II. WASTEWATER CHARACTERIZATION, TREATMENT, and DISPOSAL

B. SPECIFIC OUTFALL INFORMATION

EFFLUENT MONITORING REQUIREMENTS – SECONDARY INDUSTRY PROCESS WASTEWATER AND COOLING WATER

You are required to complete Parts B-1 through B-5 for each surface water outfall that discharges any **process wastewaters from a secondary industry, cooling water and/or boiler blowdown**. (Cooling water means water which has been used primarily for cooling but which may be contaminated with process waste or airborne material. Barometric condenser and cooling tower blowdown are examples.) You must sample the discharge and test for all parameters listed in Table B-1. If you have more than one discharge of secondary industry process wastewater, cooling water and/or boiler blowdown, you should have received a copy of this form for each outfall. (See the instructions if two or more outfalls discharge identical wastewaters.) If you test any parameter more frequently than required by Table B-1, use Table B-2 to report the results.

Note: For testing not preformed as part of routine, permit-required discharge monitoring, please also attach copies of laboratory reports.

B-1. EFFLUENT MONITORING FORM FOR OUTFALL _____ (see instructions)

Were all effluent samples properly preserved and handled, and are they representative of normal operating conditions?

☐ Yes ☐ No. If no, collect and test another discharge sample.

Parameter Code	Parameter Name (CAS No.)	Sample Result	QC Flags (explain below)	Units	Detection Limit (LOD)	LOQ	Analytical Method	Confirmed Organics (Y/N)	Sample Collection Date	Extraction Date	Analysis Date	Lab ID Number	Sample Type (Co/Gr)	DMR (✓)
321	Ammonia Nitrogen (Submit a minimum of 4 sample results collected at least 1 month apart)			mg/L as N										
				mg/L as N										
				mg/L as N										
				mg/L as N										
66	BOD_5 (5-day Biochemical Oxygen Demand)			mg/L										
140	COD (Chemical Oxygen Demand)			mg/L										
105	Chlorides, Total			mg/L										
112	Chlorine, Total Residual			µg/L										
342	Oil and Grease			mg/L										
377	pH			s.u.										

B-1. EFFLUENT MONITORING REPORT FORM FOR OUTFALL _____ (see instructions)

Parameter Code	Parameter Name (CAS No.)	Sample Result	QC Flags (explain below)	Units	Detection Limit (LOD)	LOQ	Analytical Method	Confirmed Organics (Y/N)	Sample Collection Date	Extraction Date	Analysis Date	Lab ID Number	Sample Type (Co/Gr)	DMR (✓)
388	Phosphorus, Total (7723-14-0) (Submit a minimum of 4 sample results collected at least 1 month apart)			mg/L as P										
				mg/L as P										
				mg/L as P										
				mg/L as P										
457	Suspended Solids, Total			mg/L										
488	Temperature (winter)			°F										
487	Temperature (summer)			°F										
34	Arsenic, Total Recoverable (7440-36-0)			µg/L										
88	Cadmium, Total Recoverable (7440-38-2)			µg/L										
133	Chromium, Total Recoverable (7440-47-3)			µg/L										
147	Copper, Total Recoverable (7440-50-8) (Submit a minimum of 4 sample results collected at least 3 days apart)			µg/L										
				µg/L										
				µg/L										
				µg/L										
264	Lead, Total Recoverable (7439-92-1)			µg/L										
280	Mercury, Total Recoverable (7439-97-6)			µg/L										
315	Nickel, Total Recoverable (7440-02-0)			µg/L										
553	Zinc, Total Recoverable (7440-66-6)			µg/L										

B-1. EFFLUENT MONITORING REPORT FORM FOR OUTFALL _____ (see instructions)

Parameter Code	Parameter Name (CAS No.)	Sample Result	QC Flags (explain below)	Units	Detection Limit (LOD)	LOQ	Analytical Method	Confirmed Organics (Y/N)	Sample Collection Date	Extraction Date	Analysis Date	Lab ID Number	Sample Type (Co/Gr)	DMR (✓)
231	Hardness (as $CaCO_3$) (Submit a minimum of 4 sample results collected at least 3 days apart)			mg/L										
				mg/L										
				mg/L										
				mg/L										

Explain QC flags here:

B-2. ADDITIONAL MONITORING FORM for OUTFALL _____ (see instructions)

If you know or have reason to believe that any parameter listed in Tables 1 and 2 of the instructions is present in the discharge from this outfall at a concentration greater than 10µg/L AND you have not already provided a sample result in Table B-1, you must list the parameter below in Table B-2 and either provide at least one sample result for the parameter, check the "Intake" column if you expect the parameter is present in the discharge solely as a result of its presence in your intake water, OR check the "DMR" column if you have provided a sample result for the parameter in a recent Discharge Monitoring Report. Check the following box to indicate that you have evaluated the potential for these parameters being present in the discharge.

☐ Excluding those parameters that I have reported in either Table B-1 or Table B-2 below, I believe the parameters listed in Tables 1 and 2 of the instructions are either absent from this outfall's discharge or are present at concentrations less than 10 µg/L.

Table B-2 may also be used to report test results for any parameter that is tested more frequently than required by Table B-1.

Were all effluent samples properly preserved and handled, and are they representative of normal operating conditions?

☐ Yes ☐ No. If no, collect and test another discharge sample.

Parameter Code	Parameter Name (CAS No.)	Sample Result	QC Flags (explain below)	Units	Detection Limit (LOD)	LOQ	Analytical Method	Confirmed Organics (Y/N)	Sample Collection Date	Extraction Date	Analysis Date	Lab ID Number	Sample Type (Co/Gr)	DMR (✓)	Intake (✓)

Explain QC flags here:

B-3. HAZARDOUS SUBSTANCES FORM for OUTFALL _____ (see instructions)

If you know or have reason to believe that any substance listed in Table 3 of the instructions is present in the discharge from this outfall, you must list the substance below in Table B-3, provide any monitoring data that you may have, check the "Intake" column if you expect the parameter is present in the discharge solely as a result of its presence in your intake water, check the "DMR" column if you have provided a sample result for the substance in a recent Discharge Monitoring Report and explain why you believe the substance is present in the discharge. (NOTE: No analytical testing is required for Table 3 substances.) Check one of the following.

☐ I believe all substances in Table 3 of the instructions are absent from the discharge.

☐ I believe all substances in Table 3 of the instructions are absent from the discharge with the exception of those that I have listed below in Table B-3.

Parameter Code	Parameter Name	Sample Result	Units	DMR (✓)	Intake (✓)	Explanation of Presence in Discharge

Comments:

B-4. DISCHARGE MONITORING REPORT (DMR) INFORMATION for OUTFALL _____ (see instructions)

Check one or more of the following statements and provide the requested information to identify the Discharge Monitoring Report (DMR) data that best represents the current discharge from this outfall. At least one of the first two statements must be checked. Checking the third is optional.

☐ I believe that Discharge Monitoring Report data for the last 36 months are representative of the current effluent quality from this outfall.

☐ I believe that Discharge Monitoring Report data covering the period from
_____ (day/month/year) to _____ (day/month/year)
are representative of the current effluent quality from this outfall. The reason for my belief is as follows:

☐ Certain of the data previously submitted on Discharge Monitoring Reports are not representative of the current effluent quality from this outfall.
The data and the reasons for them not being representative are as follows:

B-5. ADDITIVES FORM for OUTFALL _____ (see instructions)

For discharges of cooling water (Cooling water means water that has been used primarily for cooling but that may be contaminated with process waste or airborne material. Barometric condenser water and cooling tower blowdown are examples.) and/or boiler blowdown, you must provide information on water treatment additives that you use by completing Table B-5.

For each water treatment additive used, submit a Material Safety Data Sheet (MSDS), provide any available aquatic life toxicity data, and complete Table B-5. Examples of water treatment additives include biocides such as microbicides, fungicides, molluscicides, etc. and water quality conditioners such as scale and corrosion inhibitors, pH adjustment chemicals, oxygen scavengers, conditioning agents, water softening compounds, etc. Toxicity data and MSDSs are not required for additives with active ingredients consisting only of chlorine, hypochlorite, sulfuric acid, hydrochloric acid or sodium hydroxide. Also, chemicals used in an industrial process generating wastewater that eventually receives treatment or chemicals added as part of a wastewater treatment process (such as ferric chloride, alum or pickle liquor) are not considered water treatment additives and need not be described on this form or require MSDS information.

Additive Name and Manufacturer	Purpose of Additive	Intermittent or Continuous Feed	Frequency of Use		Maximum Quantity Used (lbs or gal per day)	Average Quantity Used (lbs or gal per day)	(OPTIONAL) Concentration of Additive at the Outfall (ppm)
			months per year	days per week			

Comments: