SECTION

3

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)*: LA0003301/WP1561

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. 441

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) 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	3. UNITS (specify if blank) a. CONCENTRATION	b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)		Internal	outfall 441	does not	flow in	dry weather.	No 2C	testing	could be	done.	Please	
b. Chemical Oxygen Demand (COD)		refer to	2F data	for internal	outfall 441.	Historical	data listed	below	was obtained	on grab		
c. Total Organic Carbon (TOC)		samples	as required	by our	present	NPDES	permit.	The	unanswered	portions	of this	form are
d. Total Suspended Solids (TSS)		not	applicable.									
e. Ammonia (as N)												
f. Flow	VALUE 0.581		VALUE 0.581		VALUE 0.184		11	MGD		VALUE		
g. Temperature (winter)	VALUE **		VALUE		VALUE			°C		VALUE		
h. Temperature (summer)	VALUE **		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM ***	MAXIMUM	MINIMUM	MAXIMUM				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 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 definitions.

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	3. UNITS a. CONCENTRATION	b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)														
b. Chlorine, Total Residual														
c. Color														
d. Fecal Coliform														
e. Fluoride (16984-48-8)														
f. Nitrate-Nitrite (as N)														

Total Oxygen

g. Nitrogen, Total organic (as N)														
h. Oil and Grease														
i. Phosphorus (as P), Total (7723-14-0)														
j. Radioactivity														
(1) Alpha, Total														
(2) Beta, Total														
(3) Radium, Total														
(4) Radium 226, Total														
k. Sulfate (as SO_4) (14808-79-8)														
l. Sulfide (as S)														
m. Sulfite (as SO_3) (14265-45-3)														
n. Surfactants														
o. Aluminum, Total (7429-90-5)														
p. Barium, Total (7440-39-3)														
q. Boron, Total (7440-42-8)														
r. Cobalt, Total (7440-48-4)														
s. Iron, Total (7439-89-6)														
t. Magnesium, Total (7439-95-4)														
u. Molybdenum, Total (7439-98-7)														
v. Manganese, Total (7439-96-5)														

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
LA0003301/WP1561	441

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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. Test Not 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	e. CONCEN-TRATION	f. 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)															
2M. Arsenic, Total (7440-38-2)															
3M. Beryllium, Total, (7440-41-7)															
4M. Cadmium, Total (7440-43-9)															
5M. Chromium, Total (7440-47-3)															
6M. Copper, Total (7440-50-8)															
7M. Lead, Total (7439-92-1)															
8M. Mercury, Total (7439-97-6)															
9M. Nickel, Total (7440-02-0)															
10M. Selenium, Total (7782-49-2)															
11M. Silver, Total (7440-22-4)															
12M. Thallium, Total (7440-28-0)															
13M. Zinc, Total (7440-66-6)															
14M. Cyanide, Total (57-12-5)															
15M. Phenols, Total															
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-p-dioxin (1746-01-6)				DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. [illegible]	b. [illegible]	c. [illegible]	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVRG. VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)															
2V. Acrylonitrile (107-13-1)															
3V. Benzene (71-43-2)															
4V. Bis (*Chloromethyl*) Ether (542-88-1)															
5V. Bromoform (75-25-2)															
6V. Carbon Tetrachloride (56-23-5)															
7V. Chlorobenzene (108-90-7)															
8V. Chlorodibromomethane (124-48-1)															
9V. Chloroethane (75-00-3)															
10V. 2-Chloroethylvinyl Ether (110-75-8)															
11V. Chloroform (67-66-3)															
12V. Dichlorobromomethane (75-27-4)															
13V. Dichlorodifluoromethane (75-71-8)															
14V. 1,1-Dichloroethane (75-34-3)															
15V. 1,2-Dichloroethane (107-06-2)															
16V. 1,1-Dichloroethylene (75-35-4)															
17V. 1,2-Dichloropropane (78-87-5)		X		0.522	1	0.522	1	0.111	0.11	11	mg/l	lb			
18V. 1,3-Dichloropropylene (542-75-6)															
19V. Ethylbenzene (100-41-4)															
20V. Methyl Bromide (74-83-9)															
21V. Methyl Chloride (74-87-3)															

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LPDES NUMBER (copy from Item 1 on page 1): LA0003301/WP1561

OUTFALL NUMBER: 441

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. Believed present	b. Believed absent	c. Analysis not required	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 AVRG. VALUE		b. No. of ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
22V Methylene Chloride (75 09-2)															
23V 1,1,2,2 Tetra chloroethane (79-34 5)															
24V. Tetrachloro ethylene (127-18 4)															
25V Toluene (108 88-3)															
26V. 1,2-Trans Dichloroethylene (156-60-5)															
27V. 1,1,1 Tri-chloroethane (71 55 6)															
28V 1,1,2-Tri chloroethane (79-00 5)															
29V. Trichloro-ethylene (79-01-6)															
30V. Trichloro fluoromethane (75-69 4)															
31V Vinyl Chloride (75-01-4)															
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2 Chlorophenol (95-57 8)															
2A 2,4-Dichloro phenol (120 83 2)															
3A. 2,4-Dimethyl phenol (105-67 9)															
4A. 4,6 Dinitro O Cresol (534 52-1)															
5A. 2,4 Dinitro phenol (51-28 5)															
6A. 2-Nitrophenol (88 75-5)															
7A 4 Nitrophenol (100 02-7)															
8A P Chloro M Cresol (59 50 7)															
9A Pentachloro phenol (87 86 5)															
10A Phenol (108 95 2)															
11A 2,4,6 Trichloro phenol (88 06 2)															

CONTINUED FROM THE FRONT

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

EPA I.D. NUMBER (copy from Item 1 of Form 1) LA0003301/WP1561

OUTFALL NUMBER 441

CONTINUED FROM PAGE V-6

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

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. Present in waste water	b. Present in waste water	c. Present in waste water	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 AVRG. VALUE		b. No. of ANALYSES
				(a) CONCENTRATION	(b) MASS	(a) CONCENTRATION	(b) MASS	(a) CONCENTRATION	(b) MASS				(a) CONCENTRATION	(b) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)															
44B. Phenanthrene (85-01-8)															
45B. Pyrene (129-00-0)															
46B. 1,2,4-Trichlorobenzene (120-82-1)															
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)															
2P. α BHC (319-84-6)															
3P. β BHC (319-85-7)															
4P. γ BHC (58-89-9)															
5P. δ BHC (319-86-8)															
6P. Chlordane (57-74-9)															
7P. 4,4'-DDT (50-29-3)															
8P. 4,4'-DDE (72-55-9)															
9P. 4,4'-DDD (72-54-8)															
10P. Dieldrin (60-57-1)															
11P. α-Endosulfan (115-29-7)															
12P. β-Endosulfan (115-29-7)															
13P. Endosulfan Sulfate (1031-07-8)															
14P. Endrin (72-20-8)															
15P. Endrin Aldehyde (7421-93-4)															
[illegible]															

CONTINUED FROM PAGE V-8

EPA I D NUMBER (copy from Item 1 of Form 1) LA0003301/WP1561

OUTFALL NUMBER 441

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

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TREATMENT 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 AVG. VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024 57 3)															
18P. PCB-1242 (53469-21 9)															
19P PCB 1254 (11097 69-1)															
20P. PCB 1221 (11104-28-2)															
21P. PCB-1232 (11141-16-5)															
22P. PCB-1248 (12672 29-6)															
23P. PCB 1260 (11096 82 5)															
24P PCB 1016 (12674-11-2)															
25P. Toxaphene (8001-35 2)															

** Not applicable, internal outfall
*** Not applicable, Division canal pH system

THE DOW CHEMICAL COMPANY
LOUISIANA DIVISION
LA0003301/WP1561

METHODS & QUANTITATION LIMITS FORMS 2C/2F ANALYSES

ANALYSIS	QUANTITATION LIMIT (MG/L)	METHOD
CYANIDE	0.01	412 B&D
BOD	1	507
COD	10	508A
BORON	0.1	404A
TOTAL KJELDAHL N2	1	420A, 417D
COLOR (TRUE/APPARENT)	15 APHA	204A
FOAMING AGENTS	0.1	512B
ORGANIC NITROGEN	1	420A, 417A &D
PHENOLS	0.002	510A&B
FECAL COLIFORM	1 COL/100ML	909C
SULFITE (TITRIMETRIC)	2	377.1
ALUMINUM	0.2	202.1
ANTIMONY	0.1	204.1
ARSENIC	0.01	206.2
BARIUM	0.1	208.1
BERYLLIUM	0.005	210.2
CADMIUM	0.01	213.2
CHROMIUM	0.01	218.2
COBALT	0.05	219.1
COPPER	0.005	220.2
IRON	0.03	236.1
LEAD	0.005	239.2
MAGNESIUM	0.01	242.1
MANAGANESE	0.01	243.1
MERCURY	0.0002	245.1
MOLYBDENUM	0.03	246.1
NICKEL	0.05	249.1
SELENIUM	0.01	270.2
SILVER	0.005	272.2
THALLIUM	0.1	279.2
TIN	1	282.1
TITANUIM	0.3	283.1
ZINC	0.01	289.1
TOTAL PHOSPHORUS	0.1	424C&F
NO2/NO3	0.05	418C
BROMIDE	2	320.1
SULFATE (TURBIDIMETRIC)	5	426C
OIL & GREASE	1	413.1
RESIDUAL CHLORINE	0.05	ORION
TOTAL OXYGEN DEMAND	10	ASTM 3250-77
TOTAL SUSPENDED SOLIDS	1	160.2
TOTAL ORGANIC CARBON	2	415.1
VOLATILE ORGANICS	0.01	601, 602, 624
BASE NEUTRALS	0.01	625
ACID PHENOLS	0.01	625

THE DOW CHEMICAL COMPANY
LOUISIANA DIVISION
LA0003301/WP1561

METHODS & QUANTITATION LIMITS FORMS 2C/2F ANALYSES

ANALYSIS	LIMIT (MG/L)	METHOD
PESTICIDES	0.01	525
AMMONIA	0.01	350.3
SULFIDE	0.01	376.1
pH	0-14 SU	150.1
TEMPERATURE	.5°C	170.1
FLUORIDES	0.2	413B

	PCI/L	METHOD
RADIOLOGICALS		
GROSS ALPHA	0.1	703
GROSS BETA	0.10	703
RADIUM (226)	0.10	705
RADIUM (228)	0.10	706
TOTAL RADIUM	0.10	705

For any test value below the quantitation limit, a zero was used for any required calculation

OUTFALL: Internal Outfall 441

EPA ID Number (copy from item 1 of Form 1): LA0003301/WP1561

Form Approved OMB No 2040-0086
Approval expires 5-31-92

VII. Discharge Information (Continued from page 3 of Form 2F)

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.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Oil and Grease						
Biological Oxygen Demand (BOD5)	PLEASE REFER TO ATTACHED DATA SHEETS.					
Chemical Oxygen Demand (COD)	THE UNANSWERED PORTIONS OF THIS FORM ARE					
Total Suspended Solids (TSS)	NOT APPLICABLE.					
Total Kjeldahl Nitrogen						
Nitrate plus Nitrite Nitrogen						
Total Phosphorus						
pH	Minimum	Maximum	Minimum	Maximum		

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Continued from the Front

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample

1. Date of Storm Event	2. Duration of Storm (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)	7. Season sample was taken	8. Form of Precipitation (rainfall, snowmelt)

9. Provide a description of the method of flow measurement or estimate.

EPA ID Number	STATE PERMIT NUMBER	OUTFALL Internal Outfall 441
LA-0003301	WP1561	

PART VII - A	VII. Pollutant Information (continued from page 3)					
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
Oil and Grease	1 mg/1				1	Glycol 1 Area
	0.02#					
Biological Oxygen Demand (BOD5)	9.0 mg/1	23 mg/1			1	Glycol 1 Area
	0.2#	21#				
Chemical Oxygen Demand (COD)	71 mg/1	96 mg/1			1	Glycol 1 Area
	1.6#	87#				
Total Suspended Solids (TSS)	45 mg/1	12 mg/1			1	Glycol 1 Area
	1.0#	10.8#				
Total Kjeldahl Nitrogen	*	2.2 mg/1			1	Glycol 1 Area
		2.0#				
Nitrate plus Nitrite Nitrogen	0.239 mg/1	0.3 mg/1			1	Glycol 1 Area
	0.005#	0.3#				
Total Phosphorous	0.3 mg/1	*			1	Glycol 1 Area
	0.007#					
pH	****					

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT
**** NOT APPLICABLE - DIVISION CANAL pH SYSTEM

EPA ID Number	STATE PERMIT NUMBER	OUTFALL
LA-0003301	WP1561	Internal Outfall 441

PART VII - B. Pollutants listed under existing NPDES permit.

Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
Total Oxygen		434 mg/l		75 mg/l		
Demand (TOD)		159 #		320 #	11	Glycol 1 Area
1,2 Dichloropropane		0.522mg/l		0.11 mg/l		
(78-87-5)		0.2 #		0.1 #	11	Glycol 1 Area

POUNDS

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
Total Organic Carbon (TOC)	37 mg/l	25 mg/l			1	Glycol I Area
	0.8#	22.6#				
Ammonia (as N)	0.191 mg/l	0.217 mg/l				Glycol I Area
	0.004#	0.2#				
Bromide (24959-67-9)	**					
Chlorine, Total Residual	**					
Color	25/50 APHA	25/30 APHA			1	Glycol I Area
Fecal coliform	**					
Fluoride (16984-48-8)	**					
Sulfate (as SO4) (14808-79-8)	**					

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
Metals, Cyanide, and Total Phenols						
Antimony, Total (7440-36-0)	*	*			1	Glycol 1 Area
Arsenic, Total (7440-38-2)	*	*			1	Glycol 1 Area
Beryllium, Total (7440-41-7)	*	*			1	Glycol 1 Area
Cadmium, Total (7440-43-9)	*	*			1	Glycol 1 Area
Chromium, Total (7440-47-3)	*	*			1	Glycol 1 Area
Copper, Total (7440-50-8)	0.07 mg/1 0.0002#	0.07 mg/1 0.06#			1	Glycol 1 Area
Lead, Total (7439-92-1)	*	*			1	Glycol 1 Area

POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
Metals, Cyanide, and Total Phenols (continued)						
Mercury, Total (7439-97-6)	*	*			1	Glycol 1 Area
Nickel, Total (7440-02-0)	0.25 mg/1 0.01#	0.33 mg/1 0.3#			1	Glycol 1 Area
Selenium, Total (7782-49-2)	*	*			1	Glycol 1 Area
Silver, Total (7440-22-4)	*	*			1	Glycol 1 Area
Thallium, Total (7440-28-0)	*	*			1	Glycol 1 Area
Zinc, Total (7440-66-6)	1.2 mg/1 0.03#	0.58 mg/1 0.5#			1	Glycol 1 Area
Cyanide, Total (57-12-5)	*				1	Glycol 1 Area
Phenols, Total	0.007 mg/1 0.0002#				1	Glycol 1 Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number	STATE PERMIT NUMBER	OUTFALL Internal Outfall 441	PART VII - C
LA-0003301	WP1561		

Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - VOLATILE COMPOUNDS						
Acrolein (107-02-8)	*	*			1	Glycol 1 Area
Acrylonitrile (107-13-1)	*	*			1	Glycol 1 Area
Benzene (71-43-2)	*	*			1	Glycol 1 Area
Bis(chloromethyl)Ether (542-88-1)	*	*			1	Glycol 1 Area
Bromoform (75-25-2)	*	*			1	Glycol 1 Area
Carbon Tetrachloride (56-23-5)	*	*			1	Glycoll Area
Chlorobenzene (108-90-7)	*	*			1	Glycol 1 Area
Chlorodibromomethane (124-48-1)	*	*			1	Glycol 1 Area

@ POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number	STATE PERMIT NUMBER	OUTFALL Internal Outfall 441	PART VII - C
LA-0003301	WP1561		

Pollutant and CAS Number (if available)	Maximum Values: Grab sample First 30 minutes	Maximum Values: Flow-weighted Composite	Average Values: Grab sample First 30 minutes	Average Values: Flow-weighted Composite	Number of Storm Events Sampled	Source of Pollutants
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)						
Chloroethane (75-00-3)	*	*			1	Glycol 1 Area
2-Chloroethylvinyl Ether (110-75-8)	*	*			1	Glycol 1 Area
Chloroform (67-66-3)	*	*			1	Glycol 1 Area
Dichlorobromomethane (75-27-4)	*	*			1	Glycol 1 Area
1,1 Dichloroethane (75-34-3)	*	*			1	Glycol 1 Area
1,2-Dichloroethane (107-06-2)	*	*			1	Glycol 1 Area
1,1-Dichloroethylene (75-35-4)	*	*			1	Glycol 1 Area
1,2-Dichloropropane (78-87-5)	0.209 mg/l 0.005#	0.122 mg/l 0.1#			1	Glycol 1 Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL Internal Outfall 441			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)						
1,3-Dichloropropylene (542-75-6)	*	*			1	Glycol 1 Area
Ethylbenzene (100-41-4)	*	*			1	Glycol 1 Area
Methyl Bromide (74-83-9)	*	*			1	Glycol 1 Area
Methyl Chloride (74-87-3)	*	*			1	Glycol 1 Area
Methylene Chloride (75-09-2)	*	*			1	Glycol 1 Area
1,1,2,2-Tetrachloroethane (79-34-5)	*	*			1	Glycol 1 Area
Tetrachloroethylene (127-18-4)	*	*			1	Glycol 1 Area
Toluene (108-88-3)	*	*			1	Glycol 1 Area

POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL Internal Outfall 441			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)						
1,2-Trans-Dichloro-ethylene (156-60-5)	*	*			1	Glycol 1 Area
1,1,1-Trichloroethane (71-55-6)	*	*			1	Glycol 1 Area
1,1,2-Trichloroethane (79-00-5)	*	*			1	Glycol 1 Area
Trichloroethylene (79-01-6)	*	*			1	Glycol 1 Area
Vinyl Chloride (75-01-4)	*	*			1	Glycol 1 Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL Internal Outfall 441			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - ACID COMPOUNDS						
2-Chlorophenol (95-57-8)	*	*			1	Glycol 1 Area
2,4-Dichlorophenol (120-83-2)	*	*			1	Glycol 1 Area
2,4-Dimethylphenol (105-67-9)	*	*			1	Glycol 1 Area
4,6-Dinitro-O-Cresol (534-52-1)	*	*			1	Glycol 1 Area
2,4-Dinitrophenol (51-28-5)	*	*			1	Glycol 1 Area
2-Nitrophenol (88-75-5)	*	*			1	Glycol 1 Area
4-Nitrophenol (100-02-7)	*	*			1	Glycol 1 Area
P-Chloro-M-Cresol (59-50-7)	*	*			1	Glycol 1 Area

@ POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL Internal Outfall 441			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION: ACID COMPOUNDS (continued)						
Pentachlorophenol (87-86-5)	*	*			1	Glycol 1 Area
Phenol (108-95-2)	*	*			1	Glycol 1 Area
2,4,6-Trichlorophenol (88-06-2)	*	*			1	Glycol 1 Area

POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL Internal Outfall 441			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS						
Acenaphthene (83-32-9)	*	*			1	Glycol 1 Area
Acenaphthylene (208-96-8)	*	*			1	Glycol 1 Area
Anthracene (120-12-7)	*	*			1	Glycol 1 Area
Benzidine (92-87-5)	*	*			1	Glycol 1 Area
Benzo (a) Anthracene (56-55-3)	*	*			1	Glycol 1 Area
Benzo (a) Pyrene (50-32-8)	*	*			1	Glycol 1 Area
3,4-Benzofluoranthene (205-99-2)	*	*			1	Glycol 1 Area
Benzo (ghi) Perylene (191-24-2)	*	*			1	Glycol 1 Area

P POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL Internal Outfall 441			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
Benzo (k) Fluor-	*	*			1	Glycol 1 Area
anthene (207-08-9)						
Bis (2-Chloroethoxy)	*	*			1	Glycol 1 Area
Methane (111-91-1)						
Bis (2-Chloroethyl)	*	*			1	Glycol 1 Area
Ether (111-44-4)						
Bis (2-Chloroisopropyl)	0.623 mg/l	0.482 mg/l				
Ether (102-60-1)	0.01#	0.4#			1	Glycol 1 Area
Bis (2-Ethylhexyl)	*	*			1	Glycol 1 Area
Phthalate (117-81-7)						
4-Bromophenyl	*	*			1	Glycol 1 Area
Phenylether (101-55-3)						
Butyl Benzyl	*	*			1	Glycol 1 Area
Phthalate (85-68-7)						
2-Chloronaphthalene	*	*			1	Glycol 1 Area
(91-58-7)						

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 441			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow weighted Composite	Grab sample First 30 minutes	Flow weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
4-Chlorophenyl Phenyl Ether (7005-72-3)	*	*			1	Glycol 1 Area
Chrysene (218-01-9)	*	*			1	Glycol 1 Area
Dibenzo (a,h) Anthracene (53-70-3)	*	*			1	Glycol 1 Area
1,2-Dichlorobenzene (95-50-1)	*	*			1	Glycol 1 Area
1,3-Dichlorobenzene (541-73-1)	*	*			1	Glycol 1 Area
1,4-Dichlorobenzene (106-46-7)	*	*			1	Glycol 1 Area
3,3'-Dichlorobenzidine (91-94-1)	*	*			1	Glycol 1 Area
Diethyl Phthalate (84-66-2)	*	*			1	Glycol 1 Area

@ POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 441			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL [illegible]						
Dimethyl Phthalate (131-11-3)	*	*			1	Glycol 1 Area
Di-N-Butyl Phthalate (84-74-2)	*	*			1	Glycol 1 Area
2,4-Dinitrotoluene (121-14-2)	*	*			1	Glycol 1 Area
2,6-Dinitrotoluene (606-20-2)	*	*			1	Glycol 1 Area
Di-N-Octyl Phthalate (117-84-0)	*	0.010 mg/l 0.01#			1	Glycol 1 Area
1,2-Diphenylhydrazine as Azobenzene (122-66-7)	*	*			1	Glycol 1 Area
Fluoranthene (206-44-0)	*	*			1	Glycol 1 Area
Fluorene (86-73-7)	*	*			1	Glycol 1 Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 441			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow weighted Composite	Grab sample First 30 minutes	Flow weighted Composite		
BC/NN FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
Hexachlorobenzene (118-74-1)	*	*			1	Glycol 1 Area
Hexachlorobutadiene (87-68-3)	*	*			1	Glycol 1 Area
Hexachlorocyclopentadiene (77-72-1)	*	*			1	Glycol 1 Area
Indeno (1,2,3-cd) Pyrene (193-39-5)	*	*			1	Glycol 1 Area
Isophorone (78-59-1)	*	*			1	Glycol 1 Area
Naphthalene (91-20-3)	*	*			1	Glycol 1 Area
Nitrobenzene (98-95-3)	*	*			1	Glycol 1 Area
N-nitroso-dimethylamine (62-75-9)	*	*			1	Glycol 1 Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 441			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
N-Nitrosodi-N-Propyl-amine (621-64-7)	*	*			1	Glycol 1 Area
N-Nitrosodiphenyl-amine (86-30-6)	*	*			1	Glycol 1 Area
Phenanthrene (85-01-8)	*	*			1	Glycol 1 Area
Pyrene (129-00-0)	*	*			1	Glycol 1 Area
1,2,4-Trichlorobenzene (120-82-1)	*	*			1	Glycol 1 Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 441			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS - PESTICIDES						
Aldrin (309-00-2)	*	*			1	Glycol 1 Area
Alpha-BHC (319-84-6)	*	*			1	Glycol 1 Area
Beta-BHC (319-85-7)	*	*			1	Glycol 1 Area
Gamma-BHC (58-89-9)	*	*			1	Glycol 1 Area
Delta-BHC (319-86-8)	*	*			1	Glycol 1 Area
Chlordane (57-74-9)	*	*			1	Glycol 1 Area
4,4'-DDT (50-29-3)	*	*			1	Glycol 1 Area
4,4'-DDE (72-55-9)	*	*			1	Glycol 1 Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 441			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS - PESTICIDES (continued)						
4,4'-DDD (72-54-8)	*	*			1	Glycol 1 Area
Dieldrin (60-57-1)	*	*			1	Glycol 1 Area
Alpha-Endosulfan (115-29-7)	*	*			1	Glycol 1 Area
Beta-Endosulfan (115-29-7)	*	*			1	Glycol 1 Area
Endosulfan Sulfate (1031-07-8)	*	*			1	Glycol 1 Area
Endrin (72-20-8)	*	*			1	Glycol 1 Area
Endrin Aldehyde (7421-93-4)	*	*			1	Glycol 1 Area
Heptachlor (76-44-8)	*	*			1	Glycol 1 Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 441			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS - PESTICIDES (continued)						
Heptachlor Epoxide (1024-57-3)	*	*			1	Glycol 1 Area
PCB-1262 (11469-21-9)	*	*			1	Glycol 1 Area
PCB-1254 (11097-69-1)	*	*			1	Glycol 1 Area
PCB-1221 (11104-28-2)	*	*			1	Glycol 1 Area
PCB-1232 (11141-16-5)	*	*			1	Glycol 1 Area
PCB-1248 (12672-29-6)	*	*			1	Glycol 1 Area
PCB-1260 (11096-82-5)	*	*			1	Glycol 1 Area
PCB-1016 (12674-11-2)	*	*			1	Glycol 1 Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 441			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
Acid - Pesticides (continued)						
Fonophos (0001:35-2)	*	*			1	Glycol 1 Area
4,4'-Methoxychlor (72-43-5)	*	*			1	Glycol 1 Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number	STATE PERMIT NUMBER	OUTFALL : Internal Outfall 441
LA-0003301	WP1561	

Part VII - B. Provide data for three storms which resulted in maximum pollutant loads (flow weighted composite samples)

Date of Storm Event	Duration of Storm (in minutes)	Total rainfall during storm event (in inches)	Number of hours between beginning of storm measured and end of previous measurable rain event	Maximum flow rate during rain event (gallons/minute or specify units)	Total flow from rain event (gallons or specify units)	Season sample was taken	Form of precipitation (rainfall snowmelt)
8/27/91	240	2.12	192	2,612	108,300	Summer	Rainfall
		Total flow estimated during first 30 minutes - 2612 gal					

9. Provide a description of the method of flow measurement or estimate

Weir flow calculations

ALL DATA IN PART B IS BASED ON HISTORICAL GRAB DATA COLLECTED FOR OUR CURRENT NPDES PERMIT. ALL FLOW DATA IS BASED ON A DIFFERENT FLOW ESTIMATE.

THE DOW CHEMICAL COMPANY
LOUISIANA DIVISION
LA0003301/WP1561

METHODS & QUANTITATION LIMITS FORMS 2C/2F ANALYSES

ANALYSIS	QUANTITATION LIMIT (MG/L)	METHOD
CYANIDE	0.01	412 B&D
BOD	1	507
COD	10	508A
BORON	0.1	404A
TOTAL KJELDAHL N2	1	420A, 417D
COLOR (TRUE/APPARENT)	15 APHA	204A
FORMING AGENTS	0.1	512B
ORGANIC NITROGEN	1	420A, 417A &D
PHENOLS	0.002	510A&B
FECAL COLIFORM	1 COL/100ML	909C
SULFITE (TITRIMETRIC)	2	377.1
ALUMINUM	0.2	202.1
ANTIMONY	0.1	204.1
ARSENIC	0.01	206.2
BARIUM	0.1	208.1
BERYLLIUM	0.005	210.2
CADMIUM	0.01	213.2
CHROMIUM	0.01	218.2
COBALT	0.05	219.1
COPPER	0.005	220.2
IRON	0.03	236.1
LEAD	0.005	239.2
MAGNESIUM	0.01	242.1
MANAGANESE	0.01	243.1
MERCURY	0.0002	245.1
MOLYBDENUM	0.03	246.1
NICKEL	0.05	249.1
SELENIUM	0.01	270.2
SILVER	0.005	272.2
THALLIUM	0.1	279.2
TIN	1	282.1
TITANUIM	0.3	283.1
ZINC	0.01	289.1
TOTAL PHOSPHORUS	0.1	424C&F
NO2/NO3	0.05	418C
BROMIDE	2	320.1
SULFATE (TURBIDIMETRIC)	5	426C
OIL & GREASE	1	413.1
RESIDUAL CHLORINE	0.05	ORION
TOTAL OXYGEN DEMAND	10	ASTM 3250-77
TOTAL SUSPENDED SOLIDS	1	160.2
TOTAL ORGANIC CARBON	2	415.1
VOLATILE ORGANICS	0.01	601, 602, 624
BASE NEUTRALS	0.01	625
ACID PHENOLS	0.01	625

THE DOW CHEMICAL COMPANY
LOUISIANA DIVISION
LA0003301/WP1561

METHODS & QUANTITATION LIMITS FORMS 2C/2F ANALYSES

ANALYSIS	LIMIT (MG/L)	METHOD
PESTICIDES	0.01	625
AMMONIA	0.01	350.3
SULFIDE	0.01	376.1
pH	0-14 SU	150.1
TEMPERATURE	.5°C	170.1
FLUORIDES	0.2	413B

	PCI/L	METHOD
RADIOLOGICALS		
GROSS ALPHA	0.1	703
GROSS BETA	0.10	703
RADIUM (226)	0.10	705
RADIUM (228)	0.10	706
TOTAL RADIUM	0.10	705

For any test value below the quantitation limit, a zero was used for any required calculation

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)*: LA0003301/WP1561

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. 451

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) 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	3. UNITS (specify if blank) a. CONCENTRATION	b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)	13	72.6					1	mg/l	lb			
b. Chemical Oxygen Demand (COD)	34	190					1	mg/l	lb			
c. Total Organic Carbon (TOC)	284	1587					1	mg/l	lb			
d. Total Suspended Solids (TSS)	*						1	mg/l	lb			
e. Ammonia (as N)	*						1	mg/l	lb			
f. Flow	VALUE 0.67		VALUE 0.67		VALUE 0.67		30	MGD		VALUE		
g. Temperature (winter)	VALUE **		VALUE		VALUE			°C		VALUE		
h. Temperature (summer)	VALUE **		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM ***	MAXIMUM	MINIMUM	MAXIMUM				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	b. 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
a. Bromide [24959-67-9]		X												
b. Chlorine, Total Residual	X		363	878					2	mg/l	lb			
c. Color	X		*						1	APHA				
d. Fecal Coliform		X												
e. Fluoride [16984-48-8]		X												
f. Nitrate-Nitrite [N]	X		1.74	4.2					1	mg/l	lb			

Total Oxygen Demand 12 67.1 10 56 10 56 10 [illegible] 13

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. BELIEVED PRESENT	b. 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
g. Nitrogen, Total Organic (as N)	X		*						1	mg/l	lb			
h. Oil and Grease	X		*						1	mg/l	lb			
i. Phosphorus (as P), Total (7723-14-0)	X		*						1	mg/l	lb			
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO_4) (14808-79-8)		X												
l. Sulfide (as S)		X												
m. Sulfite (as SO_3) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)	X		*						1	mg/l	lb			
p. Barium, Total (7440-39-3)	X		*						1	mg/l	lb			
q. Boron, Total (7440-42-8)	X		0.1	0.6					1	mg/l	lb			
r. Cobalt, Total (7440-48-4)	X		*						1	mg/l	lb			
s. Iron, Total (7439-89-6)	X		0.11	0.6					1	mg/l	lb			
t. Magnesium, Total (7439-95-4)	X		16	89.4					1	mg/l	lb			
u. Molybdenum, Total (7439-98-7)	X		0.1	0.6					1	mg/l	lb			
v. Manganese, Total (7439-96-5)	X		0.02	0.1					1	mg/l	lb			
w. Tin, Total (7440-31-5)	X		*						1	mg/l	lb			
x. Titanium, Total (7440-32-6)	X		*						1	mg/l	lb			

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
LA0003301/WP1561	451

Form Approved
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			*						1	mg/l	lb			
2M. Arsenic, Total (7440-38-2)	X			*						1	mg/l	lb			
3M. Beryllium, Total, 7440-41-7)	X			*						1	mg/l	lb			
4M. Cadmium, Total (7440 43-9)	X			*						1	mg/l	lb			
5M Chromium, Total (7440-47-3)	X			*						1	mg/l	lb			
6M Copper, Total (7440-50-8)	X			0.006	0.03					1	mg/l	lb			
7M. Lead, Total (7439-92-1)	X			*						1	mg/l	lb			
8M. Mercury, Total (7439-97-6)	X			*						1	mg/l	lb			
9M. Nickel, Total (7440-02 0)	X			*						1	mg/l	lb			
10M. Selenium, Total (7782-49 2)	X			*						1	mg/l	lb			
11M. Silver, Total (7440-22-4)	X			*						1	mg/l	lb			
12M. Thallium, Total (7440-28-0)	X			*						1	mg/l	lb			
13M. Zinc, Total (7440-66-6)	X			0.05	0.3					1	mg/l	lb			
14M. Cyanide, Total (57-12 5)	X			*						1	mg/l	lb			
15M. Phenols, Total	X			0.021	0.1					1	mg/l	lb			
DIOXIN															
2,3,7,8 Tetra chlorodibenzo P Dioxin (1764 01 6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TOXIC POLLUTANT	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 – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	X			*						1	mg/l	lb			
2V. Acrylonitrile (107-13-1)	X			*						1	mg/l	lb			
3V. Benzene (71-43-2)	X			*						1	mg/l	lb			
4V. Bis (Chloromethyl) Ether (542-88-1)	X			*						1	mg/l	lb			
5V. Bromoform (75-25-2)	X			0.165	0.9					1	mg/l	lb			
6V. Carbon Tetrachloride (56-23-5)	X			*						1	mg/l	lb			
7V. Chlorobenzene (108-90-7)	X			*						1	mg/l	lb			
8V. Chlorodibromomethane (124-48-1)	X			0.196	1.1					1	mg/l	lb			
9V. Chloroethane (75-00-3)	X			*						1	mg/l	lb			
10V. 2-Chloroethylvinyl Ether (110-75-8)	X			*						1	mg/l	lb			
11V. Chloroform (67-66-3)	X			0.077	0.4					1	mg/l	lb			
12V. Dichlorobromomethane (75-27-4)	X			0.167	0.9					1	mg/l	lb			
13V. Dichlorodifluoromethane (75-71-8)	X			*						1	mg/l	lb			
14V. 1,1-Dichloroethane (75-34-3)	X			*						1	mg/l	lb			
15V. 1,2-Dichloroethane (107-06-2)	X			*						1	mg/l	lb			
16V. 1,1-Dichloroethylene (75-35-4)	X			*						1	mg/l	lb			
17V. 1,2-Dichloropropane (78-87-5)	X			*						1	mg/l	lb			
18V. 1,3-Dichloropropylene (542-75-6)	X			*						1	mg/l	lb			
19V. Ethylbenzene (100-41-4)	X			*						1	mg/l	lb			
20V. Methyl Bromide (74-83-9)	X			*						1	mg/l	lb			
21V. Methyl Chloride (74-[illegible])	X			*						1	mg/l	lb			

CONTINUED FROM PAGE V-4

EPA I.D. NUMBER (copy from Item 1 of Form 1) LA0003301/WP1561

OUTFALL NUMBER 451

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

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TOXIC (PRI-QUIRED)	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			*						1	mg/l	lb			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X			*						1	mg/l	lb			
24V. Tetrachloroethylene (127-18-4)	X			*						1	mg/l	lb			
25V. Toluene (108-88-3)	X			*						1	mg/l	lb			
26V. 1,2-Trans-Dichloroethylene (156-60-5)	X			*						1	mg/l	lb			
27V. 1,1,1-Trichloroethane (71-55-6)	X			*						1	mg/l	lb			
28V. 1,1,2-Trichloroethane (79-00-5)	X			*						1	mg/l	lb			
29V. Trichloroethylene (79-01-6)	X			*						1	mg/l	lb			
30V. Trichlorofluoromethane (75-69-4)	X			*						1	mg/l	lb			
31V. Vinyl Chloride (75-01-4)	X			*						1	mg/l	lb			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95 57-8)	X			*						1	mg/l	lb			
2A. 2,4-Dichlorophenol (120-83-2)	X			*						1	mg/l	lb			
3A. 2,4-Dimethylphenol (105-67 9)	X			*						1	mg/l	lb			
4A 4,6-Dinitro O Cresol (534-52-1)	X			*						1	mg/l	lb			
5A 2,4-Dinitrophenol (51 28-5)	X			*						1	mg/l	lb			
6A. 2-Nitrophenol (88-75 5)	X			*						1	mg/l	lb			
7A. 4 Nitrophenol (100 02-7)	X			*						1	mg/l	lb			
8A. P-Chloro M Cresol (59 50-7)	X			*						1	mg/l	lb			
9A Pentachlorophenol (87 86 5)	X			*						1	mg/l	lb			
10A Phenol (108 95 2)	X			*						1	mg/l	lb			
11A 2,4,6-Trichlorophenol (88-06-2)	X			*						1	mg/l	lb			

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			*						1	mg/l	lb			
2B. Acenaphtylene (208-96-8)	X			*						1	mg/l	lb			
3B. Anthracene (120-12-7)	X			*						1	mg/l	lb			
4B. Benzidine (92-87-5)	X			*						1	mg/l	lb			
5B. Benzo (a) Anthracene (56-55-3)	X			*						1	mg/l	lb			
6B. Benzo (a) Pyrene (50-32-8)	X			*						1	mg/l	lb			
7B. 3,4-Benzo-fluoranthene (205-99-2)	X			*						1	mg/l	lb			
8B. Benzo (ghi) Perylene (191-24-2)	X			*						1	mg/l	lb			
9B. Benzo (k) Fluoranthene (207-08-9)	X			*						1	mg/l	lb			
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)	X			*						1	mg/l	lb			
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)	X			*						1	mg/l	lb			
12B. Bis (2-Chloro-propyl) Ether (102-60-1)	X			*						1	mg/l	lb			
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)	X			*						1	mg/l	lb			
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)	X			*						1	mg/l	lb			
15B. Butyl Benzyl Phthalate (85-68-7)	X			*						1	mg/l	lb			
16B. 2-Chloro-naphthalene (91-58-7)	X			*						1	mg/l	lb			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X			*						1	mg/l	lb			
18B. Chrysene (218-01-9)	X			*						1	mg/l	lb			
19B. Dibenzo (a,h) Anthracene (53-70-3)	X			*						1	mg/l	lb			
20B. 1,2 Dichloro-benzene (95-50-1)	X			*						1	mg/l	lb			
21B. 1,3 Dichloro-benzene (541-[illegible])	X			*						1	mg/l	lb			

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EPA I.D. NUMBER (copy from Item 1 of Form 1): LA0003301/WP1561

OUTFALL NUMBER: 451

Form Approved
OMB No 2040 0086
Approval expires 7 31 88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TREATABILITY INDICATOR	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			*						1	mg/l	lb			
23B. 3,3'-Dichlorobenzidine (91-94-1)	X			*						1	mg/l	lb			
24B. Diethyl Phthalate (84-66-2)	X			*						1	mg/l	lb			
25B. Dimethyl Phthalate (131-11-3)	X			*						1	mg/l	lb			
26B. Di-N-Butyl Phthalate (84-74-2)	X			*						1	mg/l	lb			
27B. 2,4-Dinitrotoluene (121-14-2)	X			*						1	mg/l	lb			
28B. 2,6-Dinitrotoluene (606-20-2)	X			*						1	mg/l	lb			
29B. Di-N-Octyl Phthalate (117-84-0)	X			*						1	mg/l	lb			
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	X			*						1	mg/l	lb			
31B. Fluoranthene (206-44-0)	X			*						1	mg/l	lb			
32B. Fluorene (86-73-7)	X			*						1	mg/l	lb			
33B. Hexachlorobenzene (118-74-1)	X			*						1	mg/l	lb			
34B. Hexachlorobutadiene (87-68-3)	X			*						1	mg/l	lb			
35B. Hexachlorocyclopentadiene (77-47-4)	X			*						1	mg/l	lb			
36B. Hexachloroethane (67-72-1)	X			*						1	mg/l	lb			
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	X			*						1	mg/l	lb			
38B. Isophorone (78-59-1)	X			*						1	mg/l	lb			
39B. Naphthalene (91-20-3)	X			*						1	mg/l	lb			
40B. Nitrobenzene (98-95-3)	X			*						1	mg/l	lb			
41B. N-Nitrosodimethylamine (62-75-9)	X			*						1	mg/l	lb			
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X			*						1	mg/l	lb			

CONTINUED FROM THE FRONT

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 AVG. VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)	X			*						1	mg/l	lb			
44B. Phenanthrene (85-01-8)	X			*						1	mg/l	lb			
45B. Pyrene (129-00-0)	X			*						1	mg/l	lb			
46B. 1,2,4-Trichlorobenzene (120-82-1)	X			*						1	mg/l	lb			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)	X			*						1	mg/l	lb			
2P. α-BHC (319-84-6)	X			*						1	mg/l	lb			
3P. β-BHC (319-85-7)	X			*						1	mg/l	lb			
4P. γ-BHC (58-89-9)	X			*						1	mg/l	lb			
5P. δ-BHC (319-86-8)	X			*						1	mg/l	lb			
6P. Chlordane (57-74-9)	X			*						1	mg/l	lb			
7P. 4,4'-DDT (50-29-3)	X			*						1	mg/l	lb			
8P. 4,4'-DDE (72-55-9)	X			*						1	mg/l	lb			
9P. 4,4'-DDD (72-54-8)	X			*						1	mg/l	lb			
10P. Dieldrin (60-57-1)	X			*						1	mg/l	lb			
11P. α-Endosulfan (115-29-7)	X			*						1	mg/l	lb			
12P. β-Endosulfan (115-29-7)	X			*						1	mg/l	lb			
13P. Endosulfan Sulfate (1031-07-8)	X			*						1	mg/l	lb			
14P. Endrin (72-20-8)	X			*						1	mg/l	lb			
15P. Endrin Aldehyde (7421-93-4)	X			*						1	mg/l	lb			
16P. Heptachlor (76-44-8)	X			*						1	mg/l	lb			

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EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
LA0003301/WP1561	451

Form Approved
OMB No. 2040-0086
Expires [illegible]

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK X			3. EFFLUENT							4. UNITS		5. BLANK (optional)		
	a. Test Not Required	b. Base/Neutral Pest. Sent	c. Acid Pest. Sent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. No. of Analysis	a. Concentration	b. Mass	a. Long Term Average Value		b. No. of Analysis
				(a) Concentration	(b) Mass	(a) Concentration	(b) Mass	(a) Concentration	(b) Mass				(a) Concentration	(b) Mass	
GC/MS FRACTION – PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024 57 3)	X			*						1	mg/l	lb			
18P. PCB 1242 (53469 21 9)	X			*						1	mg/l	lb			
19P. PCB 1254 (11097 69-1)	X			*						1	mg/l	lb			
20P. PCB 1221 (11104 28 2)	X			*						1	mg/l	lb			
21P. PCB 1232 (11141 16 5)	X			*						1	mg/l	lb			
22P. PCB 1248 (12672-29 6)	X			*						1	mg/l	lb			
23P. PCB 1260 (11096 82 5)	X			*						1	mg/l	lb			
24P. PCB 1016 (12674 11 2)	X			*						1	mg/l	lb			
25P. Toxaphene (8001 35 2)	X			*						1	mg/l	lb			

* Not found at quantitation limits

** Not applicable, internal outfall

*** Not applicable, Division canal pH system

OUTFALL: 451

EPA ID Number (copy from item 1 of Form 1)
LA0003301/WP1561

Form Approved OMB No 2040-0086
Approval expires 5-31-92

VII. Discharge Information *(Continued from page 3 of Form 2F)*

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.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Oil and Grease						
Biological Oxygen Demand (BOD5)	Internal Outfall 451 flows continuously. No 2F testing was done.					
Chemical Oxygen Demand (COD)	Please refer to 2C data for internal outfall 451. The unanswered					
Total Suspended Solids (TSS)	portions of this form are not applicable.					
Total Kjeldahl Nitrogen						
Nitrate plus Nitrite Nitrogen						
Total Phosphorus						
pH	Minimum	Maximum	Minimum	Maximum		

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Continued from the Front

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample

1. Date of Storm Event	2. Duration of Storm (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)	7. Season sample was taken	8. Form of Precipitation (rainfall, snowmelt)

9. Provide a description of the method of flow measurement or estimate.

THE DOW CHEMICAL COMPANY
LOUISIANA DIVISION
LA0003301/WP1561

METHODS & QUANTITATION LIMITS FORMS 2C/2F ANALYSES

ANALYSIS	QUANTITATION LIMIT (MG/L)	METHOD
CYANIDE	0.01	412 B&D
BOD	1	507
COD	10	508A
BORON	0.1	404A
TOTAL KJELDAHL N2	1	420A, 417D
COLOR (TRUE/APPARENT)	15 APHA	204A
FOAMING AGENTS	0.1	512B
ORGANIC NITROGEN	1	420A, 417A &D
PHENOLS	0.002	510A&B
FECAL COLIFORM	1 COL/100ML	909C
SULFITE (TITRIMETRIC)	2	377.1
ALUMINUM	0.2	202.1
ANTIMONY	0.1	204.1
ARSENIC	0.01	206.2
BARIUM	0.1	208.1
BERYLLIUM	0.005	210.2
CADMIUM	0.01	213.2
CHROMIUM	0.01	218.2
COBALT	0.05	219.1
COPPER	0.005	220.2
IRON	0.03	236.1
LEAD	0.005	239.2
MAGNESIUM	0.01	242.1
MANAGANESE	0.01	243.1
MERCURY	0.0002	245.1
MOLYBDENUM	0.03	246.1
NICKEL	0.05	249.1
SELENIUM	0.01	270.2
SILVER	0.005	272.2
THALLIUM	0.1	279.2
TIN	1	282.1
TITANUIM	0.3	283.1
ZINC	0.01	289.1
TOTAL PHOSPHORUS	0.1	424C&F
NO2/NO3	0.05	418C
BROMIDE	2	320.1
SULFATE (TURBIDIMETRIC)	5	426C
OIL & GREASE	1	413.1
RESIDUAL CHLORINE	0.05	ORION
TOTAL OXYGEN DEMAND	10	ASTM 3250-77
TOTAL SUSPENDED SOLIDS	1	160.2
TOTAL ORGANIC CARBON	2	415.1
VOLATILE ORGANICS	0.01	601, 602, 624
BASE NEUTRALS	0.01	625
ACID PHENOLS	0.01	625

THE DOW CHEMICAL COMPANY
LOUISIANA DIVISION
LA0003301/WP1561

METHODS & QUANTITATION LIMITS FORMS 2C/2F ANALYSES

ANALYSIS	LIMIT (MG/L)	METHOD
PESTICIDES	0.01	625
AMMONIA	0.01	350.3
SULFIDE	0.01	376.1
pH	0-14 SU	150.1
TEMPERATURE	.5°C	170.1
FLUORIDES	0.2	413B

	PCI/L	METHOD
RADIOLOGICALS		
GROSS ALPHA	0.1	703
GROSS BETA	0.10	703
RADIUM (226)	0.10	705
RADIUM (228)	0.10	706
TOTAL RADIUM	0.10	705

For any test value below the quantitation limit, a zero was used for any required calculation.

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)*: LA0003301/WP1561

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. 461

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) 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	3. UNITS (specify if blank) a. CONCENTRATION	b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)	Reference Internal outfall 421 for Part A data											
b. Chemical Oxygen Demand (COD)	Internal outfalls 461 and 421 are similar. Historical data listed											
c. Total Organic Carbon (TOC)	for Internal outfall 461 for net dissolved total oxygen demand											
d. Total Suspended Solids (TSS)	and 1,2-dichloropropane were obtained on grab samples as required											
e. Ammonia (as N)	by our NPDES permit. Volatile analysis was performed on a 24 hour composite.											
f. Flow	VALUE 26.3		VALUE 22.1		VALUE 11.1		473	MGD		VALUE		
g. Temperature (winter)	VALUE **		VALUE		VALUE			°C		VALUE		
h. Temperature (summer)	VALUE **		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM ***	MAXIMUM	MINIMUM	MAXIMUM				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 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. BELIEVE PRESENT	b. BELIEVE 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
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual		X												
c. Color		X												
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)		X												
f. Nitrate-Nitrite (as N)		X												
Net Total	X		12	638	1.48	71.2	0.46	30.1	473	mg/l	lb			

CONTINUE ON REVERSE

g. Nitrogen, Total Organic (as N)		X															
h. Oil and Grease		X															
i. Phosphorus (as P), Total (7723 14 0)		X															
j. Radioactivity																	
(1) Alpha Total		X															
(2) Beta, Total		X															
(3) Radium, Total		X															
(4) Radium 226 Total		X															
k. Sulfate (as SO_4) (14808 79 8)		X															
l. Sulfide (as S)		X															
m. Sulfite (as SO_3) (14265 45 3)		X															
n. Surfactants		X															
o. Aluminum, Total (7429 90-5)		X															
p. Barium, Total (7440 39-3)		X															
q. Boron, Total (7440 42 8)		X															
r. Cobalt, Total (7440 48 4)		X															
s. Iron, Total (7439 89-6)		X															
t. Magnesium, Total (7439 95 4)		X															
u. Molybdenum, Total (7439 98 7)		X															
v. Manganese, Total [illegible]		X															
[illegible]		X															
[illegible]		X															

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
LA0003301/WP1561	461

Form Approved
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 analyses 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. TEST REQUIRED BY GUIDELINE	b. TEST REQUIRED BY PROJECT	c. TEST REQUIRED BY ADMIN.	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
				(a) CONCENTRATION	(b) MASS	(a) CONCENTRATION	(b) MASS	(a) CONCENTRATION	(b) MASS				(a) CONCENTRATION	(b) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M Antimony, Total (7440-36-0)			X												
2M Arsenic, Total (7440-38-2)			X												
3M Beryllium, Total (7440-41-7)			X												
4M Cadmium, Total (7440-43-9)			X												
5M Chromium, Total (7440-47-3)			X												
6M Copper, Total (7440-50-8)			X												
7M Lead, Total (7439-92-1)			X												
8M Mercury, Total (7439-97-6)			X												
9M Nickel, Total (7440-02-0)			X												
10M Selenium, Total (7782-49-2)			X												
11M Silver, Total (7440-22-4)			X												
12M Thallium, Total (7440-28-0)			X												
13M Zinc, Total (7440-66-6)			X												
14M Cyanide, Total (57-12-5)			X												
15M Phenols, Total			X												
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD)			X	SEE SCHEDULE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. PRESENT	b. ABSENT	c. BELOW DETECTION LIMIT	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 AVRG. VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X	*						1	mg/l	lb			
2V. Acrylonitrile (107-13-1)			X	*						1	mg/l	lb			
3V. Benzene (71-43-2)			X	*						1	mg/l	lb			
4V. Bis (Chloromethyl) Ether (542-88-1)			X	*						1	mg/l	lb			
5V. Bromoform (75-25-2)			X	*						1	mg/l	lb			
6V. Carbon Tetrachloride (56-23-5)			X	*						1	mg/l	lb			
7V. Chlorobenzene (108-90-7)			X	*						1	mg/l	lb			
8V. Chlorodibromomethane (124-48-1)			X	*						1	mg/l	lb			
9V. Chloroethane (75-00-3)			X	*						1	mg/l	lb			
10V. 2-Chloroethylvinyl Ether (110-75-8)			X	*						1	mg/l	lb			
11V. Chloroform (67-66-3)			X	*						1	mg/l	lb			
12V. Dichlorobromomethane (75-27-4)			X	*						1	mg/l	lb			
13V. Dichlorodifluoromethane (75-71-8)			X	*						1	mg/l	lb			
14V. 1,1-Dichloroethane (75-34-3)			X	*						1	mg/l	lb			
15V. 1,2-Dichloroethane (107-06-2)			X	*						1	mg/l	lb			
16V. 1,1-Dichloroethylene (75-35-4)			X	*						1	mg/l	lb			
17V. 1,2-Dichloropropane (78-87-5)		X		0.014	1.6	0.004	0.4	0.0003	0.03	68	mg/l	lb			
18V. 1,3-Dichloropropylene (542-75-6)			X	*						1	mg/l	lb			
19V. Ethylbenzene (100-41-4)			X	*						1	mg/l	lb			
20V. Methyl Bromide (74-83-9)			X	*						1	mg/l	lb			
21V. Methyl Chloride (74-87-3)			X	*						1	mg/l	lb			

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EPA I.D. NUMBER (copy from Item 1 on Form 1) LA0003301/WP1561

OUTFALL NUMBER 461

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. Believed Present	b. Believed Absent	c. Analysis Required	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 – VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75 09-2)			X	*						1	mg/l	lb			
23V. 1,1,2,2-Tetrachloroethane (79-34 5)			X	*						1	mg/l	lb			
24V. Tetrachloroethylene (127 18 4)			X	*						1	mg/l	lb			
25V. Toluene (108-88-3)			X	*						1	mg/l	lb			
26V. 1,2 Trans Dichloroethylene (156 60-5)			X	*						1	mg/l	lb			
27V. 1,1,1 Trichloroethane (71 55-6)			X	*						1	mg/l	lb			
28V. 1,1,2-Trichloroethane (79-00 5)			X	*						1	mg/l	lb			
29V. Trichloroethylene (79-01-6)			X	*						1	mg/l	lb			
30V. Trichlorofluoromethane (75-69 4)			X	*						1	mg/l	lb			
31V. Vinyl Chloride (75 01 4)			X	*						1	mg/l	lb			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2 Chlorophenol (95-57 8)			X												
2A. 2,4-Dichlorophenol (120 83 2)			X												
3A. 2,4 Dimethylphenol (105 67 9)			X												
4A. 4,6 Dinitro O Cresol (534-52 1)			X												
5A. 2,4-Dinitrophenol (51-28 5)			X												
6A. 2-Nitrophenol (88-75 5)			X												
7A. 4 Nitrophenol (100 02-7)			X												
8A. P Chloro M Cresol (59 50 7)			X												
9A. Pentachlorophenol (87 86 5)			X												
[illegible]			X												
[illegible]			X												

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	c. LIMITED OR NO DATA	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
				(a) CONCENTRATION	(b) MASS	(a) CONCENTRATION	(b) MASS	(a) CONCENTRATION	(b) MASS				(a) CONCENTRATION	(b) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X												
2B. Acenaphtylene (208-96-8)			X												
3B. Anthracene (120-12-7)			X												
4B. Benzidine (92-87-5)			X												
5B. Benzo (a) Anthracene (56-55-3)			X												
6B. Benzo (a) Pyrene (50-32-8)			X												
7B. 3,4-Benzo-fluoranthene (205-99-2)			X												
8B. Benzo (ghi) Perylene (191-24-2)			X												
9B. Benzo (k) Fluoranthene (207-08-9)			X												
10B. Bis (2 Chloro ethoxy) Methane (111-91-1)			X												
11B. Bis (2 Chloro-ethyl) Ether (111-44-4)			X												
12B. Bis (2 Chloro-isopropyl) Ether (102-60-1)			X												
13B. Bis (2 Ethyl hexyl) Phthalate (117-81-7)			X												
14B. 4 Bromo phenyl Phenyl Ether (101-55-3)			X												
15B. Butyl Benzyl Phthalate (85-68-7)			X												
16B. 2 Chloro-naphthalene (91-58-7)			X												
17B. 4 Chloro phenyl Phenyl Ether (7005-72-3)			X												
18B. Chrysene (218-01-9)			X												
19B. Dibenzo (a,h) Anthracene (53-70-3)			X												
[illegible]			X												
			X												

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NPDES NUMBER (copy from Item I of cover): LA0003301/WP1561

OUTFALL NUMBER: 461

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)		
	a. Believed Present	b. Believed Absent	c. Analytical Results Attached	a. MAXIMUM DAILY VALUE (1) Concentration	(2) Units	b. MAXIMUM 30 DAY VALUE (if available) (1) Concentration	(2) Units	c. LONG TERM AVRG. VALUE (if available) (1) Concentration	(2) Units	d. NUMBER OF ANALYSES	a. Concentration Received	b. Units	a. LONG TERM VALUE (1) Mass	b. NUMBER OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)														
22B. 1,4 Dichlorobenzene (106 46-7)			X											
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											
27B. 2,4 Dinitrotoluene (121 14 2)			X											
28B. 2,6 Dinitrotoluene (606 20 2)			X											
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											
[illegible]			X											
[illegible]			X											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTED BUT UNKNOWN	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 AVRG. VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X												
44B. Phenanthrene (85-01-8)			X												
45B. Pyrene (129-00-0)			X												
46B. 1,2,4-Trichlorobenzene (120-82-1)			X												
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			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												
[illegible]			X												
[illegible]			X												

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of For.): LA0003301/WP1561

OUTFALL NUMBER: 461

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

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TECHNOLOGY REQUIREMENT	b. BEST CONVENTIONAL PRESENT	c. BEST AVAILABLE PRESENT	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												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-68-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

* Not found at quantitation limits.

** Not applicable, Internal outfall.

*** Not applicable, Division canal pH system.

THE DOW CHEMICAL COMPANY
LOUISIANA DIVISION
LA0003301/WP1561

METHODS & QUANTITATION LIMITS FORMS 2C/2F ANALYSES

ANALYSIS	QUANTITATION LIMIT (MG/L)	METHOD
CYANIDE	0.01	412 B&D
BOD	1	507
COD	10	508A
BORON	0.1	404A
TOTAL KJELDAHL N2	1	420A, 417D
COLOR (TRUE/APPARENT)	15 APHA	204A
FOAMING AGENTS	0.1	512B
ORGANIC NITROGEN	1	420A, 417A &D
PHENOLS	0.002	510A&B
FECAL COLIFORM	1 COL/100ML	909C
SULFITE (TITRIMETRIC)	2	377.1
ALUMINUM	0.2	202.1
ANTIMONY	0.1	204.1
ARSENIC	0.01	206.2
BARIUM	0.1	208.1
BERYLLIUM	0.005	210.2
CADMIUM	0.01	213.2
CHROMIUM	0.01	218.2
COBALT	0.05	219.1
COPPER	0.005	220.2
IRON	0.03	236.1
LEAD	0.005	239.2
MAGNESIUM	0.01	242.1
MANAGANESE	0.01	243.1
MERCURY	0.0002	245.1
MOLYBDENUM	0.03	246.1
NICKEL	0.05	249.1
SELENIUM	0.01	270.2
SILVER	0.005	272.2
THALLIUM	0.1	279.2
TIN	1	282.1
TITANUIM	0.3	283.1
ZINC	0.01	289.1
TOTAL PHOSPHORUS	0.1	424C&F
NO2/NO3	0.05	418C
BROMIDE	2	320.1
SULFATE (TURBIDIMETRIC)	5	426C
OIL & GREASE	1	413.1
RESIDUAL CHLORINE	0.05	ORION
TOTAL OXYGEN DEMAND	10	ASTM 3250-77
TOTAL SUSPENDED SOLIDS	1	160.2
TOTAL ORGANIC CARBON	2	415.1
VOLATILE ORGANICS	0.01	601, 602, 624
BASE NEUTRALS	0.01	625
ACID PHENOLS	0.01	625

OUTFALL: Internal Outfall 2931

EPA ID Number (copy from item 1 of Form 1)
LA0003301/WP1561

Form Approved OMB No 2040-0086
Approval expires 5-31-92

VII. Discharge Information *(Continued from page 3 of Form 2F)*

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.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Oil and Grease						
Biological Oxygen Demand (BOD5)	PLEASE REFER TO ATTACHED DATA SHEETS.					
Chemical Oxygen Demand (COD)	THE UNANSWERED PORTIONS OF THIS FORM ARE					
Total Suspended Solids (TSS)	NOT APPLICABLE.					
Total Kjeldahl Nitrogen						
Nitrate plus Nitrite Nitrogen						
Total Phosphorus						
pH	Minimum	Maximum	Minimum	Maximum		

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Continued from the Front

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample

1. Date of Storm Event	2. Duration of Storm *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*	7. Season sample was taken	8. Form of Precipitation *(rainfall, snowmelt)*

9. Provide a description of the method of flow measurement or estimate.

EPA ID Number	STATE PERMIT NUMBER	OUTFALL: Internal Outfall 2931 (24 hour containment)
LA-0003301	WP1561	

PART VII - A	VII. Discharge Information (continued from page 3)					
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
Oil and Grease	See Part B					
Biological Oxygen Demand (BOD5)	4.2 mg/l				1	Glycol 1 Tank Farm Area
	5.5#					
Chemical Oxygen Demand (COD)	28 mg/l				1	Glycol 1 Tank Farm Area
	36.4#					
Total Suspended Solids (TSS)	22 mg/l				1	Glycol 1 Tank Farm Area
	28.6#					
Total Kjeldahl Nitrogen	1.8 mg/l				1	Glycol 1 Tank Farm Area
	2.3#					
Nitrate plus Nitrite Nitrogen	0.505 mg/l				1	Glycol 1 Tank Farm Area
	0.7#					
Total Phosphorus	1.0 mg/l				1	Glycol 1 Tank Farm Area
	1.3#					
pH	****					

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT
**** NOT APPLICABLE - DIVISION CANAL pH SYSTEM

EPA ID Number	STATE PERMIT NUMBER	OUTFALL : Internal Outfall 2931 (24 hour containment)
LA-0003301	WP1561	

PART VII - B: Pollutants listed under existing NPDES permit.

Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
Oil and Grease	6 mg/l		1 mg/l		14	Glycol 1 Tank Farm Area
	0.07#		0.008#			
Total Oxygen	59 mg/l		31 mg/l		31	Glycol 1 Tank Farm Area
Demand (TOD)	0.3#		0.1#			

POUNDS

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2931 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION VOLATILE COMPOUNDS						
Acrolein (107-02-8)	*				1	Glycol 1 Tank Farm Area
Acrylonitrile (107-13-1)	*				1	Glycol 1 Tank Farm Area
Benzene (71-43-2)	*				1	Glycol 1 Tank Farm Area
Bis(Chloromethyl)Ether (542-88-1)	*				1	Glycol 1 Tank Farm Area
Bromoform (75-25-2)	*				1	Glycol 1 Tank Farm Area
Carbon Tetrachloride (56-23-5)	*				1	Glycol 1 Tank Farm Area
Chlorobenzene (108-90-7)	*				1	Glycol 1 Tank Farm Area
Chlorodibromomethane (124-48-1)	*				1	Glycol 1 Tank Farm Area

POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2931 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION VOLATILE COMPOUNDS (continued)						
Chloroethane (75-00-3)	*				1	Glycol Area
2-Chloroethylvinyl Ether (110-75-8)	*				1	Glycol Area
Chloroform (67-66-3)	*				1	Glycol Area
Dichlorobromomethane (75-27-4)	*				1	Glycol Area
1,1 Dichloroethane (75-34-3)	*				1	Glycol Area
1,2-Dichloroethane (107-06-2)	*				1	Glycol Area
1,1-Dichloroethylene (75-35-4)	*				1	Glycol Area
1,2-Dichloropropane (78-87-5)	*				1	Glycol Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561	OUTFALL: Internal Outfall 2931 (24 hour containment)			PART VII - C	
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)						
1,3-Dichloropropylene (542-75-6)	*				1	Glycol 1 Tank Farm Area
Ethylbenzene (100-41-4)	*				1	Glycol 1 Tank Farm Area
Methyl Bromide (74-83-9)	*				1	Glycol 1 Tank Farm Area
Methyl Chloride (74-87-3)	*				1	Glycol 1 Tank Farm Area
Methylene Chloride (75-09-2)	*				1	Glycol 1 Tank Farm Area
1,1,2,2-Tetrachloroethane (79-34-5)	*				1	Glycol 1 Tank Farm Area
Tetrachloroethylene (127-18-4)	*				1	Glycol 1 Tank Farm Area
Toluene (108-88-3)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2931 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)						
1,2-Trans-Dichloro-ethylene (156-60-5)	*				1	Glycol 1 Tank Farm Area
1,1,1-Trichloroethane (71-55-6)	*				1	Glycol 1 Tank Farm Area
1,1,2-Trichloroethane (79-00-5)	*				1	Glycol 1 Tank Farm Area
Trichloroethylene (79-01-6)	*				1	Glycol 1 Tank Farm Area
Vinyl Chloride (75-01-4)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2931 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION: BASE/NEUTRAL COMPOUNDS						
Acenaphthene (83-32-9)	*				1	Glycol 1 Tank Farm Area
Acenaphthylene (208-96-8)	*				1	Glycol 1 Tank Farm Area
Anthracene (120-12-7)	*				1	Glycol 1 Tank Farm Area
Benzidine (92-87-5)	*				1	Glycol 1 Tank Farm Area
Benzo (a) Anthracene (56-55-3)	*				1	Glycol 1 Tank Farm Area
Benzo (a) Pyrene (50-32-8)	*				1	Glycol 1 Tank Farm Area
3,4-Benzofluoranthene (205-99-2)	*				1	Glycol 1 Tank Farm Area
Benzo (ghi) Perylene (191-24-2)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2931 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
Benzo (k) Fluor- anthene (207-08-9)	*				1	Glycol 1 Tank Farm Area
Bis (2-Chloroethoxy) Methane (111-91-1)	*				1	Glycol 1 Tank Farm Area
Bis (2-Chloroethyl) Ether (111-44-4)	*				1	Glycol 1 Tank Farm Area
Bis (2-Chloroisopropyl) Ether (102-60-1)	*				1	Glycol 1 Tank Farm Area
Bis (2-Ethylhexyl) Phthalate (117-81-7)	*				1	Glycol 1 Tank Farm Area
4-Bromophenyl Phenylether (101-55-3)	*				1	Glycol 1 Tank Farm Area
Butyl Benzyl Phthalate (85-68-7)	*				1	Glycol 1 Tank Farm Area
2-Chloronaphthalene (91-58-7)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2931 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
4-Chlorophenyl Phenyl Ether (7005-72-3)	*				1	Glycol 1 Tank Farm Area
Chrysene (218-01-9)	*				1	Glycol 1 Tank Farm Area
Dibenzo (a,h) Anthracene (53-70-3)	*				1	Glycol 1 Tank Farm Area
1,2-Dichlorobenzene (95-50-1)	*				1	Glycol 1 Tank Farm Area
1,3-Dichlorobenzene (541-73-1)	*				1	Glycol 1 Tank Farm Area
1,4-Dichlorobenzene (106-46-7)	*				1	Glycol 1 Tank Farm Area
3,3'-Dichlorobenzidine (91-94-1)	*				1	Glycol 1 Tank Farm Area
Diethyl Phthalate (84-66-2)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number	STATE PERMIT NUMBER	OUTFALL	PART VII - C
LA-0003301	WP1561		

Pollutant and CAS Number (if available)	Maximum Values: Grab sample First 30 minutes	Maximum Values: Flow- weighted Composite	Average Values: Grab sample First 30 minutes	Average Values: Flow- weighted Composite	Number of Storm Events Sampled	Source of Pollutants
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
Dimethyl Phthalate (131-11-3)	*				1	Glycol 1 Tank Farm Area
Di-N-Butyl Phthalate (84-74-2)	*				1	Glycol 1 Tank Farm Area
2,4-Dinitrotoluene (121-14-2)	*				1	Glycol 1 Tank Farm Area
2,6-Dinitrotoluene (606-20-2)	*				1	Glycol 1 Tank Farm Area
Di-N-Octyl Phthalate (117-84-0)	*				1	Glycol 1 Tank Farm Area
1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	*				1	Glycol 1 Tank Farm Area
Fluoranthene (206-44-0)	*				1	Glycol 1 Tank Farm Area
Fluorene (86-73-7)	*				1	Glyocl 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2931 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION: BASE/NEUTRAL COMPOUNDS (continued)						
Hexachlorobenzene (118-74-1)	*				1	Glycol 1 Tank Farm Area
Hexachlorobutadiene (87-68-3)	*				1	Glycol 1 Tank Farm Area
Hexachloroethane (67-72-1)	*				1	Glycol 1 Tank Farm Area
Indeno (1,2,3-cd) Pyrene (193-39-5)	*				1	Glycol 1 Tank Farm Area
Isophorone (78-59-1)	*				1	Glycol 1 Tank Farm Area
Naphthalene (91-20-3)	*				1	Glycol 1 Tank Farm Area
Nitrobenzene (98-95-3)	*				1	Glycol 1 Tank Farm Area
N-nitrosodimethylamine (62-75-9)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561	OUTFALL: Internal Outfall 2931 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
N-Nitrosodi-n-Propylamine (621-64-7)	*				1	Glycol 1 Tank Farm Area
N-Nitrosodiphenylamine (86-30-6)	*				1	Glycol 1 Tank Farm Area
Phenanthrene (85-01-8)	*				1	Glycol 1 Tank farm Area
Pyrene (129-00-0)	*				1	Glycol 1 Tank Farm Area
1,2,4-Trichlorobenzene (120-82-1)	*				1	Glycol 1 Tank Farm Area

@ POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL : Internal Outfall 2931 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS - PESTICIDES						
Aldrin (309-00-2)	*				1	Glycol 1 Tank Farm Area
Alpha BHC (319-84-6)	*				1	Glycol 1 Tank Farm Area
Beta-BHC (319-85-7)	*				1	Glycol 1 Tank Farm Area
Gamma-BHC (58-89-9)	*				1	Glycol 1 Tank Farm Area
Delta-BHC (319-86-8)	*				1	Glycol 1 Tank Farm Area
Chlordane (57-74-9)	*				1	Glycol 1 Tank Farm Area
4,4'-DDT (50-29-3)	*				1	Glycol 1 Tank Farm Area
4,4'-DDE (72-55-9)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2931 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS - PESTICIDES (continued)						
4,4'-DDD (72-54-8)	*				1	Glycol 1 Tank Farm Area
Dieldrin (60-57-1)	*				1	Glycol 1 Tank Farm Area
Alpha-Endosulfan (115-29-7)	*				1	Glycol 1 Tank Farm Area
Beta-Endosulfan (115-29-7)	*				1	Glycol 1 Tank Farm Area
Endosulfan Sulfate (1031-07-8)	*				1	Glycol 1 Tank Farm Area
Endrin (72-20-8)	*				1	Glycol 1 Tank Farm Area
Endrin Aldehyde (7421-93-4)	*				1	Glycol 1 Tank Farm Area
Heptachlor (76-44-8)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2931 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow weighted Composite	Grab sample First 30 minutes	Flow weighted Composite		
GC/MS - PESTICIDES (continued)						
Heptachlor Epoxide (1024-57-3)	*				1	Glycol 1 Tank Farm Area
PCB-1242 (53469-21-9)	*				1	Glycol 1 Tank Farm Area
PCB-1254 (11097-69-1)	*				1	Glycol 1 Tank Farm Area
PCB-1221 (11104-28-2)	*				1	Glycol 1 Tank Farm Area
PCB-1232 (11141-16-5)	*				1	Glycol 1 Tank Farm Area
PCB-1248 (12672-29-6)	*				1	Glycol 1 Tank Farm Area
PCB-1260 (11096-82-5)	*				1	Glycol 1 Tank Farm Area
PCB-1016 (12674-11-2)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2931 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow-weighted Composite	Grab sample First 30 minutes	Flow-weighted Composite		
ORGANIC PESTICIDES (continued)						
Toxaphene (8001-35-2)	*				1	Glycol 1 Tank Farm Area
4,4'-Methoxychlor (72-43-5)	*				1	Glycol 1 Tank Farm Area

\$ POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number	STATE PERMIT NUMBER	OUTFALL: Internal Outfall 2931 (24 hour containment)
LA-0003301	WP1561	

Part VII - B. Provide data for storm events which resulted in maximum values for the flow weighted composite sample.

Date of Storm Event	Duration of Storm (in minutes)	Total rainfall during storm event (in inches)	Number of hours between beginning of storm measured and end of previous measurable rain event	Maximum flow rate during rain event (gallons/minute or specify units)	Total flow from rain event (gallons or specify units)	Season sample was taken	Form of precipitation (rainfall snowmelt)
8/27/91	240	2.12	192	NA	155,933	Summer	Rainfall

9. Provide a description of the method of flow measurement or estimate

Rainfall(ft)x[(imprevious area(ft^2)x0.95) + (previous are (ft^2) x 0.50)] x 7.48 gal/ft^3 = Gal

ALL DATA IN PART B IS BASED ON HISTORICAL GRAB DATA COLLECTED FOR OUR CURRENT NPDES PERMIT. ALL FLOW DATA IS BASED ON A DIFFERENT FLOW ESTIMATE.

THE DOW CHEMICAL COMPANY
LOUISIANA DIVISION
LA0003301/WP1561

METHODS & QUANTITATION LIMITS FORMS 2C/2F ANALYSES

ANALYSIS	QUANTITATION LIMIT (MG/L)	METHOD
CYANIDE	0.01	412 B&D
BOD	1	507
COD	10	508A
BORON	0.1	404A
TOTAL KJELDAHL N2	1	420A, 417D
COLOR (TRUE/APPARENT)	15 APHA	204A
FOAMING AGENTS	0.1	512B
ORGANIC NITROGEN	1	420A, 417A &D
PHENOLS	0.002	510A&B
FECAL COLIFORM	1 COL/100ML	909C
SULFITE (TITRIMETRIC)	2	377.1
ALUMINUM	0.2	202.1
ANTIMONY	0.1	204.1
ARSENIC	0.01	206.2
BARIUM	0.1	208.1
BERYLLIUM	0.005	210.2
CADMIUM	0.01	213.2
CHROMIUM	0.01	218.2
COBALT	0.05	219.1
COPPER	0.005	220.2
IRON	0.03	236.1
LEAD	0.005	239.2
MAGNESIUM	0.01	242.1
MANAGANESE	0.01	243.1
MERCURY	0.0002	245.1
MOLYBDENUM	0.03	246.1
NICKEL	0.05	249.1
SELENIUM	0.01	270.2
SILVER	0.005	272.2
THALLIUM	0.1	279.2
TIN	1	282.1
TITANUIM	0.3	283.1
ZINC	0.01	289.1
TOTAL PHOSPHORUS	0.1	424C&F
NO2/NO3	0.05	418C
BROMIDE	2	320.1
SULFATE (TURBIDIMETRIC)	5	426C
OIL & GREASE	1	413.1
RESIDUAL CHLORINE	0.05	ORION
TOTAL OXYGEN DEMAND	10	ASTM 3250-77
TOTAL SUSPENDED SOLIDS	1	160.2
TOTAL ORGANIC CARBON	2	415.1
VOLATILE ORGANICS	0.01	601, 602, 624
BASE NEUTRALS	0.01	625
ACID PHENOLS	0.01	625

THE DOW CHEMICAL COMPANY
LOUISIANA DIVISION
LA0003301/WP1561

METHODS & QUANTITATION LIMITS FORMS ZC/ZF ANALYSES

ANALYSIS	LIMIT (MG/L)	METHOD
PESTICIDES	0.01	625
AMMONIA	0.01	350.3
SULFIDE	0.01	376.1
pH	0-14 SU	150.1
TEMPERATURE	.5°C	170.1
FLUORIDES	0.2	4138

	PCI/L	METHOD
RADIOLOGICALS		
GROSS ALPHA	0.1	703
GROSS BETA	0.10	703
RADIUM (226)	0.10	705
RADIUM (228)	0.10	706
TOTAL RADIUM	0.10	705

For any test value below the quantitation limit, a zero was used for any required calculation.

OUTFALL: Internal Outfall 2941

EPA ID Number (copy from item 1 of Form 1)
LA0003301/WP1561

Form Approved OMB No 2040-0086
Approval expires 5-31-92

VII. Discharge Information (Continued from page 3 of Form 2F)

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.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Oil and Grease						
Biochemical Oxygen Demand (BOD5)	PLEASE REFER TO ATTACHED DATA SHEETS.					
Chemical Oxygen Demand (COD)	THE UNANSWERED PORTIONS OF THIS FORM ARE					
Total Suspended Solids (TSS)	NOT APPLICABLE.					
Total Kjeldahl Nitrogen						
Nitrate plus Nitrite Nitrogen						
Total Phosphorus						
Flow	Maximum	Maximum	Maximum	Maximum		

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Continued from the Front

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample

1. Date of Storm Event	2. Duration of Storm (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)	7. Season sample was taken	8. Form of Precipitation (rainfall, snowmelt)

9. Provide a description of the method of flow measurement or estimate.

EPA ID Number	STATE PERMIT NUMBER	OUTFALL : Internal Outfall 2941 (24 hour containment)
LA-0003301	WP1561	

PART VII - A

VII. Discharge Information (continued from page 3)

Pollutant and CAS Number (if available)	Maximum Values: Grab sample First 30 minutes	Maximum Values: Flow- weighted Composite	Average Values: Grab sample First 30 minutes	Average Values: Flow- weighted Composite	Number of Storm Events Sampled	Source of Pollutants
Oil and Grease	See Part B					
Biological Oxygen Demand (BOD5)	4.0 mg/l				1	Glycol 1 Tank Farm Area
	3.0#					
Chemical Oxygen Demand (COD)	39 mg/l				1	Glycol 1 Tank Farm Area
	29.2#					
Total Suspended Solids (TSS)	12 mg/l				1	Glycol 1 Tank Farm Area
	9#					
Total Kjeldahl Nitrogen	1.5 mg/l				1	Glycol 1 Tank Farm Area
	1.1#					
Nitrate plus Nitrite Nitrogen	0.68 mg/l				1	Glycol 1 Tank Farm Area
	0.5#					
Total Phosphorus	0.9 mg/l				1	Glycol 1 Tank Farm Area
	0.7#					
pH	****					

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT
**** NOT APPLICABLE - DIVISION CANAL pH SYSTEM

EPA ID Number	STATE PERMIT NUMBER	OUTFALL
LA-0003301	WP1561	: Internal Outfall 2941 (24 hour containment)

PART VII - B. Pollutants listed under existing NPDES permit.

Pollutant and CAS Number (if available)	Maximum Values: Grab sample First 30 minutes	Maximum Values: Flow- weighted Composite	Average Values: Grab sample First 30 minutes	Average Values: Flow- weighted Composite	Number of Storm Events Sampled	Source of Pollutants
Oil and Grease	8 mg/l		1 mg/l		15	Glycol 1 Tank Farm Area
	0.8 #		0.008 #			
Total Oxygen Demand (TOD)	100 mg/l		33 mg/l		23	Glycol 1 Tank Farm Area
	0.3 #		0.1 #			

POUNDS

EPA ID Number	STATE PERMIT NUMBER	OUTFALL: Internal Outfall 2941 (24 hour containment)	PART VII - C
LA-0003301	WP1561		

Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION VOLATILE COMPOUNDS						
Acrolein (107-02-8)	*				1	Glycol 1 Tank Farm Area
Acrylonitrile (107-13-1)	*				1	Glycol 1 Tank Farm Area
Benzene (71-43-2)	*				1	Glycol 1 Tank Farm Area
Bis(chloromethyl)Ether (542-88-1)	*				1	Glycol 1 Tank Farm Area
Bromoform (75-25-2)	*				1	Glycol 1 Tank Farm Area
Carbon Tetrachloride (56-23-5)	*				1	Glycol 1 Tank Farm Area
Chlorobenzene (108-90-7)	*				1	Glycol 1 Tank Farm Area
Chlorodibromomethane (124-48-1)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2941 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION VOLATILE COMPOUNDS (continued)						
Chloroethane (75-00-3)	*				1	Glycol 1 Tank Farm Area
2-Chloroethylvinyl Ether (110-75-8)	*				1	Glycol 1 Tank Farm Area
Chloroform (67-66-3)	*				1	Glycol 1 Tank Farm Area
Dichlorobromomethane (75-27-4)	*				1	Glycol 1 Tank Farm Area
1,1-Dichloroethane (75-34-3)	*				1	Glycol 1 Tank Farm Area
1,2-Dichloroethane (107-06-2)	*				1	Glycol 1 Tank Farm Area
1,1-Dichloroethylene (75-35-4)	*				1	Glycol 1 Tank Farm Area
1,2-Dichloropropane (78-87-5)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2941 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION VOLATILE COMPOUNDS (continued)						
1,3-Dichloropropylene (542-75-6)	*				1	Glycol 1 Tank Farm Area
Ethylbenzene (100-41-4)	*				1	Glycol 1 Tank Farm Area
Methyl Bromide (74-83-9)	*				1	Glycol 1 Tank Farm Area
Methyl Chloride (74-87-3)	*				1	Glycol 1 Tank Farm Area
Methylene Chloride (75-09-2)	*				1	Glycol 1 Tank Farm Area
1,1,2,2-Tetrachloroethane (79-34-5)	*				1	Glycol 1 Tank Farm Area
Tetrachloroethylene (127-18-4)	*				1	Glycol 1 Tank Farm Area
Toluene (108-88-3)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number	STATE PERMIT NUMBER	OUTFALL : Internal Outfall 2941 (24 hour containment)	PART VII - C
LA-0003301	WP1561		

Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)						
1,2-Trans-Dichloro-ethylene (156-60-5)	*				1	Glycol 1 Tank Farm Area
1,1,1-Trichloroethane (71-55-6)	*				1	Glycol 1 Tank Farm Area
1,1,2-Trichloroethane (79-00-5)	*				1	Glycol 1 Tank Farm Area
Trichloroethylene (79-01-6)	*				1	Glycol 1 Tank Farm Area
Vinyl Chloride (75-01-4)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2941 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS						
Acenaphthene (83-32-9)	*				1	Glycol 1 Tank Farm Area
Acenaphthylene (208-96-8)	*				1	Glycol 1 Tank Farm Area
Anthracene (120-12-7)	*				1	Glycol 1 Tank Farm Area
Benzidine (92-87-5)	*				1	Glycol 1 Tank Farm Area
Benzo (a) Anthracene (56-55-3)	*				1	Glycol 1 Tank Farm Area
Benzo (a) Pyrene (50-32-8)	*				1	Glycol 1 Tank Farm Area
3,4-Benzofluoranthene (205-99-2)	*				1	Glycol 1 Tank Farm Area
Benzo (ghi) Perylene (191-24-2)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL : Internal Outfall 2941 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
Benzo (k) Fluor-anthene (207-08-9)	*				1	Glycol 1 Tank Farm Area
Bis (2-Chloroethoxy) Methane (111-91-1)	*				1	Glycol 1 Tank Farm Area
Bis (2-Chloroethyl) Ether (111-44-4)	*				1	Glycol 1 Tank Farm Area
Bis (2-Chloroisopropyl) Ether (102-80-1)	*				1	Glycol 1 Tank Farm Area
Bis (2-Ethylhexyl) Phthalate (117-81-7)	*				1	Glycol 1 Tank Farm Area
4-Bromophenyl Phenylether (101-55-3)	*				1	Glycol 1 Tank Farm Area
Butyl Benzyl Phthalate (85-68-7)	*				1	Glycol 1 Tank Farm Area
2-Chloronaphthalene (91-58-7)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2941 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
4-Chlorophenyl Phenyl Ether (7005-72-3)	*				1	Glycol 1 Tank Farm Area
Chrysene (218-01-9)	*				1	Glycol 1 Tank Farm Area
Dibenzo (a,h) Anthracene (53-70-3)	*				1	Glycol 1 Tank Farm Area
1,2-Dichlorobenzene (95-50-1)	*				1	Glycol 1 Tank Farm Area
1,3-Dichlorobenzene (541-73-1)	*				1	Glycol 1 Tank Farm Area
1,4-Dichlorobenzene (106-46-7)	*				1	Glycol 1 Tank Farm Area
3,3'-Dichlorobenzidine (91-94-1)	*				1	Glycol 1 Tank Farm Area
Diethyl Phthalate (84-66-2)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2941 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (Continued)						
Dimethyl Phthalate (131-11-3)	*				1	Glycol 1 Tank Farm Area
Di-N-Butyl Phthalate (84-74-2)	*				1	Glycol 1 Tank Farm Area
2,4-Dinitrotoluene (121-14-2)	*				1	Glycol 1 Tank Farm Area
2,6-Dinitrotoluene (606-20-2)	*				1	Glycol 1 Tank Farm Area
Di-N-Octyl Phthalate (117-84-0)	*				1	Glycol 1 Tank Farm Area
1,2-Diphenylhydrazine as Azobenzene (122-66-7)	*				1	Glycol 1 Tank Farm Area
Fluoranthene (206-44-0)	*				1	Glycol 1 Tank Farm Area
Fluorene (86-73-7)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL : Internal Outfall 2941 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
BC/PH FRACTION, BASE/NEUTRAL COMPOUNDS (continued)						
Hexachlorobenzene (118-74-1)	*				1	Glycol 1 Tank Farm Area
Hexachlorobutadiene (87-68-3)	*				1	Glycol 1 Tank Farm Area
Hexachloroethane (67-72-1)	*				1	Glycol 1 Tank Farm Area
Indeno (1,2,3-cd) Pyrene (193-39-5)	*				1	Glycol 1 Tank Farm Area
Isophorone (78-59-1)	*				1	Glycol 1 Tank Farm Area
Naphthalene (91-20-3)	*				1	Glycol 1 Tank Farm Area
Nitrobenzene (98-95-3)	*				1	Glycol 1 Tank Farm Area
N-Nitrosodimethylamine (62-75-9)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2941 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
N-Nitrosodi-N-Propyl-amine (621-64-7)	*				1	Glycol 1 Tank Farm Area
N-Nitrosodiphenyl-amine (86-30-6)	*				1	Glycol 1 Tank Farm Area
Phenanthrene (85-01-8)	*				1	Glycol 1 Tank Farm Area
Pyrene (129-00-0)	*				1	Glycol 1 Tank Farm Area
1,2,4-Trichlorobenzene (120-82-1)	*				1	Glycol 1 Tank Farm Area

POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2941 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS - PESTICIDES						
Aldrin (309-00-2)	*				1	Glycol 1 Tank Farm Area
Alpha-BHC (319-84-6)	*				1	Glycol 1 Tank Farm Area
Beta-BHC (319-85-7)	*				1	Glycol 1 Tank Farm Area
Gamma-BHC (58-89-9)	*				1	Glycol 1 Tank Farm Area
Delta-BHC (319-86-8)	*				1	Glycol 1 Tank Farm Area
Chlordane (57-74-9)	*				1	Glycol 1 Tank Farm Area
4,4'-DDT (50-29-3)	*				1	Glycol 1 Tank Farm Area
4,4'-DDE (72-55-9)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2941 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS - PESTICIDES (continued)						
4,4'-DDD (72-54-8)	*				1	Glycol 1 Tank Farm Area
Dieldrin (60-57-1)	*				1	Glycol 1 Tank Farm Area
Alpha-Endosulfan (115-29-7)	*				1	Glycol 1 Tank Farm Area
Beta-Endosulfan (115-29-7)	*				1	Glycol 1 Tank Farm Area
Endosulfan Sulfate (1031-07-8)	*				1	Glycol 1 Tank Farm Area
Endrin (72-20-8)	*				1	Glycol 1 Tank Farm Area
Endrin Aldehyde (7421-93-4)	*				1	Glycol 1 Tank Farm Area
Heptachlor (76-44-8)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number	STATE PERMIT NUMBER	OUTFALL: Internal Outfall 2941 (24 hour containment)	PART VII - C
LA-0003301	WP1561		

Pollutant and CAS Number (if available)	Maximum Values: Grab sample First 30 minutes	Maximum Values: Flow-weighted Composite	Average Values: Grab sample First 30 minutes	Average Values: Flow-weighted Composite	Number of Storm Events Sampled	Source of Pollutants
BC'MS - PESTICIDES (continued)						
Heptachlor Epoxide (1024-57-3)	*				1	Glycol 1 Tank Farm Area
PCB-1262 (53469-21-9)	*				1	Glycol 1 Tank Farm Area
PCB-1254 (11097-69-1)	*				1	Glycol 1 Tank Farm Area
PCB-1221 (11104-28-2)	*				1	Glycol 1 Tank Farm Area
PCB-1232 (11141-16-5)	*				1	Glycol 1 Tank Farm Area
PCB-1248 (12672-29-6)	*				1	Glycol 1 Tank Farm Area
PCB-1260 (11096-82-5)	*				1	Glycol 1 Tank Farm Area
PCB-1016 (12674-11-2)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL : Internal Outfall 2941 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS - PESTICIDES (continued)						
Toxaphene (8001-35-2)	*				1	Glycol 1 Tank Farm Area
4,4'-Methoxychlor (72-43-5)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number	STATE PERMIT NUMBER	OUTFALL: Internal Outfall 2941 (24 hour containment)
LA-0003301	WP1561	

Part VII - B. Provide data for storm events which resulted in maximum values for the flow weighted composite sample.

Date of Storm Event	Duration of Storm (in minutes)	Total rainfall during storm event (in inches)	Number of hours between beginning of storm measured and end of previous measurable rain event	Maximum flow rate during rain event (gallons/minute or specify units)	Total flow from rain event (gallons or specify units)	Season sample was taken	Form of precipitation (rainfall snowmelt)
8/27/91	240	2.12	192	NA	89,860	Summer	Rainfall

9. Provide a description of the method of flow measurement or estimate

Rainfall (ft)x[(impervious area (ft^2)x0.95) + (previous area (ft^2) x0.50)] x 7.48 gal/ft^3 = gal

ALL DATA IN PART B IS BASED ON HISTORICAL GRAB DATA COLLECTED FOR OUR CURRENT NPDES PERMIT. ALL FLOW DATA IS BASED ON A DIFFERENT FLOW ESTIMATE.

THE DOW CHEMICAL COMPANY
LOUISIANA DIVISION
LA0003301/WP1561

METHODS & QUANTITATION LIMITS FORMS 2C/2F ANALYSES

ANALYSIS	QUANTITATION LIMIT (MG/L)	METHOD
CYANIDE	0.01	412 BED
BOD	1	507
COD	10	508A
BORON	0.1	404A
TOTAL KJELDAHL N2	1	420A, 417D
COLOR (TRUE/APPARENT)	15 APHA	204A
FOAMING AGENTS	0.1	512B
ORGANIC NITROGEN	1	420A, 417A &D
PHENOLS	0.002	510A&B
FECAL COLIFORM	1 COL/100ML	909C
SULFITE (TITRIMETRIC)	2	377.1
ALUMINUM	0.2	202.1
ANTIMONY	0.1	204.1
ARSENIC	0.01	206.2
BARIUM	0.1	208.1
BERYLLIUM	0.005	210.2
CADMIUM	0.01	213.2
CHROMIUM	0.01	218.2
COBALT	0.05	219.1
COPPER	0.005	220.2
IRON	0.03	236.1
LEAD	0.005	239.2
MAGNESIUM	0.01	242.1
MANAGANESE	0.01	243.1
MERCURY	0.0002	245.1
MOLYBDENUM	0.03	246.1
NICKEL	0.05	249.1
SELENIUM	0.01	270.2
SILVER	0.005	272.2
THALLIUM	0.1	279.2
TIN	1	282.1
TITANUIM	0.3	283.1
ZINC	0.01	289.1
TOTAL PHOSPHORUS	0.1	424C&F
NO2/NO3	0.05	418C
BROMIDE	2	320.1
SULFATE (TURBIDIMETRIC)	5	426C
OIL & GREASE	1	413.1
RESIDUAL CHLORINE	0.05	ORION
TOTAL OXYGEN DEMAND	10	ASTM 3250-77
TOTAL SUSPENDED SOLIDS	1	160.2
TOTAL ORGANIC CARBON	2	415.1
VOLATILE ORGANICS	0.01	601, 602, 624
BASE NEUTRALS	0.01	625
ACID PHENOLS	0.01	625

THE DOW CHEMICAL COMPANY
LOUISIANA DIVISION
LA0003301/WP1561

METHODS & QUANTITATION LIMITS FORMS 2C/2F ANALYSES

ANALYSIS	LIMIT (MG/L)	METHOD
PESTICIDES	0.01	625
AMMONIA	0.01	350.3
SULFIDE	0.01	376.1
pH	0-14 SU	150.1
TEMPERATURE	.5°C	170.1
FLUORIDES	0.2	413B
	PCI/L	METHOD
RADIOLOGICALS		
GROSS ALPHA	0.1	703
GROSS BETA	0.10	703
RADIUM (226)	0.10	705
RADIUM (228)	0.10	706
TOTAL RADIUM	0.10	705

For any test value below the quantitation limit, a zero was used for any required calculation.

OUTFALL: Internal Outfall 2961

EPA ID Number (copy from Item 1 of Form 1): LA0003301/WP1561

Form Approved OMB No 2040-0086
Approval expires 5-31-92

VII. Discharge Information (Continued from page 3 of Form 2F)

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.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Oil and Grease						
Biological Oxygen Demand (BOD5)	PLEASE REFER TO ATTACHED DATA SHEETS.					
Chemical Oxygen Demand (COD)	THE UNANSWERED PORTIONS OF THIS FORM ARE					
Total Suspended Solids (TSS)	NOT APPLICABLE.					
Total Kjeldahl Nitrogen						
Nitrate plus Nitrite Nitrogen						
Total Phosphorus						
Flow	Minimum	Maximum	Minimum	Maximum		

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Continued from the Front

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample

1. Date of Storm Event	2. Duration of Storm (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)	7. Season sample was taken	8. Form of Precipitation (rainfall, snowmelt)

9. Provide a description of the method of flow measurement or estimate.

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561	OUTFALL: Internal Outfall 2961 (24 hour containment)				
PART VII - A	VII Discharge Information (continued from page 2)					
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
Oil and Grease	See Part B					
Biological Oxygen Demand (BOD5)	3.9 mg/l 2.9#				1	Glycol 1 Tank Farm Area
Chemical Oxygen Demand (COD)	35 mg/l 26.2#				1	Glycol 1 Tank Farm Area
Total Suspended Solids (TSS)	18 mg/l 13.5#				1	Glycol 1 Tank Farm Area
Total Kjeldahl Nitrogen	*				1	Glycol 1 Tank Farm Area
Nitrate plus Nitrite Nitrogen	0.66 mg/l 0.5#				1	Glycol 1 Tank Farm Area
Total Phosphorous	*				1	Glycol 1 Tank Farm Area
pH	****					

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT
**** NOT APPLICABLE - DIVISION CANAL pH SYSTEM

EPA ID Number	STATE PERMIT NUMBER	OUTFALL: Internal Outfall 2961 (24 hour containment)
LA-0003301	WP1561	

PART VII - B. Pollutants listed under existing NPDES permit

Pollutant and CAS Number (if available)	Maximum Values: Grab sample First 30 minutes	Maximum Values: Flow- weighted Composite	Average Values: Grab sample First 30 minutes	Average Values: Flow- weighted Composite	Number of Storm Events Sampled	Source of Pollutants
Oil and Grease	8 mg/l		1 mg/l		16	Glycol 1 Tank Farm Area
	0.1#		0.01#			
	36 mg/l		18 mg/l		32	Glycol 1 Tank Farm Area
	0.2#		0.1#			
Total Oxygen Demand (TOD)						

POUNDS

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2961 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - VOLATILE COMPOUNDS						
Acrolein (107-02-8)	*				1	Glycol 1 Tank Farm Area
Acrylonitrile (107-13-1)	*				1	Glycol 1 Tank Farm Area
Benzene (71-43-2)	*				1	Glycol 1 Tank Farm Area
Bis(chloromethyl)Ether (542-88-1)	*				1	Glycol 1 Tank Farm Area
Bromoform (75-25-2)	*				1	Glycol 1 Tank Farm Area
Carbon Tetrachloride (56-23-5)	*				1	Glycol 1 Tank Farm Area
Chlorobenzene (108-90-7)	*				1	Glycol 1 Tank Farm Area
Chlorodibromomethane (124-48-1)	*				1	Glycol 1 Tank Farm Area

POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number	STATE PERMIT NUMBER	OUTFALL : Internal Outfall 2961 (24 hour containment)	PART VII - C
LA-0003301	WP1561		

Pollutant and CAS Number (if available)	Maximum Values: Grab sample First 30 minutes	Maximum Values: Flow- weighted Composite	Average Values: Grab sample First 30 minutes	Average Values: Flow- weighted Composite	Number of Storm Events Sampled	Source of Pollutants
GC/MS FRACTION VOLATILE COMPOUNDS (continued)						
Chloroethane (75-00-3)	*				1	Glycol 1 Tank Farm Area
2-Chloroethylvinyl Ether (110-75-8)	*				1	Glycol 1 Tank Farm Area
Chloroform (67-66-3)	*				1	Glycol 1 Tank Farm Area
Dichlorobromomethane (75-27-4)	*				1	Glycol 1 Tank Farm Area
1,1 Dichloroethane (75-34-3)	*				1	Glycol 1 Tank Farm Area
1,2-Dichloroethane (107-06-2)	*				1	Glycol 1 Tank Farm Area
1,1-Dichloroethylene (75-35-4)	*				1	Glycol 1 Tank Farm Area
1,2-Dichloropropane (78-87-5)	*				1	Glyocl 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2961 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION: VOLATILE COMPOUNDS (continued)						
1,3-Dichloropropylene (542-75-6)	*				1	Glycol 1 Tank Farm Area
Ethylbenzene (100-41-4)	*				1	Glycol 1 Tank Farm Area
Methyl Bromide (74-83-9)	*				1	Glycol 1 Tank Farm Area
Methyl Chloride (74-87-3)	*				1	Glycol 1 Tank Farm Area
Methylene Chloride (75-09-2)	*				1	Glycol 1 Tank Farm Area
1,1,2,2-Tetrachloroethane (79-34-5)	*				1	Glycol 1 Tank Farm Area
Tetrachloroethylene (127-18-4)	*				1	Glycol 1 Tank Farm Area
Toluene (108-88-3)	*				1	Gylcol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2961 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)						
1,2-Trans-Dichloro-ethylene (156-60-5)	*				1	Glycol 1 Tank Farm Area
1,1,1-Trichloroethane (71-55-6)	*				1	Glycol 1 Tank Farm Area
1,1,2-Trichloroethane (79-00-5)	*				1	Glycol 1 Tank Farm Area
Trichloroethylene (79-01-6)	*				1	Glycol 1 Tank Farm Area
Vinyl Chloride (75-01-4)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561	OUTFALL: Internal Outfall 2961 (24 hour containment)				PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
BC/NN FRACTION - BASE/NEUTRAL COMPOUNDS						
Acenaphthene (83-32-9)	*				1	Glycol 1 Tank Farm Area
Acenaphtylene (208-96-8)	*				1	Glycol 1 Tank Farm Area
Anthracene (120-12-7)	*				1	Glycol 1 Tank Farm Area
Benzidine (92-87-5)	*				1	Glycol 1 Tank Farm Area
Benzo (a) Anthracene (56-55-3)	*				1	Glycol 1 Tank Farm Area
Benzo (a) Pyrene (50-32-8)	*				1	Glycol 1 Tank Farm Area
3,4-Benzofluor-anthene (205-99-2)	*				1	Glycol 1 Tank Farm Area
Benzo (ghi) Perylene (191-24-2)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2961 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
Benzo (k) Fluor-	*				1	Glycol 1 Tank Farm Area
anthene (207-08-9)						
Bis (2-Chloroethoxy)	*				1	Glycol 1 Tank Farm Area
Methane (111-91-1)						
Bis (2-Chloroethyl)	*				1	Glycol 1 Tank Farm Area
Ether (111-44-4)						
Bis (2-Chloroisopropyl)	*				1	Glycol 1 Tank Farm Area
Ether (102-60-1)						
Bis (2-Ethylhexyl)	*				1	Glycol 1 Tank Farm Area
Phthalate (117-81-7)						
4-Bromophenyl	*				1	Glycol 1 Tank Farm Area
Phenylether (101-55-3)						
Butyl Benzyl	*				1	Glycol 1 Tank Farm Area
Phthalate (85-68-7)						
2-Chloronaphthalene	*				1	Glycol 1 Tank Farm Area
(91-58-7)						

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL : Internal Outfall 2961 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
4-Chlorophenyl Phenyl Ether (7005-72-3)	*				1	Glycol 1 Tank Farm Area
Chrysene (218-01-9)	*				1	Glycol 1 Tank Farm Area
Dibenzo (a,h) Anthracene (53-70-3)	*				1	Glycol 1 Tank Farm Area
1,2-Dichlorobenzene (95-50-1)	*				1	Glycol 1 Tank Farm Area
1,3-Dichlorobenzene (541-73-1)	*				1	Glycol 1 Tank Farm Area
1,4-Dichlorobenzene (106-46-7)	*				1	Glycol 1 Tank Farm Area
3,3'-Dichlorobenzidine (91-94-1)	*				1	Glycol 1 Tank Farm Area
Diethyl Phthalate (84-66-2)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL : Internal Outfall 2961 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
Dimethyl Phthalate (131-11-3)	*				1	Glycol 1 Tank Farm Area
Di-N-Butyl Phthalate (84-74-2)	*				1	Glycol 1 Tank Farm Area
2,4-Dinitrotoluene (121-14-2)	*				1	Glycol 1 Tank Farm Area
2,6-Dinitrotoluene (606-20-2)	*				1	Glycol 1 Tank Farm Area
Di-N-Octyl Phthalate (117-84-0)	*				1	Glycol 1 Tank Farm Area
1,2-Diphenylhydrazine as Azobenzene (122-66-7)	*				1	Glycol 1 Tank Farm Area
Fluoranthene (206-44-0)	*				1	Glycol 1 Tank Farm Area
Fluorene (86-73-7)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2961 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (Continued)						
Hexachlorobenzene (118-74-1)	*				1	Glycol 1 Tank Farm Area
Hexachlorobutadiene (87-68-3)	*				1	Glycol 1 Tank Farm Area
Hexachloroethane (67-72-1)	*				1	Glycol 1 Tank Farm Area
Indeno (1,2,3-cd) Pyrene (193-39-5)	*				1	Glycol 1 Tank Farm Area
Isophorone (78-59-1)	*				1	Glycol 1 Tank Farm Area
Naphthalene (91-20-3)	*				1	Glycol 1 Tank Farm Area
Nitrobenzene (98-95-3)	*				1	Glycol 1 Tank Farm Area
N-Nitro-sodimethylamine (62-75-9)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2961 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
N-Nitrosodi-N-Propyl-amine (621-64-7)	*				1	Glycol 1 Tank Farm Area
N-Nitrosodiphenyl-amine (86-30-6)	*				1	Glycol 1 Tank Farm Area
Phenanthrene (85-01-8)	*				1	Glycol 1 Tank Farm Area
Pyrene (129-00-0)	*				1	Glycol 1 Tank Farm Area
1,2,4-Trichlorobenzene (120-82-1)	*				1	Glycol 1 Tank Farm Area

@ POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL : Internal Outfall 2961 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS - PESTICIDES						
Aldrin (309-00-2)	*				1	Glycol 1 Tank Farm Area
Alpha BHC (319-84-6)	*				1	Glycol 1 Tank Farm Area
Beta BHC (319-85-7)	*				1	Glycol 1 Tank Farm Area
Gamma BHC (58-89-9)	*				1	Glycol 1 Tank Farm Area
Delta BHC (319-86-8)	*				1	Glycol 1 Tank Farm Area
Chlordane (57-74-9)	*				1	Glycol 1 Tank Farm Area
4,4'-DDT (50-29-3)	*				1	Glycol 1 Tank Farm Area
4,4'-DDE (72-55-9)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS - PESTICIDES (continued)						
4,4'-DDD (72-54-8)	*				1	Glycol 1 Tank Farm Area
Dieldrin (60-57-1)	*				1	Glycol 1 Tank Farm Area
Alpha-Endosulfan (115-29-7)	*				1	Glycol 1 Tank Farm Area
Beta-Endosulfan (115-29-7)	*				1	Glycol 1 Tank Farm Area
Endosulfan Sulfate (1031-07-8)	*				1	Glycol 1 Tank Farm Area
Endrin (72-20-8)	*				1	Glycol 1 Tank Farm Area
Endrin Aldehyde (7421-93-4)	*				1	Glycol 1 Tank Farm Area
Heptachlor (76-44-8)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2961 (24 hour Containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS - PESTICIDES (continued)						
Heptachlor Epoxide (1024-57-3)	*				1	Glycol 1 Tank Farm Area
PCB-1242 (53469-21-9)	*				1	Glycol 1 Tank Farm Area
PCB-1254 (11097-69-1)	*				1	Glycol 1 Tank Farm Area
PCB-1221 (11104-28-2)	*				1	Glycol 1 Tank Farm Area
PCB-1232 (11141-16-5)	*				1	Glycol 1 Tank Farm Area
PCB-1248 (12672-29-6)	*				1	Glycol 1 Tank Farm Area
PCB-1260 (11096-82-5)	*				1	Glycol 1 Tank Farm Area
PCB-1016 (12674-11-2)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2961 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
ACID - PESTICIDES (continued)						
Toxaphene (8001-35-2)	*				1	Glycol 1 Tank Farm Area
4,4'-Methoxychlor (72-43-5)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number	STATE PERMIT NUMBER	OUTFALL :
LA-0003301	WP1561	Internal Outfall 2961 (24 hour containment)

Part VII - D. Provide data for storm events which resulted in maximum values for the flow weighted composite sample.

Date of Storm Event	Duration of Storm (in minutes)	Total rainfall during storm event (in inches)	Number of hours between beginning of storm measured and end of previous measurable rain event	Maximum flow rate during rain event (gallons/minute or specify units)	Total flow from rain event (gallons or specify units)	Season sample was taken	Form of precipitation (rainfall snowmelt)
8/27/91	240	2.12	192	NA	89,860	Summer	Rainfall

9. Provide a description of the method of flow measurement or estimate

Rainfall(ft)x[(impervious area(ft^2)x0.95) + (pervious area (ft^2)x0.50)] x 7.48 gal/ft^3 = gal

ALL DATA IN PART B IS BASED ON HISTORICAL GRAB DATA COLLECTED FOR OUR CURRENT NPDES PERMIT. ALL FLOW DATA IS BASED ON A DIFFERENT FLOW ESTIMATE.

THE DOW CHEMICAL COMPANY
LOUISIANA DIVISION
LA0003301/WP1561

METHODS & QUANTITATION LIMITS FORMS 2C/2F ANALYSES

ANALYSIS	QUANTITATION LIMIT (MG/L)	METHOD
CYANIDE	0.01	412 B&D
BOD	1	507
COD	10	508A
BORON	0.1	404A
TOTAL KJELDAHL N2	1	420A, 417D
COLOR (TRUE/APPARENT)	15 APHA	204A
FOAMING AGENTS	0.1	512B
ORGANIC NITROGEN	1	420A, 417A &D
PHENOLS	0.002	510A&B
FECAL COLIFORM	1 COL/100ML	909C
SULFITE (TITRIMETRIC)	2	377.1
ALUMINUM	0.2	202.1
ANTIMONY	0.1	204.1
ARSENIC	0.01	206.2
BARIUM	0.1	208.1
BERYLLIUM	0.005	210.2
CADMIUM	0.01	213.2
CHROMIUM	0.01	218.2
COBALT	0.05	219.1
COPPER	0.005	220.2
IRON	0.03	236.1
LEAD	0.005	239.2
MAGNESIUM	0.01	242.1
MANAGANESE	0.01	243.1
MERCURY	0.0002	245.1
MOLYBDENUM	0.03	246.1
NICKEL	0.05	249.1
SELENIUM	0.01	270.2
SILVER	0.005	272.2
THALLIUM	0.1	279.2
TIN	1	282.1
TITANUIM	0.3	283.1
ZINC	0.01	289.1
TOTAL PHOSPHORUS	0.1	424C&F
NO2/NO3	0.05	418C
BROMIDE	2	320.1
SULFATE (TURBIDIMETRIC)	5	426C
OIL & GREASE	1	413.1
RESIDUAL CHLORINE	0.05	ORION
TOTAL OXYGEN DEMAND	10	ASTM 3250-77
TOTAL SUSPENDED SOLIDS	1	160.2
TOTAL ORGANIC CARBON	2	415.1
VOLATILE ORGANICS	0.01	601, 602, 624
BASE NEUTRALS	0.01	625
ACID PHENOLS	0.01	625

THE DOW CHEMICAL COMPANY
LOUISIANA DIVISION
LA0003301/WP1561

METHODS & QUANTITATION LIMITS FORMS 2C/2F ANALYSES

ANALYSIS	LIMIT (MG/L)	METHOD
PESTICIDES	0.01	625
AMMONIA	0.01	350.3
SULFIDE	0.01	376.1
pH	0-14 SU	150.1
TEMPERATURE	.5°C	170.1
FLUORIDES	0.2	413B
	PCI/L	**METHOD**
RADIOLOGICALS		
GROSS ALPHA	0.1	703
GROSS BETA	0.10	703
RADIUM (226)	0.10	705
RADIUM (228)	0.10	706
TOTAL RADIUM	0.10	705

For any test value below the quantitation limit, a zero was used for any required calculation

OUTFALL: Internal Outfall 2971

EPA ID Number (copy from item 1 of Form 1)
LA0003301/WP1561

Form Approved OMB No. 2040-0086
Approval expires 5-31-92

VII. Discharge Information (Continued from page 3 of Form 2F)

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.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Oil and Grease						
Biochemical Oxygen Demand (BOD5)	PLEASE REFER TO ATTACHED DATA SHEETS.					
Chemical Oxygen Demand (COD)	THE UNANSWERED PORTIONS OF THIS FORM ARE					
Total Suspended Solids (TSS)	NOT APPLICABLE.					
Total Kjeldahl Nitrogen						
Nitrate plus Nitrite Nitrogen						
Total Phosphorus						
pH	Minimum	Maximum	Minimum	Maximum		

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Continue on Reverse

Continued from the Front

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample

1. Date of Storm Event	2. Duration of Storm (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)	7. Season sample was taken	8. Form of Precipitation (rainfall, snowmelt)

9. Provide a description of the method of flow measurement or estimate.

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561	OUTFALL: Internal Outfall 2971 (24 hour containment)				
PART VII - A	VII Discharge Information (continued from page 3)					
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
Oil and Grease	See Part B					
Biological Oxygen Demand (BOD5)	3.6 mg/l				1	Glycol 1 Tank Farm Area
	4.8#					
Chemical Oxygen Demand (COD)	*				1	Glycol 1 Tank Farm Area
	*					
Total Suspended Solids (TSS)	16 mg/l				1	Glycol 1 Tank Farm Area
	21.3#					
Total Kjeldahl Nitrogen	*				1	Glycol 1 Tank Farm Area
	*					
Nitrate plus Nitrite Nitrogen	0.43 mg/l				1	Glycol 1 Tank Farm Area
	0.6#					
Total Phosphorous	0.2 mg/l				1	Glycol 1 Tank Farm Area
	0.3#					
pH	****					

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT
**** NOT APPLICABLE - DIVISION CANAL pH SYSTEM

EPA ID Number	STATE PERMIT NUMBER	OUTFALL: Internal Outfall 2971 (24 hour containment)
LA-0003301	WP1561	

PART VII - B. Pollutants listed under existing NPDES permit.

Pollutant and CAS Number (if available)	Maximum Values: Grab sample First 30 minutes	Maximum Values: Flow-weighted Composite	Average Values: Grab sample First 30 minutes	Average Values: Flow-weighted Composite	Number of Storm Events Sampled	Source of Pollutants
Oil and Grease	7 mg/l		1 mg/l		20	Glycol 1 Tank Farm Area
	0.03#		0.01#			
Total Oxygen Demand (TOD)	188 mg/l		34 mg/l		40	Glycol 1 Tank Farm Area
	1.1#		0.2#			

POUNDS

LDEQ-EDMS Document 254101, Page 132 of 174

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL : Internal Outfall 2971 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - VOLATILE COMPOUNDS						
Acrolein (107-02-8)	*				1	Glycol 1 Tank Farm Area
Acrylonitrile (107-13-1)	*				1	Glycol 1 Tank Farm Area
Benzene (71-43-2)	*				1	Glycol 1 Tank Farm Area
Bis(chloromethyl)ether (542-88-1)	*				1	Glycol 1 Tank Farm Area
Bromoform (75-25-2)	*				1	Glycol 1 Tank Farm Area
Carbon Tetrachloride (56-23-5)	*				1	Glycol 1 Tank Farm Area
Chlorobenzene (108-90-7)	*				1	Glycol 1 Tank Farm Area
Chlorodibromomethane (124-48-1)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2971 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)						
Chloroethane (75-00-3)	*				1	Glycol 1 Tank Farm Area
2-Chloroethylvinyl Ether (110-75-8)	*				1	Glycol 1 Tank Farm Area
Chloroform (67-66-3)	*				1	Glycol 1 Tank Farm Area
Dichlorobromomethane (75-27-4)	*				1	Glycol 1 Tank Farm Area
1,1-Dichloroethane (75-34-3)	*				1	Glycol 1 Tank Farm Area
1,2-Dichloroethane (107-06-2)	*				1	Glycol 1 Tank Farm Area
1,1-Dichloroethylene (75-35-4)	*				1	Glycol 1 Tank Farm Area
1,2-Dichloropropane (78-87-5)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2971 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)						
1,3-Dichloropropylene (542-75-6)	*				1	Glycol 1 Tank Farm Area
Ethylbenzene (100-41-4)	*				1	Glycol 1 Tank Farm Area
Methyl Bromide (74-83-9)	*				1	Glycol 1 Tank Farm Area
Methyl Chloride (74-87-3)	*				1	Glycol 1 Tank Farm Area
Methylene Chloride (75-09-2)	*				1	Glycol 1 Tank Farm Area
1,1,2,2-Tetrachloroethane (79-34-5)	*				1	Glycol 1 Tank Farm Area
Tetrachloroethylene (127-18-4)	*				1	Glycol 1 Tank Farm Area
Toluene (108-88-3)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL : Internal Outfall 2971 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)						
1,2-trans-Dichloro-ethylene (156-60-5)	*				1	Glycol 1 Tank Farm Area
1,1,1-Trichloroethane (71-55-6)	*				1	Glycol 1 Tank Farm Area
1,1,2-Trichloroethane (79-00-5)	*				1	Glycol 1 Tank Farm Area
Trichloroethylene (79-01-6)	*				1	Glycol 1 Tank Farm Area
Vinyl Chloride (75-01-4)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2971 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS						
Acenaphthene (83-32-9)	*				1	Glycol 1 Tank Farm Area
Acenaphtylene (208-96-8)	*				1	Glycol 1 Tank Farm Area
Anthracene (120-12-7)	*				1	Glycol 1 Tank Farm Area
Benzidine (92-87-5)	*				1	Glycol 1 Tank Farm Area
Benzo (a) Anthracene (56-55-3)	*				1	Glycol 1 Tank Farm Area
Benzo (a) Pyrene (50-32-8)	*				1	Glycol 1 Tank Farm Area
3,4-Benzofluoranthene (205-99-2)	*				1	Glycol 1 Tank Farm Area
Benzo (ghi) Perylene (191-24-2)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2971 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
Benzo (k) Fluor- anthene (207-08-9)	*				1	Glycol 1 Tank Farm Area
Bis (2-Chloroethoxy) Methane (111-91-1)	*				1	Glycol 1 Tank Farm Area
Bis (2-Chloroethyl) Ether (111-44-4)	*				1	Glycol 1 Tank Farm Area
Bis (2-Chloroisopropyl) Ether (102-60-1)	*				1	Glycol 1 Tank Farm Area
Bis (2-Ethylhexyl) Phthalate (117-81-7)	*				1	Glycol 1 Tank Farm Area
4-Bromophenyl Phenylether (101-55-3)	*				1	Glycol 1 Tank Farm Area
Butyl Benzyl Phthalate (85-68-7)	*				1	Glycol 1 Tank Farm Area
2-Chloronaphthalene (91-58-7)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL : Internal Outfall 2971 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION BASE/NEUTRAL COMPOUNDS (continued)						
4-Chlorophenyl Phenyl Ether (7005-72-3)	*				1	Glycol 1 Tank Farm Area
Chrysene (218-01-9)	*				1	Glycol 1 Tank Farm Area
Dibenzo (a,h) Anthracene (53-70-3)	*				1	Glycol 1 Tank Farm Area
1,2-Dichlorobenzene (95-50-1)	*				1	Glycol 1 Tank Farm Area
1,3-Dichlorobenzene (541-73-1)	*				1	Glycol 1 Tank Farm Area
1,4-Dichlorobenzene (106-46-7)	*				1	Glycol 1 Tank Farm Area
3,3'-Dichlorobenzidine (91-94-1)	*				1	Glycol 1 Tank Farm Area
Diethyl Phthalate (84-66-2)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2971 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (Continued)						
Diethyl Phthalate (131-11-3)	*				1	Glycol 1 Tank Farm Area
Di-N-Butyl Phthalate (84-74-2)	*				1	Glycol 1 Tank Farm Area
2,4-Dinitrotoluene (121-14-2)	*				1	Glycol 1 Tank Farm Area
2,6-Dinitrotoluene (606-20-2)	*				1	Glycol 1 Tank Farm Area
Di-N-Octyl Phthalate (117-84-0)	*				1	Glycol 1 Tank Farm Area
1,2-Diphenylhydrazine as Azobenzene (122-66-7)	*				1	Glycol 1 Tank Farm Area
Fluoranthene (206-44-0)	*				1	Glycol 1 Tank Farm Area
Fluorene (86-73-7)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL : Internal Outfall 2971 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)						
Hexachlorobenzene (118-74-1)	*				1	Glycol 1 Tank Farm Area
Hexachlorobutadiene (87-68-3)	*				1	Glycol 1 Tank Farm Area
Hexachloroethane (67-72-1)	*				1	Glycol 1 Tank Farm Area
Indeno (1,2,3-cd) Pyrene (193-39-5)	*				1	Glycol 1 Tank Farm Area
Isophorone (78-59-1)	*				1	Glycol 1 Tank Farm Area
Naphthalene (91-20-3)	*				1	Glycol 1 Tank Farm Area
Nitrobenzene (98-95-3)	*				1	Glycol 1 Tank Farm Area
N-Nitrosodimethylamine (62-75-9)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2971			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (Continued)						
N-Nitrosodi-N-Propyl-amine (621-64-7)	*				1	Glycol 1 Tank Farm Area
N-Nitrosodiphenyl-amine (86-30-6)	*				1	Glycol 1 Tank Farm Area
Phenanthrene (85-01-8)	*				1	Glycol 1 Tank Farm Area
Pyrene (129-00-0)	*				1	Glycol 1 Tank Farm Area
1,2,4-Trichlorobenzene (120-82-1)	*				1	Glycol 1 Tank Farm Area

g POUNDS
* NOT FOUND AT QUANTITATION LIMITS
* * NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2971 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS - PESTICIDES						
Aldrin (309-00-2)	*				1	Glycol 1 Tank Farm Area
Alpha-BHC (319-84-6)	*				1	Glycol 1 Tank Farm Area
Beta-BHC (319-85-7)	*				1	Glycol 1 Tank Farm Area
Gamma-BHC (58-89-9)	*				1	Glycol 1 Tank Farm Area
Delta-BHC (319-86-8)	*				1	Glycol 1 Tank Farm Area
Chlordane (57-74-9)	*				1	Glycol 1 Tank Farm Area
4,4'-DDT (50-29-3)	*				1	Glycol 1 Tank Farm Area
4,4'-DDE (72-55-9)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2971 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS - PESTICIDES (continued)						
4,4'-DDD (72-54-8)	*				1	Glycol 1 Tank Farm Area
Dieldrin (60-57-1)	*				1	Glycol 1 Tank Farm Area
Alpha-Endosulfan (115-29-7)	*				1	Glycol 1 Tank Farm Area
Beta-Endosulfan (115-29-7)	*				1	Glycol 1 Tank Farm Area
Endosulfan Sulfate (1031-07-8)	*				1	Glycol 1 Tank Farm Area
Endrin (72-20-8)	*				1	Glycol 1 Tank Farm Area
Endrin Aldehyde (7421-93-4)	*				1	Glycol 1 Tank Farm Area
Heptachlor (76-44-8)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL: Internal Outfall 2971 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS - PESTICIDES (continued)						
Heptachlor Epoxide (1024-57-3)	*				1	Glycol 1 Tank Farm Area
PCB-1242 (53469-21-9)	*				1	Glycol 1 Tank Farm Area
PCB-1254 (11097-69-1)	*				1	Glycol 1 Tank Farm Area
PCB-1221 (11104-28-2)	*				1	Glycol 1 Tank Farm Area
PCB-1232 (11141-16-5)	*				1	Glycol 1 Tank Farm Area
PCB-1248 (12672-29-6)	*				1	Glycol 1 Tank Farm Area
PCB-1260 (11096-82-5)	*				1	Glycol 1 Tank Farm Area
PCB-1016 (12674-11-2)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number LA-0003301	STATE PERMIT NUMBER WP1561		OUTFALL : Internal Outfall 2971 (24 hour containment)			PART VII - C
Pollutant and CAS Number (if available)	Maximum Values		Average Values		Number of Storm Events Sampled	Source of Pollutants
	Grab sample First 30 minutes	Flow- weighted Composite	Grab sample First 30 minutes	Flow- weighted Composite		
GC/MS - PESTICIDES (continued)						
Toxaphene (8001-35-2)	*				1	Glycol 1 Tank Farm Area
2,4,5-trichlorophenol (72-43-5)	*				1	Glycol 1 Tank Farm Area

\# POUNDS
* NOT FOUND AT QUANTITATION LIMITS
** NOT BELIEVED TO BE PRESENT

EPA ID Number	STATE PERMIT NUMBER	OUTFALL : Internal Outfall 2971 (24 hour containment)
LA-0003301	WP1561	

Part VII - 8. Provide data for storm events which resulted in maximum values for the flow weighted composite sample.

Date of Storm Event	Duration of Storm (in minutes)	Total rainfall during storm event (in inches)	Number of hours between beginning of storm measured and end of previous measurable rain event	Maximum flow rate during rain event (gallons/minute or specify units)	Total flow from rain event (gallons or specify units)	Season sample was taken	Form of precipitation (rainfall snowmelt)
8/27/91	240	2-12	192	NA	159,897	Summer	Rainfall

9. Provide a description of the method of flow measurement or estimate

Rainfall(ft)x[(impervious area(ft^2)x0.95)+(previous area(ft^2)x0.50)]x7.48 gal/ft^3 = Gal

ALL DATA IN PART B IS BASED ON HISTORICAL GRAB DATA COLLECTED FOR OUR CURRENT NPDES PERMIT. ALL FLOW DATA IS BASED ON A DIFFERENT FLOW ESTIMATE.

THE DOW CHEMICAL COMPANY
LOUISIANA DIVISION
LA0003301/WP1561

METHODS & QUANTITATION LIMITS FORMS 2C/2F ANALYSES

ANALYSIS	QUANTITATION LIMIT (MG/L)	METHOD
CYANIDE	0.01	412 B&D
BOD	1	507
COD	10	508A
BORON	0.1	404A
TOTAL KJELDAHL N2	1	420A, 417D
COLOR (TRUE/APPARENT)	15 APHA	204A
FOAMING AGENTS	0.1	512B
ORGANIC NITROGEN	1	420A, 417A &D
PHENOLS	0.002	510A&B
FECAL COLIFORM	1 COL/100ML	909C
SULFITE (TITRIMETRIC)	2	377.1
ALUMINUM	0.2	202.1
ANTIMONY	0.1	204.1
ARSENIC	0.01	206.2
BARIUM	0.1	208.1
BERYLLIUM	0.005	210.2
CADMIUM	0.01	213.2
CHROMIUM	0.01	218.2
COBALT	0.05	219.1
COPPER	0.005	220.2
IRON	0.03	236.1
LEAD	0.005	239.2
MAGNESIUM	0.01	242.1
MANAGANESE	0.01	243.1
MERCURY	0.0002	245.1
MOLYBDENUM	0.03	246.1
NICKEL	0.05	249.1
SELENIUM	0.01	270.2
SILVER	0.005	272.2
THALLIUM	0.1	279.2
TIN	1	282.1
TITANUIM	0.3	283.1
ZINC	0.01	289.1
TOTAL PHOSPHORUS	0.1	424C&F
NO2/NO3	0.05	418C
BROMIDE	2	320.1
SULFATE (TURBIDIMETRIC)	5	426C
OIL & GREASE	1	413.1
RESIDUAL CHLORINE	0.05	ORION
TOTAL OXYGEN DEMAND	10	ASTM 3250-77
TOTAL SUSPENDED SOLIDS	1	160.2
TOTAL ORGANIC CARBON	2	415.1
VOLATILE ORGANICS	0.01	601, 602, 624
BASE NEUTRALS	0.01	625
ACID PHENOLS	0.01	625

THE DOW CHEMICAL COMPANY
LOUISIANA DIVISION
LA0003301/WP1561

METHODS & QUANTITATION LIMITS FORMS 2C/2F ANALYSES

ANALYSIS	LIMIT (MG/L)	METHOD
PESTICIDES	0.01	625
AMMONIA	0.01	350.3
SULFIDE	0.01	376.1
pH	0-14 SU	150.1
TEMPERATURE	.5°C	170.1
FLUORIDES	0.2	413B

	PCI/L	METHOD
RADIOLOGICALS		
GROSS ALPHA	0.1	703
GROSS BETA	0.10	703
RADIUM (226)	0.10	705
RADIUM (228)	0.10	706
TOTAL RADIUM	0.10	705

For any test value below the quantitation limit, a zero was used for any required calculation.

Please print or type in the unshaded areas only

EPA ID Number (copy from item I of Form 1): LA 0003301/WP 1561

Form Approved. OMB No. 2040-0086
Approval expires 6-31-92

Form 2F NPDES

EPA

United States Environmental Protection Agency
Washington, DC 20460

Application for Permit To Discharge Stormwater Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., SW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

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.

A. Outfall Number (list)	B. Latitude			C. Longitude			D. Receiving Water (name)
491	30	19	30	91	14	15	MISSISSIPPI RIVER
492	30	19	30	91	14	15	MISSISSIPPI RIVER
493	30	19	30	91	14	0	MISSISSIPPI RIVER
582	30	19	30	91	14	15	MISSISSIPPI RIVER
I Internal Outfalls							

II. 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.

1. Identification of Conditions, Agreements, Etc	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	number	source of discharge		a. req.	b. proj.
N/A					

B. You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which receive storm water discharges from the facility.

Continue on Page 2

Continued from the Front

IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
491	2500 FT^2	180,000 FT^2			
492	2500 FT^2	180,000 FT^2			
493	35,800 FT^2	328,000 FT^2			
582	3400 FT^2	240,000 FT^2			

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed, in the last three years, to minimize contact by these materials with storm water runoff; materials loading and access areas; and the location, manner and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

SEE ATTACHMENT A

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
493	The liquid which falls in the diked areas is transported to the Solvents Plant steam stripper. This steam stripper discharges to their NPDES Outfall. See Attachment B about structural and nonstructural controls.	1D

V. Nonstormwater Discharges

A. I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharges from these outfall(s) are identified in either an accompanying Form 2C or Form 2E application for the outfall.

Name and Official Title (type or print)	Signature	Date Signed
J. J. HIEMENZ, PLANT SUPERINTENDENT	J. J. Hiemenz	10/30/91

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

Analysis of site schematics and visual observations during several rain events were done to determine the effluent type discharging through Internal Outfalls 491, 492, 493, and 582.

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

SEE ATTACHMENT C

Continue on Page 3

Continued from Page 2

EPA ID Number *(copy from Item I of Form 1)*
LA 0003301/WP 1561

VII. Discharge Information

A,B,C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided. Tables VII-A, VII-B, and VII-C are included on separate sheets numbered VII-1 and VII-2.

E. Potential discharges not covered by analysis - Is any pollutant listed in Table 2F-2 a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

X Yes *(list all such pollutants below)* ___ No *(go to Section VIII)*

SEE ATTACHMENT D

VIII. Biological Toxicity Testing Data

X Yes *(list results below)* ___ No *(go to Section IX)*

SEE ATTACHMENT E

IX. Contract Analysis Information

X Yes ___ No *(go to Section X)*

A. Name	B. Address	C. Area Code & Phone No	D. Pollutants Analyzed
SEE ATTACHMENT F			

X. Certification

A. Name & Official Title *(type or print)*	B. Area Code and Phone No
L. D. ADCOCK, GENERAL MANAGER	(504) 389-8222
C. Signature	D. Date Signed

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 ensure 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.

L D Adcock

L. D. Adcock, General Manager
504/389-8222

Date 10/30/91

Form 2F

Reference Sheet

REF+88832

08/17/00 12:18 PM

ATTACHMENT A
GROUNDWATER RECOVERY PLANT 2F APPLICATION
NPDES LA0003301/ LWDPS WP 1561
2F IV. B.

SIGNIFICANT MATERIALS TREATED, STORED, AND DISPOSED OF:

FOR BEST MANAGEMENT PRACTICES OF SIGNIFICANT MATERIALS, REFER TO SECTION IV-C ON STRUCTURAL AND NONSTRUCTURAL CONTROLS.

SPILL CLEANUP:

EFFORTS TO MITIGATE AND CLEANUP SPILLS BEGIN IMMEDIATELY AFTER A SPILL IS DISCOVERED. SPILLS ARE REPORTED TO THE APPROPRIATE AUTHORITIES AND EACH REPORTABLE SPILL IS INVESTIGATED BY DOW. PROBABLE CAUSES AND FOLLOW-UP ACTIONS ARE DETERMINED AT THE INVESTIGATION.

BACKROUND:

BETWEEN 1958 AND 1973, THE BLOCK 49 AREA OPERATED AS A NON-SECURE CHEMICAL WASTE LANDFILL FOR THE DOW LOUISIANA DIVISION. THIS AREA IS NOW THE SITE OF THE LOUISIANA DIVISION GROUNDWATER RECOVERY PLANT (BLOCK 49).

THE GROUNDWATER RECOVERY PLANT IS BEING OPERATED UNDER A LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY APPROVED REMEDIATION PLAN. THE OBJECTIVES OF THE 224 WELL HYDRAULIC CONTAINMENT SYSTEM ARE :

1. TO HALT THE VERTICAL AND HORIZONTAL MIGRATION OF FREE PHASE AND DISSOLVED CONTAMINANTS (HYDRAULIC CONTAINMENT).
2. ALLOW FOR PROPER DISPOSAL OF THE CONTAMINANTS.

THE ORGANICS AND CONTAMINATED WATER RECOVERED ARE SENT TO THE SOLVENTS PLANT, ANOTHER PLANT WITHIN THE LOUISIANA DIVISION, FOR TREATMENT.

ATTACHMENT A
GROUNDWATER RECOVERY PLANT 2F APPLICATION
NPDES LA0003301/ LWDPS WP 1561
2F IV. B.

STORAGE OF SIGNIFICANT MATERIAL:

THE TANKS ARE ALL ABOVE GROUND PRESSURE RATED TANKS LOCATED IN AREAS WITH SECONDARY CONTAINMENT. THE LOADING AREAS FOR THE TRAILERS ARE ALSO LOCATED IN THE SECONDARY CONTAINMENT AREAS.

TREATMENT OF SIGNIFICANT MATERIAL:

T-949 OPERATES AS A PHASE SEPARATION TANK TO DIVIDE THE LIQUID RECOVERED INTO A FREE PHASE ORGANIC SECTION AND A CONTAMINATED WATER SECTION. THIS HORIZONTAL TANK IS FIFTY FEET LONG AND HAS A DIAMETER OF NINE FEET. THE AVERAGE DAILY THROUGHPUT IS 9000 GALLONS. THE SEPARATED WASTES ARE SENT TO THE SOLVENTS PLANT WITHIN THE LOUISIANA DIVISION. THE WATER PHASE IS STEAM STRIPPED AT THE SOLVENTS BLOCK AND THE ORGANIC PHASE IS INCINERATED AT SOLVENTS.

THE GROUNDWATER RECOVERY PLANT CONTAINS THE FOLLOWING VESSELS:

VESSEL	MATERIAL STORED	CAPACITY (GALLONS)
T-912	KO16 ORGANICS	1600
T-941	KO16 CONTAMINATED H2O	12,000
T-949	KO16 ORGANICS & CONTAMINATED H2O	25,000
ORGANIC TRAILER	KO16 ORGANICS	700

ATTACHMENT A
GROUNDWATER RECOVERY PLANT 2F APPLICATION
NPDES LA0003301/ LWDPS WP 1561
2F IV. B.

ADDITIONAL VESSELS:

VESSEL	MATERIAL STORED	CAPACITY (GALLONS)
WATER TRAILER #1	KO16 CONTAMINATED H2O	5000
WATER TRAILER #2	KO16 CONTAMINATED H2O	5000
T-970	KO16 ORGANICS & CONTAMINATED H2O	2800
LS-901	KO16 ORGANICS & CONTAMINATED H2O	470
SB-901A	KO16 ORGANICS & CONTAMINATED H2O	470

NOTE: KO16 HAZARDOUS WASTE IS DEFINED AS HEAVY ENDS OR DISTILLATE RESIDUES FROM CARBON TETRACHLORIDE PRODUCTION. THE KO16 ORGANICS RECOVERED AT THE GROUNDWATER RECOVERY PLANT CONTAIN HEXACHLOROBUTADIENE, TETRACHLOROETHYLENE, HEXACHLOROETHANE, 1,2-DICHLOROETHANE, 1,1,2-TRICHLOROETHANE, AND OTHER CHLORINATED ORGANIC COMPOUNDS. THE CONTAMINATED WATER IS GROUNDWATER WHICH HAS COME INTO CONTACT WITH THESE ORGANICS.

RMK 10/08/91

ATTACHMENT B
GROUNDWATER RECOVERY PLANT 2F APPLICATION
NPDES LA0003301/ LWDPS WP 1561
2F IV. C.

STRUCTURAL CONTROLS:

ALL VESSELS ARE WITHIN DIKED AREAS. ALL LIQUID THAT FALLS IN THE SECONDARY CONTAINMENT AREAS, WHERE THE VESSELS ARE LOCATED AND THE LOADING TAKES PLACE, IS SENT ALONG WITH THE CONTAMINATED GROUNDWATER TO THE SOLVENTS PLANT FOR TREATMENT. THE LOADING AREA HAS A ROOF AS WELL AS DIKING.

EACH OF THE 224 RECOVERY WELLS HAS A 3' X 4' CONTAINMENT BOX AT GROUND LEVEL TO COLLECT ANY LEAKAGE FROM THE WELL HEAD AND THE WELL BOX VALVES AND FLANGES. THESE CONTAINMENT BOXES ALSO HAVE LIDS. THE LIQUID FOUND IN THESE BOXES IS COLLECTED AND SENT TO THE SOLVENTS PLANT FOR TREATMENT. THE USE OF FLANGES ON PIPING IN AREAS WITHOUT CONTAINMENT IS MINIMIZED.

NONSTRUCTURAL CONTROLS

THE GROUNDWATER RECOVERY PLANT IS LOCATED WITHIN THE DOW PLAQUEMINE SITE. THE ENTIRE DOW SITE IS RESTRICTED AND GUARDED 24 HOURS PER DAY BY PLANT SECURITY.

THE GROUNDWATER RECOVERY PLANT HAS A SPILL PREVENTION AND CONTROL PLAN (SPC) AND A SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN (SPCC). IT IS UPDATED AT LEAST EVERY THREE YEARS.

PLANT PERSONNEL MAKE PERIODIC ROUNDS IN ALL OPERATING AREAS. EMPLOYEES ARE TRAINED IN SPILL RESPONSE, SAFETY, AND ENVIRONMENTAL COMPLIANCE. NEW PERSONNEL ARE TRAINED ON SPECIFIC JOB PROCEDURES PRIOR TO PERFORMING A JOB. HOUSEKEEPING IS A PART OF EACH JOB AND HOUSEKEEPING INSPECTIONS OF THE BLOCK 49 AREA ARE CONDUCTED ON A REGULAR BASIS.

ATTACHMENT B
GROUNDWATER RECOVERY PLANT 2F APPLICATION
NPDES LA0003301/ LWDPS WP 1561
2F IV. C.

SAFETY/ENVIRONMENTAL MEETINGS ARE ATTENDED BY ALL EMPLOYEES MONTHLY. INFORMAL SAFETY MEETINGS ARE CONDUCTED SEVERAL TIMES PER WEEK. ENVIRONMENTAL PERFORMANCE IS TRACKED AND COMMUNICATED TO EMPLOYEES, AS ARE ENVIRONMENTAL GOALS. A FORMAL PROGRAM HAS BEEN DEVELOPED FOR ENCOURAGING SUGGESTIONS FOR ENVIRONMENTAL IMPROVEMENTS.

FUTURE PROJECTS:

A CONTRACT HAS BEEN AWARDED TO BUILD A ROOF OVER THE PROCESS AREA. THIS ROOF WILL COVER APPROXIMATELY 80% OF THIS DIKED AREA.

A BENTONITE LINER IS PRESENTLY BEING DESIGNED TO COVER THE WELLFIELD. FILL MATERIAL (TOPSOIL OR CLAY) WILL BE ADDED ON TOP OF THE LINER. THE LINER WILL REDUCE THE POTENTIAL OF CONTAMINANTS LEACHING FROM THE GROUND INTO THE STORMWATER RUNOFF.

RMK 10/17/91

ATTACHMENT C
GROUNDWATER RECOVERY PLANT
2F APPLICATION
NPDES LA 0003301/LWDPS WP 1561
FORM 2F, ITEM VI

SIGNIFICANT LEAKS OR SPILLS

The material involved in the spills at Block 49 is recovered organics and contaminated water. Spills rarely have the potential to enter the Division Outfall. The soil contaminated by the spill is excavated and incinerated.

Date Of Spill	Location of Spill	Spill Quantity (Gallons)	Cause	Corrective Action
1989				
5/19	Near Well S-23	2	Seal Leak underground	Pressure check wells once/month, new wells installed with improved seals.
6/27	Corner of Mayflower & Flare Stack Roads	Not Recorded	Polyethylene Pipe leaked at weld	Began squeeze testing P.E. Welds
8/17	Near Degassifiers	Not Recorded	Carbon Steel Corrosion at Transition Piece	Replaced section of Pipe with schedule 80 pipe.
1990				
2/14	Group 10	2	Leak at P. E. Weld	Replaced Weld
3/12	Well S-140	360	Wellhead Leak due to Improper Installation	Trained Employees on installation of well heads.
4/23	Return Line from Well D-25	3	P.E. Weld Leak	Installed new Weld & Squeeze Tested it.
5/1	Near Well D-47	25	Seal Leak Underground	Reinstalled Well Internals & Pressure Checked.
6/10	Between Wells D-29 & S-53	1	P.E. Weld Leak	Replaced Section of Pipe.

ATTACHMENT C
GROUNDWATER RECOVERY PLANT
2 F APPLICATION
NPDES LA 0003301/LWDPS WP 1561
FORM 2F, ITEM VI

SIGNIFICANT LEAKS OR SPILLS (CONTINUED)

7/23	Feed Line near S-51	10	P.E. Weld Leak	Replaced Weld & Squeeze Tested.
9/27	Near Well S-30	2	Carbon Steel Corrosion at Weld	Repaired Weld
11/4	Wells S-28 & S-33	10	P.E. Welds Leak	Repaired Welds and Conducted Random Tests of other Welds.
11/21	Well S-33	10	Bleed Valve in Well Box Left opened	Stressed Red Tagging Guidelines, Established New Procedure, Communicated Incident to Employees.
12/4	Group 5 Feed Line Near S-33	2	P.E. Weld Leak	Repaired Weld.
12/5	Well S-130	5	Contract Employee Opened Valve	Communicated importance of not deviating from the Safety Standards.
12/28	Inlet to Well S-43	105	Carbon Steel Corrosion at Transition Piece	Replaced with P.E. Pipe.
1991				
4/22	Near Well S-4A	2	Seal Leak Underground	Reinstalled Well Internals, Reviewed Maintenance & Start-up Programs.
5/6	Inlet to Well D-23	3	Carbon Steel Corrosion in Transition Piece	Replaced this Section with P.E. Pipe.
5/29	Well D-13A	40	Well Head Gasket Leak	Well Head Repaired & Pressure Tested Prior to Putting it into Service.

ATTACHMENT C
GROUNDWATER RECOVERY PLANT
2 F APPLICATION
NPDES LA 0003301/LWDPS WP 1561
FORM 2F, ITEM VI

SIGNIFICANT LEAKS OR SPILLS (CONTINUED)

6/17	South of Wells S-66 & S-67	16	P.E.Pipe Weld Leak	Repaired the Weld & Installed a Fusion Coupling.
6/27	Well S-15A	60	P.E.Pipe Broke at Weld when hit by Lawn Mower	New Weld Reinforced with Fusion Coupling.
6/30	Well D-22 Outlet	2	P.E.Weld Leak	New Weld with Fusion Coupling.
8/1	Well D-34 Inlet	4	Carbon Steel Corrosion at Weld	Replaced with P.E. pipe & Fusion Coupling.
8/15	Well D-12A	6	P.E. Pipe Weld Leak	New Weld & installed Fusion Couplings.
8/29	Between Wells S-60 & S-61	31	P.E. Pipe Weld Leak	New Weld & installed Fusion Couplings.
9/24	Well S-147	78	Well Head Gasket Leak due to Improper Installation	Piping Stress to be Relieved on well heads during routine Maintenance, well casing pipes to be marked Externally to indicate proper positioning of well Head Gaskets.
10/2	Well S-64	9	P.E. Pipe Weld Leak	New Weld & Installed Fusion Coupling
10/13	Near Well S-34	7	P.E. Pipe Cracked	New section of pipe installed with Fusion Couplings.

ATTACHMENT D
GROUNDWATER RECOVERY PLANT
NPDES LA0003301/ LWDPS WP 1561
2F VII. C.

LIST OF CHEMICALS WHICH MAY DISCHARGE:

THIS LIST APPLIES TO THE INTERNAL OUTFALLS 491, 492, 493, AND 582. THESE CHEMICALS MAY BE PRESENT IN THE GROUNDWATER DUE TO THE SITES PREVIOUS USE AS A NON-SECURE LANDFILL.

FROM TABLE 2F-2

OIL AND GREASE
ALUMINUM
BARIUM
IRON
MAGNESIUM
MANGANESE

FROM TABLE 2F-3

MERCURY
ZINC
1,2-DICHLOROETHANE
1,2-DICHLOROPROPANE
1,1,2,2-TETRACHLOROETHANE
TETRACHLOROETHYLENE
1,1,2-TRICHLOROETHYLENE
HEXACHLOROBENZENE
HEXACHLOROBUTADIENE
HEXACHLOROETHANE
CARBON TETRACHLORIDE
VINYL CHLORIDE
BENZENE
CHLOROFORM
METHYLENE CHLORIDE
NAPTHALENE

RMK 10/17/91

ATTACHMENT E
GROUNDWATER RECOVERY PLANT 2F APPLICATION
NPDES LA0003301/ LWDPS WP 1561
2F VIII.

BIOLOGICAL TOXICITY TESTING DATA:

NO BIOLOGICAL TOXICITY TESTING HAS BEEN DONE ON INTERNAL OUTFALLS 491, 492, 493, & 582.

QUARTERLY ACUTE BIOMONITORING WAS DONE FOR A TWO YEAR PERIOD ON FINAL OUTFALL 001 IN ACCORDANCE WITH PART III.6 OF OUR NPDES PERMIT NO. LA 0003301 AND PART III.10 OF STATE PERMIT WP 1561. THE RECEIVING STREAM FOR FINAL OUTFALL 001 IS THE MISSISSIPPI RIVER. ORGANISM USED FOR THE TESTING WAS DAPHNIA SP. RESULTS OF THE ACUTE BIOMONITORING WERE REPORTED ON A QUARTERLY BASIS FROM 1987 UNTIL EARLY 1989.

CHRONIC TESTING WAS DONE ON OUTFALL 001 IN JANUARY AND FEBRUARY 1990. THE RECEIVING STREAM FOR FINAL OUTFALL 001 IS THE MISSISSIPPI RIVER. ORGANISMS USED WERE CERIODAPHNIS DUBIA AND PIMEPHALES PROMELAS. RESULTS HAVE BEEN REPORTED TO THE STATE.

RMK 10/01/91

ATTACHMENT F
GROUNDWATER RECOVERY PLANT
NPDES LA0003301/ LWDPS WP 1561
2F IX.

CONTRACT ANALYSIS INFORMATION

A,B,C. NAME, ADDRESS, TELEPHONE
West Paine Laboratories, Inc. 7979 GSRI Avenue, Baton Rouge, La. 78020
(504) 769-4900

D. POLLUTANTS ANALYZED
BOD, COD, total phenols, total cyanide, sulfates, sulfite, total phosphorous, total kjedahl nitrogen, fecal coliform, fluoride, total organic nitrogen as N, surfactants, total radium, total radium 226, total aluminum, total barium, total boron, total cobalt, total iron, total magnesium, total molybdenum, total manganese, total tin, total titanium, total antimony, total arsenic, total beryllium, total chromium, total jcopper, total lead, total mercury, total nickel, total selenium, total silver, total thallium, total zinc, color.

A,B,C. NAME, ADDRESS, TELEPHONE
No longer in existance.
Gulf Engineering and Consultants, 535 Main Street, Baton Rouge, La. 70802

D. POLLUTANTS ANALYZED
Acute biomonitoring

A,B,C. NAME, ADDRESS, TELEPHONE
Analytical and Environmental Testing, 1717 Seaboard Drive, Suite 101, Baton Rouge, La. 70810 (504) 769-1930.

D. POLLUTANTS ANALYZED
Chronic biomonitoring

RMK 10/07/91

OUTFALL: INTERNAL OUTFALL 491

EPA ID Number (copy from item 1 of Form 1): LA0003301/WP1561

Form Approved OMB No. 2040-0086
Approval expires 5-31-92

VII. Discharge Information (Continued from page 3 of Form 2F)

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.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Oil and Grease	INTERNAL	OUTFALL 491 is a newly defined outfall at the Groundwater				
Biological Oxygen Demand (BOD5)	Recovery Plant (blk. 49). Representative sampling during storm events has					
Chemical Oxygen Demand (COD)	not yet been completed. Results of sampling will be sent by first quarter					
Total Suspended Solids (TSS)	1992 as previously communicated (Cole, Dow to Knudson, EPA 8/29/91). All					
Total Kjeldahl Nitrogen	unanswered portions of this form are not applicable.					
Nitrate plus Nitrite Nitrogen						
Total Phosphorus						
[illegible]	Maximum	Maximum	Maximum	Maximum		

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Continued from the Front

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample

1. Date of Storm Event	2. Duration of Storm *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*	7. Season sample was taken	8. Form of Precipitation *(rainfall, snowmelt)*

9. Provide a description of the method of flow measurement or estimate.

OUTFALL: INTERNAL OUTFALL 492

EPA ID Number (copy from item 1 of Form 1)
LA0003301/WP1561

Form Approved OMB No. 2040-0086
Approval expires 5-31-92

VII. Discharge Information (Continued from page 3 of Form 2F)

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.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Oil and Grease	Internal Outfall 492 is a newly defined outfall at Block 49. Representative					
Biological Oxygen Demand (BOD5)	sampling during storm events has not yet been completed. Results of sampling					
Chemical Oxygen Demand (COD)	will be sent by first quarter 1992 as previously communicated (Cole, Dow to					
Total Suspended Solids (TSS)	Knudson, EPA, 8/29/91). All unanswered portions of this form are not					
Total Kjeldahl Nitrogen	applicable.					
Nitrate plus Nitrite Nitrogen						
Total Phosphorus						
[illegible]	Minimum	Maximum	Minimum	Maximum		

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Continued from the Front

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample

1. Date of Storm Event	2. Duration of Storm (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units	6. Total flow from rain event (gallons or specify units)	7. Season sample was taken	8. Form of Precipitation (rainfall, snowmelt)

9 Provide a description of the method of flow measurement or estimate.

OUTFALL: INTERNAL OUTFALL 493

EPA ID Number (copy from item I of Form 1)
LA0003301/WP1561

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

VII. Discharge Information (Continued from page 3 of Form 2F)

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.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Oil and Grease	Internal Outfall 493 is a newly defined outfall at Block 49. Representative					
Biological Oxygen Demand (BOD5)	sampling during storm events has not yet been completed. Results of sampling					
Chemical Oxygen Demand (COD)	will be sent by first quarter 1992 as previously communicated (Cole, Dow, to					
Total Suspended Solids (TSS)	Knudson, EPA 8/29/91). All unanswered portions of this form are not applicabl					
Total Kjeldahl Nitrogen						
Nitrate plus Nitrite Nitrogen						
Total Phosphorus						
Flow	Maximum	Maximum	Maximum	Maximum		

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Continued from the Front

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample

1. Date of Storm Event	2. Duration of Storm (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)	7. Season sample was taken	8. Form of Precipitation (rainfall snowfall)

9. Provide a description of the method of flow measurement or estimate.