

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

| Item | | Limit | Remarks |
|--|--|---|------------------------------|
| Water temperature | Discharge into non-marine surface water bodies | Lower than 38°C (for May to September) | |
| | | Lower than 35°C (for October to next April) | |
| | Direct discharge to the ocean | Water temperature at discharge point $\leq 42^{\circ}\text{C}$; temperature difference of surface water 500m from discharge point $\leq 4^{\circ}\text{C}$ | |
| Hydrogen ion concentration index | | 6.0—9.0 | |
| Nitrite nitrogen | | 50 | |
| Ammonia nitrogen | Discharged into tap water quality and volume protection area | | 10 |
| | Discharged into places outside tap water quality and volume protection area | Non-high nitrogen processes constructed, under construction or finishing tendering procedures before Dec. 1, 2011. | 20 |
| | | High nitrogen processes constructed, under construction or finishing tendering procedures before Dec. 1, 2011 | 60 |
| | | Tendering procedures not completed before Dec. 1, 2011 | 20 |
| Orthophosphate (calculated based on trivalent phosphate ion) | Discharged into tap water quality and volume protection area | 4.0 | |
| Phenols | | 1.0 | |
| Anion surfactant | | 10 | |
| Grease (Hexane extracts) | | 10 | |
| Sulfide | | 1.0 | |
| Chemical oxygen demand | | 100 | |
| Suspended solids | | 30 | |
| True color | Constructed, under construction or tendering procedures completed before Dec. 25, 2017 | 550 | |
| | | 400 | In effect from Jan. 1, 2021. |
| | Tendering procedure 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 procedure not completed before Dec. 25, 2017 | 2.0 | |
| Benzene | | 0.05 | |
| Ethyl benzene | | 0.4 | |
| Methylene chloride | Petrochemical basic chemicals manufacturing industry, petrochemical midstream products manufacturing industry, petrochemical downstream products manufacturing industry | 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 | |
| Acrylonitrile | | Approved discharge volume more than 10,000 m ³ per day except for those only producing natural gas. | 0.2 |
| 1,2-butadiene | 0.1 | | |