Subsequent Revisions to TPDES Renewal/Amendment Application WQ0000391000

NOTE: Item 13 is required only for existing permitted facilities.

13. PERMIT CHANGE REQUESTS (Instructions, Pages 43-44)

a. Is the facility requesting a **major amendment** of an existing permit?

☒ Yes ☐ No

If **yes**, list each request individually and provide the following information: 1) detailed information regarding the scope of each request and 2) a justification for each request. Attach any supplemental information or additional data to support each request.

1) Reduce the monitoring frequency for Outfall 002 for flow, total organic carbon (TOC), and pH to quarterly, and for oil and grease to annually.

2) Reduce the monitoring frequency for Outfalls 004 and 005 for oil and grease to annually.

3) Add process wastewater and storm water to Outfall 101.

4) Add construction storm water and additional utility wastewaters to Outfall 001. Utility wastewaters to add include those listed in Other Requirement No. 13 of the current permit, cooling tower and boiler maintenance wastewaters, water treatment wastewaters, and water from landfarm. Utility wastewaters listed in Other Requirement No. 13 include, but are not limited to: potable water, vehicle rinse water, firewater (which has not come into direct contact with raw material, intermediate product, finished product, by-product, or waste product and is not the result of a fire), hydrotest water, clarified water, demineralized water, steam condensate and blowdown, non-contact once-through cooling water, de minimis amounts of cooling tower water, raw and well water, groundwater seepage, condensate, and analyzer instrumentation drain wastewater.

5) Removal of completed provisions in Other Requirements Nos. 9, 10, 15, and 16.

6) Removal of monitoring for total zinc for Outfall 002.

7) Clarification of Other Requirement No. 8 related to storm water from the landfarm.

For additional details, see Attachment T-2 Amendment Requests.

b. Is the facility requesting any **minor amendments** to the permit?

☐ Yes ☒ No

If **yes**, list and discuss the requested changes.

N/A

c. Is the facility requesting any **minor modifications** to the permit?

☐ Yes ☒ No

If **yes**, list and discuss the requested changes.

N/A

b. **Organic Chemicals, Plastics, and Synthetic Fibers Manufacturing Data (40 CFR Part 414)**

Provide each applicable subpart and the percent of total production. Provide data for metal-bearing and cyanide-bearing wastestreams, as required by *40 CFR Part 414, Appendices A and B*.

Percentages of Total Production

Subcategory	Percent of Total Production	Appendix A and B - Metal	Appendix A – Cyanide
Subpart D Thermoplastic Resins	0.2%	N/A	N/A
Subpart F Commodity Organic Chemicals	69.5%	Chromium – **0.11 MGD** - Methanol/high pressure synthesis from natural gas via synthetic gas Copper – **0.54 MGD** - Isopropanol/catalytic hydrogenation of acetone - Methanol/high pressure synthesis from natural gas via synthetic gas - Methanol/low pressure synthesis from natural gas via synthetic gas Nickel – **0.47 MGD** - Methanol/high pressure synthesis from natural gas via synthetic gas - Methanol/low pressure synthesis from natural gas via synthetic gas Zinc – **0.54 MGD** - Methanol/low pressure synthesis from natural gas via synthetic gas	
Subpart G Bulk Organic Chemicals	30.3%	N/A	
Subpart I End-of-Pipe Biological Treatment	N/A		

c. **Refineries (40 CFR Part 419)**

Provide the applicable subcategory and a brief justification.

N/A

3. PROCESS/NON-PROCESS WASTEWATER FLOWS (Instructions, Page 48)

Provide a breakdown of wastewater flow(s) generated by the facility, including both process and non-process wastewater flow(s). Specify which wastewater flows are to be authorized for discharge under this permit and the disposal practices for wastewater flows, excluding domestic, which are not to be authorized for discharge under this permit.

See Attachment T-1 Facility Description, Table 3 Wastewater Flows by Outfall.

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:
   - 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, Christopher M. Cain, Site Manager, certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*.

Note: Any exceptions are noted in the worksheet tables.

_____

(Signature and date)

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): 01/03/2019 -06/12/2020

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-5 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.: 001

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	<2	5
CBOD (5-day)	3	<2	4	4
Chemical oxygen demand	71	62	63	75
Total organic carbon	20	16.7	19.2	22.1
Dissolved oxygen	5.6	6.2	5.5	5.5
Ammonia nitrogen	0.4	<0.25	0.25	0.37
Total suspended solids	14	12	18	10
Nitrate nitrogen	13.3	13.6	13.3	15.1
Total organic nitrogen	2.57	1.69	1.88	3.2
Total phosphorus	2.7	22.5	26.3	39.8
Oil and grease	5	5	5	5
Total residual chlorine	0.15	0.13	0.58	0.03
Total dissolved solids	1710	1380	2180	1950
Sulfate	1310	893	905	924
Chloride	147	101	108	114
Fluoride	0.5	<0.4	<0.4	<0.4
Total alkalinity (mg/L as $CaCO_3$)	67	69	60	63
Temperature (°F)	100.1	103	98	95.0012
pH (standard units)	7.4	7.6	7.16	7.1

Table 2 for Outfall No.: 001

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)
Aluminum, total	77.8	104	61.5	85.5	2.5
Antimony, total	1.3	1.1	1.3	1.2	5
Arsenic, total	12.2	9.7	10.6	9.2	0.5
Barium, total	166	111	122	104	3
Beryllium, total	<0.4	<0.4	<0.4	<0.4	0.5
Cadmium, total	<0.4	<0.4	<0.4	<0.4	1
Chromium, total	6.3	7.3	7.9	7.8	3
Chromium, hexavalent	<3.4	<3.4	<3.4	<3.4	3
Chromium, trivalent	6.3	7.3	7.9	7.8	N/A

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)			MAL (µg/L)
Copper, total	20.8	18.6	33.4	21.9			2
Cyanide, available	5.44 [CN-avail] 4.52 [CN-free]	3.26 [avail]	7.66 [avail]	Sample 4 6.9 [avail]	Sample 5 6.85 [avail] <0.785 [free]	Sample 6 6.17 [avail] <0.785 [free]	2/10
Lead, total	<0.4	0.5	<0.4	<0.4			0.5
Mercury, total	0.0077	0.0104	0.0118	0.0196			0.005/0.0005
Nickel, total	19.7	11.1	11.4	9.1			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	14.5	119	32.5	30.6			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.: 001

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	<10	<3	<3	<3	50
Anthracene	<5	<0.46	<0.39	<0.44	10
Benzene	<2	<1	<1	<1	10
Benzidine	<10	<0.86	<0.73	<0.84	50
Benzo(a)anthracene	<1	<0.49	<0.42	<0.48	5
Benzo(a)pyrene	<1	<1.11	<0.94	<1.08	5
Bis(2-chloroethyl)ether	<5	<0.94	<0.8	<0.91	10
Bis(2-ethylhexyl)phthalate	<5	<2.86	<2.44	<2.79	10
Bromodichloromethane [Dichlorobromomethane]	<2	<1	<1	<1	10
Bromoform	<2	<1	<1	<1	10
Carbon tetrachloride	<1	<1	<1	<1	2
Chlorobenzene	<2	<1	<1	<1	10
Chlorodibromomethane [Dibromochloromethane]	<2	<1	<1	<1	10
Chloroform	10.27	16.47	14.29	12.66	10
Chrysene	<1	<0.74	<0.63	<0.72	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]	-	<5.2†	<1.47†	<1.68†	10
o-Cresol [2-Methylphenol]	-	<2.6	<1.11	<1.27	10
p-Cresol [4-Methylphenol]	-	<5.2†	<1.47†	<1.68†	10
1,2-Dibromoethane	<1	<1	<1	<1	10
m-Dichlorobenzene [1,3-Dichlorobenzene]	<2	<0.69	<0.59	<0.67	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<2	<0.53	<0.46	<0.52	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<2	<0.33	<0.28	<0.32	10
3,3'-Dichlorobenzidine	<2	<1.14	<0.98	<1.12	5
1,2-Dichloroethane	<2	<1	<1	<1	10
1,1-Dichloroethene [1,1-Dichloroethylene]	<2	<1	<1	<1	10
Dichloromethane [Methylene chloride]	<2	<1	<1	<1	20
1,2-Dichloropropane	<2	<1	<1	<1	10
1,3-Dichloropropene [1,3-Dichloropropylene]	<4	<1	<1	<1	10
2,4-Dimethylphenol	<5	<0.69	<0.59	<0.67	10
Di-n-Butyl phthalate	<5	<1.59	<1.35	<1.55	10
Ethylbenzene	<2	<1	<1	<1	10
Fluoride	500	<400	<400	<400	500
Hexachlorobenzene	<0.8	<0.9	<0.77	<0.88	5
Hexachlorobutadiene	<2	<0.53	<0.46	<0.52	10
Hexachlorocyclopentadiene	<5	<1.79	<1.53	<0.52	10
Hexachloroethane	<2	<0.61	<0.52	<0.6	20
Methyl ethyl ketone	<1	<1	<1	<1	50
Nitrobenzene	<5	<1.18	<1.01	<1.16	10
N-Nitrosodiethylamine	-	<6.5	<5.55	<6.35	20
N-Nitroso-di-n-butylamine	-	<6.5	<5.55	<6.35	20
Nonylphenol	<6.75	<7.88	<1.25	<1.46	333
Pentachlorobenzene	-	<3.9	<3.33	<3.81	20
Pentachlorophenol	<1	<0.65	<0.56	<0.64	5
Phenanthrene	<5	<0.57	<0.49	<0.56	10
Polychlorinated biphenyls (PCBs) (**)	-	<0.0129	<0.0129	<0.02	0.2
Pyridine	-	<0.46	<0.39	<0.44	20
1,2,4,5-Tetrachlorobenzene	-	<6.5	<5.55	<6.35	20
1,1,2,2-Tetrachloroethane	<2	<1	<1	<1	10
Tetrachloroethene [Tetrachloroethylene]	<2	<1	<1	<1	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Toluene	<4	<1	<1	<1	10
1,1,1-Trichloroethane	<3	<1	<1	<1	10
1,1,2-Trichloroethane	<2	<1	<1	<1	10
Trichloroethene [Trichloroethylene]	<2	<1	<1	<1	10
2,4,5-Trichlorophenol	-	<1.11	<0.94	<1.08	50
TTHM (Total trihalomethanes)	10.27	16.47	14.29	12.66	10
Vinyl chloride	<2	<1	<1	<1	10

(*) 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 "<".

†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.

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.: 001

Samples are (check one): ☐ **Composites** ☐ **Grabs**

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

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Enterococci (cfu or MPN/100 mL)	Monitoring of treated domestic wastewater for enterococci is done at internal Outfalls 101 and 201 under the TPDES permit.				N/A
E. coli (cfu or MPN/100 mL)	N/A	N/A	N/A	N/A	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 [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [Lindane]					0.05

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Hexachlorophene					10
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.: 001
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	☐	☒	<0.4	-	-	-	400
Color (PCU)	☒	☐	-	-	-	-	—
Nitrate-Nitrite (as N)	☒	☐	13.3	-	-	-	—
Sulfide (as S)	☐	☒	<0.05	-	-	-	—
Sulfite (as SO_3)	☒	☐	<1	<1	2	<1	—
Surfactants	☒	☐	0.147	-	-	-	—
Boron, total	☒	☐	0.233	-	-	-	20
Cobalt, total	☒	☐	0.0007	-	-	-	0.3
Iron, total	☒	☐	0.374	-	-	-	7
Magnesium, total	☒	☐	7.39	-	-	-	20
Manganese, total	☒	☐	0.0216	-	-	-	0.5
Molybdenum, total	☒	☐	0.0208	-	-	-	1
Tin, total	☐	☒	<0.004	-	-	-	5
Titanium, total	☒	☐	0.0046	-	-	-	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
☐ Adhesives and Sealants		☐ Yes	☐ Yes	☐ Yes	No
☐ Aluminum Forming	467	☐ Yes	☐ Yes	☐ Yes	No
☐ Auto and Other Laundries		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Battery Manufacturing	461	☐ Yes	No	☐ Yes	No
☐ Coal Mining	434	No	No	No	No
☐ Coil Coating	465	☐ Yes	☐ Yes	☐ Yes	No
☐ Copper Forming	468	☐ Yes	☐ Yes	☐ Yes	No
☐ Electric and Electronic Components	469	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Electroplating	413	☐ Yes	☐ Yes	☐ Yes	No
☐ Explosives Manufacturing	457	No	☐ Yes	☐ Yes	No
☐ Foundries		☐ Yes	☐ Yes	☐ Yes	No
☐ Gum and Wood Chemicals - Subparts A,B,C,E	454	☐ Yes	☐ Yes	No	No
☐ Gum and Wood Chemicals - Subparts D,F	454	☐ Yes	☐ Yes	☐ Yes	No
☐ Inorganic Chemicals Manufacturing	415	☐ Yes	☐ Yes	☐ Yes	No
☐ Iron and Steel Manufacturing	420	☐ Yes	☐ Yes	☐ Yes	No
☐ Leather Tanning and Finishing	425	☐ Yes	☐ Yes	☐ Yes	No
☐ Mechanical Products Manufacturing		☐ Yes	☐ Yes	☐ Yes	No
☐ Nonferrous Metals Manufacturing	421,471	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Ore Mining - Subpart B	440	No	☐ Yes	No	No
☒ Organic Chemicals Manufacturing	414	☒ Yes	☒ Yes	☒ Yes	☒ Yes
☐ Paint and Ink Formulation	446,447	☐ Yes	☐ Yes	☐ Yes	No
☐ Pesticides	455	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Petroleum Refining	419	☐ Yes	No	No	No
☐ Pharmaceutical Preparations	439	☐ Yes	☐ Yes	☐ Yes	No
☐ Photographic Equipment and Supplies	459	☐ Yes	☐ Yes	☐ Yes	No
☒ Plastic and Synthetic Materials Manufacturing	414	☒ Yes	☒ Yes	☒ Yes	☒ Yes
☐ Plastic Processing	463	☐ Yes	No	No	No
☐ Porcelain Enameling	466	No	No	No	No
☐ Printing and Publishing		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Pulp and Paperboard Mills - Subpart C	430	☐ *	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subparts F, K	430	☐ *	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	☐ Yes	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts I, J, L	430	☐ Yes	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subpart E	430	☐ Yes	☐ Yes	☐ Yes	☐ *
☐ Rubber Processing	428	☐ Yes	☐ Yes	☐ Yes	No
☐ Soap and Detergent Manufacturing	417	☐ Yes	☐ Yes	☐ Yes	No
☐ Steam Electric Power Plants	423	☐ Yes	☐ Yes	No	No

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/Neutrals Table 10	Pesticides Table 11
☐ Textile Mills (Not Subpart C)	410	☐ Yes	☐ Yes	☐ Yes	No
☐ Timber Products Processing	429	☐ Yes	☐ Yes	☐ Yes	☐ 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.: 001 : 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	<6	<6	<6	50
Acrylonitrile	<3	<3	<3	<3	50
Benzene	<1	<1	<1	<1	10
Bromoform	<1	<1	<1	<1	10
Carbon tetrachloride	<1	<1	<1	<1	2
Chlorobenzene	<1	<1	<1	<1	10
Chlorodibromomethane	<1	<1	<1	<1	10
Chloroethane	<1	<1	<1	<1	50
2-Chloroethylvinyl ether	<6	<6	<6	<6	10
Chloroform	10.27	16.47	14.29	12.66	10
Dichlorobromomethane [Bromodichloromethane]	<2	<1	<1	<1	10
1,1-Dichloroethane	<1	<1	<1	<1	10
1,2-Dichloroethane	<1	<1	<1	<1	10
1,1-Dichloroethylene [1,1-Dichloroethene]	<1	<1	<1	<1	10
1,2-Dichloropropane	<1	<1	<1	<1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<1	<1	<1	<1	10
Ethylbenzene	<1	<1	<1	<1	10
Methyl bromide [Bromomethane]	<2	<2	<2	<2	50
Methyl chloride [Chloromethane]	<2	<1	<1	<1	50
Methylene chloride [Dichloromethane]	<1	<1	<1	<1	20
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	10
Tetrachloroethylene [Tetrachloroethene]	<1	<1	<1	<1	10
Toluene	<1	<1	<1	<1	10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]	<1	<1	<1	<1	10
1,1,1-Trichloroethane	<1	<1	<1	<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	<1	<1	<1	10
Trichloroethylene [Trichloroethene]	<1	<1	<1	<1	10
Vinyl chloride	<1	<1	<1	<1	10

* Indicate units if different from µg/L.

Table 9 for Outfall No.: 001 : 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	<5	<0.65	<0.56	<0.64	10
2,4-Dichlorophenol	<5	<0.9	<0.77	<0.88	10
2,4-Dimethylphenol	<5	<0.69	<0.59	<0.67	10
4,6-Dinitro-o-cresol	<5	<0.86	<0.73	<0.84	50
2,4-Dinitrophenol	<10	<1.83	<1.57	<1.79	50
2-Nitrophenol	<5	<1.14	<0.98	<1.12	20
4-Nitrophenol	<5	<1.47	<1.25	<1.44	50
p-Chloro-m-cresol	<5	<0.69	-	-	10
Pentachlorophenol	<1	<0.65	<0.56	<0.64	5
Phenol	<1	<0.57	<0.49	<0.56	10
2,4,6-Trichlorophenol	<5	<1.03	<0.88	<1	10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: 001 : 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	<5	<0.36	<0.31	<0.36	10
Acenaphthylene	<5	<0.61	<0.52	<0.6	10
Anthracene	<5	<0.46	<0.39	<0.44	10
Benzidine	<10	<0.86	<0.73	<0.84	50
Benzo(a)anthracene	<1	<0.49	<0.42	<0.48	5
Benzo(a)pyrene	<1	<1.11	<0.94	<1.08	5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]	<5	<0.74	<0.63	<0.72	10
Benzo(ghi)perylene	<5	<0.82	<0.7	<0.8	20
Benzo(k)fluoranthene	<2	<0.74	<0.63	<0.72	5
Bis(2-chloroethoxy)methane	<5	<0.46	<0.39	<0.44	10
Bis(2-chloroethyl)ether	<5	<0.94	<0.8	<0.91	10
Bis(2-chloroisopropyl)ether	<5	<1.11	<0.94	<1.08	10
Bis(2-ethylhexyl)phthalate	<5	<2.86	<2.44	<2.79	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	<5	<0.53	<0.46	<0.52	10
Butylbenzyl phthalate	<5	<0.9	<0.77	<0.88	10
2-Chloronaphthalene	<5	<0.36	<0.31	<0.36	10
4-Chlorophenyl phenyl ether	<5	<0.86	<0.73	<0.84	10
Chrysene	<1	<0.74	<0.63	<0.72	5
Dibenzo(a,h)anthracene	<2	<0.9	<0.77	<0.88	5
1,2-Dichlorobenzene [o-Dichlorobenzene]	<2	<0.53	<0.46	<0.52	10
1,3-Dichlorobenzene [m-Dichlorobenzene]	<2	<0.69	<0.59	<0.67	10
1,4-Dichlorobenzene [p-Dichlorobenzene]	<2	<0.33	<0.28	<0.32	10
3,3'-Dichlorobenzidine	<2	<1.14	<0.98	<1.12	5
Diethyl phthalate	<5	<0.82	<0.7	<0.8	10
Dimethyl phthalate	<2	<0.94	<0.8	<0.91	10
Di-n-butyl phthalate	<5	<1.59	<1.35	<1.55	10
2,4-Dinitrotoluene	<5	<1.26	<1.08	<1.23	10
2,6-Dinitrotoluene	<5	<1.59	<1.35	<1.55	10
Di-n-octyl phthalate	<5	<3.59	<3.06	<3.51	10
1,2-Diphenylhydrazine (as Azobenzene)	<5	<0.29	<0.24	<0.28	20
Fluoranthene	<5	<0.57	<0.49	<0.56	10
Fluorene	<5	<0.61	<0.52	<0.6	10
Hexachlorobenzene	<0.8	<0.9	<0.77	<0.88	5
Hexachlorobutadiene	<2	<0.53	<0.46	<0.52	10
Hexachlorocyclopentadiene	<5	<1.79	<1.53	<0.52	10
Hexachloroethane	<2	<0.61	<0.52	<0.6	20
Indeno(1,2,3-cd)pyrene	<2	<0.29	-	<0.28	5
Isophorone	<5	<0.36	<0.31	<0.36	10
Naphthalene	<2	<0.4	<0.34	<0.39	10
Nitrobenzene	<5	<1.18	<1.01	<1.16	10
N-Nitrosodimethylamine	<5	<1.03	<0.88	<1	50
N-Nitrosodi-n-propylamine	<5	<0.94	<0.8	<0.91	20
N-Nitrosodiphenylamine	<5	<0.61	<0.52	<0.6	20
Phenanthrene	<5	<0.57	<0.49	<0.56	10
Pyrene	<5	<0.74	<0.63	<0.72	10
1,2,4-Trichlorobenzene	<5	<0.69	<0.59	<0.67	10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: 001 : Pesticides
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	-	<0.004	-	-	0.01
alpha-BHC [alpha-Hexachlorocyclohexane]	-	<0.012	-	-	0.05
beta-BHC [beta-Hexachlorocyclohexane]	-	<0.015	-	-	0.05
gamma-BHC [gamma-Hexachlorocyclohexane]	-	<0.007	-	-	0.05
delta-BHC [delta-Hexachlorocyclohexane]	-	<0.006	-	-	0.05
Chlordane	-	<0.149	-	-	0.2
4,4'-DDT	-	<0.006	-	-	0.02
4,4'-DDE	-	<0.003	-	-	0.1
4,4'-DDD	-	<0.009	-	-	0.1
Dieldrin	-	<0.004	-	-	0.02
Endosulfan I (alpha)	-	<0.004	-	-	0.01
Endosulfan II (beta)	-	<0.006	-	-	0.02
Endosulfan sulfate	-	<0.004	-	-	0.1
Endrin	-	<0.006	-	-	0.02
Endrin aldehyde	-	<0.012	-	-	0.1
Heptachlor	-	<0.007	-	-	0.01
Heptachlor epoxide	-	<0.003	-	-	0.01
PCB 1242	-	<0.0129	<0.0129	<0.02	0.2
PCB 1254	-	<0.0129	<0.0129	<0.02	0.2
PCB 1221	-	<0.0129	<0.0129	<0.02	0.2
PCB 1232	-	<0.0129	<0.0129	<0.02	0.2
PCB 1248	-	<0.0129	<0.0129	<0.02	0.2
PCB 1260	-	<0.0129	<0.0129	<0.02	0.2
PCB 1016	-	<0.0103	<0.0103	<0.01	0.2
Toxaphene	-	<0.149	-	-	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)

1. 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
☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) 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.: 001

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	-	-	-	-	[Note 1]
[1] Vanadium may be present because it is naturally-occurring in fresh and salt waters.						

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:
   - 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 signature on 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): 10/02/2019 – 11/06/2019

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-5 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:** T-6 Correspondence on Number of Outfall Samples

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)	<2	<2	-	-
CBOD (5-day)	<2	6	-	-
Chemical oxygen demand	17	11	-	-
Total organic carbon	average of monthly averages 11 mg/L, range 5-23 mg/L, n=38 (DMR data, January 2017 – February 2020)			
Dissolved oxygen	6.5	8.5	-	-
Ammonia nitrogen	<0.25	<0.25	-	-
Total suspended solids	<5	<5	-	-
Nitrate nitrogen	<0.4	<0.4	-	-
Total organic nitrogen	<0.25	<0.432	-	-
Total phosphorus	0.11	0.12	-	-
Oil and grease	average of monthly averages 5 mg/L, range 5-5 mg/L, n=38 (DMR data, January 2017 – February 2020)			
Total residual chlorine	0	0.07	-	-
Total dissolved solids	184	325	-	-
Sulfate	11	12.8	-	-
Chloride	23.4	29.5	-	-
Fluoride	<0.4	0.47	-	-
Total alkalinity (mg/L as CaCO3)	89	168	-	-
Temperature (°F)	82	73	-	-
pH (standard units)	7.8	7.8	-	-

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)
Aluminum, total	131	116	-	-	2.5
Antimony, total	<0.4	<0.4	-	-	5
Arsenic, total	3.1	3.8	-	-	0.5
Barium, total	58.4	64.9	-	-	3
Beryllium, total	<0.4	<0.4	-	-	0.5
Cadmium, total	<0.4	<0.4	-	-	1
Chromium, total	0.5	1.1	-	-	3
Chromium, hexavalent	<3.4	<3.4	-	-	3

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Chromium, trivalent	0.5	1.1	-	-	N/A
Copper, total	3.5	2.1	-	-	2
Cyanide, available	<0.36	<0.36	-	-	2/10
Lead, total	0.4	<0.4	-	-	0.5
Mercury, total	0.00183	0.00148	-	-	0.005/0.0005
Nickel, total	1.0	0.7	-	-	2
Selenium, total	<3.2	<3.2	-	-	5
Silver, total	<0.4	<0.4	-	-	0.5
Thallium, total	<0.4	<0.4	-	-	0.5
Zinc, total	average of monthly averages 61 µg/L, range 10-160 µg/L, n=38 (DMR data, January 2017 – February 2020)				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	<0.44	-	-	-	10
Benzene	<1	-	-	-	10
Benzidine	<0.83	-	-	-	50
Benzo(a)anthracene	<0.48	-	-	-	5
Benzo(a)pyrene	<1.06	-	-	-	5
Bis(2-chloroethyl)ether	<0.9	-	-	-	10
Bis(2-ethylhexyl)phthalate	<2.75	-	-	-	10
Bromodichloromethane [Dichlorobromomethane]	<1	-	-	-	10
Bromoform	<1	-	-	-	10
Carbon tetrachloride	<1	-	-	-	2
Chlorobenzene	<1	-	-	-	10
Chlorodibromomethane [Dibromochloromethane]	<1	-	-	-	10
Chloroform	8.05	-	-	-	10
Chrysene	<0.71	-	-	-	5
m-Cresol [3-Methylphenol]	<1.65†	-	-	-	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
o-Cresol [2-Methylphenol]	<1.25	-	-	-	10
p-Cresol [4-Methylphenol]	<1.65†	-	-	-	10
1,2-Dibromoethane	<1	-	-	-	10
m-Dichlorobenzene [1,3-Dichlorobenzene]	<0.66	-	-	-	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<0.51	-	-	-	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<0.31	-	-	-	10
3,3'-Dichlorobenzidine	<1.1	-	-	-	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	<0.66	-	-	-	10
Di-n-Butyl phthalate	<1.53	-	-	-	10
Ethylbenzene	<1	-	-	-	10
Fluoride	<400	470	-	-	500
Hexachlorobenzene	<0.86	-	-	-	5
Hexachlorobutadiene	<0.51	-	-	-	10
Hexachlorocyclopentadiene	<1.73	-	-	-	10
Hexachloroethane	<0.59	-	-	-	20
Methyl ethyl ketone	<1	-	-	-	50
Nitrobenzene	<1.14	-	-	-	10
N-Nitrosodiethylamine	<6.25	-	-	-	20
N-Nitroso-di-n-butylamine	<6.25	-	-	-	20
Nonylphenol	<1.66	-	-	-	333
Pentachlorobenzene	<3.75	-	-	-	20
Pentachlorophenol	<0.63	-	-	-	5
Phenanthrene	<0.55	-	-	-	10
Polychlorinated biphenyls (PCBs) (**)	<0.0129	-	-	-	0.2
Pyridine	<0.44	-	-	-	20
1,2,4,5-Tetrachlorobenzene	<6.25	-	-	-	20
1,1,2,2-Tetrachloroethane	<1	-	-	-	10
Tetrachloroethene [Tetrachloroethylene]	<1	-	-	-	10
Toluene	<1	-	-	-	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
1,1,1-Trichloroethane	<1	-	-	-	10
1,1,2-Trichloroethane	<1	-	-	-	10
Trichloroethene [Trichloroethylene]	<1	-	-	-	10
2,4,5-Trichlorophenol	<1.06	-	-	-	50
TTHM (Total trihalomethanes)	8.05	-	-	-	10
Vinyl chloride	<1	-	-	-	10

(*) 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 "<".

†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.

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
E. coli (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 [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [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	☐	☒	<0.4	-	-	-	400
Color (PCU)	☒	☐	15	-	-	-	—
Nitrate-Nitrite (as N)	☒	☐	<0.4	-	-	-	—
Sulfide (as S)	☐	☒	<0.05	-	-	-	—
Sulfite (as SO_3)	☒	☐	2	<1	-	-	—
Surfactants	☒	☐	0.0373	-	-	-	—
Boron, total	☒	☐	0.065	-	-	-	20
Cobalt, total	☐	☒	<0.0002	-	-	-	0.3
Iron, total	☒	☐	0.162	-	-	-	7
Magnesium, total	☒	☐	1.61	-	-	-	20
Manganese, total	☒	☐	0.0239	-	-	-	0.5
Molybdenum, total	☒	☐	0.0032	-	-	-	1
Tin, total	☐	☒	<0.004	-	-	-	5
Titanium, total	☐	☒	<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
☐ Adhesives and Sealants		☐ Yes	☐ Yes	☐ Yes	No
☐ Aluminum Forming	467	☐ Yes	☐ Yes	☐ Yes	No
☐ Auto and Other Laundries		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Battery Manufacturing	461	☐ Yes	No	☐ Yes	No
☐ Coal Mining	434	No	No	No	No
☐ Coil Coating	465	☐ Yes	☐ Yes	☐ Yes	No
☐ Copper Forming	468	☐ Yes	☐ Yes	☐ Yes	No
☐ Electric and Electronic Components	469	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Electroplating	413	☐ Yes	☐ Yes	☐ Yes	No
☐ Explosives Manufacturing	457	No	☐ Yes	☐ Yes	No
☐ Foundries		☐ Yes	☐ Yes	☐ Yes	No
☐ Gum and Wood Chemicals - Subparts A,B,C,E	454	☐ Yes	☐ Yes	No	No
☐ Gum and Wood Chemicals - Subparts D,F	454	☐ Yes	☐ Yes	☐ Yes	No
☐ Inorganic Chemicals Manufacturing	415	☐ Yes	☐ Yes	☐ Yes	No
☐ Iron and Steel Manufacturing	420	☐ Yes	☐ Yes	☐ Yes	No
☐ Leather Tanning and Finishing	425	☐ Yes	☐ Yes	☐ Yes	No
☐ Mechanical Products Manufacturing		☐ Yes	☐ Yes	☐ Yes	No
☐ Nonferrous Metals Manufacturing	421,471	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Ore Mining - Subpart B	440	No	☐ Yes	No	No
☐ Organic Chemicals Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Paint and Ink Formulation	446,447	☐ Yes	☐ Yes	☐ Yes	No
☐ Pesticides	455	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Petroleum Refining	419	☐ Yes	No	No	No
☐ Pharmaceutical Preparations	439	☐ Yes	☐ Yes	☐ Yes	No
☐ Photographic Equipment and Supplies	459	☐ Yes	☐ Yes	☐ Yes	No
☐ Plastic and Synthetic Materials Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Plastic Processing	463	☐ Yes	No	No	No
☐ Porcelain Enameling	466	No	No	No	No
☐ Printing and Publishing		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Pulp and Paperboard Mills - Subpart C	430	☐ *	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subparts F, K	430	☐ *	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	☐ Yes	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts I, J, L	430	☐ Yes	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subpart E	430	☐ Yes	☐ Yes	☐ Yes	☐ *
☐ Rubber Processing	428	☐ Yes	☐ Yes	☐ Yes	No
☐ Soap and Detergent Manufacturing	417	☐ Yes	☐ Yes	☐ Yes	No
☐ Steam Electric Power Plants	423	☐ Yes	☐ Yes	No	No

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/Neutrals Table 10	Pesticides Table 11
☐ Textile Mills (Not Subpart C)	410	☐ Yes	☐ Yes	☐ Yes	No
☐ Timber Products Processing	429	☐ Yes	☐ Yes	☐ Yes	☐ 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	8.05	-	-	-	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	<0.63	-	-	-	10
2,4-Dichlorophenol	<0.86	-	-	-	10
2,4-Dimethylphenol	<0.66	-	-	-	10
4,6-Dinitro-o-cresol	<0.83	-	-	-	50
2,4-Dinitrophenol	<1.76	-	-	-	50
2-Nitrophenol	<1.1	-	-	-	20
4-Nitrophenol	<1.41	-	-	-	50
p-Chloro-m-cresol	<0.66	-	-	-	10
Pentachlorophenol	<0.63	-	-	-	5
Phenol	<0.55	-	-	-	10
2,4,6-Trichlorophenol	<0.99	-	-	-	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	<0.35	-	-	-	10
Acenaphthylene	<0.59	-	-	-	10
Anthracene	<0.44	-	-	-	10
Benzidine	<0.83	-	-	-	50
Benzo(a)anthracene	<0.48	-	-	-	5
Benzo(a)pyrene	<1.06	-	-	-	5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]	<0.71	-	-	-	10
Benzo(ghi)perylene	<0.79	-	-	-	20
Benzo(k)fluoranthene	<0.71	-	-	-	5
Bis(2-chloroethoxy)methane	<0.44	-	-	-	10
Bis(2-chloroethyl)ether	<0.9	-	-	-	10
Bis(2-chloroisopropyl)ether	<1.06	-	-	-	10
Bis(2-ethylhexyl)phthalate	<2.75	-	-	-	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	<0.51	-	-	-	10
Butylbenzyl phthalate	<0.86	-	-	-	10
2-Chloronaphthalene	<0.35	-	-	-	10
4-Chlorophenyl phenyl ether	<0.83	-	-	-	10
Chrysene	<0.71	-	-	-	5
Dibenzo(a,h)anthracene	<0.86	-	-	-	5
1,2-Dichlorobenzene [o-Dichlorobenzene]	<0.51	-	-	-	10
1,3-Dichlorobenzene [m-Dichlorobenzene]	<0.66	-	-	-	10
1,4-Dichlorobenzene [p-Dichlorobenzene]	<0.31	-	-	-	10
3,3'-Dichlorobenzidine	<1.1	-	-	-	5
Diethyl phthalate	<0.79	-	-	-	10
Dimethyl phthalate	<0.9	-	-	-	10
Di-n-butyl phthalate	<1.53	-	-	-	10
2,4-Dinitrotoluene	<1.21	-	-	-	10
2,6-Dinitrotoluene	<1.53	-	-	-	10
Di-n-octyl phthalate	<3.45	-	-	-	10
1,2-Diphenylhydrazine (as Azobenzene)	<0.28	-	-	-	20
Fluoranthene	<0.55	-	-	-	10
Fluorene	<0.59	-	-	-	10
Hexachlorobenzene	<0.86	-	-	-	5
Hexachlorobutadiene	<0.51	-	-	-	10
Hexachlorocyclopentadiene	<1.73	-	-	-	10
Hexachloroethane	<0.59	-	-	-	20
Indeno(1,2,3-cd)pyrene	<0.28	-	-	-	5
Isophorone	<0.35	-	-	-	10
Naphthalene	<0.39	-	-	-	10
Nitrobenzene	<1.14	-	-	-	10
N-Nitrosodimethylamine	<0.99	-	-	-	50
N-Nitrosodi-n-propylamine	<0.9	-	-	-	20
N-Nitrosodiphenylamine	<0.59	-	-	-	20
Phenanthrene	<0.55	-	-	-	10
Pyrene	<0.71	-	-	-	10
1,2,4-Trichlorobenzene	<0.66	-	-	-	10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: 002 : Pesticides
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	<0.004	-	-	-	0.01
alpha-BHC [alpha-Hexachlorocyclohexane]	<0.011	-	-	-	0.05
beta-BHC [beta-Hexachlorocyclohexane]	<0.014	-	-	-	0.05
gamma-BHC [gamma-Hexachlorocyclohexane]	<0.007	-	-	-	0.05
delta-BHC [delta-Hexachlorocyclohexane]	<0.006	-	-	-	0.05
Chlordane	<0.143	-	-	-	0.2
4,4'-DDT	<0.006	-	-	-	0.02
4,4'-DDE	<0.003	-	-	-	0.1
4,4'-DDD	<0.009	-	-	-	0.1
Dieldrin	<0.004	-	-	-	0.02
Endosulfan I (alpha)	<0.004	-	-	-	0.01
Endosulfan II (beta)	<0.006	-	-	-	0.02
Endosulfan sulfate	<0.004	-	-	-	0.1
Endrin	<0.006	-	-	-	0.02
Endrin aldehyde	<0.011	-	-	-	0.1
Heptachlor	<0.007	-	-	-	0.01
Heptachlor epoxide	<0.003	-	-	-	0.01
PCB 1242	<0.0129	-	-	-	0.2
PCB 1254	<0.0129	-	-	-	0.2
PCB 1221	<0.0129	-	-	-	0.2
PCB 1232	<0.0129	-	-	-	0.2
PCB 1248	<0.0129	-	-	-	0.2
PCB 1260	<0.0129	-	-	-	0.2
PCB 1016	<0.0103	-	-	-	0.2
Toxaphene	<0.143	-	-	-	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)

1. 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
☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) 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	-	-	-	-	[Note 1]
[1] Vanadium may be present because it is naturally-occurring in fresh and salt waters.						

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:
   - 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 signature on 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): 10/21/2019 – 01/22/2020

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-5 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:** T-6 Correspondence on Number of Outfall Samples

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.: 003

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)	<2	-	<2	-
CBOD (5-day)	<2	-	<2	-
Chemical oxygen demand	17	19	-	-
Total organic carbon	average 10 mg/L, range 4-17 mg/L, n=12 (DMR data, January 2017 – February 2020)			
Dissolved oxygen	3.6	-	8.7	-
Ammonia nitrogen	<0.25	<0.25	-	-
Total suspended solids	<5	23	-	-
Nitrate nitrogen	<0.4	-	0.7	-
Total organic nitrogen	<0.432	-	-	-
Total phosphorus	0.08	0.1	-	-
Oil and grease	average 5 mg/L, range 5-5 mg/L, n=2 (DMR data, January 2017 – February 2020)			
Total residual chlorine	0	-	0.3	-
Total dissolved solids	97	146	-	-
Sulfate	3.62	7.23	-	-
Chloride	8.85	13.1	-	-
Fluoride	<0.4	<0.5	-	-
Total alkalinity (mg/L as $CaCO_3$)	56	77	-	-
Temperature (°F)	73	-	55.2	-
pH (standard units)	7.4	-	6.9	-

Table 2 for Outfall No.: 003

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)
Aluminum, total	355	872	-	-	2.5
Antimony, total	<0.4	<0.4	-	-	5
Arsenic, total	3	3.6	-	-	0.5
Barium, total	39.2	60.3	-	-	3
Beryllium, total	<0.4	<0.4	-	-	0.5
Cadmium, total	<0.4	<0.4	-	-	1
Chromium, total	0.8	1.6	<0.4	-	3
Chromium, hexavalent	<3.4	-	<3.4	-	3
Chromium, trivalent	0.8	-	<0.4	-	N/A

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Copper, total	2.2	4.3	-	-	2
Cyanide, available	<0.36	<1.49	-	-	2/10
Lead, total	0.5	1.7	-	-	0.5
Mercury, total	0.00251	0.0081	-	-	0.005/0.0005
Nickel, total	0.7	1.4	-	-	2
Selenium, total	<3.2	<3.2	-	-	5
Silver, total	<0.4	<0.4	-	-	0.5
Thallium, total	<0.4	<0.4	-	-	0.5
Zinc, total	average 167 µg/L, range 29-570 µg/L, n=12 (DMR data, January 2017 – February 2020)				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.: 003

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	<0.52	-	-	-	10
Benzene	<1	-	-	-	10
Benzidine	<0.98	-	-	-	50
Benzo(a)anthracene	<0.57	-	-	-	5
Benzo(a)pyrene	<1.27	-	-	-	5
Bis(2-chloroethyl)ether	<1.07	-	-	-	10
Bis(2-ethylhexyl)phthalate	<3.28	-	-	-	10
Bromodichloromethane [Dichlorobromomethane]	<1	-	-	-	10
Bromoform	<1	-	-	-	10
Carbon tetrachloride	<1	-	-	-	2
Chlorobenzene	<1	-	-	-	10
Chlorodibromomethane [Dibromochloromethane]	<1	-	-	-	10
Chloroform	<1	-	-	-	10
Chrysene	<0.85	-	-	-	5
m-Cresol [3-Methylphenol]	<1.97†	-	-	-	10
o-Cresol [2-Methylphenol]	<1.49	-	-	-	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
p-Cresol [4-Methylphenol]	1.97†	-	-	-	10
1,2-Dibromoethane	<1	-	-	-	10
m-Dichlorobenzene [1,3-Dichlorobenzene]	<0.79	-	-	-	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<0.61	-	-	-	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<0.37	-	-	-	10
3,3'-Dichlorobenzidine	<1.31	-	-	-	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	<0.79	-	-	-	10
Di-n-Butyl phthalate	<1.82	-	-	-	10
Ethylbenzene	<1	-	-	-	10
Fluoride	<400	<500	-	-	500
Hexachlorobenzene	<1.03	-	-	-	5
Hexachlorobutadiene	<0.61	-	-	-	10
Hexachlorocyclopentadiene	<2.06	-	-	-	10
Hexachloroethane	<0.07	-	-	-	20
Methyl ethyl ketone	<1	-	-	-	50
Nitrobenzene	<1.36	-	-	-	10
N-Nitrosodiethylamine	<7.45	-	-	-	20
N-Nitroso-di-n-butylamine	<7.45	-	-	-	20
Nonylphenol	<1.59	-	-	-	333
Pentachlorobenzene	<4.47	-	-	-	20
Pentachlorophenol	<0.75	-	-	-	5
Phenanthrene	<0.66	-	-	-	10
Polychlorinated biphenyls (PCBs) (**)	<0.0129	-	-	-	0.2
Pyridine	<0.52	-	-	-	20
1,2,4,5-Tetrachlorobenzene	<7.45	-	-	-	20
1,1,2,2-Tetrachloroethane	<1	-	-	-	10
Tetrachloroethene [Tetrachloroethylene]	<1	-	-	-	10
Toluene	<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
Trichloroethene [Trichloroethylene]	<1	-	-	-	10
2,4,5-Trichlorophenol	<1.27	-	-	-	50
TTHM (Total trihalomethanes)	<2	-	-	-	10
Vinyl chloride	<1	-	-	-	10

(*) 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 "<".

†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.

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
E. coli (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 [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [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.: 003
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	☐	☒	<0.4	-	-	-	400
Color (PCU)	☒	☐	-	-	10	-	—
Nitrate-Nitrite (as N)	☒	☐	<0.4	-	-	-	—
Sulfide (as S)	☐	☒	<0.05	-	-	-	—
Sulfite (as SO_3)	☐	☒	<1	-	-	-	—
Surfactants	☒	☐	<0.1	-	-	-	—
Boron, total	☒	☐	0.031	-	-	-	20
Cobalt, total	☒	☐	0.0002	-	-	-	0.3
Iron, total	☒	☐	0.365	-	-	-	7
Magnesium, total	☒	☐	1.47	-	-	-	20
Manganese, total	☒	☐	0.0209	-	-	-	0.5
Molybdenum, total	☒	☐	0.0022	-	-	-	1
Tin, total	☐	☒	<0.004	-	-	-	5
Titanium, total	☒	☐	0.0082	-	-	-	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
☐ Adhesives and Sealants		☐ Yes	☐ Yes	☐ Yes	No
☐ Aluminum Forming	467	☐ Yes	☐ Yes	☐ Yes	No
☐ Auto and Other Laundries		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Battery Manufacturing	461	☐ Yes	No	☐ Yes	No
☐ Coal Mining	434	No	No	No	No
☐ Coil Coating	465	☐ Yes	☐ Yes	☐ Yes	No
☐ Copper Forming	468	☐ Yes	☐ Yes	☐ Yes	No
☐ Electric and Electronic Components	469	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Electroplating	413	☐ Yes	☐ Yes	☐ Yes	No
☐ Explosives Manufacturing	457	No	☐ Yes	☐ Yes	No
☐ Foundries		☐ Yes	☐ Yes	☐ Yes	No
☐ Gum and Wood Chemicals - Subparts A,B,C,E	454	☐ Yes	☐ Yes	No	No
☐ Gum and Wood Chemicals - Subparts D,F	454	☐ Yes	☐ Yes	☐ Yes	No
☐ Inorganic Chemicals Manufacturing	415	☐ Yes	☐ Yes	☐ Yes	No
☐ Iron and Steel Manufacturing	420	☐ Yes	☐ Yes	☐ Yes	No
☐ Leather Tanning and Finishing	425	☐ Yes	☐ Yes	☐ Yes	No
☐ Mechanical Products Manufacturing		☐ Yes	☐ Yes	☐ Yes	No
☐ Nonferrous Metals Manufacturing	421,471	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Ore Mining - Subpart B	440	No	☐ Yes	No	No
☐ Organic Chemicals Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Paint and Ink Formulation	446,447	☐ Yes	☐ Yes	☐ Yes	No
☐ Pesticides	455	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Petroleum Refining	419	☐ Yes	No	No	No
☐ Pharmaceutical Preparations	439	☐ Yes	☐ Yes	☐ Yes	No
☐ Photographic Equipment and Supplies	459	☐ Yes	☐ Yes	☐ Yes	No
☐ Plastic and Synthetic Materials Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Plastic Processing	463	☐ Yes	No	No	No
☐ Porcelain Enameling	466	No	No	No	No
☐ Printing and Publishing		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Pulp and Paperboard Mills - Subpart C	430	☐ *	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subparts F, K	430	☐ *	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	☐ Yes	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts I, J, L	430	☐ Yes	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subpart E	430	☐ Yes	☐ Yes	☐ Yes	☐ *
☐ Rubber Processing	428	☐ Yes	☐ Yes	☐ Yes	No
☐ Soap and Detergent Manufacturing	417	☐ Yes	☐ Yes	☐ Yes	No
☐ Steam Electric Power Plants	423	☐ Yes	☐ Yes	No	No

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/Neutrals Table 10	Pesticides Table 11
☐ Textile Mills (Not Subpart C)	410	☐ Yes	☐ Yes	☐ Yes	No
☐ Timber Products Processing	429	☐ Yes	☐ Yes	☐ Yes	☐ 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.: 003 : 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.: 003 : 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	<0.75	-	-	-	10
2,4-Dichlorophenol	<1.03	-	-	-	10
2,4-Dimethylphenol	<0.79	-	-	-	10
4,6-Dinitro-o-cresol	<0.98	-	-	-	50
2,4-Dinitrophenol	<2.1	-	-	-	50
2-Nitrophenol	<1.31	-	-	-	20
4-Nitrophenol	<1.68	-	-	-	50
p-Chloro-m-cresol	<0.79	-	-	-	10
Pentachlorophenol	<0.75	-	-	-	5
Phenol	<0.66	-	-	-	10
2,4,6-Trichlorophenol	<1.18	-	-	-	10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: 003 : 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	<0.42	-	-	-	10
Acenaphthylene	<0.7	-	-	-	10
Anthracene	<0.52	-	-	-	10
Benzidine	<0.98	-	-	-	50
Benzo(a)anthracene	<0.57	-	-	-	5
Benzo(a)pyrene	<1.27	-	-	-	5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]	<0.85	-	-	-	10
Benzo(ghi)perylene	<0.94	-	-	-	20
Benzo(k)fluoranthene	<0.85	-	-	-	5
Bis(2-chloroethoxy)methane	<0.52	-	-	-	10
Bis(2-chloroethyl)ether	<1.07	-	-	-	10
Bis(2-chloroisopropyl)ether	<1.27	-	-	-	10
Bis(2-ethylhexyl)phthalate	<3.28	-	-	-	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	<0.61	-	-	-	10
Butylbenzyl phthalate	<1.03	-	-	-	10
2-Chloronaphthalene	<0.42	-	-	-	10
4-Chlorophenyl phenyl ether	<0.98	-	-	-	10
Chrysene	<0.85	-	-	-	5
Dibenzo(a,h)anthracene	<1.03	-	-	-	5
1,2-Dichlorobenzene [o-Dichlorobenzene]	<0.61	-	-	-	10
1,3-Dichlorobenzene [m-Dichlorobenzene]	<0.79	-	-	-	10
1,4-Dichlorobenzene [p-Dichlorobenzene]	<0.37	-	-	-	10
3,3'-Dichlorobenzidine	<1.31	-	-	-	5
Diethyl phthalate	<0.94	-	-	-	10
Dimethyl phthalate	<1.07	-	-	-	10
Di-n-butyl phthalate	<1.82	-	-	-	10
2,4-Dinitrotoluene	<1.45	-	-	-	10
2,6-Dinitrotoluene	<1.82	-	-	-	10
Di-n-octyl phthalate	<4.11	-	-	-	10
1,2-Diphenylhydrazine (as Azobenzene)	<0.33	-	-	-	20
Fluoranthene	<0.66	-	-	-	10
Fluorene	<0.7	-	-	-	10
Hexachlorobenzene	<1.03	-	-	-	5
Hexachlorobutadiene	<0.61	-	-	-	10
Hexachlorocyclopentadiene	<2.06	-	-	-	10
Hexachloroethane	<0.7	-	-	-	20
Indeno(1,2,3-cd)pyrene	<0.33	-	-	-	5
Isophorone	<0.42	-	-	-	10
Naphthalene	<0.46	-	-	-	10
Nitrobenzene	<1.36	-	-	-	10
N-Nitrosodimethylamine	<1.18	-	-	-	50
N-Nitrosodi-n-propylamine	<1.07	-	-	-	20
N-Nitrosodiphenylamine	<0.7	-	-	-	20
Phenanthrene	<0.66	-	-	-	10
Pyrene	<0.85	-	-	-	10
1,2,4-Trichlorobenzene	<0.79	-	-	-	10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: 003 : Pesticides
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	<0.004	-	-	-	0.01
alpha-BHC [alpha-Hexachlorocyclohexane]	<0.011	-	-	-	0.05
beta-BHC [beta-Hexachlorocyclohexane]	<0.014	-	-	-	0.05
gamma-BHC [gamma-Hexachlorocyclohexane]	<0.007	-	-	-	0.05
delta-BHC [delta-Hexachlorocyclohexane]	<0.006	-	-	-	0.05
Chlordane	<0.143	-	-	-	0.2
4,4'-DDT	<0.006	-	-	-	0.02
4,4'-DDE	<0.003	-	-	-	0.1
4,4'-DDD	<0.009	-	-	-	0.1
Dieldrin	<0.004	-	-	-	0.02
Endosulfan I (alpha)	<0.004	-	-	-	0.01
Endosulfan II (beta)	<0.006	-	-	-	0.02
Endosulfan sulfate	<0.004	-	-	-	0.1
Endrin	<0.006	-	-	-	0.02
Endrin aldehyde	<0.011	-	-	-	0.1
Heptachlor	<0.007	-	-	-	0.01
Heptachlor epoxide	<0.003	-	-	-	0.01
PCB 1242	<0.0129	-	-	-	0.2
PCB 1254	<0.0129	-	-	-	0.2
PCB 1221	<0.0129	-	-	-	0.2
PCB 1232	<0.0129	-	-	-	0.2
PCB 1248	<0.0129	-	-	-	0.2
PCB 1260	<0.0129	-	-	-	0.2
PCB 1016	<0.0103	-	-	-	0.2
Toxaphene	<0.143	-	-	-	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)

1. 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
☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) 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.: 003

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	-	-	-	-	[Note 1]
[1] Vanadium may be present because it is naturally-occurring in fresh and salt waters.						

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:
   - 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 signature on 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): 10/21/2019 – 01/22/2020

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-5 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:** T-6 Correspondence on Number of Outfall Samples

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.: 003A

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)	<2	-	<2	-
CBOD (5-day)	<2	-	<2	-
Chemical oxygen demand	31	29	-	-
Total organic carbon	average 10 mg/L, range 4-17 mg/L, n=12 (DMR data, January 2017 – February 2020)			
Dissolved oxygen	5.1	-	9.8	-
Ammonia nitrogen	<0.25	<0.25	-	-
Total suspended solids	10	50	-	-
Nitrate nitrogen	<0.4	-	<0.5	-
Total organic nitrogen	<0.432	-	-	-
Total phosphorus	0.23	0.17	-	-
Oil and grease	average 5 mg/L, range 5-5 mg/L, n=2 (DMR data, January 2017 – February 2020)			
Total residual chlorine	0.11	-	0.1	-
Total dissolved solids	111	121	-	-
Sulfate	4.01	6.63	-	-
Chloride	5.3	16.8	-	-
Fluoride	<0.4	<0.5	-	-
Total alkalinity (mg/L as $CaCO_3$)	48	59	-	-
Temperature (°F)	74	-	53.6	-
pH (standard units)	7.2	-	7.4	-

Table 2 for Outfall No.: 003A

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)
Aluminum, total	647	1370	-	-	2.5
Antimony, total	<0.4	<0.4	-	-	5
Arsenic, total	2.7	3.2	-	-	0.5
Barium, total	38.6	49.9	-	-	3
Beryllium, total	<0.4	<0.4	-	-	0.5
Cadmium, total	<0.4	<0.4	-	-	1
Chromium, total	1.1	2.1	2.7	-	3
Chromium, hexavalent	<3.4	-	<3.4	-	3
Chromium, trivalent	1.1	-	2.7	-	N/A

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Copper, total	3.9	4.6	-	-	2
Cyanide, available	<0.36	<1.49	-	-	2/10
Lead, total	1.7	3.2	-	-	0.5
Mercury, total	0.00451	0.0047	-	-	0.005/0.0005
Nickel, total	1.0	1.7	-	-	2
Selenium, total	<3.2	<3.2	-	-	5
Silver, total	<0.4	<0.4	-	-	0.5
Thallium, total	<0.4	<0.4	-	-	0.5
Zinc, total	average 167 µg/L, range 29-570 µg/L, n=12 (DMR data, January 2017 – February 2020)				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.: 003A

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	<0.35	-	-	-	10
Benzene	<1	-	-	-	10
Benzidine	<0.66	-	-	-	50
Benzo(a)anthracene	<0.38	-	-	-	5
Benzo(a)pyrene	<0.85	-	-	-	5
Bis(2-chloroethyl)ether	<0.72	-	-	-	10
Bis(2-ethylhexyl)phthalate	<2.2	-	-	-	10
Bromodichloromethane [Dichlorobromomethane]	<1	-	-	-	10
Bromoform	<1	-	-	-	10
Carbon tetrachloride	<1	-	-	-	2
Chlorobenzene	<1	-	-	-	10
Chlorodibromomethane [Dibromochloromethane]	<1	-	-	-	10
Chloroform	<1	-	-	-	10
Chrysene	<0.57	-	-	-	5
m-Cresol [3-Methylphenol]	<1.32†	-	-	-	10
o-Cresol [2-Methylphenol]	<1	-	-	-	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
p-Cresol [4-Methylphenol]	<1.32†	-	-	-	10
1,2-Dibromoethane	<1	-	-	-	10
m-Dichlorobenzene [1,3-Dichlorobenzene]	<0.53	-	-	-	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<0.41	-	-	-	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<0.25	-	-	-	10
3,3'-Dichlorobenzidine	<0.88	-	-	-	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	<0.53	-	-	-	10
Di-n-Butyl phthalate	<1.22	-	-	-	10
Ethylbenzene	<1	-	-	-	10
Fluoride	<400	<500	-	-	500
Hexachlorobenzene	<0.69	-	-	-	5
Hexachlorobutadiene	<0.41	-	-	-	10
Hexachlorocyclopentadiene	<1.38	-	-	-	10
Hexachloroethane	<0.47	-	-	-	20
Methyl ethyl ketone	<1	-	-	-	50
Nitrobenzene	<0.91	-	-	-	10
N-Nitrosodiethylamine	<5	-	-	-	20
N-Nitroso-di-n-butylamine	<5	-	-	-	20
Nonylphenol	<1.75	-	-	-	333
Pentachlorobenzene	<3	-	-	-	20
Pentachlorophenol	<0.5	-	-	-	5
Phenanthrene	<0.44	-	-	-	10
Polychlorinated biphenyls (PCBs) (**)	<0.0129	-	-	-	0.2
Pyridine	<0.35	-	-	-	20
1,2,4,5-Tetrachlorobenzene	<5	-	-	-	20
1,1,2,2-Tetrachloroethane	<1	-	-	-	10
Tetrachloroethene [Tetrachloroethylene]	<1	-	-	-	10
Toluene	<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
Trichloroethene [Trichloroethylene]	<1	-	-	-	10
2,4,5-Trichlorophenol	<0.85	-	-	-	50
TTHM (Total trihalomethanes)	<2	-	-	-	10
Vinyl chloride	<1	-	-	-	10

(*) 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 "<".

†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.

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
E. coli (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 [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [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.: 003A
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	☐	☒	<0.4	-	-	-	400
Color (PCU)	☒	☐	-	-	10	-	—
Nitrate-Nitrite (as N)	☒	☐	<0.4	-	-	-	—
Sulfide (as S)	☐	☒	<0.05	-	-	-	—
Sulfite (as SO_3)	☐	☒	<1	-	-	-	—
Surfactants	☒	☐	<0.1	-	-	-	—
Boron, total	☒	☐	0.022	-	-	-	20
Cobalt, total	☐	☒	<0.0002	-	-	-	0.3
Iron, total	☒	☐	0.379	-	-	-	7
Magnesium, total	☒	☐	1.71	-	-	-	20
Manganese, total	☒	☐	0.0088	-	-	-	0.5
Molybdenum, total	☒	☐	0.0028	-	-	-	1
Tin, total	☐	☒	<0.004	-	-	-	5
Titanium, total	☒	☐	0.025	-	-	-	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
☐ Adhesives and Sealants		☐ Yes	☐ Yes	☐ Yes	No
☐ Aluminum Forming	467	☐ Yes	☐ Yes	☐ Yes	No
☐ Auto and Other Laundries		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Battery Manufacturing	461	☐ Yes	No	☐ Yes	No
☐ Coal Mining	434	No	No	No	No
☐ Coil Coating	465	☐ Yes	☐ Yes	☐ Yes	No
☐ Copper Forming	468	☐ Yes	☐ Yes	☐ Yes	No
☐ Electric and Electronic Components	469	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Electroplating	413	☐ Yes	☐ Yes	☐ Yes	No
☐ Explosives Manufacturing	457	No	☐ Yes	☐ Yes	No
☐ Foundries		☐ Yes	☐ Yes	☐ Yes	No
☐ Gum and Wood Chemicals - Subparts A,B,C,E	454	☐ Yes	☐ Yes	No	No
☐ Gum and Wood Chemicals - Subparts D,F	454	☐ Yes	☐ Yes	☐ Yes	No
☐ Inorganic Chemicals Manufacturing	415	☐ Yes	☐ Yes	☐ Yes	No
☐ Iron and Steel Manufacturing	420	☐ Yes	☐ Yes	☐ Yes	No
☐ Leather Tanning and Finishing	425	☐ Yes	☐ Yes	☐ Yes	No
☐ Mechanical Products Manufacturing		☐ Yes	☐ Yes	☐ Yes	No
☐ Nonferrous Metals Manufacturing	421,471	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Ore Mining - Subpart B	440	No	☐ Yes	No	No
☐ Organic Chemicals Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Paint and Ink Formulation	446,447	☐ Yes	☐ Yes	☐ Yes	No
☐ Pesticides	455	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Petroleum Refining	419	☐ Yes	No	No	No
☐ Pharmaceutical Preparations	439	☐ Yes	☐ Yes	☐ Yes	No
☐ Photographic Equipment and Supplies	459	☐ Yes	☐ Yes	☐ Yes	No
☐ Plastic and Synthetic Materials Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Plastic Processing	463	☐ Yes	No	No	No
☐ Porcelain Enameling	466	No	No	No	No
☐ Printing and Publishing		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Pulp and Paperboard Mills - Subpart C	430	☐ *	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subparts F, K	430	☐ *	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	☐ Yes	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts I, J, L	430	☐ Yes	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subpart E	430	☐ Yes	☐ Yes	☐ Yes	☐ *
☐ Rubber Processing	428	☐ Yes	☐ Yes	☐ Yes	No
☐ Soap and Detergent Manufacturing	417	☐ Yes	☐ Yes	☐ Yes	No
☐ Steam Electric Power Plants	423	☐ Yes	☐ Yes	No	No

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/Neutrals Table 10	Pesticides Table 11
☐ Textile Mills (Not Subpart C)	410	☐ Yes	☐ Yes	☐ Yes	No
☐ Timber Products Processing	429	☐ Yes	☐ Yes	☐ Yes	☐ 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.: 003A : 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.: 003A : 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	<0.5	-	-	-	10
2,4-Dichlorophenol	<0.69	-	-	-	10
2,4-Dimethylphenol	<0.53	-	-	-	10
4,6-Dinitro-o-cresol	<0.66	-	-	-	50
2,4-Dinitrophenol	<1.41	-	-	-	50
2-Nitrophenol	<0.88	-	-	-	20
4-Nitrophenol	<1.13	-	-	-	50
p-Chloro-m-cresol	<0.53	-	-	-	10
Pentachlorophenol	<0.5	-	-	-	5
Phenol	<0.44	-	-	-	10
2,4,6-Trichlorophenol	<0.79	-	-	-	10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: 003A : 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	<0.28	-	-	-	10
Acenaphthylene	<0.47	-	-	-	10
Anthracene	<0.35	-	-	-	10
Benzidine	<0.66	-	-	-	50
Benzo(a)anthracene	<0.38	-	-	-	5
Benzo(a)pyrene	<0.85	-	-	-	5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]	<0.57	-	-	-	10
Benzo(ghi)perylene	<0.63	-	-	-	20
Benzo(k)fluoranthene	<0.57	-	-	-	5
Bis(2-chloroethoxy)methane	<0.35	-	-	-	10
Bis(2-chloroethyl)ether	<0.72	-	-	-	10
Bis(2-chloroisopropyl)ether	<0.85	-	-	-	10
Bis(2-ethylhexyl)phthalate	<2.2	-	-	-	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	<0.41	-	-	-	10
Butylbenzyl phthalate	<0.69	-	-	-	10
2-Chloronaphthalene	<0.28	-	-	-	10
4-Chlorophenyl phenyl ether	<0.66	-	-	-	10
Chrysene	<0.57	-	-	-	5
Dibenzo(a,h)anthracene	<0.69	-	-	-	5
1,2-Dichlorobenzene [o-Dichlorobenzene]	<0.41	-	-	-	10
1,3-Dichlorobenzene [m-Dichlorobenzene]	<0.53	-	-	-	10
1,4-Dichlorobenzene [p-Dichlorobenzene]	<0.25	-	-	-	10
3,3'-Dichlorobenzidine	<0.88	-	-	-	5
Diethyl phthalate	<0.63	-	-	-	10
Dimethyl phthalate	<0.72	-	-	-	10
Di-n-butyl phthalate	<1.22	-	-	-	10
2,4-Dinitrotoluene	<0.97	-	-	-	10
2,6-Dinitrotoluene	<1.22	-	-	-	10
Di-n-octyl phthalate	<2.76	-	-	-	10
1,2-Diphenylhydrazine (as Azobenzene)	<0.22	-	-	-	20
Fluoranthene	<0.44	-	-	-	10
Fluorene	<0.47	-	-	-	10
Hexachlorobenzene	<0.69	-	-	-	5
Hexachlorobutadiene	<0.41	-	-	-	10
Hexachlorocyclopentadiene	<1.38	-	-	-	10
Hexachloroethane	<0.47	-	-	-	20
Indeno(1,2,3-cd)pyrene	<0.22	-	-	-	5
Isophorone	<0.28	-	-	-	10
Naphthalene	<0.31	-	-	-	10
Nitrobenzene	<0.91	-	-	-	10
N-Nitrosodimethylamine	<0.79	-	-	-	50
N-Nitrosodi-n-propylamine	<0.72	-	-	-	20
N-Nitrosodiphenylamine	<0.47	-	-	-	20
Phenanthrene	<0.44	-	-	-	10
Pyrene	<0.57	-	-	-	10
1,2,4-Trichlorobenzene	<0.53	-	-	-	10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: 003A : Pesticides
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	<0.004	-	-	-	0.01
alpha-BHC [alpha-Hexachlorocyclohexane]	<0.011	-	-	-	0.05
beta-BHC [beta-Hexachlorocyclohexane]	<0.014	-	-	-	0.05
gamma-BHC [gamma-Hexachlorocyclohexane]	<0.007	-	-	-	0.05
delta-BHC [delta-Hexachlorocyclohexane]	<0.006	-	-	-	0.05
Chlordane	<0.139	-	-	-	0.2
4,4'-DDT	<0.006	-	-	-	0.02
4,4'-DDE	<0.003	-	-	-	0.1
4,4'-DDD	<0.008	-	-	-	0.1
Dieldrin	<0.004	-	-	-	0.02
Endosulfan I (alpha)	<0.004	-	-	-	0.01
Endosulfan II (beta)	<0.006	-	-	-	0.02
Endosulfan sulfate	<0.004	-	-	-	0.1
Endrin	<0.006	-	-	-	0.02
Endrin aldehyde	<0.011	-	-	-	0.1
Heptachlor	<0.007	-	-	-	0.01
Heptachlor epoxide	<0.003	-	-	-	0.01
PCB 1242	<0.0129	-	-	-	0.2
PCB 1254	<0.0129	-	-	-	0.2
PCB 1221	<0.0129	-	-	-	0.2
PCB 1232	<0.0129	-	-	-	0.2
PCB 1248	<0.0129	-	-	-	0.2
PCB 1260	<0.0129	-	-	-	0.2
PCB 1016	<0.0103	-	-	-	0.2
Toxaphene	<0.139	-	-	-	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)

1. 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
☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) 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.: 003A

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	-	-	-	-	[Note 1]
[1] Vanadium may be present because it is naturally-occurring in fresh and salt waters.						

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:
   - 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 signature on 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): 10/21/2019 – 01/22/2020

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-5 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:** T-6 Correspondence on Number of Outfall Samples

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.: 003B

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	-	<2	-
CBOD (5-day)	<2	-	<2	-
Chemical oxygen demand	34	58	-	-
Total organic carbon	average 10 mg/L, range 4-17 mg/L, n=12 (DMR data, January 2017 – February 2020)			
Dissolved oxygen	5.3	-	9.2	-
Ammonia nitrogen	<0.25	<0.25	-	-
Total suspended solids	11	172	-	-
Nitrate nitrogen	<0.4	-	0.81	-
Total organic nitrogen	<0.432	-	-	-
Total phosphorus	0.16	0.29	-	-
Oil and grease	average 5 mg/L, range 5-5 mg/L, n=2 (DMR data, January 2017 – February 2020)			
Total residual chlorine	0.02	-	0.4	-
Total dissolved solids	100	165	-	-
Sulfate	5.19	12.1	-	-
Chloride	6.19	16.7	-	-
Fluoride	<0.4	<0.5	-	-
Total alkalinity (mg/L as $CaCO_3$)	38	41	-	-
Temperature (°F)	74	-	55.9	-
pH (standard units)	7.1	-	7.1	-

Table 2 for Outfall No.: 003B

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)
Aluminum, total	1480	2820	-	-	2.5
Antimony, total	<0.4	<0.4	-	-	5
Arsenic, total	2.9	2.1	-	-	0.5
Barium, total	29.8	48.2	-	-	3
Beryllium, total	<0.4	<0.4	-	-	0.5
Cadmium, total	<0.4	<0.4	-	-	1
Chromium, total	1.7	3.2	7.1	-	3
Chromium, hexavalent	<3.4	-	<3.4	-	3
Chromium, trivalent	1.7	-	7.1	-	N/A

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Copper, total	3.2	4.6	-	-	2
Cyanide, available	5.32	<1.49	-	-	2/10
Lead, total	1.6	2.1	-	-	0.5
Mercury, total	0.00451	0.00885	-	-	0.005/0.0005
Nickel, total	1.1	1.9	-	-	2
Selenium, total	<3.2	<3.2	-	-	5
Silver, total	<0.4	<0.4	-	-	0.5
Thallium, total	<0.4	<0.4	-	-	0.5
Zinc, total	average 167 µg/L, range 29-570 µg/L, n=12 (DMR data, January 2017 – February 2020)				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.: 003B

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	<0.35	-	-	-	10
Benzene	<1	-	-	-	10
Benzidine	<0.66	-	-	-	50
Benzo(a)anthracene	<0.38	-	-	-	5
Benzo(a)pyrene	<0.85	-	-	-	5
Bis(2-chloroethyl)ether	<0.72	-	-	-	10
Bis(2-ethylhexyl)phthalate	<2.2	-	-	-	10
Bromodichloromethane [Dichlorobromomethane]	<1	-	-	-	10
Bromoform	<1	-	-	-	10
Carbon tetrachloride	<1	-	-	-	2
Chlorobenzene	<1	-	-	-	10
Chlorodibromomethane [Dibromochloromethane]	<1	-	-	-	10
Chloroform	<1	-	-	-	10
Chrysene	<0.57	-	-	-	5
m-Cresol [3-Methylphenol]	<1.32†	-	-	-	10
o-Cresol [2-Methylphenol]	<1	-	-	-	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
p-Cresol [4-Methylphenol]	<1.32†	-	-	-	10
1,2-Dibromoethane	<1	-	-	-	10
m-Dichlorobenzene [1,3-Dichlorobenzene]	<0.53	-	-	-	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<0.41	-	-	-	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<0.25	-	-	-	10
3,3'-Dichlorobenzidine	<0.88	-	-	-	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	<0.53	-	-	-	10
Di-n-Butyl phthalate	<1.22	-	-	-	10
Ethylbenzene	<1	-	-	-	10
Fluoride	<400	<500	-	-	500
Hexachlorobenzene	<0.69	-	-	-	5
Hexachlorobutadiene	<0.41	-	-	-	10
Hexachlorocyclopentadiene	<1.38	-	-	-	10
Hexachloroethane	<0.47	-	-	-	20
Methyl ethyl ketone	<1	-	-	-	50
Nitrobenzene	<0.91	-	-	-	10
N-Nitrosodiethylamine	<5	-	-	-	20
N-Nitroso-di-n-butylamine	<5	-	-	-	20
Nonylphenol	<1.19	-	-	-	333
Pentachlorobenzene	<3	-	-	-	20
Pentachlorophenol	<0.5	-	-	-	5
Phenanthrene	<0.44	-	-	-	10
Polychlorinated biphenyls (PCBs) (**)	<0.0129	-	-	-	0.2
Pyridine	<0.35	-	-	-	20
1,2,4,5-Tetrachlorobenzene	<5	-	-	-	20
1,1,2,2-Tetrachloroethane	<1	-	-	-	10
Tetrachloroethene [Tetrachloroethylene]	<1	-	-	-	10
Toluene	<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
Trichloroethene [Trichloroethylene]	<1	-	-	-	10
2,4,5-Trichlorophenol	<0.85	-	-	-	50
TTHM (Total trihalomethanes)	<2	-	-	-	10
Vinyl chloride	<1	-	-	-	10

(*) 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 "<".

†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.

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
E. coli (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 [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [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.: 003B
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	☐	☒	<0.4	-	-	-	400
Color (PCU)	☒	☐	-	-	25	-	—
Nitrate-Nitrite (as N)	☒	☐	<0.4	-	-	-	—
Sulfide (as S)	☐	☒	<0.05	-	-	-	—
Sulfite (as SO_3)	☐	☒	<1	-	-	-	—
Surfactants	☒	☐	0.0373	-	-	-	—
Boron, total	☒	☐	0.025	-	-	-	20
Cobalt, total	☐	☒	<0.0002	-	-	-	0.3
Iron, total	☒	☐	0.557	-	-	-	7
Magnesium, total	☒	☐	1.44	-	-	-	20
Manganese, total	☒	☐	0.0098	-	-	-	0.5
Molybdenum, total	☒	☐	0.0028	-	-	-	1
Tin, total	☐	☒	<0.004	-	-	-	5
Titanium, total	☒	☐	0.0495	-	-	-	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
☐ Adhesives and Sealants		☐ Yes	☐ Yes	☐ Yes	No
☐ Aluminum Forming	467	☐ Yes	☐ Yes	☐ Yes	No
☐ Auto and Other Laundries		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Battery Manufacturing	461	☐ Yes	No	☐ Yes	No
☐ Coal Mining	434	No	No	No	No
☐ Coil Coating	465	☐ Yes	☐ Yes	☐ Yes	No
☐ Copper Forming	468	☐ Yes	☐ Yes	☐ Yes	No
☐ Electric and Electronic Components	469	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Electroplating	413	☐ Yes	☐ Yes	☐ Yes	No
☐ Explosives Manufacturing	457	No	☐ Yes	☐ Yes	No
☐ Foundries		☐ Yes	☐ Yes	☐ Yes	No
☐ Gum and Wood Chemicals - Subparts A,B,C,E	454	☐ Yes	☐ Yes	No	No
☐ Gum and Wood Chemicals - Subparts D,F	454	☐ Yes	☐ Yes	☐ Yes	No
☐ Inorganic Chemicals Manufacturing	415	☐ Yes	☐ Yes	☐ Yes	No
☐ Iron and Steel Manufacturing	420	☐ Yes	☐ Yes	☐ Yes	No
☐ Leather Tanning and Finishing	425	☐ Yes	☐ Yes	☐ Yes	No
☐ Mechanical Products Manufacturing		☐ Yes	☐ Yes	☐ Yes	No
☐ Nonferrous Metals Manufacturing	421,471	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Ore Mining - Subpart B	440	No	☐ Yes	No	No
☐ Organic Chemicals Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Paint and Ink Formulation	446,447	☐ Yes	☐ Yes	☐ Yes	No
☐ Pesticides	455	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Petroleum Refining	419	☐ Yes	No	No	No
☐ Pharmaceutical Preparations	439	☐ Yes	☐ Yes	☐ Yes	No
☐ Photographic Equipment and Supplies	459	☐ Yes	☐ Yes	☐ Yes	No
☐ Plastic and Synthetic Materials Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Plastic Processing	463	☐ Yes	No	No	No
☐ Porcelain Enameling	466	No	No	No	No
☐ Printing and Publishing		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Pulp and Paperboard Mills - Subpart C	430	☐ *	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subparts F, K	430	☐ *	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	☐ Yes	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts I, J, L	430	☐ Yes	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subpart E	430	☐ Yes	☐ Yes	☐ Yes	☐ *
☐ Rubber Processing	428	☐ Yes	☐ Yes	☐ Yes	No
☐ Soap and Detergent Manufacturing	417	☐ Yes	☐ Yes	☐ Yes	No
☐ Steam Electric Power Plants	423	☐ Yes	☐ Yes	No	No

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/Neutrals Table 10	Pesticides Table 11
☐ Textile Mills (Not Subpart C)	410	☐ Yes	☐ Yes	☐ Yes	No
☐ Timber Products Processing	429	☐ Yes	☐ Yes	☐ Yes	☐ 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.: 003B : 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.: 003B : 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	<0.5	-	-	-	10
2,4-Dichlorophenol	<0.69	-	-	-	10
2,4-Dimethylphenol	<0.53	-	-	-	10
4,6-Dinitro-o-cresol	<0.66	-	-	-	50
2,4-Dinitrophenol	<1.41	-	-	-	50
2-Nitrophenol	<0.88	-	-	-	20
4-Nitrophenol	<1.13	-	-	-	50
p-Chloro-m-cresol	<0.53	-	-	-	10
Pentachlorophenol	<0.5	-	-	-	5
Phenol	<0.44	-	-	-	10
2,4,6-Trichlorophenol	<0.79	-	-	-	10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: 003B : 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	<0.28	-	-	-	10
Acenaphthylene	<0.47	-	-	-	10
Anthracene	<0.35	-	-	-	10
Benzidine	<0.66	-	-	-	50
Benzo(a)anthracene	<0.38	-	-	-	5
Benzo(a)pyrene	<0.85	-	-	-	5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]	<0.57	-	-	-	10
Benzo(ghi)perylene	<0.63	-	-	-	20
Benzo(k)fluoranthene	<0.57	-	-	-	5
Bis(2-chloroethoxy)methane	<0.35	-	-	-	10
Bis(2-chloroethyl)ether	<0.72	-	-	-	10
Bis(2-chloroisopropyl)ether	<0.85	-	-	-	10
Bis(2-ethylhexyl)phthalate	<2.2	-	-	-	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	<0.41	-	-	-	10
Butylbenzyl phthalate	<0.69	-	-	-	10
2-Chloronaphthalene	<0.28	-	-	-	10
4-Chlorophenyl phenyl ether	<0.66	-	-	-	10
Chrysene	<0.57	-	-	-	5
Dibenzo(a,h)anthracene	<0.69	-	-	-	5
1,2-Dichlorobenzene [o-Dichlorobenzene]	<0.41	-	-	-	10
1,3-Dichlorobenzene [m-Dichlorobenzene]	<0.53	-	-	-	10
1,4-Dichlorobenzene [p-Dichlorobenzene]	<0.25	-	-	-	10
3,3'-Dichlorobenzidine	<0.88	-	-	-	5
Diethyl phthalate	<0.63	-	-	-	10
Dimethyl phthalate	<0.72	-	-	-	10
Di-n-butyl phthalate	<1.22	-	-	-	10
2,4-Dinitrotoluene	<0.97	-	-	-	10
2,6-Dinitrotoluene	<1.22	-	-	-	10
Di-n-octyl phthalate	<2.76	-	-	-	10
1,2-Diphenylhydrazine (as Azobenzene)	<0.22	-	-	-	20
Fluoranthene	<0.44	-	-	-	10
Fluorene	<0.47	-	-	-	10
Hexachlorobenzene	<0.69	-	-	-	5
Hexachlorobutadiene	<0.41	-	-	-	10
Hexachlorocyclopentadiene	<1.38	-	-	-	10
Hexachloroethane	<0.47	-	-	-	20
Indeno(1,2,3-cd)pyrene	<0.22	-	-	-	5
Isophorone	<0.28	-	-	-	10
Naphthalene	<0.31	-	-	-	10
Nitrobenzene	<0.91	-	-	-	10
N-Nitrosodimethylamine	<0.79	-	-	-	50
N-Nitrosodi-n-propylamine	<0.72	-	-	-	20
N-Nitrosodiphenylamine	<0.47	-	-	-	20
Phenanthrene	<0.44	-	-	-	10
Pyrene	<0.57	-	-	-	10
1,2,4-Trichlorobenzene	<0.53	-	-	-	10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: 003B : Pesticides
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	<0.004	-	-	-	0.01
alpha-BHC [alpha-Hexachlorocyclohexane]	<0.011	-	-	-	0.05
beta-BHC [beta-Hexachlorocyclohexane]	<0.014	-	-	-	0.05
gamma-BHC [gamma-Hexachlorocyclohexane]	<0.007	-	-	-	0.05
delta-BHC [delta-Hexachlorocyclohexane]	<0.005	-	-	-	0.05
Chlordane	<0.135	-	-	-	0.2
4,4'-DDT	<0.005	-	-	-	0.02
4,4'-DDE	<0.003	-	-	-	0.1
4,4'-DDD	<0.008	-	-	-	0.1
Dieldrin	<0.004	-	-	-	0.02
Endosulfan I (alpha)	<0.004	-	-	-	0.01
Endosulfan II (beta)	<0.005	-	-	-	0.02
Endosulfan sulfate	<0.004	-	-	-	0.1
Endrin	<0.005	-	-	-	0.02
Endrin aldehyde	<0.011	-	-	-	0.1
Heptachlor	<0.007	-	-	-	0.01
Heptachlor epoxide	<0.003	-	-	-	0.01
PCB 1242	<0.0129	-	-	-	0.2
PCB 1254	<0.0129	-	-	-	0.2
PCB 1221	<0.0129	-	-	-	0.2
PCB 1232	<0.0129	-	-	-	0.2
PCB 1248	<0.0129	-	-	-	0.2
PCB 1260	<0.0129	-	-	-	0.2
PCB 1016	<0.0103	-	-	-	0.2
Toxaphene	<0.135	-	-	-	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)

1. 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
☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) 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.: 003B

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	-	-	-	-	[Note 1]
[1] Vanadium may be present because it is naturally-occurring in fresh and salt waters.						

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:
   - 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 signature on 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): 10/21/2019 – 01/22/2020

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-5 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:** T-6 Correspondence on Number of Outfall Samples

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.: 003C

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)	<2	-	<2	-
CBOD (5-day)	<2	-	<2	-
Chemical oxygen demand	28	41	-	-
Total organic carbon	average 10 mg/L, range 4-17 mg/L, n=12 (DMR data, January 2017 – February 2020)			
Dissolved oxygen	6.6	-	9.9	-
Ammonia nitrogen	<0.25	<0.25	-	-
Total suspended solids	44	167	-	-
Nitrate nitrogen	<0.4	-	<0.5	-
Total organic nitrogen	<0.432	-	-	-
Total phosphorus	2.01	0.29	-	-
Oil and grease	average 5 mg/L, range 5-5 mg/L, n=2 (DMR data, January 2017 – February 2020)			
Total residual chlorine	0.73	-	0	-
Total dissolved solids	88	89	-	-
Sulfate	7.26	16.2	-	-
Chloride	4.49	10.3	-	-
Fluoride	<0.4	<0.5	-	-
Total alkalinity (mg/L as $CaCO_3$)	79	93	-	-
Temperature (°F)	73	-	57.2	-
pH (standard units)	7.2	-	7.3	-

Table 2 for Outfall No.: 003C

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)
Aluminum, total	2900	2940	-	-	2.5
Antimony, total	<0.4	<0.4	-	-	5
Arsenic, total	4.3	3.6	-	-	0.5
Barium, total	45.8	67.3	-	-	3
Beryllium, total	<0.4	<0.4	-	-	0.5
Cadmium, total	<0.4	<0.4	-	-	1
Chromium, total	9.7	12.8	0.4	-	3
Chromium, hexavalent	<3.4	-	<3.4	-	3
Chromium, trivalent	9.7	-	0.4	-	N/A

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Copper, total	7.3	9.3	-	-	2
Cyanide, available	<0.36	<1.49	-	-	2/10
Lead, total	2.8	5	-	-	0.5
Mercury, total	0.0116	0.0139	-	-	0.005/0.0005
Nickel, total	4.5	4	-	-	2
Selenium, total	<3.2	<3.2	-	-	5
Silver, total	<0.4	<0.4	-	-	0.5
Thallium, total	<0.4	<0.4	-	-	0.5
Zinc, total	average 167 µg/L, range 29-570 µg/L, n=12 (DMR data, January 2017 – February 2020)				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.: 003C

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	<0.37	-	-	-	10
Benzene	<1	-	-	-	10
Benzidine	<0.69	-	-	-	50
Benzo(a)anthracene	<0.4	-	-	-	5
Benzo(a)pyrene	<0.89	-	-	-	5
Bis(2-chloroethyl)ether	<0.76	-	-	-	10
Bis(2-ethylhexyl)phthalate	<2.31	-	-	-	10
Bromodichloromethane [Dichlorobromomethane]	<1	-	-	-	10
Bromoform	<1	-	-	-	10
Carbon tetrachloride	<1	-	-	-	2
Chlorobenzene	<1	-	-	-	10
Chlorodibromomethane [Dibromochloromethane]	<1	-	-	-	10
Chloroform	3.586	-	-	-	10
Chrysene	<0.6	-	-	-	5
m-Cresol [3-Methylphenol]	<1.39†	-	-	-	10
o-Cresol [2-Methylphenol]	<1.05	-	-	-	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
p-Cresol [4-Methylphenol]	<1.39†	-	-	-	10
1,2-Dibromoethane	<1	-	-	-	10
m-Dichlorobenzene [1,3-Dichlorobenzene]	<0.56	-	-	-	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<0.43	-	-	-	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<0.26	-	-	-	10
3,3'-Dichlorobenzidine	<0.92	-	-	-	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	<0.56	-	-	-	10
Di-n-Butyl phthalate	<1.28	-	-	-	10
Ethylbenzene	<1	-	-	-	10
Fluoride	<400	<500	-	-	500
Hexachlorobenzene	<0.72	-	-	-	5
Hexachlorobutadiene	<0.43	-	-	-	10
Hexachlorocyclopentadiene	<1.45	-	-	-	10
Hexachloroethane	<0.49	-	-	-	20
Methyl ethyl ketone	<1	-	-	-	50
Nitrobenzene	<0.96	-	-	-	10
N-Nitrosodiethylamine	<5.25	-	-	-	20
N-Nitroso-di-n-butylamine	<5.25	-	-	-	20
Nonylphenol	<1.76	-	-	-	333
Pentachlorobenzene	<3.15	-	-	-	20
Pentachlorophenol	<0.53	-	-	-	5
Phenanthrene	<0.46	-	-	-	10
Polychlorinated biphenyls (PCBs) (**)	<0.0129	-	-	-	0.2
Pyridine	<0.37	-	-	-	20
1,2,4,5-Tetrachlorobenzene	<5.25	-	-	-	20
1,1,2,2-Tetrachloroethane	<1	-	-	-	10
Tetrachloroethene [Tetrachloroethylene]	<1	-	-	-	10
Toluene	<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
Trichloroethene [Trichloroethylene]	<1	-	-	-	10
2,4,5-Trichlorophenol	<0.89	-	-	-	50
TTHM (Total trihalomethanes)	3.59	-	-	-	10
Vinyl chloride	<1	-	-	-	10

(*) 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 "<".

†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.

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
E. coli (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 [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [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.: 003C
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	☐	☒	<0.4	-	-	-	400
Color (PCU)	☒	☐	-	-	30	-	—
Nitrate-Nitrite (as N)	☒	☐	<0.4	-	-	-	—
Sulfide (as S)	☒	☐	0.08	-	-	-	—
Sulfite (as SO_3)	☐	☒	<1	-	-	-	—
Surfactants	☒	☐	-	-	0.0555	-	—
Boron, total	☒	☐	0.023	-	-	-	20
Cobalt, total	☒	☐	0.0008	-	-	-	0.3
Iron, total	☒	☐	1.94	-	-	-	7
Magnesium, total	☒	☐	1.55	-	-	-	20
Manganese, total	☒	☐	0.0567	-	-	-	0.5
Molybdenum, total	☒	☐	0.0036	-	-	-	1
Tin, total	☐	☒	<0.004	-	-	-	5
Titanium, total	☒	☐	0.113	-	-	-	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
☐ Adhesives and Sealants		☐ Yes	☐ Yes	☐ Yes	No
☐ Aluminum Forming	467	☐ Yes	☐ Yes	☐ Yes	No
☐ Auto and Other Laundries		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Battery Manufacturing	461	☐ Yes	No	☐ Yes	No
☐ Coal Mining	434	No	No	No	No
☐ Coil Coating	465	☐ Yes	☐ Yes	☐ Yes	No
☐ Copper Forming	468	☐ Yes	☐ Yes	☐ Yes	No
☐ Electric and Electronic Components	469	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Electroplating	413	☐ Yes	☐ Yes	☐ Yes	No
☐ Explosives Manufacturing	457	No	☐ Yes	☐ Yes	No
☐ Foundries		☐ Yes	☐ Yes	☐ Yes	No
☐ Gum and Wood Chemicals - Subparts A,B,C,E	454	☐ Yes	☐ Yes	No	No
☐ Gum and Wood Chemicals - Subparts D,F	454	☐ Yes	☐ Yes	☐ Yes	No
☐ Inorganic Chemicals Manufacturing	415	☐ Yes	☐ Yes	☐ Yes	No
☐ Iron and Steel Manufacturing	420	☐ Yes	☐ Yes	☐ Yes	No
☐ Leather Tanning and Finishing	425	☐ Yes	☐ Yes	☐ Yes	No
☐ Mechanical Products Manufacturing		☐ Yes	☐ Yes	☐ Yes	No
☐ Nonferrous Metals Manufacturing	421,471	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Ore Mining - Subpart B	440	No	☐ Yes	No	No
☐ Organic Chemicals Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Paint and Ink Formulation	446,447	☐ Yes	☐ Yes	☐ Yes	No
☐ Pesticides	455	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Petroleum Refining	419	☐ Yes	No	No	No
☐ Pharmaceutical Preparations	439	☐ Yes	☐ Yes	☐ Yes	No
☐ Photographic Equipment and Supplies	459	☐ Yes	☐ Yes	☐ Yes	No
☐ Plastic and Synthetic Materials Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Plastic Processing	463	☐ Yes	No	No	No
☐ Porcelain Enameling	466	No	No	No	No
☐ Printing and Publishing		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Pulp and Paperboard Mills - Subpart C	430	☐ *	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subparts F, K	430	☐ *	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	☐ Yes	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts I, J, L	430	☐ Yes	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subpart E	430	☐ Yes	☐ Yes	☐ Yes	☐ *
☐ Rubber Processing	428	☐ Yes	☐ Yes	☐ Yes	No
☐ Soap and Detergent Manufacturing	417	☐ Yes	☐ Yes	☐ Yes	No
☐ Steam Electric Power Plants	423	☐ Yes	☐ Yes	No	No

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/Neutrals Table 10	Pesticides Table 11
☐ Textile Mills (Not Subpart C)	410	☐ Yes	☐ Yes	☐ Yes	No
☐ Timber Products Processing	429	☐ Yes	☐ Yes	☐ Yes	☐ 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.: 003C : 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	3.586	-	-	-	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.: 003C : 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	<0.53	-	-	-	10
2,4-Dichlorophenol	<0.72	-	-	-	10
2,4-Dimethylphenol	<0.56	-	-	-	10
4,6-Dinitro-o-cresol	<0.69	-	-	-	50
2,4-Dinitrophenol	<1.48	-	-	-	50
2-Nitrophenol	<0.92	-	-	-	20
4-Nitrophenol	<1.19	-	-	-	50
p-Chloro-m-cresol	<0.56	-	-	-	10
Pentachlorophenol	<0.53	-	-	-	5
Phenol	<0.46	-	-	-	10
2,4,6-Trichlorophenol	<0.83	-	-	-	10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: 003C : 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	<0.29	-	-	-	10
Acenaphthylene	<0.49	-	-	-	10
Anthracene	<0.37	-	-	-	10
Benzidine	<0.69	-	-	-	50
Benzo(a)anthracene	<0.4	-	-	-	5
Benzo(a)pyrene	<0.89	-	-	-	5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]	<0.6	-	-	-	10
Benzo(ghi)perylene	<0.66	-	-	-	20
Benzo(k)fluoranthene	<0.6	-	-	-	5
Bis(2-chloroethoxy)methane	<0.37	-	-	-	10
Bis(2-chloroethyl)ether	<0.76	-	-	-	10
Bis(2-chloroisopropyl)ether	<0.89	-	-	-	10
Bis(2-ethylhexyl)phthalate	<2.31	-	-	-	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	<0.43	-	-	-	10
Butylbenzyl phthalate	<0.72	-	-	-	10
2-Chloronaphthalene	<0.29	-	-	-	10
4-Chlorophenyl phenyl ether	<0.69	-	-	-	10
Chrysene	<0.6	-	-	-	5
Dibenzo(a,h)anthracene	<0.72	-	-	-	5
1,2-Dichlorobenzene [o-Dichlorobenzene]	<0.43	-	-	-	10
1,3-Dichlorobenzene [m-Dichlorobenzene]	<0.56	-	-	-	10
1,4-Dichlorobenzene [p-Dichlorobenzene]	<0.26	-	-	-	10
3,3'-Dichlorobenzidine	<0.92	-	-	-	5
Diethyl phthalate	<0.66	-	-	-	10
Dimethyl phthalate	<0.76	-	-	-	10
Di-n-butyl phthalate	<1.28	-	-	-	10
2,4-Dinitrotoluene	<1.02	-	-	-	10
2,6-Dinitrotoluene	<1.28	-	-	-	10
Di-n-octyl phthalate	<2.9	-	-	-	10
1,2-Diphenylhydrazine (as Azobenzene)	<0.23	-	-	-	20
Fluoranthene	<0.46	-	-	-	10
Fluorene	<0.49	-	-	-	10
Hexachlorobenzene	<0.72	-	-	-	5
Hexachlorobutadiene	<0.43	-	-	-	10
Hexachlorocyclopentadiene	<1.45	-	-	-	10
Hexachloroethane	<0.49	-	-	-	20
Indeno(1,2,3-cd)pyrene	<0.23	-	-	-	5
Isophorone	<0.29	-	-	-	10
Naphthalene	<0.33	-	-	-	10
Nitrobenzene	<0.96	-	-	-	10
N-Nitrosodimethylamine	<0.83	-	-	-	50
N-Nitrosodi-n-propylamine	<0.76	-	-	-	20
N-Nitrosodiphenylamine	<0.49	-	-	-	20
Phenanthrene	<0.46	-	-	-	10
Pyrene	<0.6	-	-	-	10
1,2,4-Trichlorobenzene	<0.56	-	-	-	10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: 003C : Pesticides
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	<0.003	-	-	-	0.01
alpha-BHC [alpha-Hexachlorocyclohexane]	<0.009	-	-	-	0.05
beta-BHC [beta-Hexachlorocyclohexane]	<0.011	-	-	-	0.05
gamma-BHC [gamma-Hexachlorocyclohexane]	<0.005	-	-	-	0.05
delta-BHC [delta-Hexachlorocyclohexane]	<0.004	-	-	-	0.05
Chlordane	<0.108	-	-	-	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	<0.009	-	-	-	0.1
Heptachlor	<0.005	-	-	-	0.01
Heptachlor epoxide	<0.002	-	-	-	0.01
PCB 1242	<0.0129	-	-	-	0.2
PCB 1254	<0.0129	-	-	-	0.2
PCB 1221	<0.0129	-	-	-	0.2
PCB 1232	<0.0129	-	-	-	0.2
PCB 1248	<0.0129	-	-	-	0.2
PCB 1260	<0.0129	-	-	-	0.2
PCB 1016	<0.0103	-	-	-	0.2
Toxaphene	<0.108	-	-	-	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)

1. 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
☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) 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.: 003C

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	-	-	-	-	[Note 1]
[1] Vanadium may be present because it is naturally-occurring in fresh and salt waters.						

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:
   - 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 signature on 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): 09/25/2019 – 07/01/2020

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-5 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:** T-6 Correspondence on Number of Outfall Samples

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.: 004

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)	<2	29	<2	Sample 4 <2	Sample 5 <2
CBOD (5-day)	<2	30	-	-	
Chemical oxygen demand	42	66	-	-	
Total organic carbon	average 17 mg/L, range 5-44 mg/L, n=12 (DMR data, January 2017 – February 2020)				
Dissolved oxygen	6.1	5.4	-	-	
Ammonia nitrogen	<0.25	0.79	-	-	
Total suspended solids	<5	13	-	-	
Nitrate nitrogen	0.14	1.66	-	-	
Total organic nitrogen	0.729	0.8	-	-	
Total phosphorus	1.32	2.89	-	-	
Oil and grease	average 5 mg/L, range 5-5 mg/L, n=12 (DMR data, January 2017 – February 2020)				
Total residual chlorine	0.05	0.09	-	-	
Total dissolved solids	608	1100	140	Sample 4 117	Sample 5 101
Sulfate	240	510	-	-	
Chloride	30.5	53.2	-	-	
Fluoride	<0.4	<0.4	-	-	
Total alkalinity (mg/L as $CaCO_3$)	141	104	-	-	
Temperature (°F)	81	70	-	-	
pH (standard units)	7.7	7.3	-	-	

Table 2 for Outfall No.: 004

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)
Aluminum, total	209	95.3	-	-	2.5
Antimony, total	0.6	0.8	-	-	5
Arsenic, total	10.6	5.7	-	-	0.5
Barium, total	95.9	92.7	-	-	3
Beryllium, total	<0.4	<0.4	-	-	0.5
Cadmium, total	<0.4	<0.4	-	-	1
Chromium, total	1.8	4.1	-	-	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	-	-		3
Chromium, trivalent	1.8	4.1	-	-		N/A
Copper, total	7.4	50.9	3.3	Sample 4 3.5	Sample 5 4.2	2
Cyanide, available	0.894 [CN-avail]	16.9 [avail] 15.6 [free]	<1.49 [avail] <0.785 [free]	<1.49 [avail] <0.785 [free]		2/10
Lead, total	0.7	0.6	-	-		0.5
Mercury, total	0.00937	0.00857	-	-		0.005/0.0005
Nickel, total	3.1	10.2	-	-		2
Selenium, total	<3.2	<3.2	-	-		5
Silver, total	<0.4	<0.4	-	-		0.5
Thallium, total	<0.4	<0.4	-	-		0.5
Zinc, total	average 289 µg/L, range 20-680 µg/L, n=12 (DMR data, January 2017 – February 2020)					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.: 004

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	<0.53	-	-	-	10
Benzene	<1	-	-	-	10
Benzidine	<1	-	-	-	50
Benzo(a)anthracene	<0.58	-	-	-	5
Benzo(a)pyrene	<1.29	-	-	-	5
Bis(2-chloroethyl)ether	<1.09	-	-	-	10
Bis(2-ethylhexyl)phthalate	<3.34	-	-	-	10
Bromodichloromethane [Dichlorobromomethane]	<1	-	-	-	10
Bromoform	<1	-	-	-	10
Carbon tetrachloride	<1	-	-	-	2
Chlorobenzene	<1	-	-	-	10
Chlorodibromomethane [Dibromochloromethane]	<1	-	-	-	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Chloroform	<1	-	-	-	10
Chrysene	<0.87	-	-	-	5
m-Cresol [3-Methylphenol]	<2.01†	-	-	-	10
o-Cresol [2-Methylphenol]	<3.04	-	-	-	10
p-Cresol [4-Methylphenol]	<2.01†	-	-	-	10
1,2-Dibromoethane	<1	-	-	-	10
m-Dichlorobenzene [1,3-Dichlorobenzene]	<0.81	-	-	-	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<0.62	-	-	-	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<0.38	-	-	-	10
3,3'-Dichlorobenzidine	<1.34	-	-	-	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	<0.81	-	-	-	10
Di-n-Butyl phthalate	<1.85	-	-	-	10
Ethylbenzene	<1	-	-	-	10
Fluoride	<400	<400	-	-	500
Hexachlorobenzene	<1.05	-	-	-	5
Hexachlorobutadiene	<0.62	-	-	-	10
Hexachlorocyclopentadiene	<2.1	-	-	-	10
Hexachloroethane	<0.71	-	-	-	20
Methyl ethyl ketone	<1	-	-	-	50
Nitrobenzene	<1.38	-	-	-	10
N-Nitrosodiethylamine	<7.6	-	-	-	20
N-Nitroso-di-n-butylamine	<7.6	-	-	-	20
Nonylphenol	<1.72	-	-	-	333
Pentachlorobenzene	<4.56	-	-	-	20
Pentachlorophenol	<0.76	-	-	-	5
Phenanthrene	<0.67	-	-	-	10
Polychlorinated biphenyls (PCBs) (**)	<0.0129	-	-	-	0.2
Pyridine	<0.53	-	-	-	20
1,2,4,5-Tetrachlorobenzene	<7.6	-	-	-	20
1,1,2,2-Tetrachloroethane	<1	-	-	-	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Tetrachloroethene [Tetrachloroethylene]	<1	-	-	-	10
Toluene	<1	-	-	-	10
1,1,1-Trichloroethane	<1	-	-	-	10
1,1,2-Trichloroethane	<1	-	-	-	10
Trichloroethene [Trichloroethylene]	<1	-	-	-	10
2,4,5-Trichlorophenol	<1.29	-	-	-	50
TTHM (Total trihalomethanes)	<2	-	-	-	10
Vinyl chloride	<1	-	-	-	10

(*) 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 "<".

†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.

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
E. coli (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 [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [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.: 004
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	☐	☒	<0.4	-	-	-	400
Color (PCU)	☒	☐	30	-	-	-	—
Nitrate-Nitrite (as N)	☒	☐	<0.4	-	-	-	—
Sulfide (as S)	☐	☒	<0.05	-	-	-	—
Sulfite (as SO_3)	☐	☒	<1	<1	-	-	—
Surfactants	☒	☐	0.192	-	-	-	—
Boron, total	☒	☐	0.116	-	-	-	20
Cobalt, total	☒	☐	0.0006	-	-	-	0.3
Iron, total	☒	☐	0.258	-	-	-	7
Magnesium, total	☒	☐	10.8	-	-	-	20
Manganese, total	☒	☐	0.0568	-	-	-	0.5
Molybdenum, total	☒	☐	0.0202	-	-	-	1
Tin, total	☐	☒	<0.004	-	-	-	5
Titanium, total	☒	☐	0.0056	-	-	-	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
☐ Adhesives and Sealants		☐ Yes	☐ Yes	☐ Yes	No
☐ Aluminum Forming	467	☐ Yes	☐ Yes	☐ Yes	No
☐ Auto and Other Laundries		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Battery Manufacturing	461	☐ Yes	No	☐ Yes	No
☐ Coal Mining	434	No	No	No	No
☐ Coil Coating	465	☐ Yes	☐ Yes	☐ Yes	No
☐ Copper Forming	468	☐ Yes	☐ Yes	☐ Yes	No
☐ Electric and Electronic Components	469	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Electroplating	413	☐ Yes	☐ Yes	☐ Yes	No
☐ Explosives Manufacturing	457	No	☐ Yes	☐ Yes	No
☐ Foundries		☐ Yes	☐ Yes	☐ Yes	No
☐ Gum and Wood Chemicals - Subparts A,B,C,E	454	☐ Yes	☐ Yes	No	No
☐ Gum and Wood Chemicals - Subparts D,F	454	☐ Yes	☐ Yes	☐ Yes	No
☐ Inorganic Chemicals Manufacturing	415	☐ Yes	☐ Yes	☐ Yes	No
☐ Iron and Steel Manufacturing	420	☐ Yes	☐ Yes	☐ Yes	No
☐ Leather Tanning and Finishing	425	☐ Yes	☐ Yes	☐ Yes	No
☐ Mechanical Products Manufacturing		☐ Yes	☐ Yes	☐ Yes	No
☐ Nonferrous Metals Manufacturing	421,471	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Ore Mining - Subpart B	440	No	☐ Yes	No	No
☐ Organic Chemicals Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Paint and Ink Formulation	446,447	☐ Yes	☐ Yes	☐ Yes	No
☐ Pesticides	455	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Petroleum Refining	419	☐ Yes	No	No	No
☐ Pharmaceutical Preparations	439	☐ Yes	☐ Yes	☐ Yes	No
☐ Photographic Equipment and Supplies	459	☐ Yes	☐ Yes	☐ Yes	No
☐ Plastic and Synthetic Materials Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Plastic Processing	463	☐ Yes	No	No	No
☐ Porcelain Enameling	466	No	No	No	No
☐ Printing and Publishing		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Pulp and Paperboard Mills - Subpart C	430	☐ *	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subparts F, K	430	☐ *	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	☐ Yes	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts I, J, L	430	☐ Yes	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subpart E	430	☐ Yes	☐ Yes	☐ Yes	☐ *
☐ Rubber Processing	428	☐ Yes	☐ Yes	☐ Yes	No
☐ Soap and Detergent Manufacturing	417	☐ Yes	☐ Yes	☐ Yes	No
☐ Steam Electric Power Plants	423	☐ Yes	☐ Yes	No	No

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/Neutrals Table 10	Pesticides Table 11
☐ Textile Mills (Not Subpart C)	410	☐ Yes	☐ Yes	☐ Yes	No
☐ Timber Products Processing	429	☐ Yes	☐ Yes	☐ Yes	☐ 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.: 004 : 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.: 004 : 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	<0.76	-	-	-	10
2,4-Dichlorophenol	<1.05	-	-	-	10
2,4-Dimethylphenol	<0.81	-	-	-	10
4,6-Dinitro-o-cresol	<1	-	-	-	50
2,4-Dinitrophenol	<2.14	-	-	-	50
2-Nitrophenol	<1.34	-	-	-	20
4-Nitrophenol	<1.72	-	-	-	50
p-Chloro-m-cresol	<0.81	-	-	-	10
Pentachlorophenol	<0.76	-	-	-	5
Phenol	<0.67	-	-	-	10
2,4,6-Trichlorophenol	<1.2	-	-	-	10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: 004 : 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	<0.43	-	-	-	10
Acenaphthylene	<0.71	-	-	-	10
Anthracene	<0.53	-	-	-	10
Benzidine	<1	-	-	-	50
Benzo(a)anthracene	<0.58	-	-	-	5
Benzo(a)pyrene	<1.29	-	-	-	5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]	<0.87	-	-	-	10
Benzo(ghi)perylene	<0.96	-	-	-	20
Benzo(k)fluoranthene	<0.87	-	-	-	5
Bis(2-chloroethoxy)methane	<0.53	-	-	-	10
Bis(2-chloroethyl)ether	<1.09	-	-	-	10
Bis(2-chloroisopropyl)ether	<1.29	-	-	-	10
Bis(2-ethylhexyl)phthalate	<3.34	-	-	-	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	<0.62	-	-	-	10
Butylbenzyl phthalate	<1.05	-	-	-	10
2-Chloronaphthalene	<0.43	-	-	-	10
4-Chlorophenyl phenyl ether	<1	-	-	-	10
Chrysene	<0.87	-	-	-	5
Dibenzo(a,h)anthracene	<1.05	-	-	-	5
1,2-Dichlorobenzene [o-Dichlorobenzene]	<0.62	-	-	-	10
1,3-Dichlorobenzene [m-Dichlorobenzene]	<0.81	-	-	-	10
1,4-Dichlorobenzene [p-Dichlorobenzene]	<0.38	-	-	-	10
3,3'-Dichlorobenzidine	<1.34	-	-	-	5
Diethyl phthalate	<0.96	-	-	-	10
Dimethyl phthalate	<1.09	-	-	-	10
Di-n-butyl phthalate	<1.85	-	-	-	10
2,4-Dinitrotoluene	<1.47	-	-	-	10
2,6-Dinitrotoluene	<1.85	-	-	-	10
Di-n-octyl phthalate	<4.2	-	-	-	10
1,2-Diphenylhydrazine (as Azobenzene)	<0.33	-	-	-	20
Fluoranthene	<0.67	-	-	-	10
Fluorene	<0.71	-	-	-	10
Hexachlorobenzene	<1.05	-	-	-	5
Hexachlorobutadiene	<0.62	-	-	-	10
Hexachlorocyclopentadiene	<2.1	-	-	-	10
Hexachloroethane	<0.71	-	-	-	20
Indeno(1,2,3-cd)pyrene	<0.33	-	-	-	5
Isophorone	<0.43	-	-	-	10
Naphthalene	<0.47	-	-	-	10
Nitrobenzene	<1.38	-	-	-	10
N-Nitrosodimethylamine	<1.2	-	-	-	50
N-Nitrosodi-n-propylamine	<1.09	-	-	-	20
N-Nitrosodiphenylamine	<0.71	-	-	-	20
Phenanthrene	<0.67	-	-	-	10
Pyrene	<0.87	-	-	-	10
1,2,4-Trichlorobenzene	<0.81	-	-	-	10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: 004 : Pesticides
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	<0.005	-	-	-	0.01
alpha-BHC [alpha-Hexachlorocyclohexane]	<0.013	-	-	-	0.05
beta-BHC [beta-Hexachlorocyclohexane]	<0.017	-	-	-	0.05
gamma-BHC [gamma-Hexachlorocyclohexane]	<0.008	-	-	-	0.05
delta-BHC [delta-Hexachlorocyclohexane]	<0.007	-	-	-	0.05
Chlordane	<0.167	-	-	-	0.2
4,4'-DDT	<0.007	-	-	-	0.02
4,4'-DDE	<0.003	-	-	-	0.1
4,4'-DDD	<0.010	-	-	-	0.1
Dieldrin	<0.005	-	-	-	0.02
Endosulfan I (alpha)	<0.005	-	-	-	0.01
Endosulfan II (beta)	<0.007	-	-	-	0.02
Endosulfan sulfate	<0.005	-	-	-	0.1
Endrin	<0.007	-	-	-	0.02
Endrin aldehyde	<0.013	-	-	-	0.1
Heptachlor	<0.008	-	-	-	0.01
Heptachlor epoxide	<0.003	-	-	-	0.01
PCB 1242	<0.0129	-	-	-	0.2
PCB 1254	<0.0129	-	-	-	0.2
PCB 1221	<0.0129	-	-	-	0.2
PCB 1232	<0.0129	-	-	-	0.2
PCB 1248	<0.0129	-	-	-	0.2
PCB 1260	<0.0129	-	-	-	0.2
PCB 1016	<0.0103	-	-	-	0.2
Toxaphene	<0.167	-	-	-	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)

1. 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
☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) 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.: 004

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	-	-	-	-	[Note 1]
[1] Vanadium may be present because it is naturally-occurring in fresh and salt waters.						

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:
   - 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 signature on 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): 10/09/2019 – 11/26/2019

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-5 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:** T-6 Correspondence on Number of Outfall Samples

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.: 005

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	2	-	-
CBOD (5-day)	4	<2	-	-
Chemical oxygen demand	26	18	-	-
Total organic carbon	average 10 mg/L, range 5-19 mg/L, n=12 (DMR data, January 2017 – February 2020)			
Dissolved oxygen	6.5	5.3	-	-
Ammonia nitrogen	<0.25	<0.25	-	-
Total suspended solids	<5	<5	-	-
Nitrate nitrogen	<0.4	<0.1	-	-
Total organic nitrogen	0.452	<0.432	-	-
Total phosphorus	0.05	0.07	-	-
Oil and grease	average 5 mg/L, range 5-5 mg/L, n=12 (DMR data, January 2017 – February 2020)			
Total residual chlorine	0.03	0.03	-	-
Total dissolved solids	147	200	-	-
Sulfate	10.2	15.4	-	-
Chloride	22.2	15.2	-	-
Fluoride	<0.4	0.23	-	-
Total alkalinity (mg/L as $CaCO_3$)	103	138	-	-
Temperature (°F)	80	74	-	-
pH (standard units)	7.3	7.8	-	-

Table 2 for Outfall No.: 005

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)
Aluminum, total	117	75.6	-	-	2.5
Antimony, total	<0.4	<0.4	-	-	5
Arsenic, total	2.3	2.1	-	-	0.5
Barium, total	125	129	-	-	3
Beryllium, total	<0.4	<0.4	-	-	0.5
Cadmium, total	<0.4	<0.4	-	-	1
Chromium, total	<0.4	<0.4	-	-	3
Chromium, hexavalent	<3.4	<3.4	-	-	3
Chromium, trivalent	<0.4	<0.4	-	-	N/A

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Copper, total	0.9	1.1	-	-	2
Cyanide, available	0.364	1.2	-	-	2/10
Lead, total	<0.4	<0.4	-	-	0.5
Mercury, total	0.000475	0.000695	-	-	0.005/0.0005
Nickel, total	0.4	0.5	-	-	2
Selenium, total	<3.2	<3.2	-	-	5
Silver, total	<0.4	<0.4	-	-	0.5
Thallium, total	<0.4	<0.4	-	-	0.5
Zinc, total	4.2	6.2	-	-	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.: 005

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	<0.35	-	-	-	10
Benzene	<1	-	-	-	10
Benzidine	<0.66	-	-	-	50
Benzo(a)anthracene	<0.38	-	-	-	5
Benzo(a)pyrene	<0.85	-	-	-	5
Bis(2-chloroethyl)ether	<0.72	-	-	-	10
Bis(2-ethylhexyl)phthalate	<2.2	-	-	-	10
Bromodichloromethane [Dichlorobromomethane]	<1	-	-	-	10
Bromoform	<1	-	-	-	10
Carbon tetrachloride	<1	-	-	-	2
Chlorobenzene	<1	-	-	-	10
Chlorodibromomethane [Dibromochloromethane]	<1	-	-	-	10
Chloroform	<1	-	-	-	10
Chrysene	<0.57	-	-	-	5
m-Cresol [3-Methylphenol]	<1.32†	-	-	-	10
o-Cresol [2-Methylphenol]	<1	-	-	-	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
p-Cresol [4-Methylphenol]	<1.32†	-	-	-	10
1,2-Dibromoethane	<1	-	-	-	10
m-Dichlorobenzene [1,3-Dichlorobenzene]	<0.53	-	-	-	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<0.41	-	-	-	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<0.25	-	-	-	10
3,3'-Dichlorobenzidine	<0.88	-	-	-	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	<0.53	-	-	-	10
Di-n-Butyl phthalate	2.62	-	-	-	10
Ethylbenzene	<1	-	-	-	10
Fluoride	<400	230	-	-	500
Hexachlorobenzene	<0.69	-	-	-	5
Hexachlorobutadiene	<0.41	-	-	-	10
Hexachlorocyclopentadiene	<1.38	-	-	-	10
Hexachloroethane	<0.47	-	-	-	20
Methyl ethyl ketone	<1	-	-	-	50
Nitrobenzene	<0.91	-	-	-	10
N-Nitrosodiethylamine	<5	-	-	-	20
N-Nitroso-di-n-butylamine	<5	-	-	-	20
Nonylphenol	<1.54	-	-	-	333
Pentachlorobenzene	<3	-	-	-	20
Pentachlorophenol	<0.5	-	-	-	5
Phenanthrene	<0.44	-	-	-	10
Polychlorinated biphenyls (PCBs) (**)	<0.02	-	-	-	0.2
Pyridine	<0.35	-	-	-	20
1,2,4,5-Tetrachlorobenzene	<5	-	-	-	20
1,1,2,2-Tetrachloroethane	<1	-	-	-	10
Tetrachloroethene [Tetrachloroethylene]	<1	-	-	-	10
Toluene	<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
Trichloroethene [Trichloroethylene]	<1	-	-	-	10
2,4,5-Trichlorophenol	<0.85	-	-	-	50
TTHM (Total trihalomethanes)	<2	-	-	-	10
Vinyl chloride	<1	-	-	-	10

(*) 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 "<".

†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.

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
E. coli (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 [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [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.: 005
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	☒	☐	<0.4	0.15	-	-	400
Color (PCU)	☒	☐	10	-	-	-	—
Nitrate-Nitrite (as N)	☒	☐	<0.4	-	-	-	—
Sulfide (as S)	☐	☒	<0.05	-	-	-	—
Sulfite (as SO_3)	☐	☒	<1	<1	-	-	—
Surfactants	☒	☐	0.0373	-	-	-	—
Boron, total	☒	☐	0.064	-	-	-	20
Cobalt, total	☐	☒	<0.0002	-	-	-	0.3
Iron, total	☒	☐	0.195	-	-	-	7
Magnesium, total	☒	☐	6.03	-	-	-	20
Manganese, total	☒	☐	0.0313	-	-	-	0.5
Molybdenum, total	☒	☐	0.0049	-	-	-	1
Tin, total	☐	☒	<0.004	-	-	-	5
Titanium, total	☐	☒	<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
☐ Adhesives and Sealants		☐ Yes	☐ Yes	☐ Yes	No
☐ Aluminum Forming	467	☐ Yes	☐ Yes	☐ Yes	No
☐ Auto and Other Laundries		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Battery Manufacturing	461	☐ Yes	No	☐ Yes	No
☐ Coal Mining	434	No	No	No	No
☐ Coil Coating	465	☐ Yes	☐ Yes	☐ Yes	No
☐ Copper Forming	468	☐ Yes	☐ Yes	☐ Yes	No
☐ Electric and Electronic Components	469	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Electroplating	413	☐ Yes	☐ Yes	☐ Yes	No
☐ Explosives Manufacturing	457	No	☐ Yes	☐ Yes	No
☐ Foundries		☐ Yes	☐ Yes	☐ Yes	No
☐ Gum and Wood Chemicals - Subparts A,B,C,E	454	☐ Yes	☐ Yes	No	No
☐ Gum and Wood Chemicals - Subparts D,F	454	☐ Yes	☐ Yes	☐ Yes	No
☐ Inorganic Chemicals Manufacturing	415	☐ Yes	☐ Yes	☐ Yes	No
☐ Iron and Steel Manufacturing	420	☐ Yes	☐ Yes	☐ Yes	No
☐ Leather Tanning and Finishing	425	☐ Yes	☐ Yes	☐ Yes	No
☐ Mechanical Products Manufacturing		☐ Yes	☐ Yes	☐ Yes	No
☐ Nonferrous Metals Manufacturing	421,471	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Ore Mining - Subpart B	440	No	☐ Yes	No	No
☐ Organic Chemicals Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Paint and Ink Formulation	446,447	☐ Yes	☐ Yes	☐ Yes	No
☐ Pesticides	455	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Petroleum Refining	419	☐ Yes	No	No	No
☐ Pharmaceutical Preparations	439	☐ Yes	☐ Yes	☐ Yes	No
☐ Photographic Equipment and Supplies	459	☐ Yes	☐ Yes	☐ Yes	No
☐ Plastic and Synthetic Materials Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Plastic Processing	463	☐ Yes	No	No	No
☐ Porcelain Enameling	466	No	No	No	No
☐ Printing and Publishing		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Pulp and Paperboard Mills - Subpart C	430	☐ *	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subparts F, K	430	☐ *	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	☐ Yes	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts I, J, L	430	☐ Yes	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subpart E	430	☐ Yes	☐ Yes	☐ Yes	☐ *
☐ Rubber Processing	428	☐ Yes	☐ Yes	☐ Yes	No
☐ Soap and Detergent Manufacturing	417	☐ Yes	☐ Yes	☐ Yes	No
☐ Steam Electric Power Plants	423	☐ Yes	☐ Yes	No	No

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/Neutrals Table 10	Pesticides Table 11
☐ Textile Mills (Not Subpart C)	410	☐ Yes	☐ Yes	☐ Yes	No
☐ Timber Products Processing	429	☐ Yes	☐ Yes	☐ Yes	☐ 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.: 005 : 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.: 005 : 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	<0.5	-	-	-	10
2,4-Dichlorophenol	<0.69	-	-	-	10
2,4-Dimethylphenol	<0.53	-	-	-	10
4,6-Dinitro-o-cresol	<0.66	-	-	-	50
2,4-Dinitrophenol	<1.41	-	-	-	50
2-Nitrophenol	<0.88	-	-	-	20
4-Nitrophenol	<1.13	-	-	-	50
p-Chloro-m-cresol	<0.53	-	-	-	10
Pentachlorophenol	<0.5	-	-	-	5
Phenol	<0.44	-	-	-	10
2,4,6-Trichlorophenol	<0.79	-	-	-	10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: 005 : 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	<0.28	-	-	-	10
Acenaphthylene	<0.71	-	-	-	10
Anthracene	<0.35	-	-	-	10
Benzidine	<0.66	-	-	-	50
Benzo(a)anthracene	<0.38	-	-	-	5
Benzo(a)pyrene	<0.85	-	-	-	5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]	<0.57	-	-	-	10
Benzo(ghi)perylene	<0.63	-	-	-	20
Benzo(k)fluoranthene	<0.57	-	-	-	5
Bis(2-chloroethoxy)methane	<0.35	-	-	-	10
Bis(2-chloroethyl)ether	<0.72	-	-	-	10
Bis(2-chloroisopropyl)ether	<0.85	-	-	-	10
Bis(2-ethylhexyl)phthalate	<2.2	-	-	-	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	<0.41	-	-	-	10
Butylbenzyl phthalate	<0.69	-	-	-	10
2-Chloronaphthalene	<0.28	-	-	-	10
4-Chlorophenyl phenyl ether	<0.66	-	-	-	10
Chrysene	<0.57	-	-	-	5
Dibenzo(a,h)anthracene	<0.69	-	-	-	5
1,2-Dichlorobenzene [o-Dichlorobenzene]	<0.41	-	-	-	10
1,3-Dichlorobenzene [m-Dichlorobenzene]	<0.53	-	-	-	10
1,4-Dichlorobenzene [p-Dichlorobenzene]	<0.25	-	-	-	10
3,3'-Dichlorobenzidine	<0.88	-	-	-	5
Diethyl phthalate	<0.63	-	-	-	10
Dimethyl phthalate	<0.72	-	-	-	10
Di-n-butyl phthalate	2.62	-	-	-	10
2,4-Dinitrotoluene	<0.97	-	-	-	10
2,6-Dinitrotoluene	<1.22	-	-	-	10
Di-n-octyl phthalate	<2.76	-	-	-	10
1,2-Diphenylhydrazine (as Azobenzene)	<0.22	-	-	-	20
Fluoranthene	<0.44	-	-	-	10
Fluorene	<0.47	-	-	-	10
Hexachlorobenzene	<0.69	-	-	-	5
Hexachlorobutadiene	<0.41	-	-	-	10
Hexachlorocyclopentadiene	<1.38	-	-	-	10
Hexachloroethane	<0.47	-	-	-	20
Indeno(1,2,3-cd)pyrene	<0.22	-	-	-	5
Isophorone	<0.28	-	-	-	10
Naphthalene	<0.31	-	-	-	10
Nitrobenzene	<0.91	-	-	-	10
N-Nitrosodimethylamine	<0.79	-	-	-	50
N-Nitrosodi-n-propylamine	<0.72	-	-	-	20
N-Nitrosodiphenylamine	<0.47	-	-	-	20
Phenanthrene	<0.44	-	-	-	10
Pyrene	<0.57	-	-	-	10
1,2,4-Trichlorobenzene	<0.53	-	-	-	10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: 005 : Pesticides
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	<0.004	-	-	-	0.01
alpha-BHC [alpha-Hexachlorocyclohexane]	<0.010	-	-	-	0.05
beta-BHC [beta-Hexachlorocyclohexane]	<0.012	-	-	-	0.05
gamma-BHC [gamma-Hexachlorocyclohexane]	<0.006	-	-	-	0.05
delta-BHC [delta-Hexachlorocyclohexane]	<0.005	-	-	-	0.05
Chlordane	<0.123	-	-	-	0.2
4,4'-DDT	<0.005	-	-	-	0.02
4,4'-DDE	<0.002	-	-	-	0.1
4,4'-DDD	<0.007	-	-	-	0.1
Dieldrin	<0.004	-	-	-	0.02
Endosulfan I (alpha)	<0.004	-	-	-	0.01
Endosulfan II (beta)	<0.005	-	-	-	0.02
Endosulfan sulfate	<0.004	-	-	-	0.1
Endrin	<0.005	-	-	-	0.02
Endrin aldehyde	<0.010	-	-	-	0.1
Heptachlor	<0.006	-	-	-	0.01
Heptachlor epoxide	<0.002	-	-	-	0.01
PCB 1242	<0.02	-	-	-	0.2
PCB 1254	<0.02	-	-	-	0.2
PCB 1221	<0.02	-	-	-	0.2
PCB 1232	<0.02	-	-	-	0.2
PCB 1248	<0.02	-	-	-	0.2
PCB 1260	<0.02	-	-	-	0.2
PCB 1016	<0.01	-	-	-	0.2
Toxaphene	<0.123	-	-	-	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)

1. 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
☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) 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.: 005

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	-	-	-	-	[Note 1]
[1] Vanadium may be present because it is naturally-occurring in fresh and salt waters.						

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:
   - 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 signature on 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): **09/25/2019 – 08/27/2020 (update for additional cyanide analyses, see Table 2, pg. 3)**

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-5 Laboratories for Outfall Analyses

Table 2 for Outfall No.: 004
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)
Aluminum, total	209	95.3	-	-			2.5
Antimony, total	0.6	0.8	-	-			5
Arsenic, total	10.6	5.7	-	-			0.5
Barium, total	95.9	92.7	-	-			3
Beryllium, total	<0.4	<0.4	-	-			0.5
Cadmium, total	<0.4	<0.4	-	-			1
Chromium, total	1.8	4.1	-	-			3
Chromium, hexavalent	<3.4	<3.4	-	-			3
Chromium, trivalent	1.8	4.1	-	-			N/A
Copper, total	7.4	50.9	3.3	Sample 4 3.5	Sample 5 4.2		2
Cyanide, available	0.894 [CN-avail] [CN-free not analyzed]	16.9 [avail] 15.6 [free]	<1.49 [avail] <0.785 [free]	Sample 4 <1.49 [avail] <0.785 [free]	**Sample 5** **<1.49 [avail]** **<0.785 [free]**	**Sample 6** **<1.49 [avail]** **<0.785 [free]**	2/10
Lead, total	0.7	0.6	-	-			0.5
Mercury, total	0.00937	0.00857	-	-			0.005/0.0005
Nickel, total	3.1	10.2	-	-			2
Selenium, total	<3.2	<3.2	-	-			5
Silver, total	<0.4	<0.4	-	-			0.5
Thallium, total	<0.4	<0.4	-	-			0.5
Zinc, total	average 289 µg/L, range 20-680 µg/L, n=12 (DMR data, January 2017 – February 2020)						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.: 004
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	<0.53	-	-	-	10

ATTACHMENT T-2

AMENDMENT REQUESTS
EQUISTAR CHEMICALS, LP
CHANNELVIEW NORTH COMPLEX

AMENDMENT REQUESTS
EQUISTAR CHEMICALS, LP
CHANNELVIEW NORTH COMPLEX

Equistar Chemicals, LP (Equistar) requests the following amendments to TPDES Permit WQ0000391000 for the Channelview North Complex:

1. Reduce the monitoring frequency for Outfall 002 for flow, total organic carbon (TOC), and pH to quarterly, and for oil and grease to annually.
2. Reduce the monitoring frequency for Outfalls 004 and 005 for oil and grease to annually.
3. Add process wastewater and storm water to Outfall 101.
4. Add construction storm water and additional utility wastewaters to Outfall 001.
5. Remove Other Requirement provisions that have been completed.
6. Remove monitoring for total zinc for Outfall 002.
7. Clarification of Other Requirement No. 8 related to storm water from the landfarm.

REDUCE MONITORING FREQUENCY FOR OUTFALL 002 FOR FLOW, TOC, PH, AND OIL AND GREASE

Equistar is requesting a reduction in sampling frequency for Outfall 002 for flow, TOC, pH, and oil and grease. The current TPDES permit requires weekly monitoring for these parameters and Equistar is requesting quarterly monitoring for flow, TOC, and pH, and annual monitoring for oil and grease. A summary of discharge monitoring report (DMR) data from the period July 2016 – August 2019 is provided in the table below.

Outfall 002 Monitoring Data (July 2016 – August 2019)				
	pH (S.U.)	TOC (mg/L)	O&G* (mg/L)	Zinc (mg/L)
Minimum	6	6	5	0.02
Maximum	8.6	23	5	0.58
Average	7.0	12	5	0.06
Permit Limit	6-9	75	15	Report
*Actual analytical results for oil and grease are typically non-detect at a detection limit of 5 mg/L, but are reported as equal to 5 mg/L in the DMR.				

As the data show, these parameters have typically been at levels well below permit limits, and the TCEQ normally allows less frequent monitoring in such cases. For example, the monitoring frequency for one of the site's other storm water outfalls, Outfall 003, is quarterly for flow, TOC, and pH, and annually for oil and grease.

REDUCE MONITORING FREQUENCY FOR OUTFALLS 004 AND 005 FOR OIL AND GREASE

Equistar is requesting a reduction in sampling frequency for oil and grease for Outfalls 004 and 005 from quarterly to annually. A summary of DMR data from the period September 2016 – June 2019 is provided in the table below. As the data show, oil and grease has typically been at levels well below the permit limit, and the TCEQ normally allows less frequent monitoring in such cases, as it has done for Outfall 003.

Outfall 004 and 005 O&G* (mg/L) (September 2016 – June 2019)		
	Outfall 004	Outfall 005
Minimum	5	5
Maximum	5	5
Average	5	5
Permit Limit	15	15
*Actual analytical results for oil and grease are typically non-detect at a detection limit of 5 mg/L, but are reported as equal to 5 mg/L in the DMR.		

ADD PROCESS WASTEWATER AND STORM WATER TO OUTFALL 101

Equistar is requesting the addition of process wastewater and storm water to internal Outfall 101. The process wastewater and storm water would originate from the site's Houston Technology Center (HTC); a description of the HTC and its wastewaters is found in Attachment T-1 Facility Description.

Outfall 101 is an internal outfall whose effluent is routed to the Outfall 001 wastewater treatment system. Outfall 101 is monitored for flow, bacteria (*Enterococci*), and chlorine residual, which are typical TPDES monitoring parameters for treated domestic wastewater. Equistar is not requesting any change in the monitoring for these parameters at Outfall 101, and notes that any permit requirements for the process wastewater and storm water flows contributed by Outfall 101 can be incorporated into the permit requirements at the final Outfall 001.

ADD CONSTRUCTION STORM WATER AND UTILITY WASTEWATERS TO OUTFALL 001

Equistar is requesting the addition of construction storm water and additional utility wastewaters to Outfall 001. Utility wastewaters to add include those listed in Other Requirement No. 13 of the current permit, cooling tower and boiler maintenance wastewaters, water treatment wastewaters, and water from landfarm. Utility wastewaters listed in Other Requirement No. 13 include, but are not limited to: potable water, vehicle rinse water, firewater (which has not come into direct contact with raw material, intermediate product, finished product, by-product, or waste product and is not the result of a fire), hydrotest water, clarified water, demineralized water, steam condensate and blowdown, non-contact once-through cooling water, de minimis amounts of cooling tower water, raw and well water, groundwater seepage, condensate, and analyzer instrumentation drain wastewater. These additional wastewaters are also listed in Table 2 in Attachment T-1 Facility Description.

REMOVAL OF COMPLETED OTHER REQUIREMENTS

Equistar is requesting the removal of provisions in Other Requirements Nos. 9, 10, 15, and 16 because these requirements have or will be completed by the time the permit is reissued.

Other Requirement No. 9 relates to notification of start-up for Outfalls 006, 007, 101, and 201. Equistar has submitted notification for start-up of Outfalls 101 and 102 and is requesting removal of these two outfalls from the provision. Outfalls 006 and 007 have not been started up and the notification provision should be retained for these outfalls.

Other Requirement No. 10 required analyses for mercury for Outfall 005 and these have been completed.

Other Requirement No. 15 relates to an aluminum partitioning coefficient study for Outfalls 002 and 003. Equistar expects to submit the results of this study to the TCEQ in the first quarter of 2020.

Other Requirement No. 16 contained a 3-year compliance schedule for attaining water quality-based effluent limits (WQBELs) for total copper and hexachlorobenzene for Outfall 001, which Equistar completed in April 2019.

REMOVAL OF TOTAL ZINC MONITORING FOR OUTFALL 002

Equistar requests that total zinc monitoring for Outfall 002 be removed from the permit given that the average effluent concentration has been well below the daily average water quality-based effluent limit (WQBEL). The average total zinc concentration for Outfall 002 reported for

the May 2015 – April 2020 period is 0.06 milligrams per liter (mg/L). Equistar's estimate of the daily average WQBEL (using a site-specific hardness of 147 mg/L as calcium carbonate, CaCO3) is 0.207 mg/L. The TCEQ requires monitoring when the average concentration is more than 70% of the daily average WQBEL and a permit limit if the concentration is more than 85%. Because the Outfall 002 average concentration is only 29% of 0.207 mg/L, neither limits nor monitoring should be required.

Equistar believes that removing the total zinc monitoring for Outfall 002 would be compliant with anti-backsliding provisions. An exception to anti-backsliding for a permit condition based on a state standard is allowed under the Clean Water Act (CWA) where the permit change meets one of the exceptions listed at CWA §402(o)(2) and where the change will comply with the water quality standard and be consistent with any applicable effluent guideline (CWA §402(o)(3)).[1]

The permit change would meet the exception at §402(o)(2)(B) – new information not available at the time when the permit condition (monitoring) was set. Monitoring for total zinc for Outfall 002 has been in the TPDES permit since at least 2006; this requirement was "report only" of the monitoring data in the discharge monitoring reports (DMRs) with no effluent limits set. The new information is new data on total zinc concentrations in the Outfall 002 discharge, as represented in the May 2015 – April 2020 DMR data. The average total zinc concentration for this period (0.06 mg/L) being only 29% of the daily average WQBEL shows compliance with the water quality standard. Lastly, there is no applicable effluent guideline for total zinc for Outfall 002, so this condition is also met.

CLARIFICATION OF OTHER REQUIREMENT NO. 8

Equistar requests rewording of Other Requirement No. 8 because it contains an inaccurate description of the discharges from active cells of the landfarm. In addition, Equistar requests that it clarify that discharges from inactive cells may be discharged through Outfalls 002 and 004.

In the 2008 permit, Other Requirement No. 8 prohibited the diversion of "lagoon storm water" to Outfalls 002 and 004 unless approved by TCEQ. In the 2012 TPDES renewal application, Equistar requested that this prohibition be limited to storm water from active landfarm cells, to allow flexibility to discharge storm water from inactive cells to Outfalls 002 and 004. When the permit was reissued, this amendment request was reflected both in the text for the public notice and in the fact sheet. Although the fact sheet did not include reference to allowable discharges from inactive cells, it was inferred by restricting the prohibition to active cells. However, the permit incorrectly inserted the word landfill instead of landfarm in Other Requirement No. 8. Also, there is no lagoon associated with the landfarm, and the storm water is what falls within the landfarm.

Equistar requests the following wording for Other Requirement No. 8.

[1] *NPDES Permit Writers' Manual*, U.S. Environmental Protection Agency, EPA-833-K-10-001, September 2010 (Chapter 7)

"8. This permit does not authorize the diversion of stormwater from active landfarm cells to Outfall 002 or 004. Such diversion shall require written notification to and approval by the TCEQ's Wastewater Permitting Section (MC-148). Additional requirements may be imposed for stormwater from active landfill cells to be approved for diversion. Stormwater from inactive landfarm cells may be diverted to Outfall 002 or 004."

ATTACHMENT T-5
Laboratories for Outfall Analyses

Parameters	Laboratory
Chemical oxygen demand, dissolved oxygen, oil and grease, sulfite, total residual chlorine, pH, temperature, total suspended solids	Equistar Chemicals, LP Channelview Complex North (CVON) (permittee)
Alkalinity, ammonia, biochemical oxygen demand, bromide, carbonaceous biochemical oxygen demand, chloride, fluoride, metals (except mercury), nitrate, nitrate-nitrite, phosphorus, semivolatiles/volatiles (July 2019), sulfide, total dissolved solids, total organic carbon	Environmental Chemistry, Inc. 2525 West Bellfort, Suite 175 Houston, TX 77054-5027 Accreditation Certificate: T104704226-20-20
PCBs, pesticides, semivolatiles, volatiles	A&B Environmental Services, Inc. 10100 East Freeway, Suite 100 Houston, TX 77029-1919 Accreditation Certificate: T104704213-20-23
Color, surfactants	TestAmerica Laboratories, Inc. – Houston 6310 Rothway Street Houston, TX 77040-5056 Accreditation Certificate: T104704223-20-26
Cyanide (available)	Eurofins TestAmerica Laboratories Pittsburgh 301 Alpha Drive Pittsburgh, PA 15238-2907 Accreditation Certificate: T104704528-20-9
Nonylphenol	Eurofins TestAmerica, Inc. Denver 4955 Yarrow Street Arvada, CO 80002-4517 Accreditation Certificate: T104704183-19-17
Mercury	Albion Environmental 4505 Boyett Street Bryan, TX 77801-4614 Accreditation Certificate: T104704391-19-11

Subject: RE: Equistar Channelview North Plant - number of TPDES application samples
Date: Friday, November 8, 2019 at 10:13:16 AM Central Standard Time
From: Melinda Luxemburg
To: Dianna Kocurek
CC: Ross, Nancy J, Mayo, Randall S

Dianna,

Thank you for the clarification. ML

From: Dianna Kocurek <dianna@tkee.com>
Sent: Friday, November 8, 2019 10:07 AM
To: Melinda Luxemburg <melinda.luxemburg@tceq.texas.gov>
Cc: Ross, Nancy J <Nancy.Ross@lyondellbasell.com>; Mayo, Randall S <Randall.Mayo@lyondellbasell.com>
Subject: Re: Equistar Channelview North Plant - number of TPDES application samples

Hi, Melinda.

To clarify, the second sampling will be only for all constituent in Tables 1 and 2 in Worksheet 2. The other tables either require only one sample (e.g., Tables 6-11), or sampling only if constituents are expected to be present (e.g., Table 3). We will be providing one sample for Tables 3-11 because these storm water outfalls do not contain process wastewater and the constituents in these tables are not expected to be present (except for fluoride, which is in Table 1 already).

Thanks,
Dianna

From: Melinda Luxemburg <melinda.luxemburg@tceq.texas.gov>
Date: Friday, November 8, 2019 at 9:51 AM
To: Dianna Kocurek <dianna@tkee.com>
Cc: "Ross, Nancy J" <Nancy.Ross@lyondellbasell.com>, "Mayo, Randall S" <Randall.Mayo@lyondellbasell.com>, Melinda Luxemburg <melinda.luxemburg@tceq.texas.gov>
Subject: RE: Equistar Channelview North Plant - number of TPDES application samples

Dianna,

Thanks for the information and I appreciate the additional sampling for parameters of concern that will be submitted with the application. I understand for all other parameters a minimum of two sampling events will be included with the application. Again, please provide with the application the basis for fewer sampling events then the application requires. Thanks again, ML

Melinda Luxemburg, P.E.
Industrial Permits Team
Wastewater Permitting Section
Water Quality division, TCEQ
(512) 239-4541
melinda.luxemburg@tceq.texas.gov

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From: Dianna Kocurek <dianna@tkee.com>
Sent: Friday, November 8, 2019 8:28 AM
To: Melinda Luxemburg <melinda.luxemburg@tceq.texas.gov>
Cc: Ross, Nancy J <Nancy.Ross@lyondellbasell.com>; Mayo, Randall S <Randall.Mayo@lyondellbasell.com>
Subject: Re: Equistar Channelview North Plant - number of TPDES application samples

Melinda,

I know you were able to only take a quick look at the 2012 data I sent, but the facility actually provided additional aluminum data (total, dissolved) during the time you were drafting the permit. Based on a review of that data, you included Other Requirement No. 15 in the permit for an aluminum partitioning coefficient study for Outfalls 002 and 003 and the facility has completed all the aluminum analyses for the study (more than 30 samples for each outfall). The study report will be submitted after the WET tests are completed, possibly in January. In addition, the permit includes monitoring for another metal, zinc, for Outfalls 001-004, and the TCEQ has the discharge monitoring report data for review.

Based on past outfall analyses, Equistar does not expect any other metals or organic pollutants to be of concern with respect to water quality standards. Equistar had originally planned to collect one sample from each storm water outfall, but is now planning to collect one additional sample for each. Would this be acceptable for the permit application?

Thanks,
Dianna

From: Melinda Luxemburg <melinda.luxemburg@tceq.texas.gov>
Date: Friday, October 11, 2019 at 3:24 PM
To: Dianna Kocurek <dianna@tkee.com>
Cc: "Ross, Nancy J" <Nancy.Ross@lyondellbasell.com>, "Mayo, Randall S" <Randall.Mayo@lyondellbasell.com>
Subject: RE: Equistar Channelview North Plant - number of TPDES application samples

Dianna,

Thank you for your inquiry. After a quick look at the 2012 effluent data, the first sampling event resulted in very high concentrations of total aluminum, which would have required an effluent limitation at some outfalls. This is the risk taken when submitting only one effluent sample per outfall. I leave the decision to the permittee and request a basis for providing fewer sampling events then the application requires. Thanks again, ML

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From: Dianna Kocurek <dianna@tkee.com>
Sent: Friday, October 11, 2019 1:16 PM
To: Melinda Luxemburg <melinda.luxemburg@tceq.texas.gov>
Cc: Ross, Nancy J <Nancy.Ross@lyondellbasell.com>; Mayo, Randall S <Randall.Mayo@lyondellbasell.com>
Subject: Equistar Channelview North Plant - number of TPDES application samples

Melinda,

Equistar will be submitting its TPDES renewal application for its Channelview North Plant (CVON) (WQ0000391000) at the end of December and they would like to request TCEQ's approval on the number of samples for their storm water Outfalls 002, 003, 004, and 005. I'm sending this request to you because I had asked Mike Lindner earlier to whom to direct this type of question and he said to send to the last permit writer for the permit.

These outfalls discharge primarily storm water, which may be commingled with small amounts of utility waters, and secondary wash waters after spill cleanup. Therefore, they need to submit analyses for these outfalls in Worksheet 2 of the application. The application instructions say to provide four samples unless TCEQ approves fewer.

Equistar would like to submit one sample for each of these outfalls. Copies of the most recent application Worksheet 2s for these outfalls (2012) are attached for your review. (Note, for the process wastewater Outfall 001, Equistar will be submitting the usual four samples.)

Equistar would appreciate a response as soon as possible so that they can proceed quickly with sample arrangements.

Thanks,
Dianna