	VALUE ---		---
g. Temperature *(winter)*	VALUE 7°C.		VALUE N/A		VALUE N/A		1	°C		VALUE N/A		---
h. Temperature *(summer)*	VALUE 19°C.		VALUE N/A		VALUE N/A		1	°C		VALUE N/A		---
i. pH	MINIMUM 6.8	MAXIMUM 6.9	MINIMUM N/A	MAXIMUM N/A			2	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X							0					
b. Chlorine, Total Residual		X							0					
c. Color		X							0					
d. Fecal Coliform		X							0					
e. Fluoride (16984-48-8)		X							0					
f. Nitrate-Nitrite *(as N)*	(1)		(1) Believed to be present in rainwater or sediment carried into river by rainwater.						0					

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (If available)	2. MARK 'X' a. PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (If available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (If available) (2) MASS	c. LONG TERM AVRG. VALUE (If available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (If available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)		X							0					
h. Oil and Grease		X							0					
i. Phosphorus (as P), Total (7723-14-0)		X							0					
j. Radioactivity														
(1) Alpha, Total		X							0					
(2) Beta, Total		X							0					
(3) Radium, Total		X							0					
(4) Radium 226, Total		X							0					
k. Sulfate (as SO_4) (14808-79-8)	(1) X		(1) Believed to be present in rainwater or sediment carried into river by rainwater.						0					
l. Sulfide (as S)		X							0					
m. Sulfite (as SO_3) (14265-45-3)		X							0					
n. Surfactants		X							0					
o. Aluminum, Total (7429-90-5)	(1) X								0					
p. Barium, Total (7440-39-3)		X							0					
q. Boron, Total (7440-42-8)		X							0					
r. Cobalt, Total (7440-48-4)		X							0					
s. Iron, Total (7439-89-6)	(1) X								0					
t. Magnesium, Total (7439-95-4)		X							0					
u. Molybdenum, Total (7439-98-7)		X							0					
v. Manganese, Total (7439-96-5)		X							0					
w. Tin, Total (7440-31-5)		X							0					
x. Titanium, Total (7440-32-6)		X							0					

ORIGINAL (Typed)

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	003

Form Approved
OMB No 2040-0086
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CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TEST(ING) REQUIRED	2. MARK 'X' b. BELIEVED PRESENT	2. MARK 'X' c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X							0					
2M. Arsenic, Total (7440-38-2)			X							0					
3M. Beryllium, Total, 7440-41-7)			X							0					
4M. Cadmium, Total (7440-43-9)			X							0					
5M. Chromium, Total (7440-47-3)		X		<0.05	N/A	N/A	N/A	N/A	N/A	3	mg/l				
6M. Copper, Total (7440-50-8)		X		0.11	N/A	N/A	N/A	N/A	N/A	3	mg/l				
7M. Lead, Total (7439-92-1)			X							0					
8M. Mercury, Total (7439-97-6)			X							0					
9M. Nickel, Total (7440-02-0)			X							0					
10M. Selenium, Total (7782-49-2)			X							0					
11M. Silver, Total (7440-22-4)			X							0					
12M. Thallium, Total (7440-28-0)			X							0					
13M. Zinc, Total (7440-66-6)			X							0					
14M. Cyanide, Total (57-12-5)			X							0					
15M. Phenols, Total			X							0					
DIOXIN															
2,3,7,8 Tetrachlorodibenzo-P Dioxin (1764-01 6			X	DESCRIBE RESULTS											

AR202096

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION — VOLATILE COMPOUNDS															
1V. Acrolein (107 02-8)			X							0					
2V. Acrylonitrile (107-13-1)			X							0					
3V. Benzene (71-43-2)			X							0					
4V. Bis (*Chloromethyl*) Ether (542-88-1)			X							0					
5V. Bromoform (75 25-2)			X							0					
6V. Carbon Tetrachloride (56-23-5)			X							0					
7V. Chlorobenzene (108 90-7)			X							0					
8V. Chlorodibromomethane (124-48 1)			X							0					
9V. Chloroethane (75 00-3)			X							0					
10V. 2-Chloroethylvinyl Ether (110-75-8)			X							0					
11V. Chloroform (67-66-3)			X							0					
12V. Dichlorobromomethane (75-27-4)			X							0					
13V. Dichlorodifluoromethane (75-71-8)			X							0					
14V. 1,1-Dichloroethane (75-34-3)			X							0					
15V. 1,2-Dichloroethane (107-06-2)			X							0					
16V. 1,1 Dichloroethylene (75 35-4)			X							0					
17V. 1,2-Dichloropropane (78 87 5)			X							0					
18V 1,3 Dichloropropylene (542-75-6)			X							0					
19V Ethylbenzene (100 41 4)			X							0					
20V Methyl Bromide (74 83 9)			X							0					
21V Methyl Chloride (74 87 3)			X							0					

OUTFALL NO. 003

CONTINUED FROM PAGE V-4

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	003

Form Approved
OMB No 2040-0086
Approval expires 7 31 88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X							0					
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X							0					
24V. Tetrachloroethylene (127-18-4)		(1) X		(1) Believe may be present, but only at levels equal to or less than in Outfall 001.						0					
25V. Toluene (108-88-3)			X							0					
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X							0					
27V. 1,1,1-Trichloroethane (71-55-6)			X							0					
28V. 1,1,2-Trichloroethane (79-00-5)			X							0					
29V. Trichloroethylene (79-01-6)			X							0					
30V. Trichlorofluoromethane (75-69-4)			X							0					
31V. Vinyl Chloride (75-01-4)			X							0					
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2 Chlorophenol (95 57 8)			X							0					
2A. 2,4-Dichlorophenol (120-83 2)			X							0					
3A. 2,4 Dimethyl phenol (105-67-9)			X							0					
4A 4,6-Dinitro O Cresol (534-52-1)			X							0					
5A. 2,4 Dinitrophenol (51-28-5)			X							0					
6A. 2-Nitrophenol (88-75-5)			X							0					
7A. 4-Nitrophenol (100 02-7)			X							0					
8A. P-Chloro-M-Cresol (59-50-7)			X							0					
9A. Pentachlorophenol (87-86-5)			X							0					
10A. Phenol (108 95 2)			X							0					
11A. 2,4,6-Trichlorophenol (88 06-2)			X							0					

AR202098

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X							0					
2B. Acenaphtylene (208-96-8)			X							0					
3B. Anthracene (120-12-7)			X							0					
4B. Benzidine (92-87-5)			X							0					
5B. Benzo (a) Anthracene (56-55-3)			X							0					
6B. Benzo (a) Pyrene (50-32-8)			X							0					
7B. 3,4-Benzo-fluoranthene (205-99-2)			X							0					
8B. Benzo (ghi) Perylene (191-24-2)			X							0					
9B. Benzo (k) Fluoranthene (207-08-9)			X							0					
10B. Bis (2-Chloroethoxy) Methane (111-91-1)			X							0					
11B. Bis (2-Chloroethyl) Ether (111-44-4)			X							0					
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X							0					
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X							0					
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X							0					
15B. Butyl Benzyl Phthalate (85-68-7)			X							0					
16B. 2-Chloronaphthalene (91-58-7)			X							0					
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X							0					
18B. Chrysene (218-01-9)			X							0					
19B. Dibenzo (a,h) Anthracene (53-70-3)			X							0					
20B. 1,2-Dichlorobenzene (95-50-1)			X							0					
21B. 1,3-Dichlorobenzene (541-73-1)			X							0					

ORIGINAL (Red)

AR202099

CONTINUED FROM PAGE V-6

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	003

Form Approved
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1. POLLUTANT AND CAS NUMBER (If available)	2. MARK 'X' a. TESTING REQUIRED	2. MARK 'X' b. BELIEVED PRESENT	2. MARK 'X' c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (If available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (If available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (If available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (If available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)			X							0					
23B. 3,3'-Dichlorobenzidine (91-94-1)			X							0					
24B. Diethyl Phthalate (84-66-2)			X							0					
25B. Dimethyl Phthalate (131-11-3)			X							0					
26B. Di-N-Butyl Phthalate (84-74-2)			X							0					
27B. 2,4-Dinitrotoluene (121-14-2)			X							0					
28B. 2,6-Dinitrotoluene (606-20-2)			X							0					
29B. Di-N-Octyl Phthalate (117-84-0)			X							0					
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X							0					
31B. Fluoranthene (206-44-0)			X							0					
32B. Fluorene (86-73-7)			X							0					
33B. Hexachlorobenzene (118-74-1)			X							0					
34B. Hexachlorobutadiene (87-68-3)			X							0					
35B. Hexachlorocyclopentadiene (77-47-4)			X							0					
36B. Hexachloroethane (67-72-1)			X							0					
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X							0					
38B. Isophorone (78-59-1)			X							0					
39B. Naphthalene (91-20-3)			X							0					
40B. Nitrobenzene (98-95-3)			X							0					
41B. N-Nitrosodimethylamine (62-75-9)			X							0					
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X							0					

ORIGINAL (Red)

AR202100

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X							0					
44B. Phenanthrene (85-01-8)			X							0					
45B. Pyrene (129-00-0)			X							0					
46B. 1,2,4 - Trichlorobenzene (120-82-1)			X							0					
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00 2)			X							0					
2P. α-BHC (319 84-6)			X							0					
3P. β-BHC (319 85 7)			X							0					
4P γ BHC (58 89-9)			X							0					
5P. δ BHC (: 19 86 8)			X							0					
6P. Chlordane (57 74 9)			X							0					
7P. 4,4'-DDT (50-29 3)			X							0					
8P. 4,4'-DDE (72-55-9)			X							0					
9P. 4,4'-DDD (72-54-8)			X							0					
10P. Dieldrin (60-57 1)			X							0					
11P. α-Endosulfan (115-29-7)			X							0					
12P. β-Endosulfan (115-29-7)			X							0					
13P. Endosulfan Sulfate (1031-07-8)			X							0					
14P. Endrin (72-20-8)			X							0					
15P. Endrin Aldehyde (7421 93 4)			X							0					
16P Heptachlor (76 44 8)			X							0					

AR202101

OUTFALL NO. 003

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	003

Form Approved
OMB No 2040 0086
Approval expires 7 31 88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK X			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X							0					
18P. PCB-1242 (53469-21-9)			X							0					
19P. PCB-1254 (11097-69-1)			X							0					
20P. PCB-1221 (11104-28-2)			X							0					
21P. PCB-1232 (11141-16-5)			X							0					
22P. PCB-1248 (12672-29-6)			X							0					
23P. PCB-1260 (11096-82-5)			X							0					
24P. PCB-1016 (12674-11-2)			X							0					
25P. Toxaphene (8001-35-2)			X							0					

AR202102

ORIGINAL
(Red)

OUTFALL NO. 004

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: DED980830400

Form Approved OMB No 2040 0086 Approval expires 7 31 88

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO: 004

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	2. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	2. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	2. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	2. EFFLUENT d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE (optional) b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	<12	N/A	N/A	N/A	N/A	N/A	1	mg/l	---	N/A	N/A	---
b. Chemical Oxygen Demand *(COD)*	18	N/A	N/A	N/A	N/A	N/A	1	mg/l	---	N/A	N/A	---
c. Total Organic Carbon *(TOC)*	18	N/A	N/A	N/A	N/A	N/A	1	mg/l	---	N/A	N/A	---
d. Total Suspended Solids *(TSS)*	55	N/A	N/A	N/A	N/A	N/A	1	mg/l	---	N/A	N/A	---
e. Ammonia *(as N)*	1.4	N/A	N/A	N/A	N/A	N/A	1	mg/l	---	N/A	N/A	---
f. Flow.	VALUE N/A		VALUE N/A		VALUE N/A		---	---	---	VALUE ---		---
g. Temperature *(winter)*	VALUE NO DATA		VALUE N/A		VALUE N/A		0	°C		VALUE N/A		---
h. Temperature *(summer)*	VALUE 20°C.		VALUE N/A		VALUE N/A		1	°C		VALUE N/A		---
i. pH	MINIMUM 5.7	MAXIMUM 5.7	MINIMUM N/A	MAXIMUM N/A			1	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X							0					
b. Chlorine, Total Residual		X							0					
c. Color		X							0					
d. Fecal Coliform		X							0					
e. Fluoride (16984 48-8)		X							0					
f. Nitrate-Nitrite (as N)	(1) X		(1) Believed to be present in rainwater into river by rainwater.				or sediment carried		0					

AR201014

ITEM V-B CONT D FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)		X							0					
h. Oil and Grease		X							0					
i. Phosphorus (as P), Total (7723-14-0)		X							0					
j. Radioactivity														
(1) Alpha, Total		X							0					
(2) Beta, Total		X							0					
(3) Radium, Total		X							0					
(4) Radium 226, Total		X							0					
k. Sulfide (as SO_4) (14808-79-8)	(1) X		(1) Believed to be present in rainwater or sediment carried into river by rainwater.						0					
l. Sulfide (as S)		X							0					
m. Sulfite (as SO_3) (14265-45-3)		X							0					
n. Surfactants		X							0					
o. Aluminum, Total (7429-90-5)	(1) X								0					
p. Barium, Total (7440-39-3)		X							0					
q. Boron, Total (7440-42-8)		X							0					
r. Cobalt, Total (7440-48-4)		X							0					
s. Iron, Total (7439-89-6)	(1) X								0					
t. Magnesium, Total (7439-95-4)		X							0					
u. Molybdenum, Total (7439-98-7)		X							0					
v. Manganese, Total (7439-96-5)		X							0					
w. Tin, Total (7440-31-5)		X							0					
x. Titanium, Total (7440-32-6)		X							0					

PR0210S

OUTFALL NO. 004

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	004

Form Approved
OMB No 2040-0086
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CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (If available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (If available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (If available) (2) MASS	c. LONG TERM AVRG. VALUE (If available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (If available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X							0					
2M. Arsenic, Total (7440-38-2)			X							0					
3M. Beryllium, Total, 7440-41-7)			X							0					
4M. Cadmium, Total (7440-43-9)			X							0					
5M. Chromium, Total (7440-47-3)		X		0.06	N/A	N/A	N/A	N/A	N/A	1	mg/l				
6M. Copper, Total (7440-50-8)		X		0.09	N/A	N/A	N/A	N/A	N/A	1	mg/l				
7M. Lead, Total (7439-92-1)			X							0					
8M. Mercury, Total (7439-97-6)			X							0					
9M. Nickel, Total (7440-02-0)			X							0					
10M. Selenium, Total (7782-49-2)			X							0					
11M. Silver, Total (7440-22-4)			X							0					
12M. Thallium, Total (7440-28-0)			X							0					
13M. Zinc, Total (7440-66-6)			X							0					
14M. Cyanide, Total (57-12-5)			X							0					
15M. Phenols, Total			X							0					
DIOXIN															
2,3,7,8 Tetrachlorodibenzo-P Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

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EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	005

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OMB No 2040 0086
Approval expires 7 31 88

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (If available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (If available)		c. LONG TERM AVRG. VALUE (If available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X							0					
2M. Arsenic, Total (7440-38-2)			X							0					
3M. Beryllium, Total, 7440-41-7)			X							0					
4M. Cadmium, Total (7440-43-9)			X							0					
5M. Chromium, Total (7440-47-3)		X		<0.05	N/A	N/A	N/A	N/A	N/A	1	mg/l				
6M. Copper, Total (7440-50-8)		X		0.07	N/A	N/A	N/A	N/A	N/A	1	mg/l				
7M. Lead, Total (7439-92-1)			X							0					
8M. Mercury, Total (7439-97-6)			X							0					
9M. Nickel, Total (7440-02-0)			X							0					
10M. Selenium, Total (7782-49-2)			X							0					
11M. Silver, Total (7440-22-4)			X							0					
12M. Thallium, Total (7440-28-0)			X							0					
13M. Zinc, Total (7440-66-6)			X							0					
14M. Cyanide, Total (57-12-5)			X							0					
15M. Phenols, Total			X							0					
DIOXIN															
2,3,7,8 Tetrachlorodibenzo P Dioxin (1764 01 6)			X	DESCRIBE RESULTS											

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EPA Form 3510 2C (Rev. 2-85) PAGE CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X							0					
2V. Acrylonitrile (107-13-1)			X							0					
3V. Benzene (71-43-2)			X							0					
4V. Bis (*Chloromethyl*) Ether (542-88-1)			X							0					
5V. Bromoform (75-25-2)			X							0					
6V. Carbon Tetrachloride (56-23-5)			X							0					
7V. Chlorobenzene (108-90-7)			X							0					
8V. Chlorodibromomethane (124-48-1)			X							0					
9V. Chloroethane (75-00-3)			X							0					
10V. 2-Chloroethylvinyl Ether (110-75-8)			X							0					
11V. Chloroform (67-66-3)			X							0					
12V. Dichlorobromomethane (75-27-4)			X							0					
13V. Dichlorodifluoromethane (75-71-8)			X							0					
14V. 1,1-Dichloroethane (75-34-3)			X							0					
15V. 1,2-Dichloroethane (107-06-2)			X							0					
16V. 1,1-Dichloroethylene (75-35-4)			X							0					
17V. 1,2-Dichloropropane (78-87-5)			X							0					
18V 1,3-Dichloropropylene (542-75-6)			X							0					
19V Ethylbenzene (100-41-4)			X							0					
20V Methyl Bromide (74-83-9)			X							0					
21V. Methyl Chloride (74-87-3)			X							0					

EPA Form 3510-2C (Rev. 2-85)

CONTINUE ON PAGE V-5

OUTFALL NO. 004

CONTINUED FROM F V-4

EPA I.D. NUMBER (copy from Item 1 of Form 1): DED980830400

OUTFALL NUMBER: 004

Form Approved
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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	2. MARK 'X' b. BELIEVED PRESENT	2. MARK 'X' c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X							0					
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X							0					
24V. Tetrachloroethylene (127-18-4)		(1) X		(1) Believe may be present, but only at levels equal to or less than in Outfall 001.						0					
25V. Toluene (108-88-3)			X							0					
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X							0					
27V. 1,1,1-Trichloroethane (71-55-6)			X							0					
28V. 1,1,2-Trichloroethane (79-00-5)			X							0					
29V. Trichloroethylene (79-01-6)			X							0					
30V. Trichlorofluoromethane (75-69-4)			X							0					
31V. Vinyl Chloride (75-01-4)			X							0					
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X							0					
2A. 2,4-Dichlorophenol (120-83-2)			X							0					
3A. 2,4-Dimethylphenol (105-67-9)			X							0					
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X							0					
5A. 2,4-Dinitrophenol (51-28-5)			X							0					
6A. 2-Nitrophenol (88-75-5)			X							0					
7A. 4-Nitrophenol (100-02-7)			X							0					
8A. P-Chloro-M-Cresol (59-50-7)			X							0					
9A. Pentachlorophenol (87-86-5)			X							0					
10A. Phenol (108-95-2)			X							0					
11A. 2,4,6-Trichlorophenol (88-06-2)			X							0					

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EPA Form 3510-2C (Rev. 2-85)

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO OF ANALYSES
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X							0					
2B. Acenaphtylene (208-96-8)			X							0					
3B. Anthracene (120-12-7)			X							0					
4B. Benzidine (92-87-5)			X							0					
5B. Benzo (a) Anthracene (56-55-3)			X							0					
6B. Benzo (a) Pyrene (50-32-8)			X							0					
7B. 3,4-Benzo-fluoranthene (205-99-2)			X							0					
8B. Benzo (ghi) Perylene (191-24-2)			X							0					
9B. Benzo (k) Fluoranthene (207-08-9)			X							0					
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)			X							0					
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)			X							0					
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X							0					
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)			X							0					
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)			X							0					
15B. Butyl Benzyl Phthalate (85-68-7)			X							0					
16B. 2-Chloro-naphthalene (91-58-7)			X							0					
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X							0					
18B. Chrysene (218-01-9)			X							0					
19B. Dibenzo (a,h) Anthracene (53-70-3)			X							0					
20B. 1,2-Dichloro-benzene (95-50-1)			X							0					
21B. 1,3-Dichloro-benzene (541-73-1)			X							0					

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OUTFALL NO. 004

EPA I.D. NUMBER (copy from Item 1 of Form 1): DED980830400

OUTFALL NUMBER: 004

Form Approved
OMB No 2040-0086
Approval expires 7-31 88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
22B. 1,4-Dichlorobenzene (106-46-7)			X							0					
23B. 3,3'-Dichlorobenzidine (91-94-1)			X							0					
24B. Diethyl Phthalate (84-66-2)			X							0					
25B. Dimethyl Phthalate (131-11-3)			X							0					
26B. Di-N-Butyl Phthalate (84-74-2)			X							0					
27B. 2,4-Dinitrotoluene (121-14-2)			X							0					
28B. 2,6-Dinitrotoluene (606-20-2)			X							0					
29B. Di-N-Octyl Phthalate (117-84-0)			X							0					
30B. 1,2-Diphenylhydrazine *(as Azobenzene)* (122-66-7)			X							0					
31B. Fluoranthene (206-44-0)			X							0					
32B. Fluorene (86-73-7)			X							0					
33B. Hexachlorobenzene (118-74-1)			X							0					
34B. Hexachlorobutadiene (87-68-3)			X							0					
35B. Hexachlorocyclopentadiene (77-47-4)			X							0					
36B. Hexachloroethane (67-72-1)			X							0					
37B. Indeno *(1,2,3-cd)* Pyrene (193-39-5)			X							0					
38B. Isophorone (78-59-1)			X							0					
39B. Naphthalene (91-20-3)			X							0					
40B. Nitrobenzene (98-95-3)			X							0					
41B. N-Nitrosodimethylamine (62-75-9)			X							0					
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X							0					

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CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X							0					
44B. Phenanthrene (85-01-8)			X							0					
45B. Pyrene (129-00-0)			X							0					
46B. 1,2,4 - Trichlorobenzene (120-82-1)			X							0					
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X							0					
2P. α-BHC (319 84-6)			X							0					
3P. β-BHC (319-85-7)			X							0					
4P. γ-BHC (58-89-9)			X							0					
5P. δ-BHC (319-86-8)			X							0					
6P. Chlordane (57-74-9)			X							0					
7P. 4,4'-DDT (50-29-3)			X							0					
8P. 4,4'-DDE (72-55-9)			X							0					
9P. 4,4'-DDD (72-54-8)			X							0					
10P. Dieldrin (60-57-1)			X							0					
11P. α-Endosulfan (115-29-7)			X							0					
12P. β-Endosulfan (115-29-7)	AR202112		X							0					
13P. Endosulfan Sulfate (1031-07-8)			X							0					
14P. Endrin (72-20-8)			X							0					
15P. Endrin Aldehyde (7421-93 4)			X							0					
16P. Heptachlor (76 44-8)			X							0					

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	004

Form Approved
OMB No 2040 0086
Approval expires 7 31 88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X							0					
18P. PCB-1242 (53469-21-9)			X							0					
19P. PCB-1254 (11097-69-1)			X							0					
20P. PCB-1221 (11104-28-2)			X							0					
21P. PCB-1232 (11141-16-5)			X							0					
22P. PCB-1248 (12672-29-6)			X							0					
23P. PCB-1260 (11096-82-5)			X							0					
24P. PCB-1016 (12674-11-2)			X							0					
25P. Toxaphene (8001-35-2)			X							0					

OUTFALL NO. 005

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: DED980830400

Form Approved OMB No 2040 0086 Approval expires 7 31 88

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO: 005

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	2. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	2. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	2. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	2. EFFLUENT d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE (optional) b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	< 6	N/A	N/A	N/A	N/A	N/A	1	mg/l	---	N/A	N/A	---
b. Chemical Oxygen Demand *(COD)*	25	N/A	N/A	N/A	N/A	N/A	1	mg/l	---	N/A	N/A	---
c. Total Organic Carbon *(TOC)*	14	N/A	N/A	N/A	N/A	N/A	1	mg/l	---	N/A	N/A	---
d. Total Suspended Solids *(TSS)*	33	N/A	N/A	N/A	N/A	N/A	1	mg/l	---	N/A	N/A	---
e. Ammonia *(as N)*	0.45	N/A	N/A	N/A	N/A	N/A	1	mg/l	---	N/A	N/A	---
f. Flow	VALUE N/A		VALUE N/A		VALUE N/A		---	---	---	VALUE ---		---
g. Temperature *(winter)*	VALUE NO DATA		VALUE N/A		VALUE N/A		0	°C		VALUE N/A		---
h. Temperature *(summer)*	VALUE 20°C.		VALUE N/A		VALUE N/A		1	°C		VALUE N/A		---
i. pH	MINIMUM 5.4	MAXIMUM 5.4	MINIMUM N/A	MAXIMUM N/A			1	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X							0					
b. Chlorine, Total Residual		X							0					
c. Color		X							0					
d. Fecal Coliform		X							0					
e. Fluoride (16984-48-8)		X							0					
f. Nitrate-Nitrite *(as N)*			(1) Believed to be present in rainwater or s[illegible]ent carried into river by rainwater.						0					

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EPA Form 3510-2C (8-85) PAGE V-1

ITEM V-B CONT[illegible] FROM FRONT

1. POLLUTANT AND CAS NO. (If available)	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (If available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (If available) (2) MASS	c. LONG TERM AVRG. VALUE (If available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (If available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)		X							0					
h. Oil and Grease		X							0					
i. Phosphorus (as P), Total (7723-14-0)		X							0					
j. Radioactivity														
(1) Alpha, Total		X							0					
(2) Beta, Total		X							0					
(3) Radium, Total		X							0					
(4) Radium 226, Total		X							0					
k. Sulfate (as SO_4) (14808-79-8)	(1) X		(1) Believed to be present in rainwater or sediment carried into river by rainwater.						0					
l. Sulfide (as S)		X							0					
m. Sulfite (as SO_3) (14265-45-3)		X							0					
n. Surfactants		X							0					
o. Aluminum, Total (7429-90-5)	(1) X								0					
p. Barium, Total (7440-39-3)		X							0					
q. Boron, Total (7440-42-8)		X							0					
r. Cobalt, Total (7440-48-4)		X							0					
s. Iron, Total (7439-89-6)	(1) X								0					
t. Magnesium, Total (7439-95-4)		X							0					
u. Molybdenum, Total (7439-98-7)		X							0					
v. Manganese, Total (7439-96-5)		X							0					
w. Tin, Total (7440-31-5)		X							0					
x. Titanium, Total (7440-32-6)		X							0					

AR2021116

OUTFALL NO. 005

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X							0					
2V. Acrylonitrile (107-13-1)			X							0					
3V. Benzene (71-43-2)			X							0					
4V. Bis (*Chloromethyl*) Ether (542-88-1)			X							0					
5V. Bromoform (75-25-2)			X							0					
6V. Carbon Tetrachloride (56-23-5)			X							0					
7V. Chlorobenzene (108-90-7)			X							0					
8V. Chlorodibromomethane (124-48-1)			X							0					
9V. Chloroethane (75-00-3)			X							0					
10V. 2-Chloroethylvinyl Ether (110-75-8)			X							0					
11V. Chloroform (67-66-3)			X							0					
12V. Dichlorobromomethane (75-27-4)			X							0					
13V. Dichlorodifluoromethane (75-71-8)			X							0					
14V. 1,1-Dichloroethane (75-34-3)			X							0					
15V. 1,2-Dichloroethane (107-06-2)			X							0					
16V. 1,1-Dichloroethylene (75-35 4)			X							0					
17V. 1,2 Dichloro propane (78-87-5)			X							0					
18V 1,3-Dichloropropylene (542-75-6)			X							0					
19V Ethylbenzene (100 41 4)			X							0					
20V Methyl Bromide (74 83 9)			X							0					
21V Methyl Chloride (74 87 3)			X							0					

AR02117

OUTFALL NO. 005

CONTINUED FRO[redacted]F V-4

EPA I.D. NUMBER (copy from Item 1 of [redacted]): DED980830400

OUTFALL NUMBER: 005

Form Approved
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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	2. MARK 'X' b. BELIEVED PRESENT	2. MARK 'X' c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X							0					
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X							0					
24V. Tetrachloroethylene (127-18-4)		(1) X		(1)Believe may be present, but only at levels equal to or less than in Outfall 001.						0					
25V. Toluene (108-88-3)			X							0					
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X							0					
27V. 1,1,1-Trichloroethane (71-55-6)			X							0					
28V. 1,1,2-Trichloroethane (79-00-5)			X							0					
29V. Trichloroethylene (79-01-6)			X							0					
30V. Trichlorofluoromethane (75-69-4)			X							0					
31V. Vinyl Chloride (75-01-4)			X							0					
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X							0					
2A. 2,4-Dichlorophenol (120-83-2)			X							0					
3A. 2,4-Dimethylphenol (105-67-9)			X							0					
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X							0					
5A. 2,4-Dinitrophenol (51-28-5)			X							0					
6A. 2-Nitrophenol (88-75-5)			X							0					
7A. 4-Nitrophenol (100-02-7)			X							0					
8A. P-Chloro-M-Cresol (59-50-7)			X							0					
9A. Pentachlorophenol (87-86-5)			X							0					
10A. Phenol (108-95-2)			X							0					
11A. 2,4,6-Trichlorophenol (88-06-2)			X							0					

RP2021-8

CONTINUED FROM FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X							0					
2B. Acenaphtylene (208-96-8)			X							0					
3B. Anthracene (120-12-7)			X							0					
4B. Benzidine (92-87-5)			X							0					
5B. Benzo (a) Anthracene (56-55-3)			X							0					
6B. Benzo (a) Pyrene (50-32-8)			X							0					
7B. 3,4-Benzo-fluoranthene (205-99-2)			X							0					
8B. Benzo (ghi) Perylene (191-24-2)			X							0					
9B. Benzo (k) Fluoranthene (207-08-9)			X							0					
10B. Bis (2-Chloroethoxy) Methane (111-91-1)			X							0					
11B. Bis (2-Chloroethyl) Ether (111-44-4)			X							0					
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X							0					
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X							0					
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X							0					
15B. Butyl Benzyl Phthalate (85-68-7)			X							0					
16B. 2-Chloronaphthalene (91-58-7)			X							0					
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X							0					
18B. Chrysene (218-01-9)			X							0					
19B. Dibenzo (a,h) Anthracene (53-70-3)			X							0					
20B. 1,2-Dichlorobenzene (95-50-1)			X							0					
21B. 1,3-Dichlorobenzene (541-73-			X							0					

AR202119

OUTFALL NO. 005

CONTINUED FROM PAGE V-6

EPA I.D. NUMBER (copy from Item 1 of Form 1): DED980830400

OUTFALL NUMBER: 005

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
22B. 1,4-Dichlorobenzene (106-46-7)			X							0					
23B. 3,3'-Dichlorobenzidine (91-94-1)			X							0					
24B. Diethyl Phthalate (84-66-2)			X							0					
25B. Dimethyl Phthalate (131-11-3)			X							0					
26B. Di-N-Butyl Phthalate (84-74-2)			X							0					
27B. 2,4-Dinitrotoluene (121-14-2)			X							0					
28B. 2,6-Dinitrotoluene (606-20-2)			X							0					
29B. Di-N-Octyl Phthalate (117-84-0)			X							0					
30B. 1,2-Diphenylhydrazine *(as Azobenzene)* (122-66-7)			X							0					
31B. Fluoranthene (206-44-0)			X							0					
32B. Fluorene (86-73-7)			X							0					
33B. Hexachlorobenzene (118-74-1)			X							0					
34B. Hexachlorobutadiene (87-68-3)			X							0					
35B. Hexachlorocyclopentadiene (77-47-4)			X							0					
36B. Hexachloroethane (67-72-1)			X							0					
37B. Indeno *(1,2,3-cd)* Pyrene (193-39-5)			X							0					
38B. Isophorone (78-59-1)			X							0					
39B. Naphthalene (91-20-3)			X							0					
40B. Nitrobenzene (98-95-3)			X							0					
41B. N-Nitrosodimethylamine (62-75-9)			X							0					
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X							0					

AR202120

CONTINUED FROM .E FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X							0					
44B. Phenanthrene (85-01-8)			X							0					
45B. Pyrene (129-00-0)			X							0					
46B. 1,2,4 - Trichlorobenzene (120-82-1)			X							0					
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X							0					
2P. α-BHC (319-84-6)			X							0					
3P. β-BHC (319-85-7)			X							0					
4P. γ-BHC (58-89-9)			X							0					
5P. δ-BHC (319-86-8)			X							0					
6P. Chlordane (57-74-9)			X							0					
7P. 4,4'-DDT (50-29-3)			X							0					
8P. 4,4' DDE (72-55-9)			X							0					
9P. 4,4'-DDD (72-54-8)			X							0					
10P. Dieldrin (60-57-1)			X							0					
11P. α-Endosulfan (115-29-7)			X							0					
12P. β-Endosulfan (115-29-7)			X							0					
13P. Endosulfan Sulfate (1031-07-8)			X							0					
14P. Endrin (72-20-8)			X							0					
15P. Endrin Aldehyde (7421-93-4)			X							0					
16P. Heptachlor (76-44-8)			X							0					

AR202121

OUTFALL NO. 005

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	005

Form Approved
OMB No 2040 0086
Approval expires 7 31 88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X							0					
18P. PCB-1242 (53469-21-9)			X							0					
19P. PCB-1254 (11097-69-1)			X							0					
20P. PCB-1221 (11104-28-2)			X							0					
21P. PCB-1232 (11141-16-5)			X							0					
22P. PCB-1248 (12672-29-6)			X							0					
23P. PCB-1260 (11096-82-5)			X							0					
24P. PCB-1016 (12674-11-2)			X							0					
25P. Toxaphene (8001-35-2)			X							0					

OUTFALL NO. 006

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: DED980830400

Form Approved OMB No 2040-0086 Approval expires 7 31 88

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO 006

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	<6	N/A	N/A	N/A	N/A	N/A	2	mg/l	---	N/A	N/A	---
b. Chemical Oxygen Demand *(COD)*	53	N/A	N/A	N/A	N/A	N/A	2	mg/l	---	N/A	N/A	---
c. Total Organic Carbon *(TOC)*	13	N/A	N/A	N/A	N/A	N/A	2	mg/l	---	N/A	N/A	---
d. Total Suspended Solids *(TSS)*	94	N/A	N/A	N/A	N/A	N/A	2	mg/l	---	N/A	N/A	---
e. Ammonia *(as N)*	0.11	N/A	N/A	N/A	N/A	N/A	2	mg/l	---	N/A	N/A	---
f. Flow	VALUE N/A		VALUE N/A		VALUE N/A		---	---	---	VALUE ---		---
g. Temperature *(winter)*	VALUE 7°C.		VALUE N/A		VALUE N/A		1	°C		VALUE N/A		---
h. Temperature *(summer)*	VALUE 20°C.		VALUE N/A		VALUE N/A		1	°C		VALUE N/A		---
i. pH	MINIMUM 6.6	MAXIMUM 7.3	MINIMUM N/A	MAXIMUM N/A			2	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X							0					
b. Chlorine, Total Residual		X							0					
c. Color		X							0					
d. Fecal Coliform		X							0					
e. Fluoride (16984-48-8)		X							0					
f. Nitrate-Nitrite *(as N)*	(1) X		(1) Believed to be present in rainwater or sediment carried into river by rainwater.						0					

AR2021FT

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)		X							0					
h. Oil and Grease		X							0					
i. Phosphorus (as P), Total (7723-14-0)		X							0					
j. Radioactivity														
(1) Alpha, Total		X							0					
(2) Beta, Total		X							0					
(3) Radium, Total		X							0					
(4) Radium 226, Total		X							0					
k. Sulfide (as SO_4) (14808-79-8)	(1) X		(1) Believed to be present in rainwater or sediment carried into river by rainwater.						0					
l. Sulfide (as S)		X							0					
m. Sulfite (as SO_3) (14265-45-3)		X							0					
n. Surfactants		X							0					
o. Aluminum, Total (7429-90-5)	(1) X								0					
p. Barium, Total (7440-39-3)		X							0					
q. Boron, Total (7440-42-8)		X							0					
r. Cobalt, Total (7440-48-4)		X							0					
s. Iron, Total (7439-89-6)	(1) X								0					
t. Magnesium, Total (7439-95-4)		X							0					
u. Molybdenum, Total (7439-98-7)		X							0					
v. Manganese, Total (7439-96-5)		X							0					
w. Tin, Total (7440-31-5)		X							0					
x. Titanium, Total (7440-32-6)		X							0					

AR202725

OUTFALL NO. 006

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	006

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CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (If available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (If available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (If available) (2) MASS	c. LONG TERM AVRG. VALUE (If available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (If available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X							0					
2M. Arsenic, Total (7440-38-2)			X							0					
3M. Beryllium, Total, 7440-41-7)			X							0					
4M. Cadmium, Total (7440-43-9)			X							0					
5M. Chromium, Total (7440-47-3)		X		0.06	N/A	N/A	N/A	N/A	N/A	2	mg/l				
6M. Copper, Total (7440-50-8)		X		0.06	N/A	N/A	N/A	N/A	N/A	2	mg/l				
7M. Lead, Total (7439-92-1)			X							0					
8M. Mercury, Total (7439-97-6)			X							0					
9M. Nickel, Total (7440-02-0)			X							0					
10M. Selenium, Total (7782-49-2)			X							0					
11M. Silver, Total (7440-22-4)			X							0					
12M. Thallium, Total (7440-28-0)	AR202126		X							0					
13M. Zinc, Total (7440-66-6)			X							0					
14M. Cyanide, Total (57-12-5)			X							0					
15M. Phenols, Total			X							0					
DIOXIN															
2,3,7,8-Tetrachlorodibenzo P Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X							0					
2V. Acrylonitrile (107-13-1)			X							0					
3V. Benzene (71-43-2)			X							0					
4V. Bis (Chloromethyl) Ether (542-88-1)			X							0					
5V. Bromoform (75-25-2)			X							0					
6V. Carbon Tetrachloride (56-23-5)			X							0					
7V. Chlorobenzene (108-90-7)			X							0					
8V. Chlorodibromomethane (124-48-1)			X							0					
9V. Chloroethane (75-00-3)			X							0					
10V. 2-Chloroethylvinyl Ether (110-75-8)			X							0					
11V. Chloroform (67-66-3)			X							0					
12V. Dichlorobromomethane (75-27-4)			X							0					
13V. Dichlorodifluoromethane (75-71-8)			X							0					
14V. 1,1-Dichloroethane (75-34-3)			X							0					
15V. 1,2-Dichloroethane (107-06-2)			X							0					
16V. 1,1-Dichloroethylene (75-35-4)			X							0					
17V. 1,2 Dichloropropane (78-87-5)			X							0					
18V 1,3-Dichloropropylene (542-75-6)			X							0					
19V. Ethylbenzene (100 41 4)			X							0					
20V. Methyl Bromide (74-83 9)			X							0					
21V. Methyl Chloride (74 87 3)			X							0					

AR2021127

CONTINUED FROM PAGE V-4

EPA I.D. NUMBER (copy from Item 1 of Form 1) DED980830400 | OUTFALL NUMBER 006

Form Approved
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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TEST INC. REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X							0					
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X							0					
24V. Tetrachloroethylene (127-18-4)		(1) X		(1) Believe may be present, but only at levels equal to or less than in Outfall 001.						0					
25V. Toluene (108-88-3)			X							0					
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X							0					
27V. 1,1,1-Trichloroethane (71-55-6)			X							0					
28V. 1,1,2-Trichloroethane (79-00-5)			X							0					
29V. Trichloroethylene (79-01-6)			X							0					
30V. Trichlorofluoromethane (75-69-4)			X							0					
31V. Vinyl Chloride (75-01-4)			X							0					
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95 57-8)			X							0					
2A. 2,4-Dichlorophenol (120-83-2)			X							0					
3A. 2,4-Dimethylphenol (105-67-9)			X							0					
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X							0					
5A. 2,4 Dinitrophenol (51-28-5)			X							0					
6A. 2-Nitrophenol (88-75-5)			X							0					
7A. 4-Nitrophenol (100-02-7)			X							0					
8A. P-Chloro-M-Cresol (59-50-7)			X							0					
9A. Pentachlorophenol (87-86-5)			X							0					
10A. Phenol (108 95 2)			X							0					
11A. 2,4,6-Trichlorophenol (88-06-2)			X							0					

AR202128

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X							0					
2B. Acenaphtylene (208-96-8)			X							0					
3B. Anthracene (120-12-7)			X							0					
4B. Benzidine (92-87-5)			X							0					
5B. Benzo (a) Anthracene (56-55-3)			X							0					
6B. Benzo (a) Pyrene (50-32-8)			X							0					
7B. 3,4-Benzo-fluoranthene (205-99-2)			X							0					
8B. Benzo (ghi) Perylene (191-24-2)			X							0					
9B. Benzo (k) Fluoranthene (207-08-9)			X							0					
10B. Bis (2-Chloroethoxy) Methane (111-91-1)			X							0					
11B. Bis (2-Chloroethyl) Ether (111-44-4)			X							0					
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X							0					
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X							0					
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X							0					
15B. Butyl Benzyl Phthalate (85-68-7)			X							0					
16B. 2-Chloronaphthalene (91-58-7)			X							0					
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X							0					
18B. Chrysene (218-01-9)			X							0					
19B. Dibenzo (a,h) Anthracene (53-70-3)			X							0					
20B. 1,2-Dichlorobenzene (95-50-1)			X							0					
21B. 1,3-Dichlorobenzene (541-73-1)			X							0					

AR202129

OUTFALL NO. 006

CONTINUED FRO. AGE V-6

EPA I.D. NUMBER (copy from Item 1 of 1) DED980830400

OUTFALL NUMBER 006

Form Approved
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1. POLLUTANT AND CAS NUMBER (If available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (If available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (If available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
22B. 1,4-Dichlorobenzene (106-46-7)			X							0					
23B. 3,3'-Dichlorobenzidine (91-94-1)			X							0					
24B. Diethyl Phthalate (84-66-2)			X							0					
25B. Dimethyl Phthalate (131-11-3)			X							0					
26B. Di-N-Butyl Phthalate (84-74-2)			X							0					
27B. 2,4-Dinitrotoluene (121-14-2)			X							0					
28B. 2,6-Dinitrotoluene (606-20-2)			X							0					
29B. Di-N-Octyl Phthalate (117-84-0)			X							0					
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X							0					
31B. Fluoranthene (206-44-0)			X							0					
32B. Fluorene (86-73-7)			X							0					
33B. Hexachlorobenzene (118-74-1)			X							0					
34B. Hexachlorobutadiene (87-68-3)			X							0					
35B. Hexachlorocyclopentadiene (77-47-4)			X							0					
36B. Hexachloroethane (67-72-1)			X							0					
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X							0					
38B. Isophorone (78-59-1)			X							0					
39B. Naphthalene (91-20-3)			X							0					
40B. Nitrobenzene (98-95-3)			X							0					
41B. N-Nitrosodimethylamine (62-75-9)			X							0					
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X							0					

AR2021130

CONTINUED FROM FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X							0					
44B. Phenanthrene (85-01-8)			X							0					
45B. Pyrene (129-00-0)			X							0					
46B. 1,2,4 - Trichlorobenzene (120-82-1)			X							0					
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X							0					
2P. α-BHC (319 84-6)			X							0					
3P. β-BHC (319-85 7)			X							0					
4P. γ-BHC (58-89-9)			X							0					
5P. δ-BHC (: 19-86-8)			X							0					
6P. Chlordane (57-74-9)			X							0					
7P. 4,4'-DDT (50 29-3)			X							0					
8P. 4,4'-DDE (72-55-9)			X							0					
9P. 4,4'-DDD (72-54-8)			X							0					
10P. Dieldrin (60-57-1)			X							0					
11P. α-Endosulfan (115-29-7)			X							0					
12P. β-Endosulfan (115-29-7)	AR202131		X							0					
13P. Endosulfan Sulfate (1031-07-8)			X							0					
14P. Endrin (72-20-8)			X							0					
15P. Endrin Aldehyde (7421-93 4)			X							0					
16P. Heptachlor (76-44 8)			X							0					

OUTFALL NO. 006

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	006

Form Approved
OMB No 2040 0086
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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES *(continued)*															
17P. Heptachlor epoxide (1024-57-3)			X							0					
18P. PCB-1242 (53469-21-9)			X							0					
19P. PCB-1254 (11097-69-1)			X							0					
20P. PCB-1221 (11104-28-2)			X							0					
21P. PCB-1232 (11141-16-5)			X							0					
22P. PCB-1248 (12672-29-6)			X							0					
23P. PCB-1260 (11096-82-5)			X							0					
24P. PCB 1016 (12674-11-2)			X							0					
25P. Toxaphene (8001-35-2)			X							0					

OUTFALL NO. 008

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: DED980830400

Form Approved OMB No 2040 0086 Approval expires 7 31 88

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO: 008

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	2. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	2. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	2. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	2. EFFLUENT d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE (optional) b. NO OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	< 6	N/A	N/A	N/A	N/A	N/A	4	mg/l	---	N/A	N/A	---
b. Chemical Oxygen Demand *(COD)*	35	N/A	N/A	N/A	N/A	N/A	4	mg/l	---	N/A	N/A	---
c. Total Organic Carbon *(TOC)*	10	N/A	N/A	N/A	N/A	N/A	4	mg/l	---	N/A	N/A	---
d. Total Suspended Solids *(TSS)*	72	N/A	N/A	N/A	N/A	N/A	4	mg/l	---	N/A	N/A	---
e. Ammonia *(as N)*	< 0.28	N/A	N/A	N/A	N/A	N/A	4	mg/l	---	N/A	N/A	---
f. Flow	VALUE N/A		VALUE N/A		VALUE N/A		---	---	---	VALUE ---		---
g. Temperature *(winter)*	VALUE 7°C.		VALUE N/A		VALUE N/A		1	°C		VALUE N/A		---
h. Temperature *(summer)*	VALUE 19°C.		VALUE N/A		VALUE N/A		1	°C		VALUE N/A		---
i. pH	MINIMUM 6.5	MAXIMUM 6.6	MINIMUM N/A	MAXIMUM N/A			2	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO OF ANALYSES
a. Bromide (24959-67-9)		X							0					
b. Chlorine, Total Residual		X							0					
c. Color		X							0					
d. Fecal Coliform		X							0					
e. Fluoride (16984-48-8)		X							0					
f. Nitrate-Nitrite *(as N)*	[redacted]		(1) Believed to be present in rainwater or [redacted] carried into river by rainwater.						0					

APR 20 1990

ITEM V-B CON[illegible] FROM FRONT

1. POLLUTANT AND CAS NO. (If available)	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (If available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (If available) (2) MASS	c. LONG TERM AVRG. VALUE (If available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (If available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)		X							0					
h. Oil and Grease		X							0					
i. Phosphorus (as P), Total (7723-14-0)		X							0					
j. Radioactivity														
(1) Alpha, Total		X							0					
(2) Beta, Total		X							0					
(3) Radium, Total		X							0					
(4) Radium 226, Total		X							0					
k. Sulfate (as SO_4) (14808-79-8)	(1) X		(1) Believed to be present in rainwater or sediment carried into river by rainwater.						0					
l. Sulfide (as S)		X							0					
m. Sulfite (as SO_3) (14265-45-3)		X							0					
n. Surfactants		X							0					
o. Aluminum, Total (7429-90-5)	(1) X								0					
p. Barium, Total (7440-39-3)		X							0					
q. Boron, Total (7440-42-8)		X							0					
r. Cobalt, Total (7440-48-4)		X							0					
s. Iron, Total (7439-89-6)	(1) X								0					
t. Magnesium, Total (7439-95-4)		X							0					
u. Molybdenum, Total (7439-98-7)		X							0					
v. Manganese, Total (7439-96-5)		X							0					
w. Tin, Total (7440-31-5)		X							0					
x. Titanium, Total (7440-32-6)		X							0					

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	008

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Approval expires 7-31 88

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (If available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X							0					
2M. Arsenic, Total (7440-38-2)			X							0					
3M. Beryllium, Total, 7440-41-7)			X							0					
4M. Cadmium, Total (7440-43-9)			X							0					
5M. Chromium, Total (7440-47-3)		X		<0.05	N/A	N/A	N/A	N/A	N/A	4	mg/l				
6M. Copper, Total (7440-50-8)		X		0.10	N/A	N/A	N/A	N/A	N/A	4	mg/l				
7M. Lead, Total (7439-92-1)			X							0					
8M. Mercury, Total (7439-97-6)			X							0					
9M. Nickel, Total (7440-02-0)			X							0					
10M. Selenium, Total (7782-49-2)			X							0					
11M. Silver, Total (7440-22-4)			X							0					
12M. Thallium, Total (7440-28-0)			X							0					
13M. Zinc, Total (7440-66-6)			X							0					
14M. Cyanide, Total (57-12-5)			X							0					
15M. Phenols, Total			X							0					
DIOXIN															
2,3,7,8 Tetrachlorodibenzo P Dioxin (1764 01 6)			X	DESCRIBE RESULTS											

AR202136

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X							0					
2V. Acrylonitrile (107-13-1)			X							0					
3V. Benzene (71-43-2)			X							0					
4V. Bis (Chloromethyl) Ether (542-88-1)			X							0					
5V. Bromoform (75-25-2)			X							0					
6V. Carbon Tetrachloride (56-23-5)			X							0					
7V. Chlorobenzene (108-90-7)			X							0					
8V. Chlorodibromomethane (124-48-1)			X							0					
9V. Chloroethane (75-00-3)			X							0					
10V. 2-Chloroethylvinyl Ether (110-75-8)			X							0					
11V. Chloroform (67-66-3)			X							0					
12V. Dichlorobromomethane (75-27-4)			X							0					
13V. Dichlorodifluoromethane (75-71-8)			X							0					
14V. 1,1-Dichloroethane (75-34-3)			X							0					
15V. 1,2-Dichloroethane (107-06-2)			X							0					
16V. 1,1-Dichloroethylene (75-35-4)			X							0					
17V. 1,2-Dichloropropane (78-87-5)			X							0					
18V 1,3-Dichloropropylene (542-75-6)			X							0					
19V. Ethylbenzene (100-41-4)			X							0					
20V Methyl Bromide (74-83-9)			X							0					
21V Methyl Chloride (74-87-3)			X							0					

AR202137

CONTINUED FROM PAGE V-4

EPA I.D. NUMBER (copy from Item 1 of Form 1) DED980830400

OUTFALL NUMBER 008

Form Approved
OMB No 2040 0086
Approval expires 7 31 88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X							0					
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X							0					
24V. Tetrachloroethylene (127-18-4)		(1) X		(1)Believe may be present, but only at levels equal to or less than in Outfall 001.						0					
25V. Toluene (108-88-3)			X							0					
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X							0					
27V. 1,1,1-Trichloroethane (71-55-6)			X							0					
28V. 1,1,2-Trichloroethane (79-00-5)			X							0					
29V. Trichloroethylene (79-01-6)			X							0					
30V. Trichlorofluoromethane (75-69-4)			X							0					
31V. Vinyl Chloride (75-01-4)			X							0					
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95 57-8)			X							0					
2A. 2,4 Dichlorophenol (120-83-2)			X							0					
3A. 2,4-Dimethylphenol (105-67-9)			X							0					
4A. 4,6-Dinitro-O-Cresol (534-52 1)			X							0					
5A. 2,4-Dinitrophenol (51-28-5)			X							0					
6A. 2-Nitrophenol (88-75-5)			X							0					
7A. 4-Nitrophenol (100-02-7)			X							0					
8A. P-Chloro-M-Cresol (59-50-7)			X							0					
9A. Pentachlorophenol (87-86-5)			X							0					
10A Phenol (108 95 2)			X							0					
11A. 2,4,6-Trichlorophenol (88 06-2)			X							0					

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TEST. REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X							0					
2B. Acenaphtylene (208-96-8)			X							0					
3B. Anthracene (120-12-7)			X							0					
4B. Benzidine (92-87-5)			X							0					
5B. Benzo *(a)* Anthracene (56-55-3)			X							0					
6B. Benzo *(a)* Pyrene (50-32-8)			X							0					
7B. 3,4-Benzo-fluoranthene (205-99-2)			X							0					
8B. Benzo *(ghi)* Perylene (191-24-2)			X							0					
9B. Benzo *(k)* Fluoranthene (207-08-9)			X							0					
10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1)			X							0					
11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4)			X							0					
12B. Bis *(2-Chloroso-propyl)* Ether (102-60-1)			X							0					
13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7)			X							0					
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)			X							0					
15B. Butyl Benzyl Phthalate (85-68-7)			X							0					
16B. 2-Chloro-naphthalene (91-58-7)			X							0					
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X							0					
18B. Chrysene (218-01-9)			X							0					
19B. Dibenzo *(a,h)* Anthracene (53-70-3)			X							0					
20B. 1,2-Dichloro-benzene (95-50-1)			X							0					
21B. 1,3-Dichloro-benzene (541-73-1)			X							0					

AR 202139

CONTINUED FROM PAGE V-6

EPA I.D. NUMBER (copy from Item 1 of 1): DED980830400

OUTFALL NUMBER: 008

Form Approved
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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
22B. 1,4-Dichlorobenzene (106-46-7)			X							0					
23B. 3,3'-Dichlorobenzidine (91-94-1)			X							0					
24B. Diethyl Phthalate (84-66-2)			X							0					
25B. Dimethyl Phthalate (131-11-3)			X							0					
26B. Di-N-Butyl Phthalate (84-74-2)			X							0					
27B. 2,4-Dinitrotoluene (121-14-2)			X							0					
28B. 2,6-Dinitrotoluene (606-20-2)			X							0					
29B. Di-N-Octyl Phthalate (117-84-0)			X							0					
30B. 1,2-Diphenylhydrazine *(as Azobenzene)* (122-66-7)			X							0					
31B. Fluoranthene (206-44-0)			X							0					
32B. Fluorene (86-73-7)			X							0					
33B. Hexachlorobenzene (118-74-1)			X							0					
34B. Hexachlorobutadiene (87-68-3)			X							0					
35B. Hexachlorocyclopentadiene (77-47-4)			X							0					
36B. Hexachloroethane (67-72-1)			X							0					
37B. Indeno *(1,2,3-cd)* Pyrene (193-39-5)			X							0					
38B. Isophorone (78-59-1)			X							0					
39B. Naphthalene (91-20-3)			X							0					
40B. Nitrobenzene (98-95-3)			X							0					
41B. N-Nitrosodimethylamine (62-75-9)			X							0					
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X							0					

AR202140

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X							0					
44B. Phenanthrene (85-01-8)			X							0					
45B. Pyrene (129-00-0)			X							0					
46B. 1,2,4 - Trichlorobenzene (120-82-1)			X							0					
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00 2)			X							0					
2P. α-BHC (319-84-6)			X							0					
3P. β-BHC (319-85 7)			X							0					
4P. γ-BHC (58-89-9)			X							0					
5P. δ-BHC (: 19-86-8)			X							0					
6P. Chlordane (57-74-9)			X							0					
7P. 4,4'-DDT (50-29-3)			X							0					
8P. 4,4'-DDE (72-55-9)			X							0					
9P. 4,4'-DDD (72-54-8)			X							0					
10P. Dieldrin (60-57-1)			X							0					
11P. α-Endosulfan (115-29-7)			X							0					
12P. β-Endosulfan (115-29-7)			X							0					
13P. Endosulfan Sulfate (1031-07-8)			X							0					
14P. Endrin (72-20-8)			X							0					
15P. Endrin Aldehyde (7421-93 4)			X							0					
16P. Heptachlor (76 44-8)			X							0					

AR202141

OUTFALL NO. 008

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	008

Form Approved
OMB No 2040 0086
Approval expires 7 31 88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X							0					
18P. PCB-1242 (53469-21-9)			X							0					
19P. PCB-1254 (11097-69-1)			X							0					
20P. PCB-1221 (11104-28-2)			X							0					
21P. PCB-1232 (11141-16-5)			X							0					
22P. PCB-1248 (12672-29-6)			X							0					
23P. PCB-1260 (11096-82-5)			X							0					
24P. PCB-1016 (12674-11-2)			X							0					
25P. Toxaphene (8001-35-2)			X							0					

OUTFALL NO. 009

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: DED980830400

Form Approved OMB No 2040 0086 Approval expires 7 31 88

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO: 009

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand *(BOD)*	NO DATA	N/A	N/A	N/A	N/A	N/A	0	mg/l	---	N/A	N/A	---
b. Chemical Oxygen Demand *(COD)*	NO DATA	N/A	N/A	N/A	N/A	N/A	0	mg/l	---	N/A	N/A	---
c. Total Organic Carbon *(TOC)*	NO DATA	N/A	N/A	N/A	N/A	N/A	0	mg/l	---	N/A	N/A	---
d. Total Suspended Solids *(TSS)*	NO DATA	N/A	N/A	N/A	N/A	N/A	0	mg/l	---	N/A	N/A	---
e. Ammonia *(as N)*	NO DATA	N/A	N/A	N/A	N/A	N/A	0	mg/l	---	N/A	N/A	---
f. Flow	VALUE N/A		VALUE N/A		VALUE N/A		---	---	---	VALUE ---		---
g. Temperature *(winter)*	VALUE NO DATA		VALUE N/A		VALUE N/A		0	°C		VALUE N/A		---
h. Temperature *(summer)*	VALUE NO DATA		VALUE N/A		VALUE N/A		0	°C		VALUE N/A		---
i. pH	MINIMUM NO DATA	MAXIMUM NO DATA	MINIMUM N/A	MAXIMUM N/A			0	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X'		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)		X							0					
b. Chlorine, Total Residual		X							0					
c. Color		X							0					
d. Fecal Coliform		X							0					
e. Fluoride (16984-48-8)		X							0					
f. Nitrate-Nitrite *(as N)*			(1) Believed to be present in rainwater or [illegible]ment carried into river by rainwater.						0					

AR202144

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)		X							0					
h. Oil and Grease		X							0					
i. Phosphorus (as P), Total (7723-14-0)		X							0					
j. Radioactivity														
(1) Alpha, Total		X							0					
(2) Beta, Total		X							0					
(3) Radium, Total		X							0					
(4) Radium 226, Total		X							0					
k. Sulfate (as SO_4) (14808-79-8)	(1) X		(1) Believed to be present in rainwater or sediment carried into river by rainwater.						0					
l. Sulfide (as S)		X							0					
m. Sulfite (as SO_3) (14265-45-3)		X							0					
n. Surfactants		X							0					
o. Aluminum, Total (7429-90-5)	(1) X								0					
p. Barium, Total (7440-39-3)		X							0					
q. Boron, Total (7440-42-8)		X							0					
r. Cobalt, Total (7440-48-4)		X							0					
s. Iron, Total (7439-89-6)	(1) X								0					
t. Magnesium, Total (7439-95-4)		X							0					
u. Molybdenum, Total (7439-98-7)		X							0					
v. Manganese, Total (7439-96-5)		X							0					
w. Tin, Total (7440-31-5)		X							0					
x. Titanium, Total (7440-32-6)		X							0					

AR202145

OUTFALL NO. 009

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	009

Form Approved
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Approval expires 7-31 88

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X							0					
2M. Arsenic, Total (7440-38-2)			X							0					
3M. Beryllium, Total, 7440-41-7)			X							0					
4M. Cadmium, Total (7440-43-9)			X							0					
5M. Chromium, Total (7440-47-3)		X		NO DATA	N/A	N/A	N/A	N/A	N/A	0	mg/l				
6M. Copper, Total (7440-50-8)		X		NO DATA	N/A	N/A	N/A	N/A	N/A	0	mg/l				
7M. Lead, Total (7439-92-1)			X							0					
8M. Mercury, Total (7439-97-6)			X							0					
9M. Nickel, Total (7440-02-0)			X							0					
10M. Selenium, Total (7782-49-2)			X							0					
11M. Silver, Total (7440-22-4)			X							0					
12M. Thallium, Total (7440-28-0)			X							0					
13M. Zinc, Total (7440-66-6)			X							0					
14M. Cyanide, Total (57-12-5)			X							0					
15M. Phenols, Total			X							0					
DIOXIN															
2,3,7,8 Tetra chlorodibenzo P Dioxin (1764 01			X	DESCRIBE RESULTS											

AR202146

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X							0					
2V. Acrylonitrile (107-13-1)			X							0					
3V. Benzene (71-43-2)			X							0					
4V. Bis (Chloromethyl) Ether (542-88-1)			X							0					
5V. Bromoform (75-25-2)			X							0					
6V. Carbon Tetrachloride (56-23-5)			X							0					
7V. Chlorobenzene (108-90-7)			X							0					
8V. Chlorodibromomethane (124-48-1)			X							0					
9V. Chloroethane (75-00-3)			X							0					
10V. 2-Chloroethylvinyl Ether (110-75-8)			X							0					
11V. Chloroform (67-66-3)			X							0					
12V. Dichlorobromomethane (75-27-4)			X							0					
13V. Dichlorodifluoromethane (75-71-8)			X							0					
14V. 1,1-Dichloroethane (75-34-3)			X							0					
15V. 1,2-Dichloroethane (107-06-2)			X							0					
16V. 1,1-Dichloroethylene (75 35-4)			X							0					
17V. 1,2-Dichloropropane (78 87-5)			X							0					
18V 1,3-Dichloropropylene (542-75-6)			X							0					
19V. Ethylbenzene (100 41 4)			X							0					
20V Methyl Bromide (74 83 9)			X							0					
21V. Methyl Chloride (74 87 3)			X							0					

RR2021477

OUTFALL NO. 009

CONTINUED FROM PAGE V-4

EPA I.D. NUMBER (copy from Item 1 of Form 1) DED980830400

OUTFALL NUMBER 009

Form Approved
OMB No 2040 0086
Approval expires 7 31 88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X							0					
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X							0					
24V. Tetrachloroethylene (127-18-4)		(1) X		(1) Believe may be present, but only at levels equal to or less than in Outfall 001.						0					
25V. Toluene (108-88-3)			X							0					
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X							0					
27V. 1,1,1-Trichloroethane (71-55-6)			X							0					
28V. 1,1,2-Trichloroethane (79-00-5)			X							0					
29V. Trichloroethylene (79-01-6)			X							0					
30V. Trichlorofluoromethane (75-69-4)			X							0					
31V. Vinyl Chloride (75-01-4)			X							0					
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95 57-8)			X							0					
2A. 2,4-Dichlorophenol (120-83 2)			X							0					
3A. 2,4-Dimethylphenol (105 67-9)			X							0					
4A. 4,6-Dinitro-O Cresol (534-52-1)			X							0					
5A. 2,4 Dinitrophenol (51-28-5)			X							0					
6A. 2-Nitrophenol (88-75-5)			X							0					
7A. 4-Nitrophenol (100-02-7)			X							0					
8A. P-Chloro M-Cresol (59-50-7)			X							0					
9A. Pentachlorophenol (87-86-5)			X							0					
10A. Phenol (108 95 2)			X							0					
11A. 2,4,6-Trichlorophenol (88 06 2)			X							0					

AR202148

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X							0					
2B. Acenaphtylene (208-96-8)			X							0					
3B. Anthracene (120-12-7)			X							0					
4B. Benzidine (92-87-5)			X							0					
5B. Benzo (a) Anthracene (56-55-3)			X							0					
6B. Benzo (a) Pyrene (50-32-8)			X							0					
7B. 3,4-Benzo-fluoranthene (205-99-2)			X							0					
8B. Benzo (ghi) Perylene (191-24-2)			X							0					
9B. Benzo (k) Fluoranthene (207-08-9)			X							0					
10B. Bis (2-Chloroethoxy) Methane (111-91-1)			X							0					
11B. Bis (2-Chloroethyl) Ether (111-44-4)			X							0					
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X							0					
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X							0					
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X							0					
15B. Butyl Benzyl Phthalate (85-68-7)			X							0					
16B. 2-Chloronaphthalene (91-58-7)			X							0					
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X							0					
18B. Chrysene (218-01-9)			X							0					
19B. Dibenzo (a,h) Anthracene (53-70-3)			X							0					
20B. 1,2-Dichlorobenzene (95-50-1)			X							0					
21B. 1,3-Dichlorobenzene (541-73-1)			X							0					

AR202149

OUTFALL NO. 009

CONTINUED FROM ...GE V-6

EPA I.D. NUMBER (copy from Item 1 of F) DED980830400 | OUTFALL NUMBER 009

Form Approved
OMB No 2040 0086
Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (If available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (If available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (If available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
22B. 1,4-Dichlorobenzene (106-46-7)			X							0					
23B. 3,3'-Dichlorobenzidine (91-94-1)			X							0					
24B. Diethyl Phthalate (84-66-2)			X							0					
25B. Dimethyl Phthalate (131-11-3)			X							0					
26B. Di-N-Butyl Phthalate (84-74-2)			X							0					
27B. 2,4-Dinitrotoluene (121-14-2)			X							0					
28B. 2,6-Dinitrotoluene (606-20-2)			X							0					
29B. Di-N-Octyl Phthalate (117-84-0)			X							0					
30B. 1,2-Diphenylhydrazine *(as Azobenzene)* (122-66-7)			X							0					
31B. Fluoranthene (206-44-0)			X							0					
32B. Fluorene (86-73-7)			X							0					
33B. Hexachlorobenzene (118-74-1)			X							0					
34B. Hexachlorobutadiene (87-68-3)			X							0					
35B. Hexachlorocyclopentadiene (77-47-4)			X							0					
36B. Hexachloroethane (67-72-1)			X							0					
37B. Indeno *(1,2,3-cd)* Pyrene (193-39-5)			X							0					
38B. Isophorone (78-59-1)			X							0					
39B. Naphthalene (91-20-3)			X							0					
40B. Nitrobenzene (98-95-3)			X							0					
41B. N-Nitrosodimethylamine (62-75-9)			X							0					
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X							0					

AR202150

CONTINUED FROM E FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X							0					
44B. Phenanthrene (85-01-8)			X							0					
45B. Pyrene (129-00-0)			X							0					
46B. 1,2,4 - Trichlorobenzene (120-82-1)			X							0					
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X							0					
2P. α-BHC (319 84-6)			X							0					
3P. β-BHC (319-85-7)			X							0					
4P. γ-BHC (58-89-9)			X							0					
5P. δ-BHC (: 19-86-8)			X							0					
6P. Chlordane (57-74-9)			X							0					
7P. 4,4'-DDT (50 29-3)			X							0					
8P. 4,4'-DDE (72-55-9)			X							0					
9P. 4,4'-DDD (72-54-8)			X							0					
10P. Dieldrin (60-57-1)			X							0					
11P. α-Endosulfan (115-29-7)			X							0					
12P. β-Endosulfan (115-29-7)			X							0					
13P. Endosulfan Sulfate (1031-07-8)			X							0					
14P. Endrin (72-20-8)			X							0					
15P. Endrin Aldehyde (7421 93 4)			X							0					
16P. Heptachlor (76 44 8)			X							0					

AR202151

OUTFALL NO. 009

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED980830400	009

Form Approved
OMB No 2040-0086
Approval expires 7 31 88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X							0					
18P. PCB-1242 (53469-21-9)			X							0					
19P. PCB-1254 (11097-69-1)			X							0					
20P. PCB-1221 (11104-28-2)			X							0					
21P. PCB-1232 (11141-16-5)			X							0					
22P. PCB-1248 (12672-29-6)			X							0					
23P. PCB-1260 (11096-82-5)			X							0					
24P. PCB-1016 (12674-11-2)			X							0					
25P. Toxaphene (8001-35-2)			X							0					

Question 2

Provide all information in CIBA-GEIGY's possession regarding storm sewer discharge contamination at the site.

ORIGINAL (Red)

Attachment

4) Analytical Data of Storm Sewer Discharges for January 90.

ARTESIAN LABORATORIES, INC.

A wholly owned subsidiary of Artesian Resources Corporation

Mr. Joseph J. Sasso
Ciba Geigy Corporation
James & Water Streets
Newport, Delaware 19804

Account Number: 70600187
Date Sampled: 01/02/90
Date Received: 01/02/90
Sampled by: ALI
Lab Id Number: BD 10805
P.O. #: X003773
Report Date: 01/17/90

All Results in mg/L unless noted differently
Date-Time Sampled: 010290-1530 Technician: FSG

ANALYSIS RESULTS

Outfall 001	Grab	MDL	Date-Time Analyzed	Tech	Method
Cadmium	ND	0.01	010390-1100	ST	EPA 213.1
Copper	0.01	--	010490-0945	ST	EPA 220.1
Nickel	0.01	--	010390-1530	ST	EPA 249.1
Zinc	0.04	--	010390-1500	ST	EPA 289.1
Silver	ND	0.01	010490-0900	ST	EPA 272.1
Selenium	ND	0.002	011190-1000	AM	EPA 270.2
Total Hardness	120.	--	010390-0820	TAS	EPA 130.2
Total Cyanide	ND	0.02	010890-1530	PB	EPA 335.2
Pentachlorophenol (µg/L)	ND	10.	010790-2006	TDS	EPA 625
Benzidine (µg/L)	ND	44.	010590-0712	TDS	EPA 625

N.D.= The compound indicated was not detected above the Method Detection Limit (MDL) listed for the method performed.
EPA Chemical Analysis for Water and Wastewater, 600/4-79-020, March, 1979

Quality Control Data (Samples split in Laboratory)

Test	Sample	Sample With Spike	Spike Amt Added	Percent Recovery
Cadmium	ND	0.06	0.05	120.
Copper	0.01	0.05	0.05	80.
Nickel	0.01	0.06	0.05	100.
Zinc	0.04	0.10	0.05	120.
Silver	ND	0.05	0.05	100.
Selenium	ND	0.008	0.010	80.
Total Hardness	120.	215.	10.	95.
Total Cyanide	ND	0.092	0.1	88.
Pentachlorophenol µg/L)	ND	43.	50.	86.0
Benzidine (µg/L)	ND	170.	150.	114.

N.D.= The compound indicated was not detected above the Method Detection Limit (MDL) listed for the method performed.

AR202154

ARTESIAN LABORATORIES, INC.

A wholly owned subsidiary of
Artesian Resources Corporation

Mr. Joseph J. Sasso
Ciba Geigy Corporation
James & Water Streets
Newport, Delaware 19804

Account Number: 70600187
Date Sampled: 01/02/90
Date Received: 01/02/90
Sampled by: ALI
Lab Id Number: BD 10805
P.O. #: X003773
Report Date: 01/17/90

All Results in mg/L unless noted differently

Date-Time Sampled: 010290-1530 Technician: FSG

ANALYSIS RESULTS

Outfall 001	Grab	Date-Time Analyzed	Tech	Method
pH value (units)	7.2	010290-1530	FSG	EPA 150.1
Flow	HIGH TIDE	--	--	--
Temperature (°C)	11.2	010290-1530	FSG	EPA 170.1
Chlorine Residual	0.02	010290-1530	FSG	EPA 330.5

Marlene O. Frey
VICE PRESIDENT

AR202155

Post Office Box 15004
Wilmington, Delaware 19850
(302) 453-6920

Delaware Department of Public Health Approved
Maryland Department of Public Health Certified
Pennsylvania Department of Environmental Resources Certified

Post Office Box 935
Dover, Delaware 19903
(302) 734-8417

medlab
Environmental Testing Inc.
212 Cherry Lane
Castle, DE 19720
655-LABS
1-800-MEDLAB-1
(outside DE)

TO: CIBA-GEIGY
JAMES & WATER STS.
NEWPORT, DE 19804

SOURCE SITE 002, OUTFALL
MATRIX WATER
SAMPLE TIME: 2:40 PM
SAMPLE DATE: 01/08/90
LAB NO. 01016540
REMARKS

SAMPLE RECEIVED 01/08/90 REPORT DATE 01/24/90 FINAL REPORT

REPORT

TESTS	RESULTS	RANGE/COMMENTS	UNITS
ALUMINUM, AA (EPA 202.1)	0.266	MDL=0.1	MG/L
COPPER, AA (EPA 220.1)	0.048	MDL=0.01	MG/L
IRON, AA (EPA 236.1)	0.97	MDL=0.01	MG/L
ZINC, AA (EPA 289.1)	0.404	MDL=0.001	MG/L
HARDNESS (EPA 130.2)	202.0	(CONC. RELATIVE TO CaCO3)	MG/L
TOT. SUS. SOLIDS (EPA160.2)	26.0		MG/L
pH ELEC. (EPA 150.1)	8.88	FOR SOIL: EPA SW-846 METH. 90	pH UNITS

[redacted]

RECEIVED
JAN 26 1990

AR202156

medlab
Environmental Testing Inc.
Cherry Lane
Castle, DE 19720
655-LABS
-MEDLAB-1
(outside DE)

TO: Ø
CIBA-GEIGY
JAMES & WATER STS
NEWPORT, DE 19804

SOURCE SITE 003, OUTFALL
MATRIX WATER
SAMPLE TIME: 2:31 PM
SAMPLE DATE: 01/08/90
LAB NO. 01016541
REMARKS

SAMPLE RECEIVED 01/08/90 REPORT DATE 01/24/90 FINAL REPORT

REPORT

TESTS	RESULTS	RANGE/COMMENTS	UNITS
ALUMINUM, AA (EPA 202.1)	1.36	MDL=0.1	MG/L
COPPER, AA (EPA 220.1)	0.080	MDL=0.01	MG/L
IRON, AA (EPA 236.1)	2.76	MDL=0.01	MG/L
ZINC, AA (EPA 289.1)	0.558	MDL=0.001	MG/L
HARDNESS (EPA 130.2)	58.0	(CONC. RELATIVE TO CaCO3)	MG/L
TOT.SUS.SOLIDS(EPA160.2)	73.0		MG/L
[redacted]LEC. (EPA 150.1)	6.72	FOR SOIL: EPA SW-846 METH.9045	pH UNITS

[redacted]

AR202157

medlab
Environmental Testing Inc.
Cherry Lane
, Castle, DE 19720
(302) 655-LABS
1-800-MEDLAB-1
(outside DE)

TO: 0
CIBA-GEIGY
JAMES & WATER STS
NEWPORT, DE 19804

SOURCE SITE 005, OUTFALL
MATRIX WATER
SAMPLE TIME: 2:23 PM
SAMPLE DATE: 01/08/90
LAB NO. 01016542
REMARKS

SAMPLE RECEIVED 01/08/90 REPORT DATE 01/24/90 FINAL REPORT

REPORT

TESTS	RESULTS	RANGE/COMMENTS	UNITS
ALUMINUM, AA (EPA 202.1)	0.989	MDL=0.1	MG/L
COPPER, AA (EPA 220.1)	0.081	MDL=0.01	MG/L
IRON, AA (EPA 236.1)	1.34	MDL=0.01	MG/L
ZINC, AA (EPA 289.1)	0.306	MDL=0.001	MG/L
HARDNESS (EPA 130.2)	108.0	(CONC. RELATIVE TO [illegible])	
TOT. SUS. SOLIDS (EPA160.2)	54.0		MG/L
pH, ELEC. (EPA 150.1)	7.17		pH UNITS

FOR SOIL: EPA SW-846 METH.9045

[redacted]

AR202158

medlab
Environmental Testing Inc.
herry Lane
Castle, DE 19720
655-LABS
0-MEDLAB-1
(outside DE)

TO: 0
CIBA-GEIGY
JAMES & WATER STS
NEWPORT, DE 19804

SOURCE SITE 006, OUTFALL
MATRIX WATER
SAMPLE TIME: 2:12 PM
SAMPLE DATE: 01/08/90
LAB NO. 01016543
REMARKS

SAMPLE RECEIVED 01/08/90 REPORT DATE 01/24/90 FINAL REPORT

REPORT

TESTS	RESULTS	RANGE/COMMENTS	UNITS
ALUMINUM, AA (EPA 202.1)	0.087	MDL=0.1	MG/L
COPPER, AA (EPA 220.1)	0.101	MDL=0.01	MG/L
IRON, AA (EPA 236.1)	0.22	MDL=0.01	MG/L
ZINC, AA (EPA 289.1)	2.54	MDL=0.001	MG/L
HARDNESS (EPA 130.2)	24.0	(CONC. RELATIVE TO CaCO3)	MG/L
TOT.SUS.SOLIDS(EPA160.2)	13.0		MG/L
[redacted]LEC. (EPA 150.1)	6.87	FOR SOIL: EPA SW-846 METH.9045	pH UNITS

[redacted]

AR202159

medlab
Environmental Testing Inc.
Cherry Lane
Castle, DE 19720
(302) 655-LABS
1-800-MEDLAB-1
(outside DE)

TO: Ø
CIBA-GEIGY
JAMES & WATER STS
NEWPORT, DE 19804

SOURCE SITE 008, OUTFALL
MATRIX WATER
SAMPLE TIME: 1:57 PM
SAMPLE DATE: 01/08/90
LAB NO. 01016544
REMARKS

SAMPLE RECEIVED 01/08/90 REPORT DATE 01/24/90 FINAL REPORT

REPORT

TESTS	RESULTS	RANGE/COMMENTS	UNITS
ALUMINUM, AA (EPA 202.1)	0.232	MDL=0.1	MG/L
COPPER, AA (EPA 220.1)	0.073	MDL=0.01	MG/L
IRON, AA (EPA 236.1)	1.76	MDL=0.01	MG/L
ZINC, AA (EPA 289.1)	0.77	MDL=0.001	MG/L
HARDNESS (EPA 130.2)	100.0	(CONC. RELATIVE TO [illegible]	MG/L
TOT. SUS. SOLIDS (EPA 160.2)	25.0		MG/L
pH, ELEC. (EPA 150.1)	6.44	FOR SOIL: EPA SW-846 METH. 9045	pH UNITS

[redacted]

AR202160

medlab
[redacted]mental Testing Inc.
[redacted]erry Lane
[redacted]astle, DE 19720
[redacted]655-LABS
[redacted]800-MEDLAB-1
(outside DE)

TO: Ø
CIBA-GEIGY
JAMES & WATER STS
NEWPORT, DE 19804

SOURCE SITE 009, OUTFALL
MATRIX WATER
SAMPLE TIME: 1:45 PM
SAMPLE DATE: 01/08/90
LAB NO. 01016545
REMARKS

SAMPLE RECEIVED 01/08/90 REPORT DATE 01/24/90 FINAL REPORT

REPORT

TESTS	RESULTS	RANGE/COMMENTS	UNITS
ALUMINUM, AA (EPA 202.1)	0.692	MDL=0.1	MG/L
COPPER, AA (EPA 220.1)	0.159	MDL=0.01	MG/L
IRON, AA (EPA 236.1)	2.92	MDL=0.01	MG/L
ZINC, AA (EPA 289.1)	0.67[redacted]	MDL=0.001	MG/L
HARDNESS (EPA 130.2)	44.0	(CONC. RELATIVE TO C[redacted]	
TOT. SUS. SOLIDS (EPA160.2)	78.[redacted]		MG/L
[redacted]LEC. (EPA 150.1)	6.71		pH UNITS

FOR SOIL: EPA SW-846 METH.9045

[redacted]

AR202161

FCH 2/5/90

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RECEIVED JAN 11 1990

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Mr. Joseph J. Sasso
Ciba Geigy Corporation
James & Water Streets
Newport, Delaware 19804

Account Number: 70600187
Date Sampled: 12/15/89
Date Received: 12/15/89
Sampled by: ALI
Lab Id Number: PM 10597
P.O. #: X003773
Report Date: 01 08 90

All Results in mg/L unless noted differently

ANALYSIS RESULTS

Outfall 001			MDL	Date-Time Analyzed	Tech	Method
Cadmium		0.10	--	121989-0920	ST	EPA 213.1
Copper		0.04	--	121889-1530	ST	EPA 220.1
Nickel		0.10	--	121989-1030	ST	EPA 249.1
Zinc		4.4	--	121989-1215	ST	EPA 289.1
Silver		ND	0.01	121889-1610	ST	EPA 272.1
Selenium		0.003	--	121889-1645	AM	EPA 270.2
Total Hardness		130.	--	121889-0915	AM	EPA 130.2
Total Cyanide		ND	0.02	121889-0900	PB	EPA 335.2
Acrolein	(µg/L)	ND	5.	122689-1851	TDS	EPA 603
Acrylonitrile	(µg/L)	ND	5.	122689-1851	TDS	EPA 603

N.D.= The compound indicated was not detected above the Method Detection Limit (MDL) listed for the method performed.

EPA Chemical Analysis for Water and Wastewater, 600/4-79-020, March, 1979

Quality Control Data (Samples split in Laboratory)

Test	Sample	Duplicate	Sample With Spike	Spike Amt Added	Percent Recovery
Cadmium	0.10	0.10	0.15	0.05	100.
Copper	0.04	0.04	0.09	0.05	100.
Nickel	0.10	0.09	0.15	0.05	100.
Zinc	4.4	4.4	4.47	0.05	140.
Silver	ND	ND	0.04	0.05	80.
Selenium	0.003	0.004	0.012	0.010	120.
Total Hardness	130.	130.	170.	40.	100.
Total Cyanide	ND	ND	0.11	0.1	110.
Acrolein	ND	ND	21.8	21.	104.8
Acrylonitrile	ND	ND	18.5	22.	82.6

.D.= The compound indicated was not detected above the Method Detection Limit (MDL) listed for the method performed.

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ARTESIAN LABORATORIES, INC.

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Artesian Resources Corporation

Mr. Joseph J. Sasso
Ciba Geigy Corporation
James & Water Streets
Newport, Delaware 19804

Account Number: 70600187
Date Sampled: 12/15/89
Date Received: 12/15/89
Sampled by: Al I
Lab Id Number: PM 10597
P.O. #: X003773
Report Date: 01/08/90

Sample ID: Outfall 001 121589-1545

Results are in µg/L

Analysis Results

VOLATILE COMPOUNDS Date-Time Analyzed: 122289-0029 Tech: SH

Compound	Amount Found	MDL	Compound	Amount Found	MDL
EPA 602					
			2-Chloroethylvinyl ether	ND	0.1
			Dibromochloromethane	ND	0.2
Benzene	ND	0.3	Dichlorodifluoromethane	ND	1.0
Ethylbenzene	ND	0.2	1,1-Dichloroethane	ND	0.1
Toluene	ND	0.6	1,2-Dichloroethane	ND	0.1
1,2-Dichlorobenzene	9.9		1,1-Dichloroethene	ND	0.8
1,3-Dichlorobenzene	ND	0.3	1,2-Dichloropropane	ND	0.2
1,4-Dichlorobenzene	4.2		cis-1,3-Dichloropropene	ND	0.7
			trans-1,3-Dichloropropene	ND	0.3
			Bromodichloromethane	ND	1.8
			Methylene Chloride	ND	1.2
EPA 601			Chlorobenzene	4.5	
			1,1,2,2-Tetrachloroethane	ND	0.3
Chloromethane	ND	1.0	1,2-Dichloroethene	1.0	
Bromoform	ND	0.5	1,1,1-Trichloroethane	ND	0.2
Carbon Tetrachloride	ND	0.2	1,1,2-Trichloroethane	ND	0.2
Bromomethane	ND	0.2	Trichlorofluoromethene	ND	0.6
Chloroethane	ND	0.4	Vinyl Chloride	ND	0.1
Trichloroethene	ND	0.4	Tetrachloroethene	49.9	
Chloroform	0.4				

N.D.= The compound indicated was not detected above the Method Detection Limit (MDL) listed for the method performed.

Method References: EPA - EPA-600/4-79-020

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Mr. Joseph J. Sasso
Ciba Geigy Corporation
James & Water Streets
Newport, Delaware 19804

Account Number: 70600187
Date Sampled: 12 15 89
Date Received: 12 15 89
Sampled by: GI I
Lab Id Number: PH 10597
P.O. #: X0038773
Report Date: 01 08 90

Sample ID: Outfall 001 Duplicate

Results are in µg/L

Analysis Results

VOLATILE COMPOUNDS Date-Time Analyzed: 122289-0137 Tech: SH

Compound	Amount Found	MDL	Compound	Amount Found	MDL
EPA 602					
			2-Chloroethylvinyl ether	ND	0.1
			Dibromochloromethane	ND	0.2
Benzene	ND	0.3	Dichlorodifluoromethane	ND	1.0
Ethylbenzene	ND	0.2	1,1-Dichloroethane	ND	0.1
Toluene	ND	0.6	1,2-Dichloroethane	ND	0.1
1,2-Dichlorobenzene	5.9		1,1-Dichloroethene	ND	0.8
1,3-Dichlorobenzene	ND	0.3	1,2-Dichloropropane	ND	0.2
1,4-Dichlorobenzene	ND	0.3	cis-1,3-Dichloropropene	ND	0.7
			trans-1,3-Dichloropropene	ND	0.3
			Bromodichloromethane	ND	1.8
			Methylene Chloride	ND	1.2
EPA 601			Chlorobenzene	ND	0.1
			1,1,2,2-Tetrachloroethane	ND	0.3
Chloromethane	ND	1.0	1,2-Dichloroethene	1.0	
Bromoform	ND	0.5	1,1,1-Trichloroethane	ND	0.2
Carbon Tetrachloride	ND	0.2	1,1,2-Trichloroethane	ND	0.2
Bromomethane	ND	0.2	Trichlorofluoromethene	ND	0.6
Chloroethane	ND	0.4	Vinyl Chloride	ND	0.1
Trichloroethene	ND	0.4	Tetrachloroethene	46.9	
Chloroform	0.4				

N.D.= The compound indicated was not detected above the Method Detection Limit (MDL) listed for the method performed.

Method References: EPA - EPA-600/4-79-020

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Mr. Joseph J. Sasso
Ciba Geigy Corporation
James & Water Streets
Newport, Delaware 19804

Account Number: 70600187
Date Sampled: 12 15/89
Date Received: 12/15/89
Sampled by: ALI
Lab Id Number: PM 10597
P.O. #: X003773
Report Date: 01/08/90

Sample ID: Field Blank

Results are in ug/L

Analysis Results

VOLATILE COMPOUNDS Date-Time Analyzed: 122189-2211 Tech: SH

Compound	Amount Found	MDL	Compound	Amount Found	MDL
EPA 602					
			2-Chloroethylvinyl ether	ND	0.1
			Dibromochloromethane	ND	0.2
Benzene	ND	0.3	Dichlorodifluoromethane	ND	1.0
Ethylbenzene	ND	0.2	1,1-Dichloroethane	ND	0.1
Toluene	ND	0.6	1,2-Dichloroethane	ND	0.1
1,2-Dichlorobenzene	ND	0.3	1,1-Dichloroethene	ND	0.8
1,3-Dichlorobenzene	ND	0.3	1,2-Dichloropropane	ND	0.2
1,4-Dichlorobenzene	ND	0.3	cis-1,3-Dichloropropene	ND	0.7
			trans-1,3-Dichloropropene	ND	0.3
			Bromodichloromethane	ND	1.8
			Methylene Chloride	ND	1.2
EPA 601			Chlorobenzene	ND	0.1
			1,1,2,2-Tetrachloroethane	ND	0.3
Chloromethane	ND	1.0	1,2-Dichloroethene	ND	0.2
Bromoform	ND	0.5	1,1,1-Trichloroethane	ND	0.2
Carbon Tetrachloride	ND	0.2	1,1,2-Trichloroethane	ND	0.2
Bromomethane	ND	0.2	Trichlorofluoromethene	ND	0.6
Chloroethane	ND	0.4	Vinyl Chloride	ND	0.1
Trichloroethene	ND	0.4	Tetrachloroethene	ND	0.3
Chloroform	ND	0.2			

N.D.= The compound indicated was not detected above the Method Detection Limit (MDL) listed for the method performed.

Method References: EPA - EPA-600/4-79-020

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Ciba Geigy Corporation
James & Water Streets
Newport, Delaware 19804

Account Number: 70600187
Date Sampled: 12/15/89
Date Received: 12/15/89
Sampled by: ALI
Lab Id Number: PM 10597
P.O. #: X003773
Report Date: 01/08/90

Sample ID: Trip Blank

Results are in µg/L

Analysis Results

VOLATILE COMPOUNDS Date-Time Analyzed: 122189-2320 Tech: SH

Compound	Amount Found	MDL	Compound	Amount Found	MDL
EPA 602					
			2-Chloroethylvinyl ether	ND	0.1
			Dibromochloromethane	ND	0.2
Benzene	ND	0.3	Dichlorodifluoromethane	ND	1.0
Ethylbenzene	ND	0.2	1,1-Dichloroethane	ND	0.1
Toluene	ND	0.6	1,2-Dichloroethane	ND	0.1
1,2-Dichlorobenzene	ND	0.3	1,1-Dichloroethene	ND	0.8
1,3-Dichlorobenzene	ND	0.3	1,2-Dichloropropane	ND	0.2
1,4-Dichlorobenzene	ND	0.3	cis-1,3-Dichloropropene	ND	0.7
			trans-1,3-Dichloropropene	ND	0.3
			Bromodichloromethane	ND	1.8
			Methylene Chloride	ND	1.2
EPA 601			Chlorobenzene	ND	0.1
			1,1,2,2-Tetrachloroethane	ND	0.3
Chloromethane	ND	1.0	1,2-Dichloroethene	ND	0.2
Bromoform	ND	0.5	1,1,1-Trichloroethane	ND	0.2
Carbon Tetrachloride	ND	0.2	1,1,2-Trichloroethane	ND	0.2
Bromomethane	ND	0.2	Trichlorofluoromethene	ND	0.6
Chloroethane	ND	0.4	Vinyl Chloride	ND	0.1
Trichloroethene	ND	0.4	Tetrachloroethene	ND	0.3
Chloroform	ND	0.2			

N.D.= The compound indicated was not detected above the Method Detection Limit (MDL) listed for the method performed.

Method References: EPA - EPA-600/4-79-020

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Mr. Joseph J. Sasso
Ciba Geigy Corporation
James & Water Streets
Newport, Delaware 19804

Account Number: 70600187
Date Sampled: 12/15/89
Date Received: 12/15/89
Sampled by: AL
Lab Id Number: PM 10597
P.O. #: X003773
Report Date: 01/08/90

Sample ID: Outfall 001

Results are in µg/L

Analysis Results

VOLATILE COMPOUNDS Date-Time Analyzed: 122289-0029 Tech: SH

Compound	Spike Amt.	Percent Recovery	Compound	Spike Amt.	Percent Recovery
EPA 602					
			2-Chloroethylvinyl ether	--	--
			Dibromochloromethane	0.6	120.
Benzene	6.2	221.	Dichlorodifluoromethane	1.6	200.
Ethylbenzene	0.6	100.	1,1-Dichloroethane	1.2	110.
Toluene	1.2	110.	1,2-Dichloroethane	1.2	120.
1,2-Dichlorobenzene	8.3	--	1,1-Dichloroethene	0.7	117.
1,3-Dichlorobenzene	0.8	200.	1,2-Dichloropropane	ND	--
1,4-Dichlorobenzene	1.5	--	cis-1,3-Dichloropropene	0.7	100.
			trans-1,3-Dichloropropene	0.6	120.
			Bromodichloromethane	0.6	150.
			Methylene Chloride	1.0	125.
EPA 601			Chlorobenzene	5.3	200.
			1,1,2,2-Tetrachloroethane	44.2	--
Chloromethane	1.8	100.	1,2-Dichloroethene	3.4	300.
Bromoform	ND	--	1,1,1-Trichloroethane	0.5	125.
Carbon Tetrachloride	0.7	175.	1,1,2-Trichloroethane	0.6	120.
Bromomethane	0.4	133.	Trichlorofluoromethene	0.7	175.
Chloroethane	0.5	125.	Vinyl Chloride	1.6	200.
Trichloroethene	2.6	371.	Tetrachloroethene	44.2	--
Chloroform	1.4	125.			

N.D.= The compound indicated was not detected above the Method Detection Limit (MDL) listed for the method performed.

Method References: EPA - EPA-600/4-79-020

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Mr. Joseph J. Sasso
Ciba Geigy Corporation
James & Water Streets
Newport, Delaware 19804

Account Number: 70600187
Date Sampled: 12/15/89
Date Received: 12/15/89
Sampled by: ALI
Lab Id Number: PM 10597
P.O. #: X003773
Report Date: 01/08/90

Sample Location: Outfall 001

Results are in µg/l.

Base/Neutral Extractables (EPA 625) Analysis Date-Time-Tech: 122889-2240TDS

Compound Name	Amount Found	MDL	Compound Name	Amount Found	MDL
N-nitrosodiethylamine	ND	10.	4-Chlorophenylphenylether	ND	10.
Bis(2-chloroethyl)ether	ND	10.	N-nitrosodiphenylamine	ND	10.
1,3-Dichlorobenzene	ND	10.	Azobenzene	ND	10.
1,4-Dichlorobenzene	ND	10.	4-Bromophenylphenylether	ND	10.
1,2-Dichlorobenzene	ND	10.	Hexachlorobenzene	ND	10.
N-nitrosodi-n-propylamine	ND	10.	Phenanthrene	ND	10.
Bis(2-chloroisopropyl)ether	ND	10.	Anthracene	ND	10.
Hexachloroethane	ND	10.	Dibutylphthalate	ND	10.
Nitrobenzene	ND	10.	Fluoranthene	ND	10.
Isophorone	ND	10.	Benzidine	ND	44.
Bis(2-chloroethoxy)methane	ND	10.	Pyrene	ND	10.
1,2,4-Trichlorobenzene	ND	10.	Butylbenzylphthalate	ND	10.
Naphthalene	ND	10.	3,3'-Dichlorobenzidine	ND	17.
Hexachlorobutadiene	ND	10.	Benzo(a)anthracene	ND	10.
Hexachlorocyclopentadiene	ND	10.	Chrysene	ND	10.
2-Chloronaphthalene	ND	10.	Bis(2-ethylhexyl)phthalate	17.	
Dimethylphthalate	ND	10.	Di-n-octylphthalate	ND	10.
Acenaphthylene	ND	10.	Benzo(b)fluoranthene	ND	10.
2,6-Dinitrotoluene	ND	10.	Benzo(k)fluoranthene	ND	10.
Acenaphthene	ND	10.	Indeno(1,2,3-c,d)pyrene	ND	10.
2,4-Dinitrotoluene	ND	10.	Benzo(a)pyrene	ND	10.
Diethylphthalate	ND	10.	Dibenzo(a,h)anthracene	ND	10.
Fluorene	ND	10.	Benzo(ghi)perylene	ND	10.

"Methods for the Determination of Organic Compounds in Drinking Water and Raw Source Water", EMSL-CI, September 1986

N.D.= The compound indicated was not detected above the Method Detection Limit (MDL) listed for the method performed.

AR202168

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ARTESIAN LABORATORIES, INC.

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Mr. Joseph J. Sasso
Ciba Geigy Corporation
James & Water Streets
Newport, Delaware 19804

Account Number: 70600187
Date Sampled: 12/15/89
Date Received: 12/15/89
Sampled by: ALI
Lab Id Number: PM 10597
P.O. #: X003773
Report Date: 01/08/90

Sample Location: Outfall 001 Results are in µg/L

Acid Extractables (EPA 625) Analysis Date-Time-Tech: 122889-2240TDS

Compound Name	Amount Found	MDL
Phenol	ND	10.
2-Chlorophenol	ND	10.
2-Nitrophenol	ND	10.
2,4-Dimethylphenol	ND	10.
2,4-Dichlorophenol	ND	10.
4-Chloro-3-methylphenol	ND	10.
2,4,6-Trichlorophenol	ND	10.
2,4-Dinitrophenol	ND	50.
4-Nitrophenol	ND	10.
2-Methyl-4,6-dinitrophenol	ND	25.
Pentachlorophenol	ND	10.

"Methods for the Determination of Organic Compounds in Drinking Water and Raw Source Water", EMSL-CI, September 1982

N.D.= The compound indicated was not detected above the Method Detection Limit (MDL) listed for the method performed.

AR202169

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Mr. Joseph J. Sasso
Ciba Geigy Corporation
James & Water Streets
Newport, Delaware 19804

Account Number: 70600187
Date Sampled: 12/15/89
Date Received: 12/15/89
Sampled by: ALI
Lab Id Number: PM 10597
P.O. #: X0037773
Report Date: 01/08/90

Sample Location: Outfall 001 Duplicate Results are in µg/L

Base/Neutral Extractables (EPA 625) Analysis Date-Time-Tech:122889-2359TDS

Compound Name	Amount Found	MDL	Compound Name	Amount Found	MDL
N-nitrosodimethylamine	ND	10.	4-Chlorophenylphenylether	ND	10.
Bis(2-chloroethyl)ether	ND	10.	N-nitrosodiphenylamine	ND	10.
1,3-Dichlorobenzene	ND	10.	Azobenzene	ND	10.
1,4-Dichlorobenzene	ND	10.	4-Bromophenylphenylether	ND	10.
1,2-Dichlorobenzene	ND	10.	Hexachlorobenzene	ND	10.
N-nitrosodi-n-propylamine	ND	10.	Phenanthrene	ND	10.
Bis(2-chloroisopropyl)ether	ND	10.	Anthracene	ND	10.
Hexachloroethane	ND	10.	Dibutylphthalate	ND	10.
Nitrobenzene	ND	10.	Fluoranthene	ND	10.
Isophorone	ND	10.	Benzidine	ND	44.
Bis(2-chloroethoxy)methane	ND	10.	Pyrene	ND	10.
1,2,4-Trichlorobenzene	ND	10.	Butylbenzylphthalate	ND	10.
Naphthalene	ND	10.	3,3'-Dichlorobenzidine	ND	17.
Hexachlorobutadiene	ND	10.	Benzo(a)anthracene	ND	10.
Hexachlorocyclopentadiene	ND	10.	Chrysene	ND	10.
2-Chloronaphthalene	ND	10.	Bis(2-ethylhexyl)phthalate	13.	
Dimethylphthalate	ND	10.	Di-n-octylphthalate	ND	10.
Acenaphthylene	ND	10.	Benzo(b)fluoranthene	ND	10.
2,6-Dinitrotoluene	ND	10.	Benzo(k)fluoranthene	ND	10.
Acenaphthene	ND	10.	Indeno(1,2,3-c,d)pyrene	ND	10.
2,4-Dinitrotoluene	ND	10.	Benzo(a)pyrene	ND	10.
Diethylphthalate	ND	10.	Dibenzo(a,h)anthracene	ND	10.
Fluorene	ND	10.			

"Methods for the Determination of Organic Compounds in Drinking Water and Raw Source Water", EMSL-CI, September 1986

N.D.= The compound indicated was not detected above the Method Detection Limit (MDL) listed for the method performed.

AR202170

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Maryland Department of Public Health Certified
Pennsylvania Department of Environmental Resources Certified

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(302) 734-8417

ARTESIAN LABORATORIES, INC.

A wholly owned subsidiary of
Artesian Resources Corporation

Mr. Joseph J. Sasso
Ciba Geigy Corporation
James & Water Streets
Newport, Delaware 19804

Account Number: 70600187
Date Sampled: 12/15/89
Date Received: 12/15/89
Sampled by: ALI
Lab Id Number: PM 10597
P.O. #: X003773
Report Date: 01/08/90

Sample Location: Outfall 001 Duplicate Results are in µg/L

Acid Extractables (EPA 625) Analysis Date-Time-Tech: 122889-2359TDS

Compound Name	Amount Found	MDL
Phenol	ND	10.
2-Chlorophenol	ND	10.
2-Nitrophenol	ND	10.
2,4-Dimethylphenol	ND	10.
2,4-Dichlorophenol	ND	10.
4-Chloro-3-methylphenol	ND	10.
2,4,6-Trichlorophenol	ND	10.
2,4-Dinitrophenol	ND	50.
4-Nitrophenol	ND	10.
2-Methyl-4,6-dinitrophenol	ND	25.
Pentachlorophenol	ND	10.

"Methods for the Determination of Organic Compounds in Drinking Water and Raw Source Water", EMSL-CI, September 1986

N.D.= The compound indicated was not detected above the Method Detection Limit (MDL) listed for the method performed.

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Newport, Delaware 19804

Account Number: 70600187
Date Sampled: 12/15/89
Date Received: 12/15/89
Sampled by: ALI
Lab Id Number: PM 10597
P.O. #: X003773
Report Date: 01/08/90

Sample Location: Outfall 001

Results are in µg/L

Base/Neutral Extractables (EPA 625) Analysis Date-Time-Tech: 122289-0517TDS

Compound Name	Spike Amount Found	Percent Recovery	Compound Name	Spike Amount Found	Percent Recovery
N-nitrosodimethylamine	21.	20.8	4-Chlorophenylphenylether	80.	80.0
Bis(2-chloroethyl)ether	57.	56.8	N-nitrosodiphenylamine	89.	88.5
1,3-Dichlorobenzene	38.	38.3	Azobenzene	85.	85.3
1,4-Dichlorobenzene	39.	38.9	4-Bromophenylphenylether	60.	59.8
1,2-Dichlorobenzene	44.	44.0	Hexachlorobenzene	89.	89.1
N-nitrosodi-n-propylamine	63.	62.8	Phenanthrene	89.	89.1
Bis(2-chloroisopropyl)ether	54.	54.3	Anthracene	85.	85.3
Hexachloroethane	37.	37.2	Dibutylphthalate	82.	82.3
Nitrobenzene	63.	63.2	Fluoranthene	90.	90.4
Isophorone	75.	74.7	Benzidine	63.	62.6
Bis(2-chloroethoxy)methane	74.	73.6	Pyrene	95.	94.6
1,2,4-Trichlorobenzene	58.	58.4	Butylbenzylphthalate	86.	86.4
Naphthalene	62.	61.8	3,3'-Dichlorobenzidine	73.	73.9
Hexachlorobutadiene	57.	56.7	Benzo(a)anthracene	43.	42.6
Hexachlorocyclopentadiene	53.	52.7	Chrysene	93.	92.5
2-Chloronaphthalene	74.	74.1	Bis(2-ethylhexyl)phthalate	100.	100.
Dimethylphthalate	72.	71.6	Di-n-octylphthalate	73.	73.4
Acenaphthylene	76.	76.0	Benzo(b)fluoranthene	85.	85.2
2,6-Dinitrotoluene	87.	87.2	Benzo(k)fluoranthene	84.	84.9
Acenaphthene	77.	77.4	Indeno(1,2,3-c,d)pyrene	57.	57.3
2,4-Dinitrotoluene	88.	88.1	Benzo(a)pyrene	87.	86.7
Diethylphthalate	80.	80.2	Dibenzo(a,h)anthracene	44.	43.6
Fluorene	87.	86.7			

"Methods for the Determination of Organic Compounds in Drinking Water and Raw Source Water", EMSL-CI, September 1986
All were spiked at 100. µg/L.
N.D.= The compound indicated was not detected above the Method Detection Limit (MDL) listed for the method performed.

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ARTESIAN LABORATORIES, INC.

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Artesian Resources Corporation

Mr. Joseph J. Sasso
Ciba Geigy Corporation
James & Water Streets
Newport, Delaware 19804

Account Number: 70600187
Date Sampled: 12/15/89
Date Received: 12/15/89
Sampled by: ALI
Lab Id Number: PM 10597
P.O. #: X003773
Report Date: 01/08/90

Sample Location: Outfall 001 Results are in µg/L

Acid Extractables (EPA 625) Analysis Date-Time-Tech: 122889-2359TDS

Compound Name	Spike Amount Found	Percent Recovery
Phenol	42.	35.2
2-Chlorophenol	76.	63.4
2-Nitrophenol	68.	56.4.
2,4-Dimethylphenol	67.	55.6
2,4-Dichlorophenol	14.6	121.
4-Chloro-3-methylphenol	94.	77.9
2,4,6-Trichlorophenol	72.	60.2
2,4-Dinitrophenol	96.	79.9
4-Nitrophenol	63.	52.4
2-Methyl-4,6-dinitrophenol	128.	73.6
Pentachlorophenol	111.	92.8

"Methods for the Determination of Organic Compounds in Drinking Water and Raw Source Water", EMSL-CI, September 1986

All are spiked at 120. µg/L except for 2-Methyl-4,6-dinitrophenol.

N.D.= The compound indicated was not detected above the Method Detection Limit (MDL) listed for the method performed.

Marlene O. Frey
VICE PRESIDENT

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medlab
Environmental Testing Inc.
Cherry Lane
Castle, DE 19720
(302) 655-LABS
1-800-MEDLAB-1
(outside DE)

TO: 2525
CIBA GEIGY CORP.
JAMES AND WATER STREETS
NEWPORT, DE 19804

SOURCE OUTFALL 005,
MATRIX WATER
SAMPLE TIME 10:10 AM
SAMPLE DATE 01/25/90
LAB NO. 01033323
REMARKS 03

SAMPLE RECEIVED 01/25/90 REPORT DATE 02/13/90 FINAL REPORT

REPORT

TESTS	RESULTS	RANGE/COMMENTS	UNITS
IRON, AA (EPA 236.1)	12.06 .. MDL=0.010		MG/L
COPPER, AA (EPA 220.1)	0.038 .. MDL=0.010		MG/L
ALUMINUM, AA (EPA 202.1)	1.19 .. MDL=0.040		MG/L
ZINC, AA (EPA 289.1)	0.134 .. MDL=0.001		MG/L
HARDNESS (EPA 130.2)	18.0	(CONC. RELATIVE TO CaCO3)	MG/L
pH, ELEC. (EPA 150.1)	7.3	FOR SOIL: EPA SW-846 METH. 9045	pH UNITS
TOT.SUS.SOLIDS(EPA160.2)	44.0		MG/L

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0-MEDLAB-1
(outside DE)

TO: 2525
CIBA GEIGY CORP.
JAMES AND WATER STREETS
NEWPORT, DE 19804

SOURCE OUTFALL 006,
MATRIX WATER
SAMPLE TIME: 9:55 AM
SAMPLE DATE: 01/25/90
LAB NO. 01033324
REMARKS 04

ORIGINAL (Red)

SAMPLE RECEIVED 01/25/90 REPORT DATE 02/13/90 FINAL REPORT

REPORT

TESTS	RESULTS	RANGE/COMMENTS	UNITS
IRON, AA (EPA 236.1)	0.572 .. MDL=0.010		MG/L
COPPER, AA (EPA 220.1)	0.044 .. MDL=0.010		MG/L
ALUMINUM, AA (EPA 202.1)	0.550 .. MDL=0.100		MG/L
ZINC, AA (EPA 289.1)	0.894 .. MDL=0.001		MG/L
HARDNESS (EPA 130.2)	26.0	(CONC. RELATIVE TO CaCO3)	MG/L
pH, ELEC. (EPA 150.1)	6.6	FOR SOIL: EPA SW-846 METH. 9045	PH UNITS
TOT.SUS.SOLIDS(EPA160.2)	11.0		MG/L

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New Castle, DE 19720
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(800)-MEDLAB-1
(outside DE)

TO: 2525
CIBA GEIGY CORP.
JAMES AND WATER STREETS
NEWPORT, DE 19804

SOURCE OUTFALL 008,
MATRIX WATER
SAMPLE TIME. 9:35 AM
SAMPLE DATE. 01/25/90
LAB NO. 01033325
REMARKS 05

SAMPLE RECEIVED 01/25/90 REPORT DATE 02/13/90 FINAL REPORT

REPORT

TESTS	RESULTS	RANGE/COMMENTS	UNITS
IRON, AA (EPA 236.1)	2.31 .. MDL=0.010		MG/L
COPPER, AA (EPA 220.1)	0.016 .. MDL=0.010		MG/L
ALUMINUM, AA (EPA 202.1)	0.945 .. MDL=0.100		MG/L
ZINC, AA (EPA 289.1)	0.566 .. MDL=0.001		MG/L
HARDNESS (EPA 130.2)	34.0	(CONC. RELATIVE TO CaCO3)	MG/L
pH, ELEC. (EPA 150.1)	6.9	FOR SOIL: EPA SW-846 METH.9045	pH UNITS
TOT.SUS.SOLIDS(EPA160.2)	125.0		MG/L

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(Outside DE)

TO: 2525
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JAMES AND WATER STREETS
NEWPORT, DE 19804

SOURCE OUTFALL 009,
MATRIX WATER
SAMPLE TIME. 9:45 AM
SAMPLE DATE. 01/25/90
LAB NO. 01033326
REMARKS 06

SAMPLE RECEIVED 01/25/90 REPORT DATE 02/13/90 FINAL REPORT

REPORT

TESTS	RESULTS	RANGE/COMMENTS	UNITS
IRON, AA (EPA 236.1)	0.774 .. MDL=0.010		MG/L
COPPER, AA (EPA 220.1)	0.023 .. MDL=0.010		MG/L
ALUMINUM, AA (EPA 202.1)	10.60 .. MDL=0.100		MG/L
ZINC, AA (EPA 289.1)	0.322 .. MDL=0.001		MG/L
HARDNESS (EPA 130.2)	16.0	(CONC. RELATIVE TO CaCO3)	MG/L
pH, ELEC. (EPA 150.1)	6.9	FOR SOIL: EPA SW-846 METH. 9045	pH UNITS
TOT. SUS. SOLIDS (EPA160.2)	30.0		MG/L

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