

WORKSHEET 2.0 POLLUTANT ANALYSES REQUIREMENTS

Worksheet 2.0 **is required** for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

i. LABORATORY ACCREDITATION (Instructions, Page 49)

Effective July 1, 2008, all laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification* with the following general exemptions:

- a. The laboratory is an in-house laboratory and is:
 - o periodically inspected by the TCEQ; or
1. located in another state and is accredited or inspected by that state; or
 - i. performing work for another company with a unit located in the same site; or
 - ii. performing pro bono work for a governmental agency or charitable organization.
1. The laboratory is accredited under federal law.
2. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
3. The laboratory supplies data for which the TCEQ does not offer accreditation.

Review *30 TAC Chapter 25* for specific requirements. The following certification statement shall be signed and submitted with every application. See Instructions, Page 32, for a list of approved signatories.

I, (see certification on pg. 1 of Worksheet 2 for Outfall 001), certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*.

(Signature)

1. GENERAL TESTING REQUIREMENTS (Instructions, Pages 49-51)

1. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 10/04/2020 – 7/8/21
2. Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
3. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment: T-3 Laboratories for Outfall Analyses**

4. SPECIFIC TESTING REQUIREMENTS (Instructions, Pages 51-62)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. **Attachment:** N/A

TABLE 1 and TABLE 2 (Instructions, Page 50)

Completion of Tables 1 and 2 **is required** for all external outfalls for all TPDES permit applications.

Table 1 for Outfall No.: 002

Samples are (check one): Composite Grab

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	3	3	3	<2
CBOD (5-day)	<2	2	6	<2
Chemical oxygen demand	27	25	21	34
Total organic carbon	35	9	4	11
Dissolved oxygen	10.28	5.98	9.01	13.67
Ammonia nitrogen	<0.25	<0.25	<0.25	<0.25
Total suspended solids	10	8	181	15
Nitrate nitrogen	<0.5	<0.5	<0.5	0.82
Total organic nitrogen	7.59	1.15	1.41	0.782
Total phosphorus	0.28	0.17	0.31	0.25
Oil and grease	5	5	5	5
Total residual chlorine	0.03	0.02	0.03	0.05
Total dissolved solids	529	341	196	594
Sulfate	104	79.7	54	160
Chloride	94.9	63.3	16.5	<5
Fluoride	<0.5	<0.5	<0.5	<0.5
Total alkalinity (mg/L as CaCO ₃)	131	124	126	124
Temperature (°F)	78.6	66.9	63.2	70.4
pH (standard units)	8.82	7.81	7.87	8.67

Table 2 for Outfall No.: 002

Samples are (check one): Composites Grabs

Pollutant	Sample 1 (µg/L)		Sample 2 (µg/L)		Sample 3 (µg/L)		Sample 4 (µg/L)		MAL (µg/L)
	total	dissolved	total	dissolved	total	dissolved	total	dissolved	
Aluminum, total	169	-	236	-	4510	-	460	-	2.5
Aluminum (additional samples 5-8)	3990	341	334	85.1	5890	275	3560	292	2.5
Antimony, total	2.1		2.3		1.6		3.4		5
Arsenic, total	6.3		4.8		4.9		5.2		0.5
Barium, total	115		111		65.8		131		3
Beryllium, total	<0.4		<0.4		2.5		<0.4		0.5
Cadmium, total	<0.4		<0.4		<0.4		<0.4		1
Chromium, total	0.8		0.9		8		1.4		3

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Chromium, hexavalent	<3.4	<3.4	<10	<3.4	3
Chromium, trivalent	0.8	0.9	8	1.4	N/A
Copper, total	8.3	8.5	12.3	12.6	2
Cyanide, available	<1.49 [CN-avail] <0.785 [CN-free]	<1.49 [CN-avail] <0.785 [CN-free]	<1.49 [CN-avail] <0.785 [CN-free]	<1.49 [CN-avail]	2/10
Lead, total	0.6	0.5	5.5	1.6	0.5
Mercury, total	0.0039	0.00312	0.00998	0.00476	0.005/0.0005
Nickel, total	4.6	2.2	7.9	3.9	2
Selenium, total	<3.2	<3.2	<3.2	<3.2	5
Silver, total	<0.4	<0.4	<0.4	<0.4	0.5
Thallium, total	<0.4	<0.4	<0.4	<0.4	0.5
Zinc, total	20.5	30.4	252	122	5.0

TABLE 3 (Instructions, Page 50)

Completion of Table 3 is required for all **external outfalls** which discharge process wastewater.

Partial completion of Table 3 is required for all **external outfalls** which discharge non-process wastewater and stormwater associated with industrial activities commingled with other wastestreams (see instructions for additional guidance).

Table 3 for Outfall No.: 002

Samples are (check one): Composites Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile	<3	-	-	-	50
Anthracene	<0.39	-	-	-	10
Benzene	<1	-	-	-	10
Benzidine	<0.74	-	-	-	50
Benzo(a)anthracene	<0.43	-	-	-	5
Benzo(a)pyrene	<0.95	-	-	-	5
Bis(2-chloroethyl)ether	<0.81	-	-	-	10
Bis(2-ethylhexyl)phthalate	<2.46	-	-	-	10
Bromodichloromethane [Dichlorobromomethane]	<1	-	-	-	10
Bromoform	<1	-	-	-	10
Carbon tetrachloride	<1	-	-	-	2
Chlorobenzene	<1	-	-	-	10
Chlorodibromomethane [Dibromochloromethane]	<1	-	-	-	10
Chloroform	<1	-	-	-	10
Chrysene	<0.64	-	-	-	5

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
m-Cresol [3-Methylphenol]	<4.48 [†]	-	-	-	10
o-Cresol [2-Methylphenol]	<2.24	-	-	-	10
p-Cresol [4-Methylphenol]	<1.48 [†]	-	-	-	10
1,2-Dibromoethane	<1	-	-	-	10
m-Dichlorobenzene [1,3-Dichlorobenzene]	<0.59	-	-	-	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<0.46	-	-	-	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<0.28	-	-	-	10
3,3'-Dichlorobenzidine	<0.99	-	-	-	5
1,2-Dichloroethane	<1	-	-	-	10
1,1-Dichloroethene [1,1-Dichloroethylene]	<1	-	-	-	10
Dichloromethane [Methylene chloride]	<1	-	-	-	20
1,2-Dichloropropane	<1	-	-	-	10
1,3-Dichloropropene [1,3-Dichloropropylene]	<1	-	-	-	10
2,4-Dimethylphenol	<0.59	-	-	-	10
Di-n-Butyl phthalate	<1.37	-	-	-	10
Ethylbenzene	<1	-	-	-	10
Fluoride	<500	<500	<500	<500	500
Hexachlorobenzene	<0.77	-	-	-	5
Hexachlorobutadiene	<0.46	-	-	-	10
Hexachlorocyclopentadiene	<1.55	-	-	-	10
Hexachloroethane	<0.53	-	-	-	20
Methyl ethyl ketone	<1	-	-	-	50
Nitrobenzene	<1.02	-	-	-	10
N-Nitrosodiethylamine	<5.6	-	-	-	20
N-Nitroso-di-n-butylamine	<5.6	-	-	-	20
Nonylphenol	<1.28	-	-	-	333
Pentachlorobenzene	<3.36	-	-	-	20
Pentachlorophenol	<0.56	-	-	-	5
Phenanthrene	<0.49	-	-	-	10
Polychlorinated biphenyls (PCBs) (**)	<0.02	-	-	-	0.2
Pyridine	<0.39	-	-	-	20
1,2,4,5-Tetrachlorobenzene	<5.6	-	-	-	20
1,1,1,2-Tetrachloroethane	<1	-	-	-	10
Tetrachloroethene [Tetrachloroethylene]	<1	-	-	-	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Toluene	<1	-	-	-	10
1,1,1-Trichloroethane	<1	-	-	-	10
1,1,2-Trichloroethane	<1	-	-	-	10
Trichloroethene [Trichloroethylene]	<1	-	-	-	10
2,4,5-Trichlorophenol	<0.95	-	-	-	50
TTHM (Total trihalomethanes)	<2	-	-	-	10
Vinyl chloride	<1	-	-	-	10
†Semivolatiles were analyzed by EPA Method 625.1. TCEQ does not offer accreditation for m-cresol by 625.1. Laboratory reported m+p-cresol as co-eluted. Laboratory's accreditation certificate does not include p-cresol by 625.1.					

(*) Indicate units if different from µg/L.

(**) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

TABLE 4 (Instructions, Pages 50-51)

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

a. Tributyltin

Is this facility an industrial/commercial facility which currently or proposes to directly dispose of wastewater from the types of operations listed below or a domestic facility which currently or proposes to receive wastewater from the types of industrial/commercial operations listed below?

- Yes No

If **yes**, check the box next to each of the following criteria which apply and provide the appropriate testing results in Table 4 below (check all that apply).

- Manufacturers and formulators of tributyltin or related compounds.
- Painting of ships, boats and marine structures.
- Ship and boat building and repairing.
- Ship and boat cleaning, salvage, wrecking and scaling.
- Operation and maintenance of marine cargo handling facilities and marinas.
- Facilities engaged in wood preserving.
- Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. Enterococci (discharge to saltwater)

iii. This facility discharges/proposes to discharge directly into saltwater receiving waters **and** Enterococci bacteria are expected to be present in the discharge based on facility processes.

- Yes No

1. Domestic wastewater is/will be discharged.

- Yes No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

c. E. coli (discharge to freshwater)

ii. This facility discharges/proposes to discharge directly into freshwater receiving waters **and** *E. coli* bacteria are expected to be present in the discharge based on facility processes.

- Yes No

1. Domestic wastewater is/will be discharged.

- Yes No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

Table 4 for Outfall No.: N/A

Samples are (check one): Composites Grabs

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Tributyltin (µg/L)					0.010

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Enterococci (cfu or MPN/100 mL)					N/A
<i>E. coli</i> (cfu or MPN/100 mL)					N/A

TABLE 5 (Instructions, Page 51)

Completion of Table 5 **is required** for all **external outfalls** which discharge process wastewater from a facility which manufactures or formulates pesticides or herbicides or other wastewaters which may contain pesticides or herbicides.

If this facility does not/will not manufacture or formulate pesticides or herbicides and does not/will not discharge other wastewaters which may contain pesticides or herbicides, check N/A.

N/A

Table 5 for Outfall No.: N/A

Samples are (check one): Composites Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenprothrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (<i>alpha</i>)					0.01
Endosulfan II (<i>beta</i>)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (<i>alpha</i>)					0.05
Hexachlorocyclohexane (<i>beta</i>)					0.05
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]					0.05
Hexachlorophene					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 52)

Completion of Table 6 **is required** for all **external outfalls**.

Table 6 for Outfall No.: **002**

Samples are (check one): Composites Grabs

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<0.5	-	-	-	400
Color (PCU)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10	-	-	-	—
Nitrate-Nitrite (as N)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<0.5	-	-	-	—
Sulfide (as S)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<0.05	-	-	-	—
Sulfite (as SO ₃)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<1	<1	<1	2	—
Surfactants	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.0357	-	-	-	—
Boron, total	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.183	-	-	-	20
Cobalt, total	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.0007	-	-	-	0.3
Iron, total	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.296	-	-	-	7
Magnesium, total	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6.54	-	-	-	20
Manganese, total	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.0235	-	-	-	0.5
Molybdenum, total	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.0152	-	-	-	1
Tin, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<0.004	-	-	-	5
Titanium, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<0.0044	-	-	-	30

* Indicate units if different from µg/L.

TABLE 7 (Instructions, Page 52)

Check the box next to any of the industrial categories applicable to this facility. If no categories are applicable, check N/A. If GC/MS testing is required, check the box provided to confirm the testing results for the appropriate parameters are provided with the application.

N/A

Table 7 for Applicable Industrial Categories

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/Neutrals Table 10	Pesticides Table 11
<input type="checkbox"/> Adhesives and Sealants		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Aluminum Forming	467	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Auto and Other Laundries		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Battery Manufacturing	461	<input type="checkbox"/> Yes	No	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Coal Mining	434	No	No	No	No
<input type="checkbox"/> Coil Coating	465	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Copper Forming	468	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Electric and Electronic Components	469	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Electroplating	413	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Explosives Manufacturing	457	No	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Foundries		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Gum and Wood Chemicals - Subparts A,B,C,E	454	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No	No
<input type="checkbox"/> Gum and Wood Chemicals - Subparts D,F	454	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Inorganic Chemicals Manufacturing	415	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Iron and Steel Manufacturing	420	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Leather Tanning and Finishing	425	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Mechanical Products Manufacturing		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Nonferrous Metals Manufacturing	421,471	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Ore Mining - Subpart B	440	No	<input type="checkbox"/> Yes	No	No
<input type="checkbox"/> Organic Chemicals Manufacturing	414	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Paint and Ink Formulation	446,447	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Pesticides	455	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Petroleum Refining	419	<input type="checkbox"/> Yes	No	No	No
<input type="checkbox"/> Pharmaceutical Preparations	439	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Photographic Equipment and Supplies	459	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Plastic and Synthetic Materials Manufacturing	414	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Plastic Processing	463	<input type="checkbox"/> Yes	No	No	No
<input type="checkbox"/> Porcelain Enameling	466	No	No	No	No
<input type="checkbox"/> Printing and Publishing		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Pulp and Paperboard Mills - Subpart C	430	<input type="checkbox"/> *	<input type="checkbox"/> Yes	<input type="checkbox"/> *	<input type="checkbox"/> Yes
<input type="checkbox"/> Pulp and Paperboard Mills - Subparts F, K	430	<input type="checkbox"/> *	<input type="checkbox"/> Yes	<input type="checkbox"/> *	<input type="checkbox"/> *
<input type="checkbox"/> Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> *	<input type="checkbox"/> *
<input type="checkbox"/> Pulp and Paperboard Mills - Subparts I, J, L	430	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> *	<input type="checkbox"/> Yes
<input type="checkbox"/> Pulp and Paperboard Mills - Subpart E	430	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> *
<input type="checkbox"/> Rubber Processing	428	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Soap and Detergent Manufacturing	417	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Steam Electric Power Plants	423	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No	No

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/Neutrals Table 10	Pesticides Table 11
<input type="checkbox"/> Textile Mills (Not Subpart C)	410	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Timber Products Processing	429	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes

* Test if believed present.

TABLES 8, 9, 10, and 11 (Instructions, Page 52)

Completion of Tables 8, 9, 10, and 11 **is required** as specified in Table 7 for all **external outfalls** that contain process wastewater.

Completion of Tables 8, 9, 10, and 11 **may be required** for types of industry not specified in Table 7 for specific parameters that are believed to be present in the wastewater.

Table 8 for Outfall No.: 002 : Volatile Compounds

Samples are (check one): Composites Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein	<6	-	-	-	50
Acrylonitrile	<3	-	-	-	50
Benzene	<1	-	-	-	10
Bromoform	<1	-	-	-	10
Carbon tetrachloride	<1	-	-	-	2
Chlorobenzene	<1	-	-	-	10
Chlorodibromomethane	<1	-	-	-	10
Chloroethane	<1	-	-	-	50
2-Chloroethylvinyl ether	<6	-	-	-	10
Chloroform	<1	-	-	-	10
Dichlorobromomethane [Bromodichloromethane]	<1	-	-	-	10
1,1-Dichloroethane	<1	-	-	-	10
1,2-Dichloroethane	<1	-	-	-	10
1,1-Dichloroethylene [1,1-Dichloroethene]	<1	-	-	-	10
1,2-Dichloropropane	<1	-	-	-	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<1	-	-	-	10
Ethylbenzene	<1	-	-	-	10
Methyl bromide [Bromomethane]	<2	-	-	-	50
Methyl chloride [Chloromethane]	<1	-	-	-	50
Methylene chloride [Dichloromethane]	<1	-	-	-	20
1,1,2,2-Tetrachloroethane	<1	-	-	-	10
Tetrachloroethylene [Tetrachloroethene]	<1	-	-	-	10
Toluene	<1	-	-	-	10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]	<1	-	-	-	10
1,1,1-Trichloroethane	<1	-	-	-	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
1,1,2-Trichloroethane	<1	-	-	-	10
Trichloroethylene [Trichloroethene]	<1	-	-	-	10
Vinyl chloride	<1	-	-	-	10

* Indicate units if different from µg/L.

Table 9 for Outfall No.: 002 : Acid Compounds

Samples are (check one): Composites Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol	<0.56	-	-	-	10
2,4-Dichlorophenol	<0.77	-	-	-	10
2,4-Dimethylphenol	<0.59	-	-	-	10
4,6-Dinitro-o-cresol	<0.74	-	-	-	50
2,4-Dinitrophenol	<1.58	-	-	-	50
2-Nitrophenol	<0.99	-	-	-	20
4-Nitrophenol	<1.27	-	-	-	50
p-Chloro-m-cresol	<0.59	-	-	-	10
Pentachlorophenol	<0.56	-	-	-	5
Phenol	<0.49	-	-	-	10
2,4,6-Trichlorophenol	<0.88	-	-	-	10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: 002 : Base/Neutral Compounds

Samples are (check one): Composites Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene	<0.31	-	-	-	10
Acenaphthylene	<0.53	-	-	-	10
Anthracene	<0.39	-	-	-	10
Benzidine	<0.74	-	-	-	50
Benzo(a)anthracene	<0.43	-	-	-	5
Benzo(a)pyrene	<0.95	-	-	-	5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]	<0.64	-	-	-	10
Benzo(ghi)perylene	<0.71	-	-	-	20
Benzo(k)fluoranthene	<0.64	-	-	-	5
Bis(2-chloroethoxy)methane	<0.39	-	-	-	10
Bis(2-chloroethyl)ether	<0.81	-	-	-	10
Bis(2-chloroisopropyl)ether	<0.95	-	-	-	10
Bis(2-ethylhexyl)phthalate	<2.46	-	-	-	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
4-Bromophenyl phenyl ether	<0.46	-	-	-	10
Butylbenzyl phthalate	<0.77	-	-	-	10
2-Chloronaphthalene	<0.31	-	-	-	10
4-Chlorophenyl phenyl ether	<0.74	-	-	-	10
Chrysene	<0.64	-	-	-	5
Dibenzo(a,h)anthracene	<0.77	-	-	-	5
1,2-Dichlorobenzene [o-Dichlorobenzene]	<0.46	-	-	-	10
1,3-Dichlorobenzene [m-Dichlorobenzene]	<0.59	-	-	-	10
1,4-Dichlorobenzene [p-Dichlorobenzene]	<0.28	-	-	-	10
3,3'-Dichlorobenzidine	<0.99	-	-	-	5
Diethyl phthalate	<0.71	-	-	-	10
Dimethyl phthalate	<0.81	-	-	-	10
Di-n-butyl phthalate	<1.37	-	-	-	10
2,4-Dinitrotoluene	<1.58	-	-	-	10
2,6-Dinitrotoluene	<1.37	-	-	-	10
Di-n-octyl phthalate	<3.09	-	-	-	10
1,2-Diphenylhydrazine (as Azobenzene)	<0.25	-	-	-	20
Fluoranthene	<0.49	-	-	-	10
Fluorene	<0.53	-	-	-	10
Hexachlorobenzene	<0.77	-	-	-	5
Hexachlorobutadiene	<0.46	-	-	-	10
Hexachlorocyclopentadiene	<1.55	-	-	-	10
Hexachloroethane	<0.53	-	-	-	20
Indeno(1,2,3-cd)pyrene	<0.25	-	-	-	5
Isophorone	<0.31	-	-	-	10
Naphthalene	<0.35	-	-	-	10
Nitrobenzene	<1.02	-	-	-	10
N-Nitrosodimethylamine	<0.88	-	-	-	50
N-Nitrosodi-n-propylamine	<0.81	-	-	-	20
N-Nitrosodiphenylamine	<0.53	-	-	-	20
Phenanthrene	<0.49	-	-	-	10
Pyrene	<0.64	-	-	-	10
1,2,4-Trichlorobenzene	<0.59	-	-	-	10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: 002 : PesticidesSamples are (check one): Composites Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Aldrin	<0.003	-	-	-	0.01
alpha-BHC [alpha-Hexachlorocyclohexane]	<0.008	-	-	-	0.05
beta-BHC [beta-Hexachlorocyclohexane]	<0.01	-	-	-	0.05
gamma-BHC [gamma-Hexachlorocyclohexane]	<0.005	-	-	-	0.05
delta-BHC [delta-Hexachlorocyclohexane]	<0.004	-	-	-	0.05
Chlordane	<0.1	-	-	-	0.2
4,4'-DDT	<0.004	-	-	-	0.02
4,4'-DDE	<0.002	-	-	-	0.1
4,4'-DDD	<0.006	-	-	-	0.1
Dieldrin	<0.003	-	-	-	0.02
Endosulfan I (alpha)	<0.003	-	-	-	0.01
Endosulfan II (beta)	<0.004	-	-	-	0.02
Endosulfan sulfate	<0.003	-	-	-	0.1
Endrin	<0.004	-	-	-	0.02
Endrin aldehyde	<0.008	-	-	-	0.1
Heptachlor	<0.005	-	-	-	0.01
Heptachlor epoxide	<0.002	-	-	-	0.01
PCB 1242	<0.01	-	-	-	0.2
PCB 1254	<0.01	-	-	-	0.2
PCB 1221	<0.01	-	-	-	0.2
PCB 1232	<0.01	-	-	-	0.2
PCB 1248	<0.01	-	-	-	0.2
PCB 1260	<0.01	-	-	-	0.2
PCB 1016	<0.02	-	-	-	0.2
Toxaphene	<0.1	-	-	-	0.3

* Indicate units if different from µg/L.

Attachment: N/A**TABLE 12 (DIOXINS/FURAN COMPOUNDS)**Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 53-54)

- Indicate which compound(s) are manufactured or used at the facility and provide a brief description of the conditions of its/their presence at the facility (check all that apply).

 2,4,5-trichlorophenoxy acetic acid (2,4,5-T)

CASRN 93-76-5

 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP)

CASRN 93-72-1

- 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4
- o,o-dimethyl o-(2,4,5-trichlorophenyl) phosphorothioate (Ronnell) CASRN 299-84-3
- 2,4,5-trichlorophenol (TCP) CASRN 95-95-4
- hexachlorophene (HCP) CASRN 70-30-4
- None of the above

Description: N/A

2. Does the applicant or anyone at the facility know or have any reason to believe that 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) or any congeners of TCDD may be present in the effluent proposed for discharge?

- Yes
- No

Description: N/A

If **yes** to either Items a **or** b, complete Table 12 as instructed.

Table 12 for Outfall No.: N/A

Samples are (check one): Composites Grabs

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDD	1					10
1,2,3,7,8-PeCDD	1.0					50
2,3,7,8-HxCDDs	0.1					50
1,2,3,4,6,7,8-HpCDD	0.01					50
2,3,7,8-TCDF	0.1					10
1,2,3,7,8-PeCDF	0.03					50
2,3,4,7,8-PeCDF	0.3					50
2,3,7,8-HxCDFs	0.1					50
2,3,4,7,8-HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

Complete Table 13 **is required** for all **external outfalls** as directed below. (Instructions, Page 54)

1. Are there any pollutants listed in the instructions (pages 55-62) believed present in the discharge?

Yes No

3. Are there pollutants listed in Item 1.c. of Technical Report 1.0 which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

Yes No

If **yes** to either Items a **or** b, complete Table 13 as instructed.

Table 13 for Outfall No.: 002

Samples are (check one): Composites Grabs

Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method
Vanadium	7440-62-2	4.7	-	-	-	EPA 200.8