

Table 10 Water quality items and limits of discharge from dedicated sewage systems in
petrochemical industrial parks

Scope	Item		Limit	Remarks
All	Water temperature	Discharge into non-marine surface water bodies	Lower than 38°C (for May to September)	
			Lower than 35°C (for October to next April)	
		Direct discharge to the ocean	Water temperature at discharge point $\leq 42^{\circ}\text{C}$; temperature difference of surface water 500m from discharge point $\leq 4^{\circ}\text{C}$	
	Hydrogen ion concentration index		6.0—9.0	
	Nitrite nitrogen		50	
	Ammonia nitrogen	Constructed, under construction or tendering procedures completed before Dec. 1, 2011	60	
		Tendering procedures not completed before Dec. 1, 2011	20	
	Phenols		1.0	
	Anion surfactant		10	
	Cyanide		1.0	
	Grease (Hexane extracts)		10	
	Dissolved iron		10	
	Dissolved manganese		10	
	Cadmium	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.03	
		Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.02	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	0.02	
	Lead	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	1.0	
		Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.5	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	0.5	
	Total chromium	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	

		Constructed, under construction or tendering procedures completed before Dec. 25, 2017	1.5	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	1.5	
	Hexavalent chromium	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.5	
		Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.35	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	0.35	
	Copper	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	3.0	
		Constructed, under construction or tendering procedures completed before Dec. 25, 2017	1.5	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	1.5	
	Zinc	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	5.0	
		Constructed, under construction or tendering procedures completed before Dec. 25, 2017	3.5	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	3.5	
	Nickel	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	1.0	
		Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.7	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	0.7	
	Selenium	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.5	

		Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.35	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	0.35	
	Arsenic	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.5	
		Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.35	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	0.35	
	Tin	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	1.0	
	Methyl mercury		0.0000002	
	Total mercury		0.005	
	Silver		0.5	
	Boron	Discharged into tap water quality and volume protection area	1.0	
		Discharged into places outside tap water quality and volume protection area	5.0	
	Molybdenum	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.6	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	0.6	
	Sulfide		1.0	
	True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
			400	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	300	
	Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	2.0	
	Benzene		0.05	

	Ethyl benzene	0.4		
	Methylene chloride	0.2		
	Chloroform	0.6		
	1,2-dichloroethane	0.10		
	Vinyl chloride	0.10		
	Dimethyl phthalate (DMP)	0.2		
	Diethyl phthalate (DEP)	0.4		
	Dibutyl phthalate (DBP)	0.4		
	Benzyl butyl phthalate (BBP)	0.4		
	Di-n-octyl phthalate (DNOP)	0.6		
	Bis(2-ethylhexyl) phthalate (DEHP)	0.2		
	Nitrobenzene	0.4		In effect from Jan. 1, 2021.
	Trichloroethylene	0.3		
	Acrylonitrile	0.2		
	1,2-butadiene	0.1		
		Biochemical oxygen demand	Maximum	30
7-day average			25	
Constructed, under construction or tendering procedures completed before Jul. 31, 2009 with an approved discharge volume less than 10,000 m³ per day	Chemical oxygen demand	Maximum	100	
		7-day average	80	
	Suspended solids	Maximum	30	
		7-day average	25	
Tendering procedures not completed before Jul. 31, 2009; constructed, under construction or tendering procedures completed before Jul. 31, 2009 with an approved discharge volume at least 10,000 m³ per day	Chemical oxygen demand	Maximum	90	
		7-day average	70	
	Suspended solids	Maximum	25	
		7-day average	20	