

## Article Content

Title:	Effluent Standards CH				
Amended Date:	2019-04-29				
Category:	Environmental Protection Administration(行政院環境保護署)				
Attachment:	Table 1.pdf Table 2.pdf Table 3.pdf Table 4.pdf Table 5.pdf Table 6.pdf Table 7.pdf Table 8.pdf Table 9.pdf Table 10.pdf Table 11.pdf Table 12.pdf Table 13.pdf Table 14.pdf Table 14.pdf				

- Article 1 The Standards are established pursuant to Article 7, Paragraph 2 of the Water Pollution Control Act (hereinafter referred to as the "Act").
- The water quality items and limits for the effluent standards of Article 2 the enterprises, sewage systems and building sewage treatment facilities are specified below: I. Enterprises (I) Wafer and semiconductor manufacturing industry: Table 1. (II) Optoelectronic materials and components manufacturing industry: Table 2. (III) Petrochemical industry: Table 3. (IV) Chemical engineering industry: Table 4. (V) Primary metal industry, metal finishing industry, electroplating industry, and PCB manufacturing industry: Table 5. (VI) Power plant: Table 6. (VII) Seawater desalination plant : Table 7. (VIII) Industries other than those referred to in the preceding 7 subparagraphs: Table 8. II. Sewage systems (I) Dedicated sewage systems in science parks: Table 9.

(II) Dedicated sewage systems in petrochemical industrial parks:Table 10.

(III) Dedicated sewage systems in other industrial parks: Table 110.

(IV) Dedicated sewage systems in communities: Table 12.

(V) Dedicated sewage systems in other specified areas or places: Table 13.

(VI) Public sewage systems: Table 14.

III. Building sewage treatment facilities: Table 15. For the wastewater or sewage that an enterprise or sewage system discharges into a special receiving water body in the total quantity control zone (hereinafter referred to as the "Total Quantity Control Zone") of a water body for farmlands that must be protected as announced by the special municipality, county or city competent authority, the requirements of Table 16 shall be applicable to the limits of copper, zinc, total chromium, nickel, cadmium and hexavalent chromium in such wastewater or sewage. However, the requirements of Table 16 are not applicable in case enterprises or sewage systems located in the Total Quantity Control Zone do not discharge wastewater or sewage into a receiving water body in the Total Quantity Control Zone. Where other effluent standards are established for any industries or any enterprises, sewage systems and building sewage treatment facilities in the Total Quantity Control Zone, or the special municipality, county or city competent authority additionally establishes or more strictly revises the effluent standards in the area under their respective administration power pursuant to Article 7, Paragraph 2 of the Act, such effluent standards shall apply.

Table 1.pdf Table 2.pdf Table 3.pdf Table 4.pdf Table 5.pdf Table 6.pdf Table 7.pdf Table 8.pdf Table 9.pdf Table 10.pdf Table 11.pdf Table 12.pdf Table 13.pdf Table 14.pdf Table 15.pdf Table 16.pdf

Article 2-1 Requirements of Table 9 shall apply in case the permitted and approved sewer-connected water volume for the petrochemical and

chemical engineering industries with respect to a sewage system in an industrial park reaches more than fifty percent of the permitted and approved discharge volume. Requirements of Table 10 shall apply in case such permitted and approved sewerconnected water volume for the petrochemical and chemical engineering industries does not reach fifty percent of the permitted and approved discharge volume. The wastewater (sewage) discharged from seawater desalination plants is subject to the following effluent standards: I. When seawater is treated as raw water and brine, filtering and backwashing wastewater, membrane cleaning wastewater or other mixed treatment wastewater with regard to desalination is discharged, Table 7 shall apply. II. When the produced wastewater (sewage) is discharged through marine discharge pipes to the ocean, the Marine Discharge Pipe Effluent Standards shall apply.

- Article 3 Enterprises and the associations to which the enterprises belong or any environmental protection groups may put forward scientific data or information at any time as a reference for review and amendment.
- Article 4 The COD limits specified in the Standards shall be tested using the potassium dichromate oxidation method; the true color shall be tested using the true color colorimetry.
- Article 5 Terms used in the Standards shall be defined below: I. Total toxic organics: means the total concentration of 30 compounds: 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2,4-Trichlorobenzene, Toluene, Benzen, Chloroform, 1,2-Dichloroethane, Dichloromethane, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Bromodichloromethane, Perchloroethylene, Trichloroethylene, 1,1-Dichloroethene, 2-Chlorophenol, 2,4-Dichlorophenol, 4-Nitrophenol, Pentachlorophenol, 2-Nitrophenol, Phenol, 2,4,6-Trichlorophenol, Bis(2-ethylhexyl)phthalate, Dibutyl phthalate, Benzyl butyl phthalate, Anthanthrene, 1,2-Diphenylhydrazine, Isophorone, Carbon tetrachloride and Naphthalene.

II. Processes of high nitrogen connection in the petrochemical industry: means the following processes that uses nitrogen and produces wastewater with a volume reaching more than forty percent of the permitted and approved discharge volume: (I) Nitrogen trifluoride and electronic-grade liquid ammonia manufacture process.

(II) Chemical manufacture process of methyl methacrylate (MMA).(III) Acrylonitrile manufacture process.

(IV) Chemical manufacture process of acrylonitrile-butadiene (AB).

(V) Chemical manufacture process of acrylonitrile-butadiene-

styrene (ABS). (VI) Chemical manufacture process of acrylonitrile-butadienestyrene (AS). (VII) Caprolactam manufacture process. (VIII) Chemical manufacture process of ammonium sulfate. (IX) Polyamide (Nylon) manufacture process. III. Processes of high nitrogen connection in the chemical engineering industry: means the following processes that uses nitrogen and the chemical engineering industry that produces wastewater with a volume reaching more than forty percent of the permitted and approved discharged volume: (I) Chemical manufacture process of ammonium. (II) Nitrogenous fertilizer manufacture process. (III) Chemical manufacture process of ammonium fertilizer. (IV) Ammonium phosphate fertilizer manufacture process. (V) Compound fertilizer with nitrogen manufacture process. (VI) Nitrogen trifluoride manufacture process. (VII) Chemical manufacture process of ammonium sulfate. (VIII) Chemical manufacture process of ethylenediamine tetraacetate (EDTA). (IX) Other Ammonia-bearing compounds manufacture process. (X) Acrylonitrile manufacture process. (XI) Chemical manufacture process of urea. (XII) Aniline manufacture process. (XIII) Caprolactam manufacture process. (XI) Chemical manufacture process of ethanolamine. (XV) Chemical manufacture process of acid amine. (XVI) Other synthetic amine and nitrile compounds manufacture process. (XVII) Chemical manufacture process of Methyl methacrylate (MMA). (XVIII) Urethane manufacture process. (XIX) Urea formaldehyde resin manufacture process. (XX) Melamine resin manufacture process. (XXI) Polyacrylonitrile (PAN) fiber manufacture process. (XXII) Polyamide (nylon) manufacture process. (XXIII) Chemical manufacture process of acrylonitrile-butadiene copolymer (AB). (XXIV) Chemical manufacture process of acrylonitrile-butadienestyrene copolymer (ABS). (XXV) Chemical manufacture process of acrylonitrile-styrene copolymer copolymer (AS). (XXVI) Dye manufacture process (Azo dyes). (XXVII) Coke manufacture process, including coke and its byproduct, beehive coke, fluidized coke and petroleum coke manufacturing process. IV. Dioxin: The test value is calculated as the product of the

measured concentrations of 17 compounds, including 2,3,7,8-

tetrachlorinated dibenzo-p-dioxin-2,3,7,8-TeCDD, 2,3,7,8tetrachlorinated dibenzofuran, 2, 3, 7, 8-TeCDF and 2, 3, 7, 8- penta-, hexa-, hepta-, and octa-chlorinated dioxins and furans multiplied by the international dioxin toxic equivalency factors (I-TEF), and is expressed as Toxicity Equivalency Quantity (TEQ) of 2,3,7,8-tetrachlorinated dibenzo-p-dioxin quantity. V. Total organophosphates: Total amount of the 29 compounds, Methamidophos, Phosdrin (Mevinphos), Demeton-s-methyl, Ethoprophos, Monocrotophos, Phorate, Dimethoate, Terbufos, Diazinon, Dyfonate, Disulfoton, Methyl Parathion, Pirimifosmethyl, Fenitrothion, Malathion, Chlorpyrifos, Fenthion, Parathion, Bromophos-methyl, Phenthoate, Bromophos-ethyl, Methidathion, Prothiofos, Ethion, Triazophos, Carbophenothion, EPN, Phosalone and Azinphos-methyl. VI. Total carbamates: Total amount of the 9 compounds, Fenobucarb, Carbofuran, Methomyl, Undam, Isoprocarb, Oxamyl, Aldicarb, Carbaryl and Mercaptodimethur. VII. Herbicides: Total amount of the 7 compounds, Butachlor, Paraquat, 2,4-D, Alachlor, Chlornitrofen, Imazapyr, Glyphosate and Diquat. VIII. 7-Day average: Sampling every 4 to 8 hours and do 4 samples a day. Combining those 4 samples into 1 for analyzing and take the arithmetic mean of those samples from 7 continuous days.

- Article 6 The limits of all the items, except for the hydrogen ion concentration index defined as a range, are defined as a maximum allowed value with the following measuring units: I. Hydrogen ion concentration index: No unit. II. True color: No unit. III. True color: No unit. III. Coliform group: CFU/100mL. IV. Dioxin: pg I-TEQ/L. V. Other items: mg/L.
- Article 7 The limits of all the items, except for water temperature and hydrogen ion concentration index, of the non-contact cooling water that enterprises or sewage systems take from a water body and use it for cooling or circulation purpose are not subject to the Standards if it is discharged into the surface water body in the original water intake area.
- Article 8 In the event that enterprises, sewage systems, or building sewage treatment facilities belong to two or more industry types within the scope of the Standards or to a single industry type but have different processes, the combined treatment and discharge of wastewater shall conform to the effluent standards for each of the concerned industry types. If different control limits are available for the same control item, the stricter limit shall apply. In the event that the flow of wastewater from

one of the industry types in the preceding paragraph is at least 75% of the total flow of wastewater, and that independent and exclusive cumulative water measuring facilities have been installed, an application may be submitted to the competent authority for the use of the effluent standards of concerned industry type as the basis of control for all common items. The percentage of the flow of wastewater in the preceding paragraph shall be calculated in accordance with the records of the six months prior to the date of application.

Article 9 The Standards come into force on the promulgation date unless any other enforcement date is specified.

Web site : Laws & Regulations Database of The Republic of China

Table 1 Water quality items and limits of discharge from the wafer and semiconductor

manufacturing industry

Item		Limit	Remarks	
Water temperature	Discharge in	to non-marine	Lower than 38°C (for May to	Tentarito
water temperature	surface wate	r bodies	September)	
	surface water bodies		Lower than 35°C (for October	
			to next April)	
	Direct disch	arge to the ocean	Water temperature at discharge	
	Direct discha	arge to the ocean	$1 \text{ value temperature at discharge } 12 \text{ point } < 12^{\circ}\text{C}$ : temperature	
			difference of surface water	
			500m from discharge point <	
			4°C	
Hydrogen ion conce	Intration index	x	60-90	
Villiaumite		1	15	-
Nitrite nitrogen			50	-
Ammonia nitrogen	Discharged i	nto tan water quality	10	
7 miniona nitrogen	and volume	protection area	10	
	Discharged	Constructed under	30	
	into places	construction or	50	
	outside tan	tendering		
	water	procedures		
	quality and	completed before		
	volume	Dec.1. 2011		
	protection	Tendering	20	
	area	procedures not		
		completed before		
		Dec.1, 2011		
Orthophosphate	Discharged into tap water quality		4.0	
(calculated based and volume protection area				
on trivalent				
phosphate ion)				
Phenols		1.0		
Anion surfactant			10	
Cyanide			1.0	
Grease (Hexane extr	racts)		10	
Dissolved iron			10	
Dissolved manganes	se		10	
Cadmium	Constructed,	under construction	0.03	
	or tendering	procedures		
	completed before Dec.25, 2017			
	Constructed, under construction		0.02	In effect from Jan. 1,
	or tendering	procedures		2021.
	completed before Dec.25, 2017			
	with an appr	oved discharge		
	volume more	e than 500m <sup>3</sup> /day		
	Tendering procedures not		0.02	
	completed be	efore Dec.25, 2017		
Lead	Constructed,	under construction	1.0	
	or tendering	procedures		
	completed be	efore Dec.25, 2017		
	Constructed,	under construction	0.5	In effect from Jan. 1,
	or tendering	procedures		2021.
	completed be	etore Dec.25, 2017		
	with an appr	oved discharge		
	volume more than 500m <sup>3</sup> /day			

	-	-	
	Tendering procedures not completed before Dec.25, 2017	0.5	
Total chromium	Constructed, under construction	2.0	
	or tendering procedures		
	completed before Dec.25, 2017		
	Constructed, under construction	1.5	In effect from Jan. 1.
	or tendering procedures		2021
	completed before Dec 25, 2017		2021.
	with an approved discharge		
	volume more than $500 \text{m}^3/\text{day}$		
	Tendering procedures not	1.5	
	completed before Dec.25, 2017		
Hexavalent	Constructed, under construction	0.5	
chromium	or tendering procedures		
	completed before Dec.25, 2017		
	Constructed under construction	0.35	In effect from Ian 1
	or tendering procedures	0.00	2021.
	completed before Dec.25, 2017		
	with an approved discharge		
	volume more than $500 \text{ m}^3/\text{day}$		
	Tendering procedures not	0.35	
	completed before Dec.25, 2017		
Copper	Constructed under construction	3.0	
copper	or tendering procedures	5.0	
	completed before Dec 25, 2017		
	Constructed under construction	15	In effect from Ian 1
	or tendering procedures	1.5	2021
	completed before Dec 25, 2017		2021.
	with an approved discharge		
	volume more than 500m <sup>3</sup> /day		
	Tendering procedures not	15	
	completed before Dec 25, 2017	1.5	
Zinc	Constructed under construction	5.0	
Line	or tendering procedures	5.0	
	completed before Dec 25, 2017		
	Constructed under construction	3.5	In effect from Ian 1
	or tendering procedures	5.5	2021
	completed before Dec 25, 2017		2021.
	with an approved discharge		
	volume more than $500 \text{m}^3/\text{day}$		
	Tendering procedures not	3.5	
	completed before Dec.25, 2017	5.0	
Nickel	Constructed, under construction	1.0	
	or tendering procedures		
	completed before Dec.25, 2017		
	Constructed, under construction	0.7	In effect from Jan. 1.
	or tendering procedures		2021.
	completed before Dec.25, 2017		
	with an approved discharge		
	volume more than $500 \text{m}^3/\text{day}$		
	Tendering procedures not	0.7	
	completed before Dec.25, 2017		
Selenium	Constructed, under construction	0.5	
	or tendering procedures		
	completed before Dec.25, 2017		

	Constructed, under construction or tendering procedures completed before Dec.25, 2017 with an approved discharge	0.35	In effect from Jan. 1, 2021.
	volume more than 500m <sup>3</sup> /day		
	Tendering procedures not	0.35	
	completed before Dec.25, 2017		
Arsenic	Constructed, under construction	0.5	
	or tendering procedures		
	completed before Dec.25, 2017	0.25	
	Constructed, under construction	0.35	In effect from Jan. 1,
	or tendering procedures		2021.
	with an approved discharge		
	with an approved discharge volume more than $500m^3/day$		
	Tendering procedures not	0.35	
	completed before Dec 25, 2017	0.55	
Tin	Constructed, under construction	2.0	In effect from Jan. 1.
	or tendering procedures		2021.
	completed before Dec.25, 2017		
	with an approved discharge		
	volume more than 500m <sup>3</sup> /day		
	Tendering procedures not	1.0	
	completed before Dec.25, 2017		
Total mercury		0.005	
Silver		0.5	
Boron	Discharged into tap water quality	1.0	
	and volume protection area	5.0	
	Discharged into places outside	5.0	
	restantion area		
Molyhdenum	Constructed under construction	0.6	In affact from Ian 1
Worybuenum	or tendering procedures	0.0	$\frac{11}{2021}$
	completed before Dec 25, 2017		2021.
	Tendering procedures not	0.6	
	completed before Dec.25, 2017	0.0	
Sulfide	1	1.0	
Chemical oxygen de	emand	100	
Suspended solids		30	
Total toxic organics		1.37	
N-	Approved discharge volume	1.0	In effect from Jan. 1,
methylpyrrolidone	more than 10,000 m <sup>3</sup> per day		2021.
2-Methoxy-1-	except for those only engaging in	0.1	
propano	polishing, cutting, testing or		
Dimethylacetamide	packaging.	0.1	
Cobalt	]	1.0	
Antimony		1.0	

Table 2 Water quality items and limits of discharge from the optoelectronic materials and

Item		Limit	Remarks	
Water temperature	Discharge in surface wate	to non-marine r bodies	Lower than 38°C (for May to September)	
			Lower than 35°C (for October	-
			to next April)	
	Direct discha	arge to the ocean	Water temperature at discharge	
		C	point $\leq$ 42°C; temperature	
			difference of surface water	
			500m from discharge point $\leq$ 4°C	
Hydrogen ion concer	ntration index		6.0—9.0	
Villiaumite			15	
Nitrite nitrogen			50	
Ammonia nitrogen	Discharged i and volume	nto tap water quality protection area	10	
	Discharged	Constructed, under	30	-
	into places	construction or		
	outside tap	tendering		
	water	procedures		
	quality and	completed before		
	volume	Oct. 12, 2012		
	protection	Tendering	20	
	area	procedures not		
		completed before		
	Oct. 12, 2012			
Orthophosphate	Discharged into tap water quality		4.0	
(calculated based on and volume protection area				
trivalent phosphate				
ion)		1.0		
Phenols		1.0		
Anion surfactant			10	
Cyanide			1.0	
Grease (Hexane extra	acts)		10	
Dissolved iron			10	
Dissolved manganes	e	1	10	
Cadmium	Constructed,	under construction	0.03	
	or tendering	procedures		
	Completed be	under construction	0.02	In offect from Ion 1
	constructed,		0.02	
	completed by	fore Dec. 25, 2017		2021.
	with an appr	oved discharge		
	volume more	than 500m <sup>3</sup> /day		
Tondering pr		rocedures not	0.02	
	completed be	efore Dec. 25, 2017	0.02	
Lead	Constructed	under construction	1.0	-
2000	or tendering	procedures		
	completed be	efore Dec. 25. 2017		
	Constructed.	under construction	0.5	In effect from Jan. 1.
	or tendering	procedures		2021.
	completed be	efore Dec. 25, 2017		
	with an appr	oved discharge		
volume more than 500m <sup>3</sup> /day				

components manufacturing industry

	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 with an approved discharge	1.5	In effect from Jan. 1, 2021.
	volume more than 500m <sup>3</sup> /day Tendering procedures not	1.5	
	completed before Dec. 25, 2017		
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.
	with an approved discharge volume more than 500m <sup>3</sup> /day	0.25	
~	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 with an approved discharge	1.5	In effect from Jan. 1, 2021.
	volume more than 500m <sup>3</sup> /day Tendering procedures not	1.5	
Zinc	Constructed, under construction or tendering procedures	5.0	
	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume more than $500m^3/day$	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 with an approved discharge volume more than 500m <sup>3</sup> /day	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	0.35	In effect from Jan. 1, 2021.

	completed before Dec. 25, 2017		
	with an approved discharge		
	volume more than $500 \text{m}^3/\text{day}$		
	Tendering procedures not	0.35	
	completed before Dec. 25, 2017	0.55	
Arsenic	Constructed under construction	0.5	
1 li Senie	or tendering procedures	0.5	
	completed before Dec. 25, 2017		
	Completed before Dec. 25, 2017	0.25	In offect from Ion 1
	Constructed, under construction	0.55	In effect from Jan. 1,
	or tendering procedures		2021.
	completed before Dec. 25, 2017		
	with an approved discharge		
	volume more than 500m /day	0.25	
	Tendering procedures not	0.35	
	completed before Dec. 25, 2017		X 00 0 X 1
Tin	Constructed, under construction	2.0	In effect from Jan. 1,
	or tendering procedures		2021.
	completed before Dec. 25, 2017		
	with an approved discharge		
	volume more than 500m <sup>3</sup> /day		
	Tendering procedures not	1.0	
	completed before Dec. 25, 2017		
Total mercury		0.005	
Silver		0.5	
Boron	Discharged into tap water quality	1.0	
	and volume protection area		
	Discharged into places outside tap	5.0	
	water quality and volume		
	protection area		
Sulfide	·	1.0	
Biochemical oxygen	demand	30	
Chemical oxygen de	mand	100	
Suspended solids		30	
True color	Constructed, under construction	550	
	or tendering procedures	400	In effect from Jan. 1.
	completed before Dec. 25, 2017		2021.
	Tendering procedure not	300	
	completed before Dec. 25, 2017		
Free available	Constructed, under construction	2.0	In effect from Jan. 1.
residual chlorine	or tendering procedures		2021.
	completed before Dec. 25, 2017		
	Tendering procedure not	2.0	
	completed before Dec. 25, 2017	2.0	
Indium	·····	0.1	
Gallium		0.1	
Molyhdenum		0.6	
Total toxic organics		1 37	
N-	Approved discharge volume more	10	In effect from Ian 1
methylpyrrolidone	than 10 000 $\text{m}^3$ per day except for		2021
2-Methoxy_1_	those only engaging in polishing	0.1	
propano	cutting testing or packaging	0.1	
Dimethylacetamide	catting, testing of packaging.	0.1	-
N Methylformamida	4	1.0	-
Diothylona alvaal	4	1.0	4
dimothyl ether		1.0	
unneuryr ether			

Item		Limit	Remarks	
Water temperature	Discharge into no	n marina surface	Linit Lower than 28°C (for May to	Remarks
water temperature	Discharge mito no	ni-marme surface	September)	
	water boules		Lewen then 25°C (for October	
			Lower than 55 C (for October	
	D' (1' 1 )	4 41	W ( April)	
	Direct discharge	to the ocean	water temperature at	
			discharge point $\leq 42^{\circ}$ C;	
			temperature difference of	
			discharge point < 49C	
II			discharge point $\leq 4$ C	
Hydrogen ion conc	entration index		6.0—9.0	-
Nitrite nitrogen	D: 1 1:		50	
Ammonia nitrogen	Discharged into t	ap water quality	10	
	and volume prote	ection area		
	Discharged into	Non-high	20	
	places outside	nitrogen		
	tap water quality	processes		
	and volume	constructed,		
	protection area	under		
		construction or		
		finishing		
		tendering		
		procedures		
		before Dec. 1,		
		2011.		
		High nitrogen	60	
		processes		
		constructed,		
		under		
		construction or		
		finishing		
		tendering		
		procedures		
		before Dec. 1,		
		2011		
		Tendering	20	
		procedures not		
		completed before		
		Dec. 1, 2011		
Orthophosphate	Discharged into ta	ap water quality	4.0	
(calculated based	and volume prote	ection area		
on trivalent				
phosphate 10n)			1.0	
Phenols		1.0		
Anion surfactant		10		
Grease (Hexane extracts)			10	
Sulfide		1.0		
Chemical oxygen d	emand		100	
Suspended solids			30	
True color	Constructed, under	er construction or	550	
	tendering procedu	ures completed	400	In effect from Jan. 1,
	before Dec. 25, 2	017		2021.
	Tendering proced	lure not	300	
	completed before	Dec. 25, 2017		

Table 3 Water quality items and limits of discharge from the petrochemical industry

Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
	Tendering procedure not completed before Dec. 25, 2017	2.0	
Benzene		0.05	
Ethyl benzene		0.4	
Methylene	Petrochemical basic chemicals	0.2	
chloride	manufacturing industry,		
Chloroform	petrochemical midstream products	0.6	
1,2-dichloroethane	manufacturing industry,	0.10	
Vinyl chloride	petrochemical downstream	0.10	
Dimethyl phthalate (DMP)	products manufacturing industry	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)		0.2	
phthalate (DEHP)			
Acrylonitrile	Approved discharge volume more	0.2	In effect from Jan. 1,
1,2-butadiene	than 10,000 m <sup>3</sup> per day except for	0.1	2021.
	those only producing natural gas.		

	Item		Limit		Remarks
Water temperature	Discharge into not	n-marine surface	Lower than 38°C (for May to	)	
	water bodies		September)		
			Lower than 35°C (for Octobe	er	
			to next April)		
	Direct discharge to	o the ocean	Water temperature at dischar	ge	
	U		point $\leq 42^{\circ}$ C; temperature	0	
			difference of surface water		
			500m from discharge point <		
			4°C		
Hydrogen ion concern	tration index		60-90		
Villiaumite	dution macx		15		
Viniaunite Nitrita nitrogan			50		
	D' 1 1' ( )	. 1'.	30		
Ammonia nitrogen	Discharged into ta	p water quality	10		
	and volume protect	ction area			
	Discharged into	Manufacturers	20	1	. In effect from Jul. 1,
	places outside tap	of non-high			2014.
	water quality and	nitrogen		2	. In effect from Dec.
	volume	processes			31, 2017 for those
	protection area	constructed,			involving
		under			construction and
		construction or			improvement
		finishing			measures, submitting
		tendering			discharge pollutant
		procedures			reduction
		before Jan. 22,			management plan
		2014			before Mar. 31.
		-			2014, and acquiring
					the approval from
					the special
					municipality or
					county (city)
					county (City)
					to execute pursuant
			150		to the plan.
		Manufacturers	150		
		of high nitrogen	60	1	. In effect from Dec.
		processes			31, 2018.
		constructed,			
		under			
		construction or			
		finishing			
		tendering			
		procedures			
		before Jan. 22,			
		2014			
		Tendering	20		
		procedures not			
		completed			
		before Jan 22			
		2014			
Orthophosphate	Discharged into ta	n water quality	4.0		
(calculated based on	and volume protect	rtion area			
trivalent	and volume protect				
nhosphateion)					
phosphateron)	1				

Table 4 Water quality items and limits of discharge from the chemical engineering industry

Phenols		1.0	
Anion surfactant		10	
Cyanide		1.0	
Grease (Hexane e	xtracts)	10	
Dissolved iron		10	
Dissolved mangar	nese	10	
Cadmium	Constructed, under construction or	0.03	
	tendering procedures completed		
	before Dec. 25, 2017		
	Constructed, under construction or	0.02	In effect from Jan. 1,
	tendering procedures completed		2021.
	before Dec. 25, 2017 with an		
	approved discharge volume more than $500m^3/day$		
	Tendering procedures not completed	0.02	
<b>.</b>	before Dec. 25, 2017	0.02	
Lead	Constructed, under construction or	1.0	
	before Dec. 25, 2017		
	Constructed, under construction or	0.5	In effect from Jan. 1,
	tendering procedures completed		2021.
	before Dec. 25, 2017 with an		
	approved discharge volume more		
	than 500m /day	0.5	
	before Dec. 25, 2017	0.5	
Total chromium	Constructed, under construction or	2.0	
	tendering procedures completed before Dec. 25, 2017		
	Constructed under construction or	1.5	In effect from Ian 1
	tendering procedures completed	1.5	2021.
	before Dec. 25, 2017 with an		
	approved discharge volume more		
	than 500m <sup>3</sup> /day		
	Tendering procedures not completed before Dec. 25, 2017	1.5	
Hexavalent	Constructed, under construction or	0.5	
chromium	tendering procedures completed		
	before Dec. 25, 2017		
	Constructed, under construction or	0.35	In effect from Jan. 1,
	tendering procedures completed		2021.
	before Dec. 25, 2017 with an		
	approved discharge volume more		
	than 500m <sup>7</sup> /day	0.25	
	before Dec. 25, 2017	0.55	
Copper	Constructed under construction or	3.0	
соррег	tendering procedures completed	5.0	
	before Dec. 25. 2017		
	Constructed, under construction or	1.5	In effect from Jan. 1,
	tendering procedures completed		2021.
	before Dec. 25, 2017 with an		
	approved discharge volume more		
	than 500m <sup>3</sup> /day		
	Tendering procedures not completed before Dec. 25, 2017	1.5	

Zinc	Constructed, under construction or	5.0	
	before Dec. 25, 2017		
	Constructed, under construction or	3.5	In effect from Jan. 1,
	tendering procedures completed		2021.
	before Dec. 25, 2017 with an		
	approved discharge volume more than 500m3/day		
	Tendering procedures not completed	3.5	
	before Dec. 25, 2017	5.5	
Nickel	Constructed, under construction or	1.0	
	tendering procedures completed		
	before Dec. 25, 2017		
	Constructed, under construction or	0.7	In effect from Jan. 1,
	tendering procedures completed		2021.
	before Dec. 25, 2017 with an		
	approved discharge volume more $\frac{1}{2}$		
	Tendering procedures not completed	0.7	
	before Dec. 25, 2017	0.7	
Selenium	Constructed under construction or	0.5	
Belefildin	tendering procedures completed	0.5	
	before Dec. 25, 2017		
	Constructed, under construction or	0.35	In effect from Jan. 1,
	tendering procedures completed		2021.
	before Dec. 25, 2017 with an		
	approved discharge volume more		
	than 500m <sup>3</sup> /day		
	Tendering procedures not completed before Dec. 25, 2017	0.35	
Arsenic	Constructed, under construction or	0.5	
	tendering procedures completed		
	before Dec. 25, 2017		
	Constructed, under construction or	0.35	In effect from Jan. 1,
	tendering procedures completed		2021.
	before Dec. 25, 2017 with an		
	approved discharge volume more		
	Tandaring procedures not completed	0.35	
	before Dec. 25, 2017	0.55	
Tin	Constructed, under construction or	2.0	In effect from Jan. 1,
	tendering procedures completed		2021.
	before Dec. 25, 2017 with an		
	approved discharge volume more		
	than 500m <sup>2</sup> /day	1.0	
	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	5.0	
	water quality and volume protection		
	area		

Molybdenum	Constructed, under construction or	0.6	In effect from Jan. 1,
	before Dec. 25, 2017		2021.
	Tendering procedures not completed before Dec. 25, 2017	0.6	
Sulfide		1.0	
Formaldehyde		3.0	
Polychlorinated bi	phenyl	0.00005	
Dioxin	Vinyl chloride manufacturer	10	
	constructed, under construction or		
	finishing tendering procedures before Oct. 12, 2012		
	Vinyl chloride manufacturer not	5	
	finishing tendering procedures before Oct. 12, 2012		
Biochemical oxyg	en demand	30	
Chemical oxygen	demand	100	
Suspended solids		30	
True color	Constructed, under construction or	550	
	tendering procedures completed	400	In effect from Jan. 1.
	before Dec. 25, 2017		2021.
	Tendering procedures not completed before Dec. 25, 2017	300	
Free available	Constructed, under construction or	2.0	In effect from Jan. 1,
residual chlorine	tendering procedures completed before Dec. 25, 2017		2021.
	Tendering procedures not completed before Dec. 25, 2017	2.0	
Cobalt	Basic chemicals, other chemical materials, coating materials, dyes and paints, other chemical products and	1.0	
	battery manufacturing industries		
Barium	Basic chemicals artificial fiber	2.0	
Methylene	synthetic resin plastic and rubber	0.2	
chloride	other chemical materials coating	0.2	
Chloroform	materials, dves and paints, cleaning	0.6	
	products, cosmetic, other chemical	0.0	
	products and battery manufacturing		
Democratic	Industries	0.05	
Benzene	Basic chemicals, synthetic resin,	0.05	
Ethyl benzene	plastic and rubber, other chemical	0.4	
1,2-	materials, coating materials, dyes and	0.10	
Viewl oblogido	products manufacturing industries	0.10	
Vinyi chioride	products manufacturing moustries	0.10	
Dimetnyi		0.2	
Diothyl phtholot-	4	0.4	
(DEP)		0.4	
Dibutyl phthalate (DBP)		0.4	
Benzyl butyl		0.4	
Di n ootvi	4	0.6	
phthalate (DNOP)		0.0	
Bis(2-ethylhexyl) phthalate (DEHP)		0.2	
r		1	

Nitrobenzene		0.4	
Trichloroethylene		0.3	
Acrylonitrile	Approved discharge volume more	0.2	In effect from Jan. 1,
1,2-butadiene	than 10,000 m <sup>3</sup> per day except for	0.1	2021.
	those only producing fertilizers or		
	using lime or coal products for		
	manufacture.		

Table 5 Water quality items and limits of discharge from the primary metal industry, metal

	Item		Limit	Remarks	
Water	Discharge into n	on-marine su	rface water	Lower than 38°C (for	
temperature	bodies			May to September)	
-				Lower than 35°C (for	
				October to next April)	
	Direct discharge	to the ocean		Water temperature at	
	er e		discharge point $\leq$ 42°C;		
				temperature difference of	
				surface water 500m from	
				discharge point $\leq$ 4°C	
Hydrogen ion co	oncentration inde	X		6.0 - 9.0	
Villiaumite				15	
Nitrite nitrogen				50	
Ammonia	Primary metal	Discharged i	nto tap water	10	
nitrogen	industry, metal	quality and y	volume		
U	finishing	protection ar	ea		
	industry,	1			
	electroplating				
	industry, and				
	PCB				
	manufacturing				
	industry				
	Metal finishing	Discharged	Constructed,	150	In effect from Jan. 1,
	industry,	into places	under		2021.
	electroplating	outside tap	construction	120	In effect from Jan. 1,
	industry	water	or tendering		2024.
		quality and	procedures	60	In effect from Jan. 1,
		volume	completed		2027.
		protection	before Dec.		
		area	25, 2017		
			Tendering	20	
			procedure		
			not		
			completed		
			before Dec.		
			25, 2017		
Orthophosphate	Discharged into	tap water qua	ality and	4.0	
(calculated	volume protection	on area			
based on					
trivalent					
phosphateion)				1.0	
Phenols				1.0	
Anion surfactant	t			10	
Cyanide				1.0	
Grease (Hexane	extracts)			10	
Dissolved iron				10	
Dissolved mang	anese	-		10	
Cadmium	Constructed, un	der constructi	on or	0.03	
	tendering procee	dure complete	ed before		
	Dec. 25, 2017				

finishing industry, electroplating industry, PCB manufacturing industry

	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m <sup>3</sup> /day, or PCB manufacturing industry with an approved discharge volume more than 500m <sup>3</sup> /day Tendering procedures not completed	0.02	In effect from Jan. 1, 2021.
Lead	before Dec. 25, 2017 Constructed, under construction or tendering procedure completed before	1.0	
	Dec. 25, 2017 Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m <sup>3</sup> /day, or PCB manufacturing industry with an approved discharge volume more than 500m <sup>3</sup> /day	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 procedure completed before	2.0	
	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m <sup>3</sup> /day, or PCB manufacturing industry with an approved discharge volume more than 500m <sup>3</sup> /day	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 procedure completed before Dec. 25, 2017	0.5	
	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m <sup>3</sup> /day, or PCB manufacturing industry with an approved discharge volume more than 500m <sup>3</sup> /day	0.35	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	0.35	
Copper	Constructed, under construction or tendering procedure completed before Dec. 25, 2017	3.0	

	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m <sup>3</sup> /day, or PCB manufacturing industry with an approved	1.5	In effect from Jan. 1, 2021.
	discharge volume more than 500m <sup>3</sup> /day Tendering procedures not completed before Dec. 25, 2017	1.5	
Zinc	Constructed, under construction or tendering procedure completed before Dec. 25, 2017	5.0	
	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m <sup>3</sup> /day, or PCB manufacturing industry with an approved discharge volume more than 500m <sup>3</sup> /day	3.5	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	3.5	
Nickel	Constructed, under construction or tendering procedure completed before Dec. 25, 2017	1.0	
	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m <sup>3</sup> /day, or PCB manufacturing industry with an approved discharge volume more than 500m <sup>3</sup> /day	0.7	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	0.7	
Selenium	Constructed, under construction or tendering procedure completed before Dec. 25, 2017	0.5	
	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m <sup>3</sup> /day, or PCB manufacturing industry with an approved discharge volume more than 500m <sup>3</sup> /day	0.35	In effect from Jan. 1, 2021.
	before Dec. 25, 2017	0.55	
Arsenic	Constructed, under construction or tendering procedure completed before Dec. 25, 2017	0.5	

	Electroplating in	ndustry, metal finishing	0.35	In effect from Jan. 1,
	industry, and pri	imary metal industry		2021.
	constructed, und	ler construction or		
	finishing tenderi	ing procedures before Dec.		
	25, 2017 with an	n approved discharge		
	volume more than 150m <sup>3</sup> /day, or PCB			
manufacturing industry with an approved				
	discharge volum	he more than $500 \text{ m}^3/\text{day}$		
	Tendering proce	edures not completed	0.35	
	before Dec. 25,	2017		
Tin	Electroplating in	dustry, metal finishing	2.0	In effect from Jan. 1,
	industry, and pri	imary metal industry		2021.
	constructed, und	ler construction or		
	finishing tenderi	ing procedures before Dec.		
	25, 2017 with an	n approved discharge		
	volume more that	an 150m <sup>3</sup> /day, or PCB		
	manufacturing in	ndustry with an approved		
	discharge volum	he more than 500m <sup>3</sup> /day		
	Tendering proce	edures not completed	1.0	
	before Dec. 25,	2017		
Total mercury			0.005	
Silver	•		0.5	
Boron	Primary metal	Discharged into tap water	1.0	
	industry, PCB	quality and volume		
	manufacturing	protection area		
	industry	Discharged into places	5.0	
		outside tap water quality		
		and volume protection		
		area		
	Metal finishing	Discharged into tap water	1.0	
	industry, electroplating industry	quality and volume		
		protection area		
		Discharged into places	12	
		outside tap water quality and volume protection area	10	In effect from Jan. 1,
				2024.
			5.0	In effect from Jan. 1,
				2027.
Molybdenum	Constructed, une	der construction or	0.6	In effect from Jan. 1.
	tendering procee	dures completed before		2021.
	Dec. 25, 2017			
	Tendering proce	edures not completed	0.6	
0.101	before Dec. 25,	2017	1.0	
Sulfide			1.0	
Chemical	Primary metal in	idustry, metal finishing	100	
oxygen demand	industry, electro	plating industry	120	
<b>a</b> 1.1	PCB manufactur	ring industry	120	
Suspended	Primary metal in	nustry, metal finishing	50	
sonas	DCD means	plaung moustry	50	
Discharding!	PCD manufactur	ring moustry	50	
Diochemical	гсь manufactur	ing moustry	50	
oxygen uemanu	1		1	

Item		Limit		Remarks
Water	Discharge into non marine surface	Linit	or May to	Kemarks
temperature	water bodies	September)	01 11111111	
temperature	water boules	Lower than 35°C (f	or October	
		to next April)		
	Direct discharge to the ocean	Water temperature	at discharge	
		point $\leq 42^{\circ}$ C; temp	erature	
		difference of surfac	e water	
		500m from discharg	ge point $\leq$	
		4°C		
Hydrogen ion co	ncentration index	6.0 - 9.0		
Villiaumite		15		
Nitrite nitrogen		50		
Ammonia	Discharged into tap water quality	10		
nitrogen	and volume protection area		•	
	Discharged into places outside tap	Generating units	150	In effect from Jan. 1, 2021.
	water quality and volume protection	constructed, under	100	In effect from Jan. 1, 2024.
	area	construction or	60	In effect from Jan. 1, 2027.
		finishing tendering		
		procedures before		
		Dec. 25, 2017	20	
		Generating units	20	
		tendering		
		procedures before		
		$D_{ec}$ 25 2017		
Orthophosphate	Discharged into tap water quality	4 0		
(calculated	and volume protection area	0		
based on				
trivalent				
phosphate ion)				
Phenols		1.0		
Anion surfactant		10		
Grease (Hexane	extracts)	10		
Dissolved iron		10		
Dissolved manga	anese	10		
Cadmium		0.03		
Lead		1.0		
Total chromium		2.0		
Hexavalent chro	mium	0.5		
Total mercury	Power plants constructed, under	0.005		
	construction or finishing tendering			
	procedures before Dec. 25, 2017			
	Coal-fired generating units	0.002		In effect from Jan. 1, 2021.
	constructed, under construction or			
	finishing tendering procedures			
	before Dec. 25, 2017 and producing			
	flue gas desulfurization wastewater			
	discharged into treatment facilities			
	Coal-fired generating units not	0.002		
	finishing tendering procedures			
	before Dec. 25, 2017 and producing			
	flue gas desulfurization wastewater			
0	discharged into treatment facilities	2.0		
Copper		5.0		

Table 6 Water quality items and limits of discharge from power plants

Ite		Limit		Remarks
Water	III Discharge into non marine surface	Lower than 28°C (for May to		
temperature	water bodies	September)	Wiay to	
temperature	water bodies	Lower than 35°C (for	October	
		to next April)	OCIODEI	
	Direct discharge to the ocean	Water temperature at	discharge	
	Direct discharge to the ocean	$r_{oint} < 42^{\circ}C^{\circ}$ temper	ature	
		difference of surface	water	
		500m from discharge	noint <	
		4°C	Point -	
Hydrogen ion co	ncentration index	6.0 - 9.0		
Villiaumite		15		
Nitrite nitrogen		50		
Ammonia	Discharged into tap water quality	10		
nitrogen	and volume protection area	10		
	Discharged into places outside tap	Generating units	150	In effect from Jan. 1, 2021.
	water quality and volume	constructed, under	100	In effect from Jan. 1, 2024.
	protection area	construction or	60	In effect from Jan. 1, 2027.
	r	finishing tendering	00	
		procedures before		
		Dec. 25, 2017		
		Generating units	20	
		not finishing		
		tendering		
		procedures before		
		Dec. 25, 2017		
Orthophosphate	Discharged into tap water	4.0		
(calculated	quality and volume protection			
based on	area			
trivalent				
phosphate ion)				
Phenols		1.0		
Anion surfactant	· · · · · · · · · · · · · · · · · · ·	10		
Grease (Hexane	extracts)	10		
Dissolved iron		10		
Dissolved manga	anese	10		
Cadmium		0.03		
Lead		1.0		
Total chromium		2.0		
Hexavalent chro	mium	0.5		
Total mercury	Power plants constructed, under	0.005		
	construction or finishing			
	tendering			
	procedures before Dec. 25, 2017	0.000		
	Coal-fired generating units	0.002		In effect from Jan. 1, 2021.
	constructed, under construction or			
	haforo Dog. 25, 2017 and			
	producing flue and desulfurization			
	wastewater			
	discharged into treatment facilities			
	Coal-fired generating units not	0.002		
	finishing tendering procedures	0.002		
	before Dec. 25, 2017 and			
	producing flue gas desulfurization			
	wastewater			
	discharged into treatment facilities			
Copper	· · · · · · · · · · · · · · · · · · ·	3.0		

Table 6 Water quality items and limits of discharge from power plants

Zinc		5.0	
Silver		0.5	
		0.5	
Nickel		1.0	
Selenium	Power plants constructed, under	0.5	
	construction or finishing tendering		
	procedures before Dec. 25, 2017		
	Coal-fired generating units	0.3	In effect from Jan. 1, 2021.
	constructed, under construction or		
	finishing tendering procedures		
	before Dec. 25, 2017 and producing		
	flue gas desulfurization wastewater		
	discharged into treatment facilities		
	Cool fired concerting write not	0.1	
	Coal-fired generating units not	0.1	
	finishing tendering procedures		
	before Dec. 25, 2017 and producing		
	flue gas desulfurization wastewater		
	discharged into treatment facilities		
Arsenic	Power plants constructed, under	0.5	
	construction or finishing tendering		
	procedures before Dec. 25, 2017		
	Coal-fired generating units	0.1	In effect from Ian 1 2021
	constructed under construction or	0.1	
	finishing tandaring procedures		
	hinsing tendering procedures		
	before Dec. 25, 2017 and producing		
	flue gas desulfurization wastewater		
	discharged into treatment facilities		
	Coal-fired generating units not	0.1	
	finishing tendering procedures		
	before Dec. 25, 2017 and producing		
	flue gas desulfurization wastewater		
	discharged into treatment facilities		
Boron	Discharged into tan water quality	1.0	
DOIOII	and volume protection area	1.0	
	Discharged into places outside ter	5.0	
	Discharged into places outside tap	5.0	
	water quality and volume protection		
~ 1.7 1	area		
Sulfide		1.0	
Biochemical o	xygen demand	30	
Chemical oxyg	gen demand	100	
Suspended sol	ids	30	
Total residual	chlorine( or chlorine-produced	0.5	1 Total residual chlorine
oxidants )			is subject to an offluent
, ,			
			salinity of less than 10
			psu (Practical Salinity
			Unit)
			2. The chlorine-produced
			oxidants is subject to an
			effluent salinity of
			enruent samily of
			greater than or equal to
			10 psu (Practical
			Salinity Unit). This
			should be tested using
			the chlorine-produced
			oxidants testing method
			but the total residual
			but the total residual
			chlorine testing method
			shall be used before the
			chlorine-produced
			oxidants testing method
			is announced.

10010 /	Water quality Remis and minus of dise.	harge from sea water desamat		-
Item		Limit	Remarks	
Water	Discharge into non-marine surface	Lower than 38°C (for		
temperature	water bodies	May to September)		
		Lower than 35°C (for		
		October to next April)		
	Direct discharge to the ocean	Water temperature at		
	-	discharge point $\leq$ 42°C;		
		temperature difference of		
		surface water 500m		
		from discharge point $\leq$ 4°C		
Hydrogen ion c	concentration index	6.0~9.0		
Chemical oxyg	en demand	100		
Suspended soli	ds	50		
Total residual o	chlorine( or chlorine-produced	0.5	1. Total residual chlorine is	-
oxidants )	F		subject to an effluent	
,			salinity of less than 10 psu	
			(Practical Salinity Unit)	
			2. The chlorine-produced	
			oxidants is subject to an	
			effluent salinity of greater	
			than or equal to 10 psu	
			(Practical Salinity Unit)	
			This should be tested using	
			the chlorine-produced	
			oxidants testing method bu	it
			the total residual chlorine	
			testing method shall be use	a
			before the	d
			chloring-produced ovidants	
			testing method is	
			announced	
Ammonia nitro	aren	20	announced.	-
Anion surfactor		10		_
Grasse (Heyan	a avtracts)	10		註解 [KH1]:
Dissolved iron		10		百六,「险谢了田西迁州潮」,日前目
Dissolved non	ranaca	10		原义: " 展離丁芥面活性剤」, 日刖定
Cadmium	ganese	0.02		依照之前舊版的英譯:「Anion
Laad		1.0		
Total abromium		1.0		surfactant」,剛好有查詢到網路上還
I otal chroninun		2.0		有另一譯文·「Anionic surfactant」,提
Hexavalent chr	omium	0.5		月75 时入. Amonie surfaceant 」 De
Total mercury		0.005		供給您參考,再煩請確認~
Copper		3.0	(	-
Zinc		5.0		4
Silver		0.5		_
Nickel		1.0		
Selenium		0.5		
Arsenic		0.5		

Table 7 Water quality items and limits of discharge from seawater desalination plants

Table 8 Water quality items and limits of discharge from the industries other than the wafer and semiconductor manufacturing industry, optoelectronic materials and components manufacturing industry, petrochemical industry, chemical engineering industry, primary metal industry, metal finishing industry, electroplating industry, PCB manufacturing industry, power plant and seawater desalination plants

Scope		Item	Limit	Remarks
All	Water	Discharge into non-	Lower than 38°C (for	
	temperature	marine surface water	May to September)	
		bodies	Lower than 35°C (for	
			October to next April)	
		Direct discharge to the	Water temperature at	
		ocean	discharge point $\leq$ 42°C;	
			temperature difference	
			of surface water 500m	
			from discharge point $\leq$	
			4°C	
	Hydrogen ion	concentration index	6.0—9.0	
	Villiaumite		15	
	Nitrite nitroger	1	50	This is not applicable to total
				nitrogen control.
	Ammonia	Discharged into tap	10	1. For ammonia nitrogen
	nitrogen	water quality and		and orthophosphate
		volume protection area		control in the livestock
	Orthophospha	Discharged into tap	4.0	industry, the competent
	te (calculated	water quality and		authority will announce
	based on	volume protection area		the control date and
	trivalent			effluent standard in
	phosphate			consultation with the
	ion)			authority in charge of the
				industry.
				2. Orthophosphate is not
				applicable to total
				phosphorus control.
	Phenols		1.0	
	Anion surfactant		10	
	Cyanide		1.0	
	Grease (Hexane extracts)		10	
	Dissolved iron		10	
	Dissolved manganese		10	
	Cadmium		0.03	
	Lead		1.0	
	Total chromiun	n	2.0	
	Hexavalent chi	omium	0.5	
	Methyl mercur	у	0.0000002	
	Total mercury		0.005	
	Copper		3.0	
	Zinc		5.0	
	Silver		0.5	
	Nickel		1.0	
	Selenium		0.5	
	Arsenic		0.5	
	Boron	Discharged into tap	1.0	
		water quality and		
		volume protection area		

	Discharged into places	5.0	
	outside tap water quality		
	and volume protection		
	area		
Sulfide	·	1.0	
Formaldehyde		3.0	
Polychlorinated	d biphenyl	0.00005	
Total organic r	phosphate agent	0.5	
Total carbamat	e	0.5	
Herbicide		1.0	
Endoculfan		0.03	
Endosunan		0.002	
		0.0002	
Lindane	1 1	0.004	
Heptachlor and	1 derivatives	0.001	
DDT and deriv	atives	0.001	
Aldrin and Die	ldrin	0.003	
Pentrachloroph	enol and its salts	0.005	
Toxaphene		0.005	
Pentachloronit	robenzene	0.00005	
Folpet		0.00025	
Captafol		0.00025	
Captan		0.00025	
Dioxin	Paper pulp industry or	10	
DIOXIII	other industries that are	10	
	aquipped with weste		
	incinerators have air		
	nellution control		
	againment with wat or		
	equipment with wet of		
	semi-dry scrubbers, that		
	are constructed, under		
	construction or finish		
	tendering procedures		
	before Oct. 12, 2012		
	Paper pulp industry or	5	
	other industries that are		
	equipped with waste		
	incinerators, have air		
	pollution control		
	equipment with wet or		
	semi-dry scrubbers		
	that are not constructed		
	under construction or		
	do not finish tendering		
	ao not minisir tendering		
	procedures before Oct.		
	12, 2012		
	Steam supply industry	10	In effect from Jul. 1, 2020
	constructed. under		· · · · · · · · · · · · · · · · · · ·
	construction or		
	tendering procedures		
	completed before Apr		
	20 2010		
	27, 2017	1	

		Steam supply industry with tendering procedures not completed before Apr. 29, 2019	5	In effect from Jul. 1, 2020
Pharmaceutical	Biochemical or	kygen demand	30	
manufacturing	Chemical oxyg	en demand	100	
industry	Suspended soli	ds	30	
	True color	Constructed under	550	
		construction or tendering	400	In effect from Ian 1 2021
		procedures completed	100	
		before Dec. 25, 2017		
		Tendering procedures	300	
		not completed before		
		Dec. 25, 2017		
	Free available	Constructed, under	2.0	In effect from Jan. 1, 2021.
	residual	construction or tendering		,
	chlorine	procedures completed		
		before Dec. 25, 2017		
		Tendering procedures	2.0	
		not completed before		
		Dec. 25, 2017		
Pesticide and	Biochemical or	kygen demand	30	
environmental and	Chemical oxyg	en demand	100	
sanitation agent	Suspended soli	ds	30	
manufacturing	True color	Constructed, under	550	
industry		construction or tendering	400	In effect from Jan. 1, 2021.
		procedures completed		
		before Dec. 25, 2017		
		Tendering procedures	300	
		not completed before		
		Dec. 25, 2017		
	Free available	Constructed, under	2.0	In effect from Jan. 1, 2021.
	residual	construction or tendering		
	chlorine	procedures completed		
		before Dec. 25, 2017		
		Tendering procedures	2.0	
		not completed before		
		Dec. 25, 2017		
	Molybdenum	Constructed, under	0.6	In effect from Jan. 1, 2021.
		construction or tendering		
		procedures completed		
		before Dec. 25, 2017		
		Tendering procedures	0.6	
		not completed before		
Dubben mento studio a	Dischamical or	Dec. 25, 2017	20	
Rubber manufacturing	Chamical or	an demend	30	
mausury	Chemical oxyg	de	100	
Westmahing	Biochemical or	us waan damand	30	
wool wasning	Chamical orve	an demend	100	
maasay	Susponded soli	de	100	
	True color	us Constructed on den	550	
	True color	Constructed, under	330	In official from Law 1, 2021
		procedures completed	400	in effect from Jan. 1, 2021.
		before Dec. 25, 2017		
		Tondoring procedures	300	
		not completed before	500	
		Dec. $25$ 2017		
	Free available	Constructed under	2.0	In effect from Ian 1 2021
	residual	construction or tendering	2.0	
	chlorine	procedures completed		
		before Dec. 25, 2017		

			Tendering procedures not completed before	2.0	
Tortilo in	ductor	Dischamical or	Dec. 25, 2017	20	
Textile III	uusu y	Chamical oxyg	an domand	100	
	Suspended solids		30		
		True color	Constructed under	550	
		The color	construction or tendering	400	In effect from Ian 1 2021
			procedures completed	100	in enece nom san. 1, 2021.
			before Dec. 25, 2017		
			Tendering procedures	300	
			not completed before		
			Dec. 25, 2017		
		Free available	Constructed, under	2.0	In effect from Jan. 1, 2021.
		residual	construction or tendering		
		chlorine	procedures completed		
			before Dec. 25, 2017	2.0	
			Tendering procedures	2.0	
			Dec. 25, 2017		
H	Printing and	Biochamical or	Dec. 25, 2017	30	
Prin	woven	Chamical array		30	
ıtin	fabric	Chemical oxyg		100	
âà	dveing	Suspended soll	QS Constructed under	30	
lye	uyenig	True color	constructed, under	550	
ing			procedures completed	400	In effect from Jan. 1, 2021.
an			bafora Dag. 25, 2017		
d fi			Tendering procedures	300	
nis			not completed before	500	
hin			Dec. 25. 2017		
g II		Free available	Constructed, under	2.0	In effect from Jan. 1, 2021.
ndu		residual	construction or tendering		,
str		chlorine	procedures completed		
Y			before Dec. 25, 2017		
			Tendering procedures	2.0	
			not completed before		
			Dec. 25, 2017		
	Cheese and	Biochemical or	kygen demand	30	
	hank	Chemical oxyg	en demand	140	
	dyeing,	Suspended soli	ds	30	
	knitted and	True color	Constructed, under	550	
	non-woven		construction or tendering	400	In effect from Jan. 1, 2021.
	Tablic uying		procedures completed		
			Defore Dec. 25, 2017	300	
			not completed before	500	
			Dec. 25, 2017		
		Free available	Constructed, under	2.0	In effect from Jan. 1. 2021.
		residual	construction or tendering		· · · · · · · · · · · · · · · · · · ·
		chlorine	procedures completed		
			before Dec. 25, 2017		
			Tendering procedures	2.0	
			not completed before		
			Dec. 25, 2017		
	Finishing,	Biochemical ov	kygen demand	30	
	paper	Chemical oxyg	en demand	100	
	printing,	Suspended soli	ds	30	
	brushing,	True color	Constructed, under	550	
	chipping,		construction or tendering	400	In effect from Jan. 1, 2021.
	those not		procedures completed		
		1	Delote Dec. 23, 2017	1	

	belonging to		Tendering p	procedure not	300	
	two		25, 2017	before Dec.		
	categories	Free available	Constructed	l, under	2.0	In effect from Jan. 1, 2021.
		residual	construction	n or tendering		
		chlorine	procedures	completed		
			Tendering 1	procedure not	2.0	
			completed	before Dec.		
			25, 2017			
Lea	Manufactur	Biochemical ox	kygen demar	nd	30	
uthe	finished	Chemical oxyg	en demand		160	
r m	leather from	True color	us Constructer	l under	550	
akir	rawhide	The color	construction	n or tendering	400	In effect from Jan. 1, 2021.
ng i			procedures	completed		· · · · · · · · · · · · · · · · · · ·
ndu			before Dec.	25, 2017		
stry			Tendering p	procedure not	300	
7			25, 2017	before Dec.		
		Free available	Constructed	l, under	2.0	In effect from Jan. 1, 2021.
		residual	construction	n or tendering		
		chlorine	procedures	completed		
			before Dec.	25, 2017	2.0	
			completed	before Dec	2.0	
			25, 2017			
		Ammonia	Discharge	Constructed,	150	In effect from Jan. 1, 2021.
		nitrogen	d into	under	60	In effect from Jan. 1, 2024.
			places	construction		
			outside tap	or tendering		
			quality	completed		
			and	before Dec.		
			volume	25, 2017		
			protection			
			alea	Tendering	20	
				procedure		
				not		
				completed		
				before Dec.		
	Manufactur	Biochemical or	xvgen demar	23, 2017 nd	30	
	ers making	Chemical oxyg	en demand		200	
	finished	Suspended soli	ds		30	
	leather from	True color	Constructed	l, under	550	
	wet blue		construction	n or tendering	400	In effect from Jan. 1, 2021.
			before Dec	25 2017		
			Tendering 1	procedure not	300	
			completed	before Dec.		
			25, 2017			
		Free available	Constructed	l, under	2.0	In effect from Jan. 1, 2021.
		chlorine	procedures	completed		
			before Dec.	25, 2017		
			Tendering p	procedure not	2.0	
			completed	before Dec.		
	1		25, 2017			

	Manufactur	Biochemical oxygen demand		30	
	ers other	Chemical oxygen demand		100	
	than those	Suspended soli	ds	30	
	"making	True color	Constructed, under	550	
	finished		construction or tendering	400	In effect from Jan. 1, 2021.
	leather from		procedures completed		
	rawhide",		before Dec. 25, 2017		
	"and		Tendering procedure not	300	
	making		completed before Dec.		
	finished		25, 2017		
	leather from	Free available	Constructed, under	2.0	In effect from Jan. 1, 2021.
	wet blue"	residual	construction or tendering		
		chlorine	procedures completed		
			before Dec. 25, 2017		
			Tendering procedure not	2.0	
			completed before Dec.		
			25, 2017		
Paper pul	p industry	Chemical oxyg	en demand	150	
		Suspended soli	ds	50	
		True color	Constructed, under	550	
			construction or tendering	400	In effect from Jan. 1, 2021.
			procedures completed		
			before Dec. 25, 2017		
			Tendering procedure not	300	
			completed before Dec.		
			25, 2017	2.0	
		Free available	Constructed, under	2.0	In effect from Jan. 1, 2021.
		residual	construction or tendering		
		chlorine	before Dec. 25, 2017		
			Defore Dec. 25, 2017	2.0	
			completed before Dec	2.0	
			25 2017		
н	Waste paper	<b>Biochemical</b> or	zs, zor /	30	
ap	not used as	Chemical oxyg	en demand	100	
err	raw material	Suspended soli	ds	30	
nal	iuw materia	True color	Constructed under	550	
cin:			construction or tendering	400	In effect from Ian 1 2021
G II.			procedures completed	400	in chect nom suit 1, 2021.
ıdu			before Dec. 25, 2017		
stry			Tendering procedure not	300	
~			completed before Dec.		
			25, 2017		
		Free available	Constructed, under	2.0	In effect from Jan. 1, 2021.
		residual	construction or tendering		
		chlorine	procedures completed		
			before Dec. 25, 2017		
			Tendering procedure not	2.0	
			completed before Dec.		
			25, 2017		
	Waste paper	Biochemical or	kygen demand	30	
	used as raw	Chemical oxyg	en demand	180	
	material to	Suspended soli	ds	30	
	more than	True color	Constructed, under	550	
	60%		construction or tendering	400	In effect from Jan. 1, 2021.
			procedures completed		
			before Dec. 25, 2017		

			Tendering procedure not completed before Dec. 25, 2017	300	
		Free available	Constructed, under	2.0	In effect from Jan. 1, 2021.
		residual	construction or tendering		· · · · · · · · · · · · · · · · · · ·
		chlorine	procedures completed before Dec. 25, 2017		
			Tendering procedure not completed before Dec.	2.0	
	Weste paper	Dischamical or	25, 2017	20	
	waste paper	Chamical or	xygen demand	30	
	material to	Susponded soli	de	30	
	less than	True color	Constructed under	550	
	60%	The color	construction or tendering	400	In effect from Ian 1 2021
			procedures completed before Dec. 25, 2017	+00	in chect nom san. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017	300	
		Free available	Constructed under	2.0	In effect from Jan. 1, 2021.
		residual	construction or tendering		
		chlorine	procedures completed		
			before Dec. 25, 2017		
			Tendering procedure not completed before Dec. 25, 2017	2.0	
Mining in	ndustrv.	Chemical oxyg	en demand	100	
ceramic i	ndustry, earth	Suspended soli	ds	50	
and stone	extracting				
industry	C				
Earth and	l gravel	Chemical oxyg	en demand	100	
processin	g industry	Suspended soli	ds	50	
				150	Applicable to sand and stone produced during dredging and used as raw material without involving extraction of earth and stone, but not including application in violation of Article 18-1 of the Act.
Glass ma	nufacturing	Chemical oxyg	en demand	100	
industry		Suspended soli	ds	50	
Cement in	ndustry	Chemical oxyg	en demand	100	
01 1	•	Suspended soli	ds	50	
Other ind	lustries	Biochemical of	kygen demand	30	
		Chemical oxygen demand		100	
		True color	US Constructed under	550	
		True color	construction or tendering	400	In affact from Ian 1 2021
			procedures completed	400	In effect from Jan. 1, 2021.
			before Dec. 25, 2017		
			Tendering procedure not completed before Dec.	300	
		Free available	Constructed under	2.0	In effect from Ian 1 2021
		residual	construction or tendering	2.0	in oncor nom Jan. 1, 2021.
		chlorine	procedures completed		
			before Dec. 25, 2017		

		Tendering p completed b 25, 2017	procedure not before Dec.	2.0	
	Molybdenum	Constructed	lunder	0.6	In effect from Ian 1 2021
	Worybacham	construction	n or tendering	0.0	in chiece noin suit. 1, 2021.
		procedures	completed		
		before Dec.	25. 2017		
		Tendering r	procedure not	0.6	
		completed l	before Dec.		
		25, 2017			
Due recycled waste	Chemical oxyg	en demand		200	
recycling and	Suspended soli	ds		50	
processing industry					
Waste landfills	Chemical oxyg	en demand		200	
	Suspended soli	ds		50	
	Ammonia	Discharge	Constructed,	150	In effect from Jan. 1, 2021.
	nitrogen	d into	under	60	In effect from Jan. 1, 2024.
		places	construction or tondoring		
		water	procedures		
		quality	completed		
		and	before Dec		
		volume	25, 2017		
		protection	Tendering	20	
		area	procedure		
			not		
			completed		
			before Dec.		
			25, 2017		
Waste incinerators and	Chemical oxyg	en demand		100	
other waste treatment	Suspended soli	ds		30	
plants (facilities)	Coliform group	)		200,000	Applicable to carcass rendering process industry
Wastewater treatment	Biochemical or	kygen demar	nd	30	
service industry	Chemical oxyg	en demand		100	
	Suspended soli	ds		30	
	True color	Constructed	l, under	550	
		construction	n or tendering	400	In effect from Jan. 1, 2021.
		before Dec	25 2017		
		Tendering r	25, 2017	300	
		completed l	pefore Dec	500	
		25, 2017			
	Free available	Constructed	l, under	2.0	In effect from Jan. 1, 2021.
	residual	construction	n or tendering		
	chlorine	procedures	completed		
		before Dec.	25, 2017		
		Tendering p	procedure not	2.0	
		completed l	before Dec.		
	~ !!!	25, 2017		• • • • • • •	
NT' 1 1	Coliform group	)	1	200,000	
Nightsoil treatment	Biochemical or	kygen demar	la	50	
plants (facilities)	Cnemical oxyg	en demand		100	
	Suspended soli	us		200,000	
Environmental	Conform group	) waan damaa	d	300,000	
analysis and testing	Chemical ov	ygen demand	iu	100	
organizations	Suspended seli	de		30	
Experimental testing	Biochemical or	vgen demar	nd	30	
1					

(chemical	) and	Chemical oxygen demand		200	1
research 1	aboratories	Suspended soli	ds	50	1
Laundry i	ndustry	Chemical oxyg	en demand	100	
Lucinary	j	Suspended soli	ds	50	
Shinbreak	cing and ship	Chemical oxyo	en demand	100	
cleaning i	industries	Suspended soli	ds	50	-
Shiphuild	ing and	Chemical oxyo	en demand	100	
ropoiring	industry	Susponded soli	de	30	-
Conwork		Chamical avua	an domand	100	
Car wash	es	Chemical Oxyg		100	
<b>V</b> 1 1 1		Suspended son	us an daman d	30	
venicie re	epair plants	Chemical oxyg		100	
DI	,	Suspended soli	ds	30	
Photograp	on 11/	Chemical oxyg	en demand	100	
developin	ig and plate-	Suspended soli	ds	30	
making in	Idustries	D' 1 ' 1	1 1	20	
Foc	without	Biochemical or	kygen demand	30	
ust	carcass	Chemical oxyg	gen demand	100	
ma ry	rendering	Suspended soli	ds	30	
nuf	process				
fact	With	Biochemical or	xygen demand	30	
turi	carcass	Chemical oxyg	en demand	100	
ing	rendering	Suspended soli	ds	30	
	process	Coliform group	)	200,000	
Milling in	ndustry	Biochemical or	xygen demand	50	1
U	2	Chemical oxygen demand		100	-
		Suspended solids		80	
Fermenta	tion industry	Biochemical or	xygen demand	50	
(ferment	2		<u>,</u>		
		Chemical oxyg	en demand	150	1
manufact	uring				
		Suspended solids		50	
industry;	MSG				
manufact	uring	True color	Constructed, under	550	
industry;	liquor,		construction or tendering	400	In effect from Jan. 1, 2021.
alcohol a	nd vinegar		procedures completed		
manufact	uring		before Dec. 25, 2017		
industry;	Soybean		Tendering procedure not	300	
sauce man	nufacturing		completed before Dec.		
industry;	antibiotics		25, 2017		
and solve	nt	Free available	Constructed, under	2.0	In effect from Jan. 1, 2021.
manufact	uring	residual	construction or tendering		
industry)		chlorine	procedures completed		
			before Dec. 25, 2017		
			Tendering procedure not	2.0	
			completed before Dec.		
		25, 2017			
Sugar refi	ining	Biochemical or	kygen demand	30	
industry		Chemical oxyg	en demand	100	
		Suspended soli	ds	30	
Meat mar	kets	Biochemical or	kygen demand	80	
		Chemical oxyg	en demand	150	
		Suspended soli	ds	80	
		True color	Constructed, under	550	
			construction or tendering	100	
			,	400	In effect from Jan. 1, 2021.
			procedures completed		
			Defore Dec. 25, 2017	200	<u> </u>
			rendering procedure not	500	
			completed before Dec.		
1		1	25, 2017	1	

		Free available	Constructed, under	2.0	In effect from Jan. 1, 2021.
		residual	construction or tendering		
		chlorine	procedures completed		
		emornie	before Dec. 25, 2017		
			Tendering maga dama not	2.0	
			Tendering procedure not	2.0	
			completed before Dec.		
			25, 2017		
Fish marl	cets	Biochemical or	kygen demand	30	
		Chemical oxyg	en demand	100	
		Suspended soli	ds	30	
Slaughter	ing industry	Biochemical ox	xygen demand	80	
Siduginoi	ing industry	Chemical oxyg	en demand	150	
		Chemical 0xyg	da	150	
		True color	Constructed and den	80 550	
		True color	Constructed, under	550	
			construction or tendering	400	In offect from Ion 1 2021
				400	In effect from Jan. 1, 2021.
			procedures completed		
			before Dec. 25, 2017		
			Tendering procedure not	300	
			completed before Dec.		
			25, 2017		
		Free available	Constructed, under	2.0	In effect from Jan. 1, 2021.
		residual	construction or tendering		
		chlorine	procedures completed		
			before Dec. 25, 2017		
			Tendering procedure not	2.0	
			completed before Dec	2.0	
			completed before Dec.		
		G 116	25, 2017	200.000	
		Coliform group	)	200,000	
Aquacult	ure	Biochemical oxygen demand		30	
		Chemical oxyg	en demand	100	
		Suspended soli	ds	30	
S	Non-	Biochemical ox	kygen demand	80	
õ	herbivorous	Chemical oxyg	en demand	600	
kf	animals	Suspended soli	ds	150	
arr	such as nig	Buspended son	<b>G</b> D	100	
E.	chicken				
60	duck and				
	goose	Dischamical or	waan damand	80	
	Herbivorous	Global and		80	
	animals such	Chemical oxyg	en demand	450	
	as cattle,	Suspended soli	ds	150	
	horse, sheep,				
	deer and				
	rabbit				
Hospitals	and medical	Biochemical ox	kygen demand	30	
institution	18	Chemical oxyg	en demand	100	
		Suspended soli	ds	30	
		Coliform grour	)	200.000	
7000		Biochemical oxygen demand		50	
2005		Chamical orve	an domand	150	
		Chemical oxyg		150	
		Suspended soli	us	JU 200.000	
		Coliform group	)	300,000	
Amuseme	ent parks	Biochemical or	kygen demand	50	
		Chemical oxyg	en demand	150	
		Suspended soli	ds	50	
		Coliform groun	)	300.000	1
Catering	industry	Biochemical or	woen demand	50	Pure hot spring westewater
Cutoring	indusu y	Chemical ovug	en demand	150	that meetss the requirements
		Chemical Oxyg	da	50	of the Water Dellution
Suspended solids		50	of the water Pollution		

		Coliform gro	up		300,000	Control Measures and Test Reporting Management Regulations may be discharged into the surface water body to which the source of the hot spring
						concerned belongs if the water temperature meets the control limits of the Standards.
Tourist hotels	Tourist hotels	Biochemical oxygen demand	Constructed, construction procedures co	under or tendering ompleted	50	Pure hot spring wastewater that meets the requirements of the Water Pollution
		Chemical oxygen demand	before Dec. 2	25, 2017	150	Control Measures and Test Reporting Management Regulations may be
		Suspended solids			50	discharged into the surface water body to which the
		Coliform group			300,000	source of the hot spring concerned belongs if the water temperature meets the control limits of the Standards.
		Biochemical oxygen demand	Constructed, construction procedures co	under or tendering ompleted	30	<ol> <li>In effect from Jan. 1, 2021.</li> <li>Pure hot spring</li> </ol>
		Chemical oxygen demand	before Dec. 2	25, 2017	100	wastewater that meets the requirements of the Water Pollution Control Measures
		Suspended solids			30	and Test Reporting Management Regulations
		Coliform group			200,000	may be discharged into the surface water body to which the source of the hot spring concerned belongs if the water temperature meets the control limits of the Standards.
		Total nitrogen	Discharged into tap	Constructed, under	15	In effect from Jan. 1, 2021.
		Total phosphorus	water quality and volume protection area	construction or tendering procedures completed before Dec. 25, 2017	2.0	
		Biochemical oxygen demand	Tendering pr completed be 2017	ocedures not efore Dec. 25,	30	Pure hot spring wastewater that meets the requirements of the Water Pollution
		Chemical oxygen demand			100	Control Measures and Test Reporting Management Regulations may be
		Suspended solids			30	discharged into the surface water body to which the
		Coliform group	D' 1 1		200,000	concerned belongs if the
		nitrogen Total	into tap water	procedures not	2.0	control limits of the Standards.
		phosphorus	quality and volume protection area	completed before Dec. 25, 2017		
	Hotels, B&B	Biochemical Chamical are	oxygen demai	nd	50	Pure hot spring wastewater
	DOD	- Chemical OX	veen uemann		1.50	mai meets uie requirements

		Suspended solids		50	of the Water Pollution
		Coliform group	)	300,000	Control Measures and Test Reporting Management Regulations may be discharged into the surface water body to which the source of the hot spring concerned belongs if the water temperature meets the control limits of the Standards.
Coal stora	age sites,	Biochemical ox	kygen demand	30	Control of construction and
constructi	on sites,	Chemical oxyg	en demand	100	earth and gravel storage
earth and storage (d	gravel lisposal) sites	Suspended soli	ds	30	(disposal) sites is only applicable if required measures are not taken pursuant to regulations.
		True color	Constructed, under	550	
			construction or tendering procedures completed before Dec. 25, 2017	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	
Cargo cor	ntainer	Chemical oxyg	en demand	100	
distributo	rs	Suspended soli	ds	30	
Tap water	r treatment	Chemical oxyg	en demand	100	As a response to the warning
facilities		Suspended solids Total residual chlorine		50 0.5	of torrential rain or natural disaster, water supply plants may directly discharge and are not subject to the Standards if they have taken emergency response measures pursuant to the Water Pollution Control Measures and Test Reporting Management Regulations.
Re	Discharge	Biochemical ox	kygen demand	30	In effect from Jan. 1, 2019.
clai	volume > $250 \text{ m}^{3}/1$	Chemical oxyg	en demand	100	
me	250 m³/day	Suspended soli	as	30	
dм		Comorni group	Discharged into ter	200,000	
vate		Total nitrogen	Discharged into tap	15	
er i		10tal	water quality and	2.0	
ndu	Discharge	Pilospilorus Biochamical	volume protection area	50	
ıstr	Discharge	Chamical over	an domand	150	-
Y	volume $\leq$ 250 m <sup>3</sup> /day	Chemical oxygen demand Suspended solids		50	
	250 m-/uay			300,000	-
		Total nitrogan	Discharged into ten	15	
		Total	water quality and	2.0	
Livestock		Biochemical ox	vgen demand	80	In effect from Ian 1 2019
excremen	t and	Chemical oxyg	en demand	600	For the industries engaged in
biomass e recycling center	energy treatment	Suspended soli	ds	150	collecting livestock manure or digestate liquid and fiber that are anaerobically fermented as the bait for algae rotifers water floor

				and other aquatic seedlings or for aquaculture, the standard would be in effect from Jul. 1, 2019.
Steam supply	Chemical oxyg	en demand	100	In effect from Jul. 1, 2020.
industry	uspended solid	8	30	
Other industries	Biochemical or	xygen demand	30	
designated by the	Chemical oxyg	en demand	100	
central competent	Suspended soli	ds	30	
authority	True color	Constructed, under	550	
		construction or tendering procedures completed before Dec. 25, 2017	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	

## Table 9 Water quality items and limits of discharge from dedicated sewage systems in

science par
-------------

Scope	Item		Limit	Remarks	
All	Water	Discharge in	to non-marine surface	Lower than 38°C	
	temperature	water bodies		(for May to	
	-			September)	
				Lower than 35°C	
				(for October to next	
				April)	
		Direct discha	arge to the ocean	Water temperature at	
			-	discharge point $\leq$	
				42°C; temperature	
				difference of surface	
				water 500m from	
				discharge point $\leq$	
				4°C	
	Hydrogen ion co	ncentration in	dex	6.0—9.0	
	Villiaumite			15	
	Nitrite nitrogen			50	
	Ammonia	Discharged i	nto tap water quality	10	
	nitrogen	and volume	protection area		
	-	Discharged	Constructed, under	30	
		into places	construction or		
		outside tap	tendering procedures		
		water	completed before		
		quality and	Oct. 12, 2012		
		volume	Tendering	20	
		protection	procedures not		
		area	completed before		
			Oct. 12, 2012		
	Orthophosphate	Discharged i	nto tap water quality	4.0	
	(calculated based	and volume	protection area		
	on trivalent				
	phosphate ion)				
	Phenols			1.0	
	Anion surfactant			10	
	Cyanide			1.0	
	Grease (Hexane	extracts)		10	
	Dissolved iron			10	
	Dissolved manga	inese		10	
	Cadmium	Constructed, u	under construction or	0.03	
	t	tendering proc before Dec. 25	cedures completed 5, 2017		
		Constructed, u	under construction or	0.02	In affact from Ion 1
	1	tendering proc before Dec. 24	cedures completed 5, 2017		2021.
		Tendering pro	cedures not	0.02	
		completed bef	Fore Dec. 25, 2017		
	Lead	Constructed, u	under construction or	1.0	
	t	tendering proc before Dec. 25	cedures completed 5, 2017		
		Constructed, u	under construction or	0.5	In effect from Ian 1
	1	tendering proc before Dec. 25	cedures completed 5, 2017		2021.

	Tendering procedures not completed before Dec. 25, 2017	0.5	
Total	Constructed, under construction or	2.0	
chromium	tendering procedures completed		
	before Dec. 25, 2017		
	Constructed, under construction or	1.5	
	tendering procedures completed		In effect from Jan. 1,
	before Dec. 25, 2017		2021.
	Tendering procedures not	1.5	
	completed before Dec. 25, 2017		
Hexavalent	Constructed, under construction or	0.5	
chromium	tendering procedures completed		
	before Dec. 25, 2017		
	Constructed, under construction or	0.35	In offect from Ian 1
	tendering procedures completed		
	before Dec. 25, 2017		2021.
	Tendering procedures not	0.35	
	completed before Dec. 25, 2017		
Copper	Constructed, under construction or	3.0	
	tendering procedures completed		
	before Dec. 25, 2017		
	Constructed, under construction or	1.5	In effect from Ian 1
	tendering procedures completed		2021
	before Dec. 25, 2017		2021.
	Tendering procedures not	1.5	
	completed before Dec. 25, 2017		
Zinc	Constructed, under construction or	5.0	
	tendering procedures completed		
	before Dec. 25, 2017		
	Constructed, under construction or	3.5	In effect from Jan. 1.
	tendering procedures completed		2021.
	before Dec. 25, 2017	2.5	
	Tendering procedures not	3.5	
	completed before Dec. 25, 2017	1.0	
Nickel	Constructed, under construction or	1.0	
	tendering procedures completed		
	before Dec. 25, 2017	0.7	
	Constructed, under construction or	0.7	In effect from Jan. 1,
	before Dec. 25, 2017		2021.
	Tendering procedures not	0.7	
	completed before Dec. 25, 2017	0.7	
Selenium	Constructed under construction or	0.5	
Scientum	tendering procedures completed	0.5	
	before Dec. 25, 2017		
	Constructed under construction or	0.35	
	tendering procedures completed	0.55	In effect from Jan. 1,
	before Dec. 25, 2017		2021.
	Tendering procedures not	0.35	
	completed before Dec. 25, 2017		
Arsenic	Constructed, under construction or	0.5	
-	tendering procedures completed		
	before Dec. 25, 2017		
	Constructed, under construction or	0.35	In official further 1
	tendering procedures completed		in effect from Jan. 1,
	before Dec. 25, 2017		2021.

		Tendering procedures not	0.35		
		completed before Dec. 25, 2017			
	Tin	Constructed, under construction or	2.0		In offerst from Ing 1
		tendering procedures completed			In effect from Jan. 1,
		before Dec. 25, 2017			2021.
		Tendering procedures not	1.0		
		completed before Dec. 25, 2017			
	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	5.0		
		water quality and volume	5.0		
		protection area			
	Sulfide		1.0		
	True color	Constructed under construction or	550		
		tendering procedures completed	400		In effect from Jan. 1.
		before Dec. 25, 2017	100		2021.
		Tendering procedures not	300		
		completed before Dec. 25, 2017			
	Free available	Constructed, under construction or	2.0		In effect from Jan. 1,
	residual	tendering procedures completed			2021.
	chlorine	before Dec. 25, 2017			
		Tendering procedures not	2.0		
		completed before Dec. 25, 2017			
	Indium		0.1		
	Gallium		0.1		
	Molybdenum		0.6		
	Total toxic orga	nics	1.37		
	N-methylpyrroli	idone	1.0		In effect from Jan. 1,
	2-Methoxy-1-pr	opano	0.1		2021.
	Dimethylacetan	iide	0.1		
	Cobalt		1.0		
	Antimony		1.0		
	N-Methylforma	mide	1.0		
	Diethylene glyc	ol dimethyl ether	1.0		
Constructed,	Biochemical ox	ygen demand	Maximum	30	
under			7-day	25	
construction or			average	1.0.0	
tendering	Chemical oxyge	en demand	Maximum	100	
procedures			7-day	80	
completed before			average	20	
Jul. 31, 2009	Suspended solid	S	Maximum	30	
disabarga voluma			7-day	25	
less than 10,000			average		
$m^3$ per day					
Tendering	Biochemical ox	vgen demand	Maximum	25	
procedures not	Dioenennear ox	ygen demand	7-day	20	-
completed before			average		
Jul. 31, 2009:	Chemical oxyge	en demand	Maximum	80	1
constructed.			7-dav	65	1
under			average	-	
construction or	Suspended solid	ls	Maximum	25	

tendering	7-day	20	
procedures	average		
completed before			
Jul. 31, 2009			
with an approved			
discharge volume			
at least 10,000 m <sup>3</sup>			
per day			

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

petrochemical industrial parks

Scope	Item		Limit	Remarks
All	Water	Discharge into non-marine	Lower than 38°C (for May	
7 111	temperature	surface water bodies	to September)	
	temperature	surface water bodies	Lower than 35°C (for	
			October to next April)	
		Direct discharge to the ocean	Water temperature at	
		Direct discharge to the ocean	discharge point $< 12^{\circ}$ C·	
			tomporature difference of	
			surface water 500m from	
			surface water 500m from discharge point $\leq 4^{\circ}C$	
	Undrogonion	aconcentration index	$\frac{1}{60}$	
	Nitrito pitrog		0.0—9.0 50	
	Nurite miroge		50	
	Ammonia	Constructed, under	60	
	nitrogen	construction or tendering		
		procedures completed before		
		Dec. 1, 2011		
		Tendering procedures not	20	
		completed before Dec. 1,		
		2011		
	Phenols		1.0	
	Anion surfact	ant	10	
	Cyanide		1.0	
	Grease (Hexa	ine extracts)	10	
	Dissolved iro	n	10	
	Dissolved ma	nganese	10	
	Cadmium	Constructed, under	0.03	
		construction or tendering		
		procedures completed before		
		Dec. 25, 2017		
		Constructed, under	0.02	In effect from Jan. 1,
		construction or tendering		2021.
		procedures completed before		
		Dec. 25, 2017		
		Tendering procedures not	0.02	
		completed before Dec. 25,		
		2017		
	Lead	Constructed, under	1.0	
		construction or tendering		
		procedures completed before		
		Dec. 25, 2017		
		Constructed, under	0.5	In effect from Jan. 1,
		construction or tendering		2021.
		procedures completed before		
		Dec. 25, 2017		
		Tendering procedures not	0.5	
		completed before Dec. 25,		
		2017		
	Total	Constructed, under	2.0	
	chromium	construction or tendering		
		procedures completed before		
		Dec. 25. 2017		

		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	0.35	In effect from Jan. 1,
	construction or tendering		2021.
	procedures completed before		
	Dec. 25, 2017		
	Tendering procedures not	0.35	
	completed before Dec. 25,		
	2017		
Arsenic	Constructed. under	0.5	
	construction or tendering		
	procedures completed before		
	Dec 25 2017		
	Constructed under	0.35	In effect from Ian 1
	construction or tendering	0.55	2021
	procedures completed before		2021.
	Dec. 25, 2017		
	Tendering presedures not	0.25	
	approvedures not	0.55	
	completed before Dec. 25,		
Tin	2017	2.0	In offect from T 1
1 111	constructed, under	2.0	in effect from Jan. 1,
	construction or tendering		2021.
	procedures completed before		
	Dec. 25, 2017	1.0	
	Tendering procedures not	1.0	
	completed before Dec. 25,		
	2017	0.000000	
Methyl mercu	ry	0.000002	
Total mercury		0.005	
Silver		0.5	
Boron	Discharged into tap water	1.0	
	quality and volume protection		
	area		
	Discharged into places	5.0	
	outside tap water quality and		
	volume protection area		
Molybdenum	Constructed, under	0.6	In effect from Jan. 1,
-	construction or tendering		2021.
	procedures completed before		
	Dec. 25, 2017		
	Tendering procedures not	0.6	
	Tendering procedures not	0.6	
	Tendering procedures not completed before Dec. 25, 2017	0.6	
Sulfide	Tendering procedures not completed before Dec. 25, 2017	0.6	
Sulfide	Tendering procedures not completed before Dec. 25, 2017	0.6 1.0 550	
Sulfide True color	Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering	0.6 1.0 550 400	In affect from Ion 1
Sulfide True color	Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before	0.6 1.0 550 400	In effect from Jan. 1,
Sulfide True color	Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.6 1.0 550 400	In effect from Jan. 1, 2021.
Sulfide True color	Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.6 1.0 550 400	In effect from Jan. 1, 2021.
Sulfide True color	Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before Dec. 25, 2017 Tendering procedures not completed before Dec. 25	0.6 1.0 550 400 300	In effect from Jan. 1, 2021.
Sulfide True color	Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before Dec. 25, 2017 Tendering procedures not completed before Dec. 25, 2017	0.6 1.0 550 400 300	In effect from Jan. 1, 2021.
Sulfide True color	Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before Dec. 25, 2017 Tendering procedures not completed before Dec. 25, 2017	0.6 1.0 550 400 300	In effect from Jan. 1, 2021.
Sulfide True color Free	Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before Dec. 25, 2017 Tendering procedures not completed before Dec. 25, 2017 Constructed, under	0.6 1.0 550 400 300 2.0	In effect from Jan. 1, 2021. In effect from Jan. 1,
Sulfide True color Free available	Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before Dec. 25, 2017 Tendering procedures not completed before Dec. 25, 2017 Constructed, under constructed, under	0.6 1.0 550 400 2.0	In effect from Jan. 1, 2021. In effect from Jan. 1, 2021.
Sulfide True color Free available residual	Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before Dec. 25, 2017 Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before	0.6 1.0 550 400 300 2.0	In effect from Jan. 1, 2021. In effect from Jan. 1, 2021.
Sulfide True color Free available residual chlorine	Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before Dec. 25, 2017 Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.6 1.0 550 400 300 2.0	In effect from Jan. 1, 2021. In effect from Jan. 1, 2021.
Sulfide True color Free available residual chlorine	Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before Dec. 25, 2017 Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before Dec. 25, 2017 Tendering procedures not	0.6 1.0 550 400 300 2.0 2.0	In effect from Jan. 1, 2021. In effect from Jan. 1, 2021.
Sulfide True color Free available residual chlorine	Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before Dec. 25, 2017 Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before Dec. 25, 2017 Tendering procedures not completed before Dec. 25, 2017	0.6         1.0         550         400         300         2.0         2.0	In effect from Jan. 1, 2021. In effect from Jan. 1, 2021.
Sulfide True color Free available residual chlorine	Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before Dec. 25, 2017 Tendering procedures not completed before Dec. 25, 2017 Constructed, under construction or tendering procedures completed before Dec. 25, 2017 Tendering procedures not completed before Dec. 25, 2017	0.6 1.0 550 400 2.0 2.0 2.0	In effect from Jan. 1, 2021. In effect from Jan. 1, 2021.

	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,
	Trichloroethylene	0.3		2021.
	Acrylonitrile	0.2		
	1,2-butadiene	0.1		
	Biochemical oxygen demand	Maximum	30	
		7-day	25	
		average		
Constructed, under	Chemical oxygen demand	Maximum	100	
construction or		7-day	80	
tendering		average		
procedures	Suspended solids	Maximum	30	
completed before		7-day	25	
Jul. 31, 2009 with		average		
an approved				
discharge volume				
less than $10,000 \text{ m}^3$				
per day				
Tendering	Chemical oxygen demand	Maximum	90	
procedures not		7-day	70	
completed before	~	average	2.7	
Jul. 31, 2009;	Suspended solids	Maximum	25	
constructed, under		7-day	20	
construction or		average		
tendering				
procedures				
Lul 21 2000 with				
Jul. 51, 2009 with				
discharge volume et				
least 10 000 m <sup>3</sup> per				
day				
uay			1	

Table 11 Water quality items and limits of discharge from dedicated sewage systems in

other industrial parks

		_			
Scope		Iter	m	Limit	Remarks
All	Water	Discharge in	to non-marine surface	Lower than 38°C (for	
	temperature	e water bodies		May to September)	
	-			Lower than 35°C (for	1
				October to next April)	
		Direct discha	arge to the ocean	Water temperature at	
				discharge point $< 42^{\circ}$ C:	
				temperature difference of	
				surface water 500m from	
				discharge point $< 1^{\circ}C$	
	Hydrogen id	n concentrati	ion index		
	Villioumito		ion macx	15	4
	Viinaunnie Nitrito nitro	~~~		15	4
	Nitrite nitro	gen		50	
	Ammonia	Discharged 1	nto tap water quality	10	
	nitrogen	and volume	protection area		
		Discharged	Constructed, under	100	In effect from Jan. 1,
		into places	construction or		2021.
		outside tap	tendering procedures	75	In effect from Jan. 1,
		water	completed before Dec.		2024.
		quality and	25, 2017	30	In effect from Jan. 1,
		volume			2027.
		protection	Tendering procedure	20	
		area	not completed before		
			Dec. $25, 2017$		
	Orthophosp	Discharged i	nto tan water quality	4.0	
	bata	and volume protection area		4.0	
	liate (aplaulated	and volume	protection area		
	(calculated				
	based on				
	trivalent				
	phosphate				
	ion)				
	Phenols			1.0	
	Anion surfa	ctant		10	
	Cyanide			1.0	
	Grease (Hex	kane extracts)		10	
	Dissolved in	on		10	
	Dissolved n	nanganese		10	
	Cadmium	Constructed	under construction or	0.03	
	Caumum	tendering pr	ocedures completed	0.05	
		bafora Dag	25, 2017		
		Constructed	23, 2017	0.02	La effect from Low 1
		Constructed,	under construction or	0.02	In effect from Jan. 1,
		tendering pro	ocedures completed		2021.
		before Dec. 2	25, 2017		
		Tendering pr	rocedures not	0.02	
		completed be	efore Dec. 25, 2017		
	Lead Constructed, under construction or tendering procedures completed		1.0		
		before Dec.	25, 2017		
		Constructed.	under construction or	0.5	In effect from Jan. 1.
		tendering pro	ocedures completed		2021.
		before Dec	25. 2017		
		Tendering pr	rocedures not	0.5	
		completed before Dec. 25, 2017		0.5	

Total	Constructed, under construction or	2.0	
chromium	tendering procedures completed		
	Constructed, under construction or tendering procedures completed	1.5	In effect from Jan. 1, 2021.
	before Dec. 25, 2017		
	Tendering procedures not completed before Dec. 25, 2017	1.5	
Hexavalent	Constructed, under construction or	0.5	
chromium	tendering procedures completed before Dec. 25, 2017		
	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		2.0 In e		In effect from Jan. 1.
	tendering procedures completed				2021.
		before Dec. 25, 2017			2021.
		Tendering procedures not	1.0		
		completed before Dec. 25, 2017	1.0		
	Methyl mer	completed before Dec. 23, 2017	0.000002		
	Total merci		0.0000002		
	Filver	ur y	0.005		
	Dawaw		0.5		
	Boron	Discharged into tap water quality	1.0		
		Di 1 li de la contraction area	5.0		
		Discharged into places outside tap	5.0		
		water quality and volume protection			
	Sulfida	area	1.0		
	Sumue Es mus 1 de las	.1.	1.0		
	Formaldeny	yde	3.0		
	Polychlorin	lated bipnenyl	0.00005		
	Total organ	ic phosphate agent	0.5		
	Total carba	mate	0.5		
	Herbicide		1.0		
	Endosulfan		0.03		
	Endrin		0.0002		
	Lindane		0.004 0.001		
	Heptachlor	and derivatives			
	DDT and de	erivatives	0.001		
	Aldrin and	dieldrin	0.003		
	Pentrachlor	ophenol and its salts	0.005		
	Toxaphene	*	0.005		
	Pentachloro	onitrobenzene	0.00005		
	Folpet		0.00025		
	Captafol		0.00025		
	Captan				
	True color	Constructed under construction or	550		
		endering procedures completed	400		In effect from Ian 1
		before Dec 25 2017	100		2021.
		Tendering procedures not completed	300		
		before Dec. 25, 2017	200		
	Free	Constructed, under construction or	2.0		In effect from Jan. 1,
	available	endering procedures completed			2021.
	residual	before Dec. 25, 2017			
	chlorine	Tendering procedures not completed	2.0		
	Indium	beloie Dec. 23, 2017	0.1		
	Gallium		0.1		
	Molyhdony	m	0.1		
Constructed	Diochamica	lini	0.0 Maximum	30	
Collstitucted,	Бюспеппіса	a oxygen demand	7 day	30 25	
			/-udy	23	
tendering	Chamical -	vugan damand	Movimum	100	
procedures	Chemical of	xygen demand	iviaxiiiiuin 7 day	100	
completed			/-day	00	
before Jul 21	C	aalida	average	20	
beloie Jul. 31,	Suspended	sonus	wiaximum	30	

2009 with an		7-day	25	
approved		average		
discharge		C		
volume less than				
10,000 m <sup>3</sup> per				
day				
Tendering	Biochemical oxygen demand	Maximum	25	
procedures not		7-day	20	
completed		average		
before Jul. 31,	Chemical oxygen demand	Maximum	80	
2009;		7-day	65	
constructed,		average		
under	Suspended solids	Maximum	25	
construction or		7-day	20	
tendering		average		
procedures		C		
completed				
before Jul. 31,				
2009 with an				
approved				
discharge				
volume at least				
10,000 m <sup>3</sup> per				
day				

Table 12 Water quality items and limits of discharge from dedicated sewage systems in

communities

Scope		Item	Limit	Remarks
All	Water temperature	Discharge into non-	Lower than 38°C (for May to	
	-	marine surface water	September)	
		bodies	Lower than 35°C (for October	
			to next April)	
		Direct discharge to the	Water temperature at discharge	
		ocean	point $\leq$ 42°C; temperature	
			difference of surface water	
			500m from discharge point $\leq$	
			4°C	
	Hydrogen ion con	centration index	6.0-9.0	
	Nitrite nitrogen		50	
	Ammonia nitroger	Discharged into tap	10	
		water quality and		
		volume protection area		
	Orthophosphate	Discharged into tap	4.0	
	(calculated based	water quality and		
	on trivalent	volume protection area		
	phosphate ion)	· · · · · · · · · · · · · · · · · · ·		
	Anion surfactant		10	
	Grease (Hexane ex	(tracts)	10	
	Dissolved iron	,	10	
	Dissolved mangan	ese	10	
	Cadmium		0.03	
	Lead		1.0	
	Total chromium		2.0	
	Hexavalent chrom	ium	0.5	
	Methyl mercury		0.0000002	
	Total mercury		0.005	
	Copper		3.0	
	Zinc		5.0	
	Silver		0.5	
	Nickel		1.0	
	Selenium		0.5	
	Arsenic		0.5	
	Boron	Discharged into tan water	1.0	
	DOIOII	mulity and volume	1.0	
		protection area		
		Discharged into places	5.0	
		outside tan water quality	5.0	
		and volume protection		
		area		
Discharge volume	$\rightarrow$ Biochemical oxyg	en demand	30	
$250 \text{ m}^3/\text{dav}$	in m <sup>3</sup> /day Chemical oxygen demand		100	
	Suspended solids		30	
	Coliform group		200.000	
Discharge volume	< Biochemical oxyg	en demand	50	
$250 \text{ m}^3/\text{day}$	Chemical oxygen	demand	150	
2.50 m / duy	Suspended solids	avmunu	50	
	Coliform group		300.000	
1	Louin group		500,000	

Table 13 Water quality items and limits of discharge from dedicated sewage systems in

Item		Limit	Remarks
Water temperature	Discharge into non-	Lower than 38°C (for May to	
1	marine surface water	September)	
	bodies	Lower than 35°C (for October to	
		next April)	
	Direct discharge to the	Water temperature at discharge	
	ocean	point $\leq$ 42°C; temperature	
		difference of surface water 500m	
		from discharge point $\leq 4^{\circ}C$	
Hydrogen ion concentr	ation index	6.0—9.0	
Villiaumite		15	
Nitrite nitrogen		50	
Ammonia nitrogen	Discharged into tap	10	
C	water quality and		
	volume protection area		
Orthophosphate	Discharged into tap	4.0	
(calculated based on	water quality and		
trivalent phosphate	volume protection area		
ion)	-		
Phenols	•	1.0	
Anion surfactant		10	
Cyanide		1.0	
Grease (Hexane extrac	ts)	10	
Dissolved iron		10	
Dissolved manganese		10	
Cadmium		0.03	
Lead		1.0	
Total chromium		2.0	
Hexavalent chromium		0.5	
Copper		3.0	
Zinc		5.0	
Nickel		1.0	
Selenium		0.5	
Arsenic		0.5	
Methyl mercury		0.0000002	
Total mercury		0.005	
Silver		0.5	
Boron	Discharged into tap	1.0	
	water quality and		
	volume protection area		
	Discharged into places	5.0	
	outside tap water		
	quality and volume		
	protection area		
Sulfide		1.0	
Formaldehyde		3.0	
Polychlorinated biphenyl		0.00005	
Total organic phosphat	e agent	0.5	
Total carbamate		0.5	
Herbicide		1.0	
Endosulfan		0.03	
Endrin		0.0002	

other specified areas or sites

Lindane	0.004	
Heptachlor and derivatives	0.001	
DDT and derivatives	0.001	
Aldrin and dieldrin	0.003	
Pentrachlorophenol and its salts	0.005	
Toxaphene	0.005	
Pentachloronitrobenzene	0.00005	
Folpet	0.00025	
Captafol	0.00025	
Captan	0.00025	
Biochemical oxygen demand	30	
Chemical oxygen demand	100	
Suspended solids	30	

Scope		Item			Limit	Remarks
All	Water	Discharge in	to non-marine su	urface water	Lower than 38°C (for	
	temperature	bodies			May to September)	
					Lower than 35°C (for	
					October to next April)	
Direct discharge to the ocean					Water temperature at	
					discharge point $\leq$ 42°C;	
					temperature difference	
					of surface water 500m	
					from discharge point $\leq$	
	TT 1 ·		1		4°C	
	Hydrogen ion co	oncentration in	ndex		6.0—9.0	NT
	Nitrite nitrogen				50	Not
						applicable to
						total nitrogen
	Outbook og søk ot o	Discharged	nto ton moton on	ality and	4.0	Control.
	Orthophosphate	Discharged I	nto tap water qu	anty and	4.0	NOL
	(calculated	volume prote	ction area			applicable to
	trivalent					nhosphorus
	phosphate ion)					control
	Total	Discharged	Tendering proc	edures not	2.0	control.
	phosphorus	into tan	completed befo	ore Nov 23	2.0	
	phosphorus	water quality	2001			
		and volume				
		protection				
		area				
	Anion surfactan	t	•		10	
	Grease (Hexane	extracts)			10	
Discharge	Biochemical oxy	ygen demand			30	
volume > 250	Chemical oxyge	a demand			100	
m³/day	Suspended solid	8			30	
	Coliform group				200,000	
	Ammonia	Discharged i	nto tap water qu	ality and	10	
	nitrogen	volume prote	ection area		6	In effect from
			<b>L</b> .			Jan. 1, 2024.
		Discharged	Maximum	Constructed,	75	In effect from
		into places	amount of	under		Jan. 1, 2021.
		outside tap	industrial	construction	30	In effect from
		water	wastewater,	or tendering		Jan. 1, 2024.
		quality and	disabarga or	procedures		
		volume	discharge or	bafara Daa		
		area	approved for	25 2017		
		arca	reception and	ZJ, 2017 Tendering	20	
			treatment >	procedure	20	
			20%  of	not		
			maximum	completed		
			amount of total	before Dec.		
			wastewater	25, 2017		
			(sewage)	, - ,		
			Maximum	Constructed,	10	In effect from
			design volume	under		Jan. 1, 2021.
			of industrial	construction		
			wastewater,	or tendering		

Table 14 Water quality items and limits of discharge from public sewage systems

	1					
			intercepted	procedures		
			discharge or	completed		
			manure	before Dec		
			approved for	25 2017		
			approved for	23, 2017	10	
				Tendering	10	<b>T CC C</b>
			treatment $\geq$	procedure	6	In effect from
			20% of	not		Jan. 1, 2024.
			maximum	completed		
			volume of total	before Dec.		
			wastewater	25, 2017		
			(sewage); or no			
			reception and			
			treatment of			
			industrial			
			wastewater.			
			intercepted			
			discharge or			
			manura			
	Total nitrogan	Discharged	Tandaring prov	aduras not	15	
	Total introgen	Discharged	rendering prod	vedures not	15	
		into tap	completed befo	ore Nov. 23,		
		water quality	2001			
		and volume				
		protection				
		area				
		Discharged	Maximum	Constructed,	50	In effect from
		into places	design	under		Jan. 1, 2021.
		outside tap	volume of	construction	35	In effect from
		water quality	industrial	or tendering	55	Ian 1 2024
		and volume	westowator	procedures		Jan. 1, 2024.
			wastewater,	procedures		
		protection		completed		
		area	discharge or	before Dec.		
			manure	25, 2017		
			approved for	Tendering	20	
			reception and	procedure not		
			treatment $\geq$	completed		
			20% of	before Dec.		
			maximum	25, 2017		
			volume of			
			total			
			wastewater			
			(sewage): or			
			no reception			
			and treatment			
			and treatment			
			of industrial			
			wastewater,			
			intercepted			
			discharge or			
			manure			
Discharge	Biochemical oxy	gen demand			50	
volume $\leq 250$	Chemical oxyge	n demand			150	
m³/day	Suspended solid	s			50	
-	Coliform group				300.000	
	Ammonia	Discharged in	to tan water ou	ality and	10	
	nitrogen	volume prote	ction area	unty and	10	
	Totol mitms	Discharge 1	Tondarin	adumes =+	15	
	i otai nitrogen	Discharged	rendering proc	Secures not	15	
		into tap	completed befo	ore mov. 23,		
		water quality	2001			

	and volume		
	protection		
	area		

## Table 15 Water quality items and limits of discharge from building sewage treatment

## facilities

Scope		Item	Limit	Remarks
All	Water	Discharge into	Lower than 38°C (for	
	temperature	non-marine	May to September)	
		surface water	Lower than 35°C (for	
		bodies	October to next April)	
		Direct discharge	Water temperature at	
		to the ocean	discharge point $\leq$ 42°C;	
			temperature difference of	
			surface water 500m from	
			discharge point $\leq$ 4°C	
	Hydrogen ion	n concentration	6.0—9.0	
	Index		50	
	Nitrite nitrog	gen	50	
	Ammonia	Discharged into	10	
	nitrogen	tap water quality		
		and volume		
		protection area	4.0	
	Orthophosp	Discharged into	4.0	
	nate	tap water quanty		
	(calculated	and volume		
	trivalent	protection area		
	nhosphate			
	ion)			
	Anion surfac	tant	10	
	Grease (Hexa	ane extracts)	10	
	Dissolved iro	)n	10	
	Dissolved ma	anganese	10	
	Cadmium	0	0.03	
	Lead		1.0	
	Total chromi	um	2.0	
	Hexavalent c	hromium	0.5	
	Methyl merc	ury	0.0000002	
	Total mercur	y y	0.005	
	Copper		3.0	
	Zinc		5.0	
	Silver		0.5	
	Nickel		1.0	
	Selenium		0.5	
	Arsenic		0.5	
	Boron	Discharged into	1.0	
		tap water quality		
		and volume		
		protection area		
		Discharged into	5.0	
		places outside tap		
		water quality and		
		volume		
		protection area		

A <sub>]</sub> lic	Discharge	Biochemical oxygen demand	30	
ppl	volume $> 250$	Chemical oxygen demand	100	
ica se a	m³/day	Suspended solids	30	
tion		Coliform group	200,000	
n fo r Ja	Discharge	Biochemical oxygen demand	50	
an.	volume ≤250	Chemical oxygen demand	150	
ons 1, 1	m³/day	Suspended solids	50	
200		Coliform group	300,000	Not applicable to
)9				discharge volume <
on				50 m³/day
A	Discharge	Biochemical oxygen demand	30	
pp]	volume $> 250$	Chemical oxygen demand	100	
lica	m³/day	Suspended solids	30	
tio		Coliform group	200,000	
ore	50 m <sup>3</sup> <	Biochemical oxygen demand	50	
D	Discharge	Chemical oxygen demand	150	
ec.	volume $< 250$	Suspended solids	50	
nst 31	m³/day	Coliform group	300,000	
ruc , 2(	Discharge	Biochemical oxygen demand	80	
)08	volume $< 50$	Chemical oxygen demand	250	]
В	m³/day	Suspended solids	80	

Table 16				
Level of total quantity control zone for wastewater (sewage) discharge	Scope	Item	Limit	Remarks
Level 1: The	Newly-established	Cadmium	< 0.005	1. In effect from the date when
quality of the	enterprises and sewage	Total	< 0.01	the special municipality or
receiving water	systems in industrial parks:	chromium		county (city) competent au-
body in the zone	Tendering procedures not	Hexavalent	< 0.02	thority announces the total
to the irrigation	quantity control zone is	Copper	< 0.01	water body for farmlands
water quality	announced by the special	Zinc	< 0.01	that must be protected.
standards	municipality or county	Nickel	< 0.02	2. The value in this column is
	(city) competent authority			based on the limit of the quantifiable amount ex- pressed with a "<" symbol.
	Existing enterprises:	Cadmium	0.01	In effect 2 years after the
	Constructed, under	Total	0.1	special municipality or county
	construction or tendering	chromium	0.05	(city) competent authority
	before the total quantity	Hexavalent	0.05	control zone of a water body
	control zone is announced	Copper	0.2	for farmlands that must be
	by the special municipality	Zinc	2.0	protected.
	or county (city) competent authority	Nickel	0.2	
	Existing sewage systems in	Cadmium	0.015	In effect 2 years after the
	industrial parks:	Total	1.0	special municipality or county
	Constructed, under	chromium		(city) competent authority
	construction or tendering	Hexavalent	0.25	announces the total quantity
	before the total quantity	Copper	1.5	for farmlands that must be
	control zone is announced	Zinc	2.5	protected.
	by the special municipality	Nickel	0.5	4
	or county (city) competent			
L 10 TI	authority	Calminus	0.01	
Level 2: The	Newly-established	Cadmium Total	0.01	In effect from the date when the special municipality or
receiving water	procedures not completed	chromium	0.1	county (city) competent
body in the zone	before the total quantity	Hexavalent	0.05	authority announces the total
conforms to the	control zone is announced	chromium		quantity control zone of a
irrigation water	by the special municipality	Copper	0.2	water body for farmlands that
quality standards	or county (city) competent	Zinc	2.0	must be protected.
	authority	Nickel	0.2	
	Newly-established sewage	Cadmium	0.015	In effect from the date when the special municipality or
	Tendering procedures not	chromium	1.0	county (city) competent
	completed before the total	Hexavalent	0.25	authority announces the total
	quantity control zone is	chromium	-	quantity control zone of a
	announced by the special	Copper	1.5	water body for farmlands that
	municipality or county	Zinc	2.5	must be protected.
	(city) competent authority	Nickel	0.5	
	Existing enterprises and	Cadmium	0.015	In effect 2 years after the
	industrial parks:	chromium	1.0	(city) competent authority

Constructed, under construction or tendering	Hexavalent chromium	0.25	announces the total quantity control zone of a water body
procedures completed	Copper	1.5	for farmlands that must be
before the total quantity	Zinc	2.5	protected.
control zone is announced	Nickel	0.5	
by the special municipality			
or county (city) competent			
authority			