

# Annex 1. Declaration of test items and frequency for the industrial or wastewater sewerage system

## I. Original water quality of the wastewater (sewage) and outfall water

### (1) General water quality

| The industrial or wastewater sewerage system types                    | Water quality testing items to be declared   |  | Testing frequency             |   |  | The water quality of the managed industry's discharged water to the sewerage system (Note 6) |
|---|--|--|-------------------------------|---|--|--|
|   |  |  | Original waste (sewage) water | Discharge of waste (sewage) water to the water body on ground surface   |  |  |
|   |  |  |                               | A responsible unit for waste (sewage) water treatment or a responsible personnel for Class A waste (sewage) water treatment is required | A responsible personnel for Class B waste (sewage) water treatment or waste (sewage) water treatment personnel is not required |  |
| (1) Sugar industry  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids  |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
| (2) Textile industry  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine                   |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
| (3) Printing and dyeing industry                                      | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine                   |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
| (4) Leather industry  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine                   | Common application   | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
|   | Ammonia nitrogen   | Suitable for finished leather manufacturer from raw skin manufacturing |                               |   |  |  |
| (5) Paper pulp manufacturing  | H+ concentration index, water temperature, COD, suspended solids, true color chromaticity, free and available residual chlorine  |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
| (6) Paper industry  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine                   |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
| (7) Photographic processing industry and plate manufacturing industry | H+ concentration index, water temperature, COD, suspended solids   |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
| (8) Chemical industry   | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine, ammonia nitrogen |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
| (9) Pharmaceutical manufacturing industry                             | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine                   |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
| (10) Pesticide and environment drug manufacturing industry            | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine                   |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
| (11) Petrochemical industry   | H+ concentration index, water temperature, COD, suspended solids, true color chromaticity, free and available residual chlorine, ammonia nitrogen                            |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
| (12) Rubber manufacturing industry                                    | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids  |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
| (13) Ceramic industry   | H+ concentration index, water temperature, COD, suspended solids   |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
| (14) Glass industry   | H+ concentration index, water temperature, COD, suspended solids   |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
| (15) Cement industry  | H+ concentration index, water temperature, COD, suspended solids   |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
| (16) Metal industry   | H+ concentration index, water temperature, COD, suspended solids   |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
| (17) Ship disassembly industry  | H+ concentration index, water temperature, COD, suspended solids   |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |
| (18) Metallic surface treatment industry                              | H+ concentration index, water temperature, COD, suspended solids, ammonia nitrogen   |  | Test every 6 months           | Test every 3 months   | Test every 6 months  | Test every 6 months  |

|  |  |                                     |                     |                     |                     |                     |
|--|--|-------------------------------------|---------------------|---------------------|---------------------|---------------------|
| (19) Electroplating industry   | H+ concentration index, water temperature, COD, suspended solids, ammonia nitrogen   |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (20) Wafer manufacturing and semiconductor manufacturing industry                                  | H+ concentration index, water temperature, COD, suspended solids, ammonia nitrogen   |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (21) Printed circuit board manufacturing industry  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids  |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (22) Shipbuilding and maintenance industry   | H+ concentration index, water temperature, COD, suspended solids   |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (23) Water Plant   | H+ concentration index, water temperature, COD, suspended solids, total chlorine residue   |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (24) Environmental Inspection and Certification Body   | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids  |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (25) Waste landfill site   | H+ concentration index, water temperature, COD, suspended solids, ammonia nitrogen   |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (26) Waste incineration plants or other waste treatment plant (site)                               | H+ concentration index, water temperature, COD, suspended solids   |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (27) Wastewater treatment industry   | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine, coliform group |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (28) Liquid manure treatment plant (site)  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, coliform group  |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (29) Towel manufacturing industry  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine                 |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (30) Power plants (Note 2, Note 3)   | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, total chlorine residue (or chlorine oxide), ammonia nitrogen                  |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (31) Meat market   | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine                 |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (32) Fish market   | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids  |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (33) Car wash  | H+ concentration index, water temperature, COD, suspended solids   |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (34) Ship cabin clearing industry  | H+ concentration index, water temperature, COD, suspended solids   |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (35) Experimental, inspection (chemical) inspection, research lab                                  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids  |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (36) Zoo   | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, coliform group  |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (37) Mining Industry   | H+ concentration index, water temperature, COD, suspended solids   |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (38) Rock and soil quarrying industry  | H+ concentration index, water temperature, COD, suspended solids   |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (39) Rock and soil processing industry   | H+ concentration index, water temperature, COD, suspended solids   |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (40) Rock and soil piles (dump) site   | H+ concentration index, water temperature, COD, suspended solids   |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (41) Container distribution business   | H+ concentration index, water temperature, COD, suspended solids   |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (42) Food manufacturing industry (excluding fermenting industry, milling industry, sugar industry) | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids  | Common application                  | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
|  | coliform group   | Suitable for animal body processing |                     |                     |                     |                     |
| (43) Slaughterhouse Industry   | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine                 |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (44) Milling industry  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids  |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (45) Fermentation industry   | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine                 |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (46) Car maintenance garage  | H+ concentration index, water temperature, COD, suspended solids   |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (47) Amusement Park (area)   | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, coliform group  |                                     | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |

|   |  |  |                     |                     |                     |                     |
|---|--|--|---------------------|---------------------|---------------------|---------------------|
| (48) Laundry industry   |  | H+ concentration index, water temperature, COD, suspended solids   | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (49) Other industries   |  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine                   | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (50) Waste recycling industry   |  | H+ concentration index, water temperature, COD, suspended solids   | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (51) Animal husbandry   |  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids  | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (52) Aquaculture industry   |  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids  | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (53) Hospital and medical institution   |  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, coliform group  | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (54) Coal Storage Yard  |  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine                   | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (55) Catering industry, tourism (hotel)   | 1. Mixed wastewater  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, coliform group  | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
|   | 2. Separately collecting of spring wastewater  | Water temperature, suspended solids  |                     |                     |                     |                     |
| (56) Photoelectric Materials and Components Manufacturing Industry                            |  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine, ammonia nitrogen | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (57) Livestock manure or biomass energy resource treatment center (or marsh gas reuse center) |  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids  | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (58) Water regeneration management industry   |  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, Coliform group, total nitrogen, total phosphorus                                | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (59) Seawater desalination plant (Note 3)   |  | H+ concentration index, water temperature, COD, suspended solids, total chlorine residue (or chlorine oxides)  | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (60) Steam supply industry  |  | H+ concentration index, water temperature, COD, suspended solids   | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (61) Any other appointed business by the competent authority at the national level            | 1. Specific substance storage and storage  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids  | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
|   | 2. Dredging outputs (sand and soil water) water purification treatment site                    | H+ concentration index, water temperature, COD, suspended solids   | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
|   | 3. Retail sales industry   | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids  | Test every 6 months | Test every 3 months | Test every 6 months | Test every 6 months |
| (62) Special sewage system in industrial areas  | 1. Petrochemical areas   | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine, ammonia nitrogen | Test every 6 months | Test every 3 months | Test every 6 months | -                   |
|   | 2. Science and Technology Park   | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine, ammonia nitrogen |                     |                     |                     |                     |
|   | 3. The industrial areas other than the petrochemical areas and the Science and technology park | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, true color chromaticity, free and available residual chlorine, ammonia nitrogen |                     |                     |                     |                     |
| (63) Public sewage system   |  | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids, coliform group, total nitrogen, ammonia nitrogen                                | Test every 6 months | Test every 3 months | Test every 6 months | -                   |
|   |  | Total phosphorus   |                     |                     |                     |                     |

|  |  |                   |                     |                     |                     |   |
|--|--|-------------------|---------------------|---------------------|---------------------|---|
|  |  | November 23, 2001 |                     |                     |                     |   |
| (64) Community-specific sewage sewers (Note 4)               | H+ concentration index, water temperature, biochemical oxygen demand, suspended solids, coliform group |                   | Test every 6 months | Test every 3 months | Test every 6 months | - |
| (65) Special sewage system for the designated areas or sites | H+ concentration index, water temperature, biochemical oxygen demand, COD, suspended solids            |                   | Test every 6 months | Test every 3 months | Test every 6 months | - |

(2) Specific water quality (1)

| The industrial or wastewater sewerage system types                | item   |  | Testing frequency             |   |  | The water quality of the managed industry's discharged water to the sewage system (Note 6) |
|---|--|--|-------------------------------|---|--|--|
|   |  |  | Original waste (sewage) water | Discharge of waste (sewage) water to the water body on ground surface   |  |  |
|   |  |  |                               | A responsible unit for waste (sewage) water treatment or a responsible personnel for Class A waste (sewage) water treatment is required | Class B waste (sewage) water is required. Dedicated personnel or waste (sewage) water treatment personnel is not required. |  |
| (3) Printing and dyeing industry                                  | *Anionic surface-active agent  |  | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
| (4) Leather industry  | * Total chromium, * oil and fat  |  | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
| (8) Chemical industry   | * Oil and fat, *Nitrate Nitrogen, *Villiaumite, *Anionic surface-active agent, *Phenols  | Common application   | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
|   | * Total chromium, * cadmium, * nickel, * copper, * total mercury, * lead, * arsenic, * zinc  | It is suitable for basic chemical raw materials manufacturing, other chemical materials manufacturing, other chemical manufacturing and battery manufacturing industry | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
| (10) Pesticide and environment drug manufacturing industry        | *phenols   |  | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
| (11) Petrochemical industry                                       | * oil and fat, * nitrate nitrogen, * phenols   |  | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
| (16) Metal industry   | * Total chromium, * cadmium, * nickel, * copper, * total mercury, * lead, * arsenic, * zinc, * oil and fat, * nitrate nitrogen, * villiaumite                            |  | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
| (17) Ship disassembly industry                                    | *oil and fat   |  | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
| (18) Metallic surface treatment industry                          | * Total chromium, * cadmium, * nickel, * copper, * total mercury, * lead, * arsenic, * zinc, * cyanide, * nitrate nitrogen, * villiaumite                                |  | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
| (19) Electroplating industry                                      | * Total chromium, * cadmium, * nickel, * copper, * total mercury, * lead, * arsenic, * zinc, * cyanide, * nitrate nitrogen, * villiaumite                                |  | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
| (20) Wafer manufacturing and semiconductor manufacturing industry | * Total chromium, * cadmium, * nickel, * copper, * total mercury, * lead, * arsenic, * zinc, * cyanide, * nitrate nitrogen, *villiaumite, * Anionic surface-active agent |  | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
| (21) Printed circuit board manufacturing industry                 | * Total chromium, * nickel, * copper, * total mercury, * lead, * arsenic, * cadmium, * zinc, * cyanide, * nitrate nitrogen, *villiaumite                                 |  | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
| (24) Environmental Inspection and Certification Body              | *Total mercury   |  | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
| (30) Power plants (Note 2)  | * Total chromium, * cadmium, * nickel, * copper, * total mercury, * lead, * arsenic, * zinc, * nitrate nitrogen, *villiaumite  |  | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
| (31) Meat market  | *oil and fat   |  | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
| (33) Car wash   | *Anionic surface-active agent  |  | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
| (34) Ship cabin clearing industry                                 | *oil and fat, *Anionic surface-active agent  |  | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |
| (35) Experimental, inspection                                     | *Total mercury, *zinc  |  | Test every 6 months           | Test every 6 months   | Test every 6 months  | Test every 6 months  |

|  |   |  |                     |                     |                     |                     |
|--|---|--|---------------------|---------------------|---------------------|---------------------|
| (chemical) inspection, research lab  |   |  | months              | months              | months              | months              |
| (42) Food manufacturing industry (excluding fermenting industry, milling industry, sugar industry) | *oil and fat  |  | Test every 6 months | Test every 6 months | Test every 6 months | Test every 6 months |
| (43) Slaughterhouse Industry   | Oil and fat   |  | Test every 6 months | Test every 6 months | Test every 6 months | Test every 6 months |
| (46) Car maintenance garage  | *oil and fat  |  | Test every 6 months | Test every 6 months | Test every 6 months | Test every 6 months |
| (47) Amusement Park (area)   | *oil and fat  |  | Test every 6 months | Test every 6 months | Test every 6 months | Test every 6 months |
| (55) Catering industry, tourism (hotel)  | 1. Mixed wastewater   | *oil and fat   | Test every 6 months | Test every 6 months | Test every 6 months | Test every 6 months |
|  | 2. Separately collecting of spring wastewater   | -  | -                   | -                   | -                   | -                   |
| (56) Photoelectric Materials and Components Manufacturing Industry                                 | * Total chromium, * cadmium, * nickel, * copper, * total mercury, * lead, * arsenic, * zinc, * cyanide, * nitrate nitrogen, *villiumite, * Anionic surface-active agent |  | Test every 6 months | Test every 6 months | Test every 6 months | Test every 6 months |
| (61) Any other appointed business by the competent authority at the national level                 | 1. Specific substance storage and storage   | * Total chromium, * cadmium, * nickel, * copper, * total mercury, * lead, * arsenic, * cyanide, * nitrate nitrogen, *villiumite  | Test every 6 months | Test every 6 months | Test every 6 months | Test every 6 months |
|  | 2. Oil storage site   | -  | -                   | -                   | -                   | -                   |
|  | 3. Dredging outputs (sand and soil water) water purification treatment site   | -  | -                   | -                   | -                   | -                   |
|  | 4. Retail sales industry  | *oil and fat, *Anionic surface-active agent  | Test every 6 months | Test every 6 months | Test every 6 months | Test every 6 months |
| (62) Special sewage system in industrial areas   | 1. Petrochemical areas  | *Total chromium, *cadmium, *nickel, *copper, *total mercury, *lead, *arsenic, *zinc, *oil and fat, *cyanide, *nitrate Nitrogen, *Anionic surface-active agent, *phenols              | Test every 6 months | Test every 6 months | Test every 6 months | Test every 6 months |
|  | 2. Science and Technology Park  | *Total chromium, *cadmium, *nickel, *copper, *total mercury, *lead, *arsenic, *zinc, *oil and fat, *cyanide, *Nitrate nitrogen, *villiumite, *Anionic surface-active agent, *phenols |                     |                     |                     |                     |
|  | 3. The industrial areas other than the petrochemical areas and the Science and technology park  | *Total chromium, *cadmium, *Nickel, *Copper, *Total Mercury, *Lead, *Arsenic, *Zinc, *oil and fat, *Cyanide, *Nitrate Nitrogen, *villiumite, *Anionic surface-active agent, *phenols |                     |                     |                     |                     |

(3) Specific water quality (2)

| The industrial or wastewater sewerage system types | item   | Testing frequency  |   |                  |  |
|--|--|--|---|------------------|--|
|  |  | Original waste (sewage) water  | Discharge of waste (sewage) water to the water body on ground surface |                  | The water quality of the managed industry's discharged water to the sewage system (Note 6) |
| (5) Paper pulp manufacturing                       | *Dioxin  | Test once a year   | Test once a year  | Test once a year | Test once a year   |
| (8) Chemical industry                              | *Nitrobenzene, *trichloroethylene, *formaldehyde   | Common application   | Test once a year  | Test once a year | Test once a year   |
|  | * solubleness manganese, * solubleness iron, *hexavalent chromium, *boron, *tin, *molybdenum | It is suitable for basic chemical raw materials manufacturing, other chemical materials manufacturing, other chemical manufacturing and battery manufacturing industry | Test once a year  | Test once a year | Test once a year   |

|  |  |  |                  |                  |                  |                  |
|--|--|--|------------------|------------------|------------------|------------------|
|  | *cobalt  | It is suitable for basic chemical raw materials manufacturing, other chemical materials manufacturing, coatings, dyes and pigments manufacturing, other chemical manufacturing and battery manufacturing industry  | Test once a year | Test once a year | Test once a year | Test once a year |
|  | *barium  | It is suitable for basic chemical raw materials manufacturing, artificial fiber manufacturing, synthetic resin, plastics and rubber manufacturing, other chemical materials manufacturing, coatings, dyes and pigments manufacturing, cleaning product manufacturing, cosmetics manufacturing, other chemical manufacturing and battery manufacturing industry | Test once a year | Test once a year | Test once a year | Test once a year |
|  | *methylene chloride, *trichloromethane   | It is suitable for basic chemical raw materials manufacturing, artificial fiber manufacturing, synthetic resin, plastics and rubber manufacturing, other chemical materials manufacturing, coatings, dyes and pigments manufacturing, cleaning product manufacturing, cosmetics manufacturing, other chemical manufacturing and battery manufacturing industry | Test once a year | Test once a year | Test once a year | Test once a year |
|  | *Benzene, *ethylbenzene, *chloroethylene, *1,2-dichloroethane, *dimethylphthalate (DMP), *diethyl phthalate (DEP), *dibutyl phthalate (DBP), butyl benzyl phthalate (BBP), *dioctyl phthalate (DNOP), * dibutyl (2-ethylhexyl) phthalate (DEHP)  | It is suitable for basic chemical raw materials manufacturing, synthetic resin, plastic and rubber manufacturing, other chemical materials manufacturing, coatings, dyes and pigments manufacturing, cosmetics manufacturing, and other chemical manufacturing industry  | Test once a year | Test once a year | Test once a year | Test once a year |
|  | *Dioxin  | It is suitable for chloroethylene manufacturing, waste incineration facilities, and air pollution control equipment with wet or semi-dry washing facilities  | Test once a year | Test once a year | Test once a year | Test once a year |
| (10) Pesticide and environment drug manufacturing industry | * organic phosphorus agents (such as parathion, DIAZINON, Methamidophos, Monocrotophos, EPN, etc.), *Total carbamates (such as ISOPROCARB, Carbofuran, METHOMYL, Propoxur, Butyl chlorpyrifos), * herbicides (Butachlor, Paraquat, II, IV - ground, Para Grass, herbicide, Glyphosate, etc.) |  | Test once a year | Test once a year | Test once a year | Test once a year |
| (11) Petrochemical industry                                | *Benzene, *ethylbenzene  | Common application   | Test once a year | Test once a year | Test once a year | Test once a year |
|  | *chloroethylene, *1,2-dichloroethane, *trichloromethane, *methylene chloride, *dimethylphthalate (DMP), *diethyl phthalate (DEP), *dibutyl phthalate (DBP), *o-benzene Butyl benzoate (BBP), *dioctyl phthalate (DNOP), *dibutyl (2-ethylhexyl) phthalate (DEHP)                             | It is suitable for petrochemical basic raw materials manufacturing, petrochemical midstream manufacturing, petrochemical downstream product manufacturing industry   | Test once a year | Test once a year | Test once a year | Test once a year |
|  | *Dioxin  | With waste incineration facilities and its air pollution control equipment with the wet or semi-dry washing facilities   | Test once a year | Test once a year | Test once a year | Test once a year |
| (16) Metal industry  | *hexavalent chromium, *boron, *tin, *molybdenum  |  | Test once a year | Test once a year | Test once a year | Test once a year |
| (17) Ship disassembly industry                             | —  |  | Test once a year | Test once a year | Test once a year | Test once a year |

|  |  |   |                  |                  |                  |                  |
|--|--|---|------------------|------------------|------------------|------------------|
| (18) Metallic surface treatment industry   |  | *hexavalent chromium, *boron, *tin, *molybdenum   | Test once a year | Test once a year | Test once a year | Test once a year |
| (19) Electroplating industry   |  | *hexavalent chromium, *boron, *tin, *molybdenum   | Test once a year | Test once a year | Test once a year | Test once a year |
| (20) Wafer manufacturing and semiconductor manufacturing industry                  |  | *hexavalent chromium, *boron, *tin, *molybdenum   | Test once a year | Test once a year | Test once a year | Test once a year |
| (21) Printed circuit board manufacturing industry                                  |  | *hexavalent chromium, *boron, *tin, *molybdenum   | Test once a year | Test once a year | Test once a year | Test once a year |
| (26) Waste incineration plants or other waste treatment plant (site)               |  | *Dioxin (with waste incineration facilities and its air pollution control equipment is treated with wet or semi-dry washing facilities)   | Test once a year | Test once a year | Test once a year | Test once a year |
| (30) Power plants (Note 2)   |  | *hexavalent chromium, *selenium, *boron   | Test once a year | Test once a year | Test once a year | Test once a year |
| (35) Experimental, inspection (chemical) inspection, research lab                  |  | *hexavalent chromium  | Test once a year | Test once a year | Test once a year | Test once a year |
| (56) Photoelectric Materials and Components Manufacturing Industry                 |  | *hexavalent chromium, *boron, *gallium, *indium, *molybdenum, *tin  | Test once a year | Test once a year | Test once a year | Test once a year |
| (61) Any other appointed business by the competent authority at the national level | 1. Specific substance storage and storage  | *hexavalent chromium, *methylmercury, *silver, *selenium, *polychlorinated biphenyl, *organic phosphorus (such as parathion, DIAZINON, Methamidophos, Monocrotophos, EPN, etc.), *total carbamate (such as ISOPROCARB, Carbofuran, METHODL, Propoxur, Butyl ISOPROCARB), * Herbicide (Butachlor, Paraquat, II, IV-Ground, Para Gras, Vernolate, Glyphosate, etc.), * Endosulfan, * Endrin, *lindane, *PCP and its derivatives, *DDT and its derivatives, *Aldrin and Diltiam, *Pentachlorophenol and its salts, *Toxaphene, *Perchlorin, * Folpet, * Tetrapan, * CAPTAN | Test once a year | Test once a year | Test once a year | Test once a year |
| (62) Special sewage system in industrial areas                                     | 1. Petrochemical areas   | *hexavalent chromium, *boron, *tin, *molybdenum, *benzene, *ethylbenzene, *chloroethylene, *1,2-dichloroethane, *trichloromethane, *methylene chloride, *dimethylphthalate (DMP), *diethyl phthalate (DEP), *dibutyl phthalate (DBP), *butyl phthalate (BBP), *phthalic acid Octyl ester (DNOP), *dibutyl (2-ethylhexyl) phthalate (DEHP), *nitrobenzene, *chloroethylene   | Test once a year | Test once a year | Test once a year | Test once a year |
|  | 2. Science and Technology Park   | *hexavalent chromium, *boron, *tin, *gallium, *indium, *molybdenum  |                  |                  |                  |                  |
|  | 3. The industrial areas other than the petrochemical areas and the Science and technology park | *hexavalent chromium, *boron, *tin, *gallium, *indium, *molybdenum  |                  |                  |                  |                  |

## II. Adopting soil treatment or discharging waste (sewage) water into the sea with the sea discharging pipes

| Water pollution prevention   |   | The industrial or wastewater sewerage system types          | Water quality declaration items  | Testing frequency       |
|--|---|---|--|-------------------------|
| Soil treatment   | quality of water discharged to the soil                   | Animal husbandry, zoo, sugar industry, public sewage system | H <sup>+</sup> concentration index, water temperature, biochemical oxygen demand, suspended solids, total nitrogen, ratio of sodium sorption.<br>Copper and zinc (for animal husbandry)  | Once every three months |
|  | Soil monitoring   |   | H <sup>+</sup> concentration index, copper, zinc, conductivity of soil saturated extract, *arsenic, *cadmium, *chromium, *total mercury, *nickel, *lead, *total nitrogen   | once a year             |
|  | Frequency of underground water monitoring                 |   | H <sup>+</sup> concentration index, ammonia nitrogen, nitrate nitrogen, total phosphorus, conductivity, *arsenic, *cadmium, *chromium, *copper, *lead, *zinc, *iron, *manganese, *total hardness, *total dissolved solids, *sulfate, *total organic carbon   | Once every six months   |
| Discharging waste (sewage) water into the ocean with the sea discharging pipes | quality of waste (sewage) water discharged into the ocean | The industrial or wastewater sewerage system                | It is conducted based on the declared items of original waste (sewage) water and discharge water quality   |                         |
|  | Ocean environment monitoring                              |   | 1. Seawater It is conducted based on the declared items of original waste (sewage) water and discharge water quality; it is also required to declare dissolved oxygen, oil and fat, sediment solids, heavy metals, phenols, total organic carbon, total phosphorus and total nitrogen<br>2. Sediment: total organic carbon, heavy metals | Once every three months |

|  |  |  |  |  |
|--|--|--|--|--|
|  |  |  | 3. Shellfish: cumulative heavy metals, hydrocarbons and pesticides<br>4. Marine creatures and benthic creatures: fish, large invertebrates, plankton (including basic prolificacy) |  |
|--|--|--|--|--|

- Note 1. If the industrial or wastewater sewerage system does not use and does not produce "\*" of the declared water quality items or its test results are lower than the limit of testing method during the waste (sewage) water treatment process, it is required to attached the proof document and apply to the competent authority of the municipality or county (city) for exempting the declared testing items.
- Note 2. The discharged warm water that is cool down by seawater, its can only declare the water temperature at the water inlet and water outlet.
- Note 3. The total chlorine residue of the power plant and seawater desalination plant are applicable for the discharge water with salinity scale of less than 10 psu (Practical salinity scale). The chloride oxides are applicable for the discharge water with salinity of 10 psu (Practical Salinity scale) or more, and it should be tested with the chlorine oxides testing method. However, it will still be tested with the total chlorine residue testing method before the chlorine oxides testing method is announced.
- Note 4. The special community sewage system without a waste (sewage) water treatment personnel shall be tested once a year for the quality of original waste (sewage) water and discharge water.
- Note 5. For the industrial or wastewater sewerage system located in the water quality and quantity protection area, the testing of ammonia nitrogen and orthophosphate shall also be conducted for the quality of original waste (sewage) water and discharge water.
- Note 6. If the sewer management agency (institution) has extra stipulation on increasing the frequency of testing, its regulations shall be followed.