

Test Report No.: 326094305a 002

Client: **WUJIANG CITY XINDA PRINTING AND DYEING FACTORY**

Beside Taipu River, Meiyan Community, Pingwang Town, Wujiang, 215225
Suzhou , Jiangsu Sheng

Buyer's Name : -

Factory Details

Factory Name : WUJIANG CITY XINDA PRINTING AND DYEING FACTORY
Factory Address (with geographical coordinates) : Beside Taipu River, Meiyan Community, Pingwang Town, Wujiang , 215225 Suzhou , Jiangsu Sheng
On-site ETP : Y
Discharge Type of Wastewater : Direct discharge
Destination of Wastewater : Taipu River

For Indirect discharge

Name of public wastewater treatment plants(CETP) : -
Address of public wastewater treatment plants(CETP) : -

Sampling Details

Sampling Date : 2025-02-11
Sample Receiving Date : 2025-02-12
Testing Period : 2025-02-12 to 2025-02-21
Parameter(s) exceeded maximum holding time : No
Sampling Method:

| Sample Type | Total Volume | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|-----------------------|--------------|-------|-------|-------|-------|-------|-------|-------|
| Discharged Wastewater | 23.7L | 9:50 | 10:50 | 11:50 | 12:50 | 13:50 | 14:50 | 15:50 |
| Raw Wastewater | 15.2L | 9:00 | 10:00 | 11:00 | 12:00 | 13:00 | 14:00 | 15:00 |
| Incoming Water | 5L | 12:10 | - | - | - | - | - | - |
| Sludge | 5.5L | 10:20 | - | - | - | - | - | - |

| Overall Rating | Discharged Wastewater | Raw Wastewater | Sludge |
|--|---|----------------|-------------|
| Conventional Parameters / Anion / Metals | Fulfill Foundational Limit | Not Tested | Report Only |
| MRS� Parameters | Not Tested | Comply | Report Only |
| Legal Compliance | Not Tested | Not Tested | Not Tested |
| Specifications | ZDHC Wastewater Guidelines Version 2.2 (September 2024) | | |

Remark: The report 326094305a 002 superseded report 326094305a 001.
Revise reason: Updated sample drawing report.

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.



2025-03-14

Carmen Yan / Department Manager

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.
"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

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Result Summary :

| Conventional Parameters | Incoming Water | Discharged Wastewater | Raw Wastewater | Sludge |
|---|----------------|-----------------------|----------------|-------------|
| pH Value | - | Aspirational | - | - |
| Temperature | - | Foundational | - | - |
| E.Coli | - | Aspirational | - | - |
| Colour | - | Aspirational | - | - |
| Persistent Foam | - | Aspirational | - | - |
| Wastewater Flowrate | - | Report Only | - | - |
| Ammonium Nitrogen | - | Aspirational | - | - |
| Adsorbable Organic Halogens (AOX) | - | Aspirational | - | - |
| Biochemical Oxygen Demand (BOD5) - 5 Days | - | Aspirational | - | - |
| Chemical Oxygen Demand (COD) | - | Aspirational | - | - |
| Dissolved Oxygen (DO) | - | Aspirational | - | - |
| Oil and Grease | - | Aspirational | - | - |
| Phenol | - | Progressive | - | - |
| Total Chlorine | - | Aspirational | - | - |
| Total Dissolved Solids (TDS) | - | Report Only | - | - |
| Total Nitrogen | - | Aspirational | - | - |
| Total Phosphorous | - | Aspirational | - | - |
| Total Suspended Solids (TSS) | - | Progressive | - | - |
| Anion - Chloride | - | Report Only | - | - |
| Anion - Cyanide | - | Aspirational | - | - |
| Anion - Sulfate | - | Report Only | - | - |
| Anion - Sulfide | - | Progressive | - | - |
| Anion - Sulfite | - | Aspirational | - | - |
| Heavy Metals | - | Aspirational | - | Report Only |
| %Solids | - | - | - | Report Only |
| Manufacturing Restricted Substances List (MRSL) | Incoming Water | Discharged Wastewater | Raw Wastewater | Sludge |
| Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers | - | - | Comply | Report Only |
| Anti-Microbials & Biocides | - | - | Comply | - |
| Chlorinated Paraffins | - | - | Comply | - |
| Chlorobenzenes and Chlorotoluenes | - | - | Comply | Report Only |
| Chlorophenols | - | - | Comply | - |
| Dimethyl Formamide (DMFa) | - | - | Comply | - |
| Dyes - Carcinogenic or Equivalent Concern | - | - | Comply | - |
| Dyes - Disperse (Sensitizing) | - | - | Comply | - |
| Flame Retardants | - | - | Comply | - |
| Glycols / Glycol Ethers | - | - | Comply | - |

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| | | | | |
|--|---|---|--------|-------------|
| Halogenated Solvents | - | - | Comply | - |
| Organotin Compounds | - | - | Comply | - |
| Other / Miscellaneous Chemicals | - | - | Comply | - |
| Perfluorinated and Polyfluorinated Chemicals (PFCs) | - | - | Comply | - |
| Phthalates - Including all other esters of phthalic acid | - | - | Comply | - |
| Polycyclic Aromatic Hydrocarbons (PAHs) | - | - | Comply | Report Only |
| Restricted Aromatic Amines(Cleavable from Azo) | - | - | Comply | - |
| UV Absorbers | - | - | Comply | - |
| Volatile Organic Compounds (VOC) | - | - | Comply | - |

Note: Aspirational = Fulfill Aspirational Limit
 Foundational = Fulfill Foundational Limit
 Comply = Comply with ZDHC Limit
 - = Not Tested

Progressive = Fulfill Progressive Limit
 Exceed = Exceed Foundational Limit
 Not Comply = Not Comply with ZDHC Limit

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Material List:

| Field ID | Sample Type | Sample Description |
|----------|-------------|--|
| D001 | Discharge | Discharge Wastewater (Direct Discharge)* |
| R001 | Raw | Raw Wastewater* |
| S001 | Sludge | Sludge (Type A)* |

Notes:

- * **Discharge Wastewater:** Wastewater that is released from a supplier, either directly to the environment (including but not limited to: water bodies, land application/irrigation), or to a wastewater treatment system beyond the supplier's property boundaries.
- * **Direct Discharge:** A point source that discharges wastewater to stream, lakes, oceans, or other receiving bodies. Distribution of wastewater onto land is also considered a type of direct discharge. Municipal bodies and suppliers that introduce pollution through a defined conveyance or system such as outlet pipes are direct dischargers.
- * **Indirect Discharge:** The discharge of wastewater through a sanitary or industrial wastewater sewer system to a central or common effluent treatment plant (CETP) not owned and/ or operated by the supplier discharging the pollutants.
- * **Raw Wastewater: (Untreated Wastewater)** Wastewater that has not yet been treated prior to direct or indirect discharge, or recycling efforts. This wastewater therefore does not meet the quality standards for beneficial use.
- * **Sludge:** The solid or semi-solid material separated during the wastewater treatment process, including septic and Zero Liquid Discharge (ZLD) systems.
- * **Incoming Water:** Water that is supplied to a manufacturing process, usually withdrawn from surface water bodies, groundwater, collected from rainfall, supplied by municipalities, etc.
- Type A:** On-site or off-site incineration at > 1000°C.
- Type B:** Landfill with Significant Control Measures.
- Type C:** Building Products Processed at > 1000°C.
- Type D:** Landfill with Limited Control Measures.
- Type E:** Offsite Incineration and Building Products Processed at < 1000°C.
- Type F:** Landfill with No Control Measures.
- Type G:** Land application for a specific purpose in approved areas.

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1.pH Value

| | | | | | Sample No. | D001 |
|------------|----------------|-------------|------|----|----------------------------|------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result | |
| pH Value | PH | HJ 1147 | NONE | NA | 6.5 | |
| Conclusion | | | | | Fulfill Aspirational Limit | |

Abbreviation: NA = Not Applicable

Remark:

The limits according to ZDHC limit (Table 3 & 4C of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Wastewater Limit | | |
|-----------|-----------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| pH Value | 6-9 | | |

| Parameter | ZDHC Sludge Limit | | | | | | |
|-----------|-------------------|---|---|------|------|-------|-------|
| | A | B | C | D | E | F | G |
| pH Value | NA | | | 5-11 | 5-11 | 6.5-9 | 6.5-9 |

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2. Temperature

| | | | | Sample No. | D001 |
|--|----------------------|-------------|------|------------|----------------------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Temperature of the receiving body of water | Temp-Receiving Water | GB/T 13195 | °C | NA | 12.0 |
| Temperature of the water in the discharge pipe | Temp-Discharge Pipe | GB/T 13195 | °C | NA | 26.0 |
| The difference between the discharge pipe temp and the receiving body of water | Temp-Difference | GB/T 13195 | °C | NA | +14 |
| Conclusion | | | | | Fulfill Foundational Limit |

Abbreviation: °C = Degrees Celsius
NA = Not Applicable

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (° C) | | |
|-------------|------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Temperature | Δ +15 | Δ +10 | Δ +5 |

Δ is the degree above ambient temperature of receiving water body.

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3.E.Coli

| | | | | Sample No. | D001 |
|------------|----------------|-------------|-----------|------------|----------------------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| E.Coli | E.Coli | SM 9221G | MPN/100ml | 10 | < RL |
| Conclusion | | | | | Fulfill Aspirational Limit |

Abbreviation: < = less than
 RL = reporting limit
 MPN/100ml =Most Probable Number per 100 millilitre

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (MPN/100ml) | | |
|-----------|------------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| E.Coli | 126 | | |

4.Colour

| | | | | Sample No. | D001 |
|---------------|----------------|-------------|-----------------|------------|----------------------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Colour 436 NM | COLOUR-436 | ISO 7887-B | m ⁻¹ | NA | 0.42 |
| Colour 525 NM | COLOUR-525 | ISO 7887-B | m ⁻¹ | NA | 0.14 |
| Colour 620 NM | COLOUR-620 | ISO 7887-B | m ⁻¹ | NA | 0.07 |
| Conclusion | | | | | Fulfill Aspirational Limit |

Abbreviation: NM = nanometer
NA = Not Applicable

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (m ⁻¹) | | |
|-----------|-------------------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Colour | 7;5;3 | 5;3;2 | 2;1;1 |

5.Persistent Foam

| | | | | Sample No. | D001 |
|-----------------|----------------|-------------|------|------------|----------------------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Persistent Foam | FOAM | Visual | NONE | NA | Not Visible |
| Conclusion | | | | | Fulfill Aspirational Limit |

Abbreviation: NA = Not Applicable

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit | | |
|-----------------|--|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Persistent Foam | The presence of foam is no thicker than 45 centimetres (by visual estimation), and is contained within the aeration basin. | | |

6.Wastewater Flowrate

| | | | | Sample No. | D001 |
|---------------------|----------------|-------------|----------------------|------------|-------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Wastewater Flowrate | Flowrate | NA | m ³ / day | NONE | 4500 |
| Conclusion | | | | | Report Only |

Abbreviation: m³ / day = cubic metre per day
NA = Not Applicable

7. Ammonium Nitrogen

| | | | | | | |
|-------------------|----------------|-------------|------|-----|----------------------------|------|
| | | | | | Sample No. | D001 |
| Parameter | Parameter Code | Test Method | Unit | RL | Result | |
| Ammonium Nitrogen | AMMONIUM-N | HJ 535 | mg/L | 0.5 | < RL | |
| Conclusion | | | | | Fulfill Aspirational Limit | |

Abbreviation: < =less than
 RL =reporting limit
 mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (mg/L) | | |
|-------------------|-------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Ammonium Nitrogen | 10 | 1 | 0.5 |

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8.Adsorbable Organic Halogens (AOX)

| | | | | Sample No. | D001 |
|-----------------------------|----------------|-------------|------|------------|----------------------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Adsorbable Organic Halogens | AOX | ISO 9562 | mg/L | 0.1 | < RL |
| Conclusion | | | | | Fulfill Aspirational Limit |

Abbreviation: < =less than
 RL =reporting limit
 mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (mg/L) | | |
|-----------------------------------|-------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Adsorbable Organic Halogens (AOX) | 3 | 0.5 | 0.1 |

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9. Biochemical Oxygen Demand (BOD5) - 5 Days

| | | | | Sample No. | D001 |
|---------------------------|----------------|-------------|------|------------|----------------------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Biochemical Oxygen Demand | BOD5 | HJ 505 | mg/L | 5 | < RL |
| Conclusion | | | | | Fulfill Aspirational Limit |

Abbreviation: < =less than
 RL =reporting limit
 mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (mg/L) | | |
|---|-------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Biochemical Oxygen Demand (BOD ₅) | 30 | 15 | 8 |

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10. Chemical Oxygen Demand (COD)

| | | | | Sample No. | D001 |
|------------------------|----------------|-------------|------|------------|----------------------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Chemical Oxygen Demand | COD | HJ 828 | mg/L | 30 | < RL |
| Conclusion | | | | | Fulfill Aspirational Limit |

Abbreviation: < =less than
 RL =reporting limit
 mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (mg/L) | | |
|------------------------------|-------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Chemical Oxygen Demand (COD) | 150 | 80 | 40 |

11.Dissolved Oxygen (DO)

| | | | | Sample No. | D001 |
|------------------|----------------|-------------|------|------------|----------------------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Dissolved Oxygen | DO | HJ 506 | mg/L | NA | 5.10 |
| Conclusion | | | | | Fulfill Aspirational Limit |

Abbreviation: < = less than
 RL = reporting limit
 NA = Not Applicable
 mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (mg/L) | | |
|-----------------------|-------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Dissolved Oxygen (DO) | > 4 | | |

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12.Oil and Grease

| | | | | | Sample No. | D001 |
|----------------|----------------|-------------|------|-----|----------------------------|------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result | |
| Oil and Grease | OG | HJ 637 | mg/L | 0.5 | < RL | |
| Conclusion | | | | | Fulfill Aspirational Limit | |

Abbreviation: < =less than
 RL =reporting limit
 mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (mg/L) | | |
|----------------|-------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Oil and Grease | 10 | 2 | 0.5 |

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13.Phenol

| | | | | | |
|------------|----------------|-------------|------|------------|------------------------------|
| | | | | Sample No. | D001 |
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Phenol | 108-95-2 | HJ 503 | mg/L | 0.001 | 0.002 |
| Conclusion | | | | | Fulfill Progressive Limit |

Abbreviation: < =less than
 RL =reporting limit
 mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (mg/L) | | |
|-----------|-------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Phenol | 0.5 | 0.01 | 0.001 |

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14.Total Chlorine

| | | | | | |
|----------------|----------------|-------------|------|------------|----------------------------|
| | | | | Sample No. | D001 |
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Total Chlorine | Total Chlorine | HJ 586 | mg/L | 0.1 | 0.25 |
| Conclusion | | | | | Fulfill Aspirational Limit |

Abbreviation: < = less than
 RL = reporting limit
 mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (mg/L) | | |
|----------------|-------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Total Chlorine | 1 | | |

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15.Total Dissolved Solids (TDS)

| | | | | Sample No. | D001 |
|------------------------|----------------|--------------|------|------------|-------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Total Dissolved Solids | TDS | US EPA 160.1 | mg/L | 10 | 920 |
| Conclusion | | | | | Report Only |

Abbreviation: < = less than
 RL = reporting limit
 mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (mg/L) | | |
|------------------------|------------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Total Dissolved Solids | Sample and report only | | |

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16.Total Nitrogen

| | | | | Sample No. | D001 |
|----------------|----------------|-------------|------|------------|----------------------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Total Nitrogen | TOTAL-N | HJ 636 | mg/L | 2 | < RL |
| Conclusion | | | | | Fulfill Aspirational Limit |

Abbreviation: < =less than
 RL =reporting limit
 mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (mg/L) | | |
|----------------|-------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Total Nitrogen | 20 | 10 | 5 |

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17.Total Phosphorous

| | | | | Sample No. | D001 |
|-------------------|----------------|-------------|------|------------|----------------------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Total Phosphorous | TOTAL-P | GB/T 11893 | mg/L | 0.1 | < RL |
| Conclusion | | | | | Fulfill Aspirational Limit |

Abbreviation: < =less than
 RL =reporting limit
 mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (mg/L) | | |
|-------------------|-------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Total Phosphorous | 3 | 0.5 | 0.1 |

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18.Total Suspended Solids (TSS)

| | | | | Sample No. | D001 |
|------------------------|----------------|-------------|------|------------|---------------------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Total Suspended Solids | TSS | GB/T 11901 | mg/L | 5 | 6 |
| Conclusion | | | | | Fulfill Progressive Limit |

Abbreviation: < =less than
 RL =reporting limit
 mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (mg/L) | | |
|------------------------|-------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Total Suspended Solids | 50 | 15 | 5 |

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19. Anion - Chloride

| | | | | Sample No. | D001 |
|------------------|----------------|-------------|------|------------|-------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Anion - Chloride | Chloride | HJ 84-2016 | mg/L | 0.2 | < RL |
| Conclusion | | | | | Report Only |

Abbreviation: < = less than
 RL = reporting limit
 mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (mg/L) | | |
|------------------|------------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Anion - Chloride | Sample and report only | | |

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20. Anion - Cyanide

| | | | | Sample No. | D001 |
|-----------------|----------------|-------------|------|------------|----------------------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Anion - Cyanide | 57-12-5 | HJ 484 | mg/L | 0.05 | < RL |
| Conclusion | | | | | Fulfill Aspirational Limit |

Abbreviation: < =less than
 RL =reporting limit
 mg/L = milligram per liter
 mg/kg = milligram per kilogram

Remark:

The limits according to ZDHC limit (Table 3 & 4C of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit for Wastewater (mg/L) | | |
|-----------------|----------------------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Anion - Cyanide | 0.2 | 0.1 | 0.05 |

| Parameter | ZDHC Sludge Limit (mg/kg) | | | | | | |
|-----------------|---------------------------|---|---|----|----|----|----|
| | A | B | C | D | E | F | G |
| Anion - Cyanide | NA | | | 85 | 70 | 70 | 70 |

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21. Anion - Sulfate

| | | | | Sample No. | D001 |
|-----------------|----------------|-------------|------|------------|-------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| Anion - Sulfate | Sulfate | HJ 84-2016 | mg/L | 0.1 | 525 |
| Conclusion | | | | | Report Only |

Abbreviation: < = less than
 RL = reporting limit
 mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (mg/L) | | |
|-----------------|------------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Anion - Sulfate | Sample and report only | | |

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22. Anion - Sulfide

| | | | | | Sample No. | D001 |
|-----------------|----------------|-------------|------|------|------------|---------------------------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result | |
| Anion - Sulfide | 18496-25-8 | GB/T 16489 | mg/L | 0.01 | 0.02 | |
| Conclusion | | | | | | Fulfill Progressive Limit |

Abbreviation: < =less than
 RL =reporting limit
 mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (mg/L) | | |
|-----------------|-------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Anion - Sulfide | 0.5 | 0.05 | 0.01 |

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23. Anion - Sulfite

| | | | | | Sample No. | D001 |
|-----------------|----------------|-------------|------|-----|----------------------------|------|
| Parameter | Parameter Code | Test Method | Unit | RL | Result | |
| Anion - Sulfite | 14265-45-3 | HJ 84-2016 | mg/L | 0.2 | < RL | |
| Conclusion | | | | | Fulfill Aspirational Limit | |

Abbreviation: < =less than
 RL =reporting limit
 mg/L = milligram per liter

Remark:

The limits according to ZDHC limit (Table 3 of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit (mg/L) | | |
|-----------------|-------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Anion - Sulfite | 2 | 0.5 | 0.2 |

24.Heavy Metals

| Parameter | Parameter Code | Test Method | Unit | Sample No. | |
|----------------------|----------------|--------------|------|------------|----------------------------|
| | | | | RL | D001 Result |
| Antimony (Sb) * | Antimony | US EPA 6020a | mg/L | 0.001 | < RL |
| Chromium (Cr, total) | Chromium Total | US EPA 6020a | mg/L | 0.001 | < RL |
| Cobalt (Co) | Cobalt | US EPA 6020a | mg/L | 0.001 | 0.009 |
| Copper (Cu) | Copper | US EPA 6020a | mg/L | 0.001 | < RL |
| Nickel (Ni) | Nickel | US EPA 6020a | mg/L | 0.001 | 0.007 |
| Silver (Ag) | Silver | US EPA 6020a | mg/L | 0.001 | < RL |
| Zinc (Zn) | Zinc | US EPA 6020a | mg/L | 0.001 | 0.020 |
| Arsenic (As) | Arsenic | US EPA 6020a | mg/L | 0.001 | < RL |
| Cadmium (Cd) | Cadmium | US EPA 6020a | mg/L | 0.001 | < RL |
| Chromium (Cr VI) | Chromium VI | GB 7467 | mg/L | 0.001 | < RL |
| Lead (Pb) | Lead | US EPA 6020a | mg/L | 0.001 | < RL |
| Mercury (Hg) | Mercury | ISO 17294-2 | mg/L | 0.001 | < RL |
| Barium (Ba) | Barium | US EPA 6020a | mg/L | 0.001 | 0.036 |
| Selenium (Se) | Selenium | US EPA 6020a | mg/L | 0.001 | < RL |
| Tin (Sn) | Tin | US EPA 6020a | mg/L | 0.001 | < RL |
| Conclusion | | | | | Fulfill Aspirational Limit |

| Parameter | Parameter Code | Test Method | Unit | Sample No. | |
|----------------------|----------------|--------------|-------|------------|-------------|
| | | | | RL | S001 Result |
| Antimony (Sb) | Antimony | HJ 803 | mg/kg | 5 | 66 |
| Chromium (Cr, total) | Chromium Total | HJ 803 | mg/kg | 50 | 206 |
| Cobalt (Co) | Cobalt | US EPA 7196 | mg/kg | 400 | < RL |
| Copper (Cu) | Copper | HJ 803 | mg/kg | 50 | 68 |
| Nickel (Ni) | Nickel | HJ 803 | mg/kg | 20 | 65 |
| Silver (Ag) | Silver | US EPA 6020b | mg/kg | 50 | < RL |
| Zinc (Zn) | Zinc | HJ 803 | mg/kg | 400 | < RL |
| Arsenic (As) | Arsenic | HJ 803 | mg/kg | 5 | 35 |
| Cadmium (Cd) | Cadmium | HJ 803 | mg/kg | 1 | < RL |
| Chromium (Cr VI) | Chromium VI | US EPA 7196 | mg/kg | 20 | < RL |
| Lead (Pb) | Lead | HJ 803 | mg/kg | 5 | 33 |
| Mercury (Hg) | Mercury | US EPA 6020b | mg/kg | 1 | < RL |
| Barium (Ba) | Barium | US EPA 6020b | mg/kg | 200 | < RL |
| Selenium (Se) | Selenium | US EPA 6020b | mg/kg | 5 | < RL |
| Conclusion | | | | | Report Only |

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Abbreviation: < =less than
 RL =reporting limit
 mg/L = milligram per liter
 mg/kg = milligram per kilogram

Remark:

The limits according to ZDHC limit (Table 2 & 4B of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Limit for Wastewater (mg/L) | | | ZDHC Limit for Sludge (mg/kg) | | |
|----------------------|----------------------------------|-------------|--------------|-------------------------------|--------------------|---------------------------------|
| | Foundational | Progressive | Aspirational | Disposal pathway A-F | Disposal pathway G | Total Metals Threshold Values** |
| Antimony (Sb) | 0.1 | 0.05 | 0.01 | Report only | NA | 12 |
| Chromium (Cr, total) | 0.2 | 0.1 | 0.05 | | 1200 | 100 |
| Cobalt (Co) | 0.05 | 0.02 | 0.01 | | NA | 1600 |
| Copper (Cu) | 1 | 0.5 | 0.25 | | 1500 | 200 |
| Nickel (Ni) | 0.2 | 0.1 | 0.05 | | 420 | 70 |
| Silver (Ag) | 0.1 | 0.05 | 0.005 | | NA | 100 |
| Zinc (Zn) | 5.0 | 1.0 | 0.5 | | 2800 | 1000 |
| Arsenic (As) | 0.05 | 0.01 | 0.005 | | 41 | 10 |
| Cadmium (Cd) | 0.1 | 0.05 | 0.01 | | 39 | 3 |
| Chromium (Cr VI) | 0.05 | 0.005 | 0.001 | | 50 | 50 |
| Lead (Pb) | 0.1 | 0.05 | 0.01 | | 400 | 10 |
| Mercury (Hg) | 0.01 | 0.005 | 0.001 | | 17 | 1 |
| Barium (Ba) | Sample and report only | | | | 500 | 700 |
| Selenium (Se) | Sample and report only | | | | 36 | 10 |
| Tin (Sn) | Sample and report only | | | NA | NA | |

* if the Total Metals for Sludge exceeded the Total Metals Threshold Values (mg/kg) given in this table, proceed with Leachate Heavy Metal.

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25.%Solids

| | | | | | |
|------------|----------------|-----------------|------|------------|-------------|
| | | | | Sample No. | S001 |
| Parameter | Parameter Code | Test Method | Unit | RL | Result |
| %Solids | %Solids | HJ 613 at 105°C | % | NA | 36.9 |
| Conclusion | | | | | Report Only |

Abbreviation: % = percentage
NA = Not Applicable

Remark:

The limits according to ZDHC limit (Table 4C of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Sludge Limit | | | | | | |
|-------------|------------------------|---|---|---|---|---|---|
| | A | B | C | D | E | F | G |
| Sludge Type | | | | | | | |
| %Solids | Sample and Report Only | | | | | | |

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26. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers

| Parameter | Parameter Code | Test Method | Unit | RL | Sample No. | R001 |
|---------------------------------|--|----------------------------|------|----|------------|--------|
| | | | | | ZDHC Limit | Result |
| Nonylphenol (NP), mixed isomers | Multiple Including 104-40-5 25154-52-3 11066-49-2 84852-15-3 | ISO 18857-2 | µg/L | 5 | 5 | < RL |
| Octylphenol (OP), mixed isomers | Multiple Including 140-66-9 1806-26-4 27193-28-8 | ISO 18857-2 | µg/L | 5 | 5 | < RL |
| Nonylphenol ethoxylates (NPEO) | Multiple Including 9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0 | ISO 18254-1, ASTM D7065 | µg/L | 5 | 5 | < RL |
| Octylphenol ethoxylates (OPEO) | Multiple Including 9002-93-1 9036-19-5 68987-90-6 | ISO 18254-1, ASTM D7065 | µg/L | 5 | 5 | < RL |
| Conclusion | | | | | | Comply |

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| Parameter | Parameter Code | Test Method | Unit | Sample No. | S001 |
|---------------------------------|--|-------------------------|-------|------------|-------------|
| | | | | RL | Result |
| Nonylphenol (NP), mixed isomers | Multiple Including 104-40-5 25154-52-3 11066-49-2 84852-15-3 | ISO 18857-2 | mg/kg | 0.2 | < RL |
| Octylphenol (OP), mixed isomers | Multiple Including 140-66-9 1806-26-4 27193-28-8 | ISO 18857-2 | mg/kg | 0.2 | < RL |
| Nonylphenol ethoxylates (NPEO) | Multiple Including 9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0 | ISO 18254-1, ASTM D7065 | mg/kg | 0.2 | < RL |
| Octylphenol ethoxylates (OPEO) | Multiple Including 9002-93-1 9036-19-5 68987-90-6 | ISO 18254-1, ASTM D7065 | mg/kg | 0.2 | < RL |
| Conclusion | | | | | Report Only |

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter
 mg/kg = milligram per kilogram

Remark:

The limits according to ZDHC limit (Table 4A of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Sludge Limit (mg/kg) | | | | | | |
|-------------|---------------------------|---|---|-----|-----|-----|-----|
| | A | B | C | D | E | F | G |
| Sludge Type | | | | | | | |
| AP & APEOs | Sample and Report Only | | | 0.4 | 0.4 | 0.4 | 0.4 |

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27. Anti-Microbials & Biocides

| Parameter | Parameter Code | Test Method | Unit | RL | Sample No. | R001 |
|-------------------------|----------------------------------|------------------------------------|------|-----|------------|--------|
| | | | | | ZDHC Limit | Result |
| o-Phenylphenol (+Salts) | 90-43-7 | MS_0023187_en 2020 -09 modified | µg/L | 100 | 100 | < RL |
| Triclosan | 3380-34-5 | US EPA 8270E | µg/L | 100 | 100 | < RL |
| Permethrin | Multiple including 52645-53-1 | US EPA 8270E | µg/L | 500 | 500 | < RL |
| Conclusion | | | | | | Comply |

Abbreviation: < = less than
 RL =reporting limit
 µg/L = microgram per liter

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28.Chlorinated Paraffins

| Parameter | Parameter Code | Test Method | Unit | RL | Sample No. | R001 |
|--|----------------|--------------------------|------|----|------------|--------|
| | | | | | ZDHC Limit | Result |
| Medium-chain Chlorinated paraffins (MCCPs) (C14-C17) | 85535-85-9 | US EPA 3510, ISO 18219-2 | µg/L | 5 | 500 | < RL |
| Short-chain Chlorinated paraffins (SCCPs) (C10-C13) | 85535-84-8 | US EPA 3510, ISO 18219-1 | µg/L | 5 | 25 | < RL |
| Conclusion | | | | | | Comply |

Abbreviation: < = less than
 RL =reporting limit
 µg/L = microgram per liter

29.Chlorobenzenes and Chlorotoluenes

| Parameter | Parameter Code | Test Method | Unit | Sample No. | | R001 |
|---|--|--------------------------|------|------------|------------|--------|
| | | | | RL | ZDHC Limit | Result |
| 1,2-Dichlorobenzene | 95-50-1 | GB/T 20384-2006 modified | µg/L | 0.2 | 0.2 | < RL |
| Other isomers of mono, di-, tri-, tetra-, penta- and hexa- Chlorobenzene and mono, di- tri-, tetra- and penta-Chlorotoluene | Multiple including 108-90-7,541-73-1,106-46-7,87-61-6,120-82-1,108-70-3,634-66-2,634-90-2,95-94-3,608-93-5,118-74-1,95-49-8,108-41-8,106-43-4,32768-54-0,95-73-8,19398-61-9,118-69-4,95-75-0,25186-47-4,7359-72-0,2077-46-5,6639-30-1,23749-65-7,21472-86-6,1006-32-2,875-40-1,1006-31-1,877-11-2 | GB/T 20384-2006 modified | µg/L | 0.2 | 0.2 | < RL |
| Conclusion | | | | | | Comply |

| Parameter | Parameter Code | Test Method | Unit | Sample No. | | S001 |
|--|----------------|-------------|-------|------------|--------|-------------|
| | | | | RL | Result | |
| mono, di- tri-, tetra- and penta-Chlorotoluene | Multiple | HJ 605 | mg/kg | 0.1 | | < RL |
| Conclusion | | | | | | Report Only |

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter
 mg/kg = milligram per kilogram

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Remark:

The limits according to ZDHC limit (Table 4C of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Sludge Limit (mg/kg) | | | | | | |
|--|---------------------------|---|---|-----|-----|-----|-----|
| Sludge Type | A | B | C | D | E | F | G |
| mono, di- tri-, tetra- and penta-Chlorotoluene | Sample and Report only | | | 0.2 | 0.2 | 0.2 | 0.2 |

30.Chlorophenols

| Parameter | Parameter Code | Test Method | Unit | RL | Sample No. | R001 |
|---------------------------|----------------|--------------|------|-----|------------|--------|
| | | | | | ZDHC Limit | Result |
| 2-Chlorophenol | 95-57-8 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 3-chlorophenol | 108-43-0 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 4-chlorophenol | 106-48-9 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 2,3-Dichlorophenol | 576-24-9 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 2,4-Dichlorophenol | 120-83-2 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 2,5-Dichlorophenol | 583-78-8 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 2,6-Dichlorophenol | 87-65-0 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 3,4-Dichlorophenol | 95-77-2 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 3,5- Dichlorophenol | 591-35-5 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 2,3,4-Trichlorophenol | 15950-66-0 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 2,3,5-Trichlorophenol | 933-78-8 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 2,3,6-Trichlorophenol | 933-75-5 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 2,4,5-Trichlorophenol | 95-95-4 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 2,4,6-Trichlorophenol | 88-06-2 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 3,4,5-Trichlorophenol | 609-19-8 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 2,3,4,6-Tetrachlorophenol | 58-90-2 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| Pentachlorophenol | 87-86-5 | US EPA 8270E | µg/L | 0.5 | 0.5 | < RL |
| Conclusion | | | | | | Comply |

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

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31. Dimethyl Formamide (DMFa)

| | | | | | Sample No. | R001 |
|-----------------------------|----------------|--------------------|------|------|------------|--------|
| Parameter | Parameter Code | Test Method | Unit | RL | ZDHC Limit | Result |
| Dimethyl formamide (DMFa) * | 68-12-2 | US EPA 8215, 8270E | µg/L | 1000 | 1000 | < RL |
| Conclusion | | | | | | Comply |

Abbreviation: < = less than
 RL = reporting limit
 µg/L = microgram per liter

32.Dyes - Carcinogenic or Equivalent Concern

| Parameter | Parameter Code | Test Method | Unit | RL | Sample No. | R001 |
|---|----------------|-------------|------|-----|------------|--------|
| | | | | | ZDHC Limit | Result |
| C.I. Direct Black 38 | 1937-37-7 | ISO 16373 | µg/L | 500 | 500 | < RL |
| C.I. Direct Blue 6 | 2602-46-2 | ISO 16373 | µg/L | 500 | 500 | < RL |
| C.I. Acid Red 26 | 3761-53-3 | ISO 16373 | µg/L | 500 | 500 | < RL |
| C.I. Basic Red 9 | 569-61-9 | ISO 16373 | µg/L | 500 | 500 | < RL |
| C.I. Direct Red 28 | 573-58-0 | ISO 16373 | µg/L | 500 | 500 | < RL |
| C.I. Basic Violet 14 | 632-99-5 | ISO 16373 | µg/L | 500 | 500 | < RL |
| C.I. Disperse Blue 1 | 2475-45-8 | ISO 16373 | µg/L | 500 | 500 | < RL |
| C.I. Disperse Blue 3 | 2475-46-9 | ISO 16373 | µg/L | 500 | 500 | < RL |
| C.I. Basic Blue 26 (with Michler's Ketone > 0.1%) | 2580-56-5 | ISO 16373 | µg/L | 500 | 500 | < RL |
| C.I Basic Green 4 (malachite green chloride) | 569-64-2 | ISO 16373 | µg/L | 500 | 500 | < RL |
| C.I Basic Green 4 (malachite green oxalate) | 2437-29-8 | ISO 16373 | µg/L | 500 | 500 | < RL |
| C.I Basic Green 4 (malachite green) | 10309-95-2 | ISO 16373 | µg/L | 500 | 500 | < RL |
| Disperse Orange 11 | 82-28-0 | ISO 16373 | µg/L | 500 | 500 | < RL |
| Basic violet 3 with >0.1% of Michler's Ketone | 548-62-9 | ISO 16373 | µg/L | 500 | 500 | < RL |
| C.I. Acid Violet 49 | 1694-09-3 | ISO 16373 | µg/L | 500 | 500 | < RL |
| Conclusion | | | | | | Comply |

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

33.Dyes - Disperse (Sensitizing)

| Parameter | Parameter Code | Test Method | Unit | RL | Sample No. | R001 |
|-----------------------------|----------------|-------------|------|----|------------|--------|
| | | | | | ZDHC Limit | Result |
| Disperse Yellow 1 | 119-15-3 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Blue 102 | 12222-97-8 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Blue 106 | 12223-01-7 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Yellow 39 | 12236-29-2 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Orange 37/59/76 | 13301-61-6 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Brown 1 | 23355-64-8 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Orange 1 | 2581-69-3 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Yellow 3 | 2832-40-8 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Red 11 | 2872-48-2 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Red 1 | 2872-52-8 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Red 17 | 3179-89-3 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Blue 7 | 3179-90-6 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Blue 26 | 3860-63-7 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Yellow 49 | 54824-37-2 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Blue 35 | 12222-75-2 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Blue 124 | 61951-51-7 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Yellow 9 | 6373-73-5 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Orange 3 | 730-40-5 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Disperse Blue 35 | 56524-77-7 | ISO 16373 | µg/L | 50 | 50 | < RL |
| Conclusion | | | | | | Comply |

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

34.Flame Retardants

| Parameter | Parameter Code | Test Method | Unit | Sample No. | | R001 Result |
|---|----------------|---|------|------------|------------|-------------|
| | | | | RL | ZDHC Limit | |
| Tris-(2-chloro-ethyl)-phosphate (TCEP) | 115-96-8 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Decabromodiphenyl ether (DecaBDE) | 1163-19-5 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Tri-(2,3-di-bromo-propyl)-phosphate (TRIS) | 126-72-7 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Pentabromodiphenyl ether (PentaBDE) | 32534-81-9 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Octabromodiphenyl ether (OctaBDE) | 32536-52-0 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Bis-(2,3-di-bromo-propyl)-phosphate (BDBPP) | 5412-25-9 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Tris(1-aziridinyl)phosphine oxide (TEPA) | 545-55-1 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Polybromobiphenyls (PBB) | 59536-65-1 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Tetra-bromo-bisphenol-A (TBBPA) | 79-94-7 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Hexabromocyclododecane(HBCDD) | 3194-55-6 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| 2,2-bis(bromomethyl)-1,3-propanediol (BBMP) | 3296-90-0 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Tris-(1,3-di-chloro-isopropyl)-phosphate (TDCP) | 13674-87-8 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Tris-(2-chloro-1-methylethyl) phosphate (TCPP) | 13674-84-5 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Decabromobiphenyl (DecaBB) | 13654-09-6 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Dibromobiphenyls (DiBB) | Multiple | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Octabromobiphenyls (OctaBB) | Multiple | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Tetrabromobisphenol A bis(dibromopropyl ether) | 21850-44-2 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Heptabromodiphenyl ether (HeptaBDE) | 68928-80-3 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Hexabromodiphenyl ether (hexaBDE) | 36483-60-0 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Monobromobiphenyls (MonoBB) | Multiple | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Monobromodiphenylethers Multiple (MonoBDEs) | Multiple | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Nonabromobiphenyls (NonaBB) | Multiple | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Nonabromodiphenyl ether (NonaBDE) | 63936-56-1 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |
| Tetrabromodiphenyl ether (TetraBDE) | 40088-47-9 | US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B | µg/L | 5 | 25 | < RL |

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| | | | | | | |
|---|---------------------------|--|------|----|-----|--------|
| Tribromodiphenylethers (TriBDEs) | Multiple | US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B | µg/L | 5 | 25 | < RL |
| Boric acid * | 10043-35-3; 11113-50-1 | EPA 6020a | µg/L | 20 | 500 | 49 |
| Diboron trioxide * | 1303-86-2 | EPA 6020a | µg/L | 20 | 500 | 49 |
| Disodium octaborate * | 12008-41-2 | EPA 6020a | µg/L | 20 | 500 | 49 |
| Disodium tetraborate anhydrous * | 1303-96-4; 1330-43-4 | EPA 6020a | µg/L | 20 | 500 | 49 |
| Tetraboron disodium heptaoxide, hydrate * | 12267-73-1 | EPA 6020a | µg/L | 20 | 500 | 49 |
| Conclusion | | | | | | Comply |

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

Remark:

- * Borate salts are determined as total boron via ICP. Limit refers to boron, not the salt.

35.Glycols / Glycol Ethers

| Parameter | Parameter Code | Test Method | Unit | Sample No. | | R001 |
|-----------------------------------|----------------|--|------|------------|------------|--------|
| | | | | RL | ZDHC Limit | Result |
| Bis(2-methylethyl)ether | 111-96-6 | EN 71-9:2005+A1:2007; EN 71-10 and -11:2005 modified | µg/L | 50 | 50 | < RL |
| 2-Ethoxyethanol | 110-80-5 | EN 71-9:2005+A1:2007; EN 71-10 and -11:2005 modified | µg/L | 50 | 50 | < RL |
| 2-Ethoxyethyl acetate | 111-15-9 | EN 71-9:2005+A1:2007; EN 71-10 and -11:2005 modified | µg/L | 50 | 50 | < RL |
| Ethylene glycol dimethyl ether | 110-71-4 | EN 71-9:2005+A1:2007; EN 71-10 and -11:2005 modified | µg/L | 50 | 50 | < RL |
| 2-Methoxyethanol | 109-86-4 | EN 71-9:2005+A1:2007; EN 71-10 and -11:2005 modified | µg/L | 50 | 50 | < RL |
| 2-Methoxyethyl acetate | 110-49-6 | EN 71-9:2005+A1:2007; EN 71-10 and -11:2005 modified | µg/L | 50 | 50 | < RL |
| 2-Methoxypropyl acetate | 70657-70-4 | EN 71-9:2005+A1:2007; EN 71-10 and -11:2005 modified | µg/L | 50 | 50 | < RL |
| Triethylene glycol dimethyl ether | 112-49-2 | EN 71-9:2005+A1:2007; EN 71-10 and -11:2005 modified | µg/L | 50 | 50 | < RL |
| Conclusion | | | | | | Comply |

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

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36.Halogenated Solvents

| Parameter | Parameter Code | Test Method | Unit | RL | Sample No. | R001 |
|---------------------|----------------|--------------|------|----|------------|--------|
| | | | | | ZDHC Limit | Result |
| 1,2-dichloroethane | 107-06-2 | US EPA 8260D | µg/L | 1 | 1 | < RL |
| Methylene chloride | 75-09-2 | US EPA 8260D | µg/L | 1 | 1 | < RL |
| Trichloroethylene | 79-01-6 | US EPA 8260D | µg/L | 1 | 1 | < RL |
| Tetrachloroethylene | 127-18-4 | US EPA 8260D | µg/L | 1 | 1 | < RL |
| Conclusion | | | | | | Comply |

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

37.Organotin Compounds

| Parameter | Parameter Code | Test Method | Unit | RL | Sample No. | R001 |
|--|--|-------------|------|------|------------|--------|
| | | | | | ZDHC Limit | Result |
| Mono-,di-and tri-methyltin derivatives | Multiple including 993-16-8 753-73-1 1066-45-1 | ISO 17353 | µg/L | 0.01 | 0.01 | < RL |
| Mono-,di-and tri-butyltin derivatives | Multiple including 1118-46-3 1461-22-9 | ISO 17353 | µg/L | 0.01 | 0.01 | < RL |
| Mono-,di-and tri-phenyltin derivatives | Multiple including 1124-19-2 1135-99-5 639-58-7 | ISO 17353 | µg/L | 0.01 | 0.01 | < RL |
| Mono-,di-and tri-octyltin derivatives | Multiple including 3091-25-6 3542-36-7 2587-76-0 | ISO 17353 | µg/L | 0.01 | 0.01 | < RL |
| Dipropyltin compounds (DPT) | Multiple including 867-36-7 | ISO 17353 | µg/L | 0.01 | 0.01 | < RL |
| Tetrabutyltin compounds (TeBT) | Multiple including 1461-25-2 | ISO 17353 | µg/L | 0.01 | 0.01 | < RL |
| Tripropyltin Compounds (TPT) | Multiple including 2279-76-7 | ISO 17353 | µg/L | 0.01 | 0.01 | < RL |
| Tetraoctyltin compounds (TeOT) | Multiple including 3590-84-9 | ISO 17353 | µg/L | 0.01 | 0.01 | < RL |
| Tricyclohexyltin (TCyHT) | Multiple including 3091-32-5 | ISO 17353 | µg/L | 0.01 | 0.01 | < RL |
| Tetraethyltin Compounds (TeET) | Multiple including 597-64-8 | ISO 17353 | µg/L | 0.01 | 0.01 | < RL |
| Conclusion | | | | | | Comply |

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

38.Other / Miscellaneous Chemicals

| Parameter | Parameter Code | Test Method | Unit | RL | Sample No. | R001 |
|--------------------------------------|----------------|---------------------------|------|-----|------------|--------------|
| | | | | | ZDHC Limit | Result |
| AEEA [2-(2-aminoethylamino) ethanol] | 111-41-1 | GB 31604.10-2016 modified | µg/L | 500 | 500 | < RL |
| Bisphenol A | 80-05-7 | GB 31604.10-2016 modified | µg/L | 10 | 10 | < RL |
| Thiourea | 62-56-6 | GB 31604.10-2016 modified | µg/L | 50 | 50 | < RL |
| Quinoline | 91-22-5 | GB 31604.10-2016 modified | µg/L | 50 | 50 | < RL |
| Borate, zinc salt * | 12767-90-7 | EPA 6020a | µg/L | 50 | 100 | B< RL;Zn< RL |
| Conclusion | | | | | | Comply |

Abbreviation: < = less than
 RL = reporting limit
 µg/L = microgram per liter

Remark:

- * Borate, zinc salt is determined as total boron and total zinc via ICP. Limit refers to boron and zinc individually, not the salt.

39.Perfluorinated and Polyfluorinated Chemicals (PFCs)

| Parameter | Parameter Code | Test Method | Unit | RL | Sample No. | R001 |
|---|------------------------------|--------------------------------------|------|------|------------|--------|
| | | | | | ZDHC Limit | Result |
| Perfluorooctane sulfonate (PFOS) and related substances | Multiple including 1763-23-1 | EPA 8270, PFCs: LC-MS-MS FTOH: GC-MS | µg/L | 0.01 | 0.01 | < RL |
| Perfluorooctanoic acid (PFOA) and related substances | Multiple including 335-67-1 | EPA 8270, PFCs: LC-MS-MS FTOH: GC-MS | µg/L | 1 | 1 | < RL |
| Conclusion | | | | | | Comply |

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

40. Phthalates - Including all other esters of phthalic acid

| Parameter | Parameter Code | Test Method | Unit | RL | Sample No. | R001 |
|--|------------------------|-------------------------|------|----|------------|--------|
| | | | | | ZDHC Limit | Result |
| Di(ethylhexyl) phthalate (DEHP) | 117-81-7 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| Bis(2-methoxyethyl) phthalate(DMEP) | 117-82-8 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| Di-n-octyl phthalate (DNOP) | 117-84-0 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| Di-iso-decyl phthalate (DIDP) | 26761-40-0 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| Di-Isononyl Phthalate (DINP) | 28553-12-0 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| Di-n-hexyl phthalate (DnHP) | 84-75-3 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| Di-n-butyl phthalate (DBP) | 84-74-2 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| Butyl benzyl phthalate (BBP) | 85-68-7 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| Dinonyl phthalate (DNP) | 84-76-4 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| Diethyl phthalate (DEP) | 84-66-2 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| Di-n-propyl phthalate (DPRP) | 131-16-8 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| Di-isobutyl phthalate (DIBP) | 84-69-5 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| Di-cyclohexyl phthalate (DCHP) | 84-61-7 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| Di-iso-octyl phthalate (DIOP) | 27554-26-3 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| 1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP) | 68515-42-4; 68515-50-4 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) | 71888-89-6; 84777-06-0 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| Di-n-pentylphthalates | 131-18-0 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| Diisopentylphthalates | 605-50-5 | US EPA 8270E, ISO 18856 | µg/L | 10 | 10 | < RL |
| Conclusion | | | | | | Comply |

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

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41.Polycyclic Aromatic Hydrocarbons (PAHs)

| Parameter | Parameter Code | Test Method | Unit | RL | Sample No. | R001 |
|------------------------|----------------|--------------|------|----|------------|--------|
| | | | | | ZDHC Limit | Result |
| Benzo(a)pyrene | 50-32-8 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Anthracene | 120-12-7 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Pyrene | 129-00-0 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Benzo[ghi]perylene | 191-24-2 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Benzo(e)pyrene | 192-97-2 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Indeno[1,2,3-cd]pyrene | 193-39-5 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Benzo(j)fluoranthene | 205-82-3 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Benzo[b]fluoranthene | 205-99-2 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Fluoranthene | 206-44-0 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Benzo[k]fluoranthene | 207-08-9 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Acenaphthylene | 208-96-8 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Chrysene | 218-01-9 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Dibenz(a,h)anthracene | 53-70-3 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Benzo[a]anthracene | 56-55-3 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Acenaphthene | 83-32-9 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Phenanthrene | 85-01-8 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Fluorene | 86-73-7 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Naphthalene | 91-20-3 | US EPA 8270E | µg/L | 1 | 1 | < RL |
| Conclusion | | | | | | Comply |

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| Parameter | Parameter Code | Test Method | Sample No. | | S001 |
|------------------------|----------------|-------------|------------|-----|-------------|
| | | | Unit | RL | Result |
| Benzo(a)pyrene | 50-32-8 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Anthracene | 120-12-7 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Pyrene | 129-00-0 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Benzo[ghi]perylene | 191-24-2 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Benzo(e)pyrene | 192-97-2 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Indeno[1,2,3-cd]pyrene | 193-39-5 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Benzo(j)fluoranthene | 205-82-3 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Benzo[b]fluoranthene | 205-99-2 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Fluoranthene | 206-44-0 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Benzo[k]fluoranthene | 207-08-9 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Acenaphthylene | 208-96-8 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Chrysene | 218-01-9 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Dibenz(a,h)anthracene | 53-70-3 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Benzo[a]anthracene | 56-55-3 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Acenaphthene | 83-32-9 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Phenanthrene | 85-01-8 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Fluorene | 86-73-7 | HJ 805-2016 | mg/kg | 0.2 | < RL |
| Naphthalene | 91-20-3 | HJ 805-2016 | mg/kg | 0.2 | 18.5 |
| Conclusion | | | | | Report Only |

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter
 mg/kg = milligram per kilogram

Remark:

The limits according to ZDHC limit (Table 4C of ZDHC Wastewater Guidelines Version 2.2 issued in September 2024):

| Parameter | ZDHC Sludge Limit (mg/kg) | | | | | | |
|-------------|---------------------------|---|---|-----|-----|-----|-----|
| | A | B | C | D | E | F | G |
| Sludge Type | | | | | | | |
| PAHs | Sample and Report only | | | 0.2 | 0.2 | 0.2 | 0.2 |

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42.Restricted Aromatic Amines(Cleavable from Azo)

| Parameter | Parameter Code | Test Method | Unit | Sample No. | | R001 |
|--------------------------------------|----------------|---|------|------------|------------|--------|
| | | | | RL | ZDHC Limit | Result |
| 4,4'-methylene-bis-(2-chloroaniline) | 101-14-4 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 4,4'-diaminodiphenylmethane | 101-77-9 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 4,4'-oxydianiline | 101-80-4 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 4-chloroaniline | 106-47-8 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 3,3'-Dimethoxybenzidine | 119-90-4 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 3,3'-Dimethylbenzidine | 119-93-7 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 6-Methoxy-m-toluidine | 120-71-8 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 2,4,5-trimethylaniline | 137-17-7 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 4,4'-Thiodianiline | 139-65-1 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 4-aminoazobenzene | 60-09-03 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |

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| | | | | | | |
|------------------------------|----------|---|------|-----|-----|------|
| 4-methoxy-m-phenylenediamine | 615-05-4 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 4,4'-Methylenedi-o-toluidine | 838-88-0 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 2,6-xylydine | 87-62-7 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| o-anisidine | 90-04-0 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 2-naphthylamine | 91-59-8 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 3,3'-Dichlorobenzidine | 91-94-1 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 4-Aminobiphenyl | 92-67-1 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| benzidine | 92-87-5 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| o-toluidine | 95-53-4 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 2,4-xylydine | 95-68-1 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 4-chloro-o-toluidine | 95-69-2 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |

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| | | | | | | |
|---|------------|---|------|-----|-----|---------------|
| 4-methyl-m-phenylenediamine | 95-80-7 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| o-Aminoazotoluene | 97-56-3 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 5-nitro-o-toluidine | 99-55-8 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 4-chloro-o-toluidinium chloride | 3165-93-3 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 2-Naphthylammonium acetate | 553-00-4 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 4-methoxy-m-phenylene diammonium sulphate | 39156-41-7 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| 2,4,5-trimethylaniline hydrochloride | 21436-97-5 | Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS | µg/L | 0.1 | 0.1 | < RL |
| Conclusion | | | | | | Comply |

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

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43.UV Absorbers

| Parameter | Parameter Code | Test Method | Unit | RL | Sample No. | R001 |
|---|----------------|--|------|-----|------------|--------|
| | | | | | ZDHC Limit | Result |
| 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350) | 36437-37-3 | US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B | µg/L | 100 | 100 | < RL |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 25973-55-1 | US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B | µg/L | 100 | 100 | < RL |
| 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) | 3846-71-7 | US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B | µg/L | 100 | 100 | < RL |
| 2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327) | 3864-99-1 | US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B | µg/L | 100 | 100 | < RL |
| Conclusion | | | | | | Comply |

Abbreviation: < = less than
 RL = reporting limit
 µg/L = microgram per liter

44.Volatile Organic Compounds (VOC)

| Parameter | Parameter Code | Test Method | Unit | RL | Sample No. | R001 |
|------------|----------------|-------------|------|----|------------|--------|
| | | | | | ZDHC Limit | Result |
| Benzene | 71-43-2 | ISO 11423-1 | µg/L | 1 | 1 | < RL |
| Xylene | 1330-20-7 | ISO 11423-1 | µg/L | 1 | 1 | < RL |
| o-cresol | 95-48-7 | ISO 11423-1 | µg/L | 1 | 1 | < RL |
| p-cresol | 106-44-5 | ISO 11423-1 | µg/L | 1 | 1 | < RL |
| m-cresol | 108-39-4 | ISO 11423-1 | µg/L | 1 | 1 | < RL |
| Toluene* | 108-88-3 | ISO 11423-1 | µg/L | 1 | 1 | < RL |
| Conclusion | | | | | | Comply |

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

Order No. 项目编号: 326094305(Sampling Report)

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Wastewater Sampling Report for ZDHC WWG

ZDHC WWG 废水采样报告

ZDHC Wastewater Guidelines Version 2.2 (Sep. 2024)

ZDHC Wastewater and Sludge SAP Version 2.1 (Nov. 2022)

Client 客户: _____

Buyer's Name 买家名称: _____

Test item(s) 测试项目: ZDHC Wastewater

Factory Name 工厂名称: 吴江市新达印染厂

Factory Address 工厂地址: 江苏省苏州市吴江区平望镇梅堰社区龙南村太浦河边

Discharge Type of Wastewater: Direct discharge 直接排放
废水排放类型

On-site ETP Yes 是
在线废水处理装置

Sampling Date 采样日期: 2025年02月11日

Sampling Location 采样点: Incoming water (进水)
Discharged Wastewater (排放废水)
Raw Wastewater (原废水)
Sludge (污泥)
(Ref to the location map attached
参考采样点地图)

Sampling Person 采样人员: Tingo Fu
ZDHC Sampler Accreditation

Certification Number 采样员证书编号: C74D106819894

TUV Sales 莱茵销售支持: Kiven Han 159 5836 6198

Sampling Field Contact: Name (联系人): Jeff Ji
采样现场联系方式 Phone (电话): 13862508828

Sampling Preparation Checklist 采样准备检查表

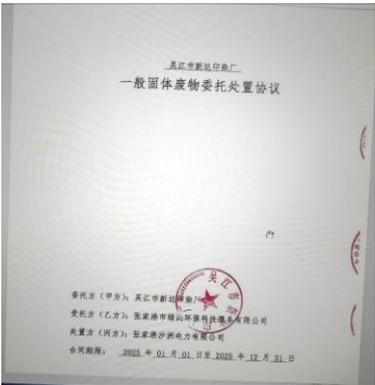
Checked By 审核人: Tingo Fu Date 日期: 2024-02-11

| Equipment list 设备列表 | Check 核查 | Equipment list 设备列表 | Check 核查 |
|---|----------|---|----------|
| Sampling equipment 采样设备 | | Buffer 缓冲液 | |
| Sampling rod 采样杆 | | pH meter pH 计 | Y |
| Depth sampler with temperature meter 带温度计取样器 | Y | Temperature meter 温度计 | Y |
| Disposable gloves 一次性手套 | Y | DO meter 溶氧仪 | Y |
| 2L amber glass bottle 2L 棕色玻璃瓶 | | Total Chloride meter 总氯测试仪 | Y |
| 1L amber glass bottle 1L 棕色玻璃瓶 | Y | Quality control samples 质控样 | |
| 100mL amber glass bottle 100mL 棕色玻璃瓶 | | Field blanks 现场空白 | |
| 500mL amber glass bottle 500mL 棕色玻璃瓶 | Y | Transport/equipment blanks 运输/设备空白 | |
| 250mL amber glass bottle 250mL 棕色玻璃瓶 | Y | Sample storage and transport 样品储存和运输 | |
| 100ml PE bottle 100mL 聚乙烯瓶 | Y | Blue Ice 蓝冰 | Y |
| 500mL PE bottle 500mL 聚乙烯瓶 | Y | Packing material 包装材料 | Y |
| 40mL amber VOA vial 40mL 棕色 VOA 小瓶 | | Container 样品存放容器 | Y |
| Aseptic bag 无菌袋 | Y | Safety equipment 安全装备 | |
| PE bag 聚乙烯袋 | Y | First-aid kit 急救箱 | |
| Labels for samples 样品标签 | | Drinking water 饮用水 | Y |
| Chemical and measurement equipment 化学试剂及测量设备 | | Mobile phone/communication equipment 手机/通信设备 | Y |
| Nitric acid 硝酸 | | PPE-wide brimmed has wet weather gear waders/rubber boots disposable overalls 个人防护设备-高筒防水胶靴/一 次性工装连体橡胶靴 | |
| Sulfuric acid 硫酸 | | Antiseptic hand wash 杀菌洗手液 | |
| HCl 盐酸 | | Lifejackets/EPIRB 救生衣/应急无线电示位标 | |
| Na ₂ S ₂ O ₃ 硫代硫酸钠 | | Others 其他 | |
| 2M zinc acetate 2M 乙酸锌 | | Tools-spanner/shifter.etc 工具-扳手/移动装置等 | |
| 1M NaOH 1M 氢氧化钠溶液 | | Digital camera and batteries/charger 数码相机和电池/充电器 | Y |

Basic Information in Sampling Fields 采样基本信息

| Production lines 生产线 (编号) | Operation state 运行状态 | Note 说明 |
|------------------------------|-------------------------|------------|
| 1 | 正常 | 无 |

| Wastewater treatment plant 污水处理设施 (编号) | Operation state 运行状态 | Quantity of wastewater effluent 污水排放量 (m ³) | Note 说明 |
|---|-------------------------|--|------------|
| 1 | 正常 | 4500 | 无 |

| | | |
|---|---|--|
| Flowrate and Type of Discharge 排放量及排放类型 | Flowrate 排放量: <input checked="" type="checkbox"/> Direct Discharge 直接排放 <input type="checkbox"/> Indirect discharge with pretreatment (with sludge) 有预处理间接排放 (有污泥) <input type="checkbox"/> Indirect discharge with pretreatment (without sludge) 有预处理间接排放 (无污泥) <input type="checkbox"/> Indirect discharge without pretreatment 无预处理间接排放 | Confirmed by Sampling team <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Discharge standard of the factory 企业排放标准 | GB4287-2012 | 现场陪同人员未提供 |
| Facility Type 工厂类型 | <input checked="" type="checkbox"/> Is the polyester wet processing facilities? 是涤纶湿法加工厂吗? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| | <input type="checkbox"/> Is the PU processing facilities? 是PU加工厂吗? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Suldge disposal pathway 污泥处理方式 | <input checked="" type="checkbox"/> A - On-site or off-site Incineration at >1000°C 大于 1000°C 场内或场外焚烧 <input type="checkbox"/> B - Landfill with Significant Control Measures 重大控制措施的垃圾填埋场 <input type="checkbox"/> C - Building Products Processed at >1000 °C 大于 1000°C下加工的建筑产品 <input type="checkbox"/> D - Landfill with Limited Control Measures 采取有限控制措施的垃圾填埋场 <input type="checkbox"/> E - Offsite Incineration and Building Products Processed at <1000°C 小于 1000°C 场外焚烧和加工的建筑产品 <input type="checkbox"/> F - Landfills with No Control Measures 没有控制措施的垃圾填埋场 <input type="checkbox"/> G - Land application for a specific purpose in approved areas. 在经批准的地区为特定目的进行土地应用 |  |

| | |
|---|--|
| Sampling day weather 采样天气状况: | <input type="checkbox"/> sunny 晴 <input type="checkbox"/> rainy 雨 <input checked="" type="checkbox"/> cloudy 多云 <input type="checkbox"/> others 其他 |
| Sampling mode 采样方式: | <input type="checkbox"/> discrete 瞬时 <input checked="" type="checkbox"/> composite 混合 <input type="checkbox"/> others 其他 |
| Sampling day temperature 采样气温: | 5°C |
| Distance from TUV to sampling place 采样点距离莱茵距离: | 110 KM |

Sampling Location (采样点): Incoming water (进水)

| | | |
|------------------------------------|----------------|---|
| Sampling Team (采样组) | Tingo Fu | |
| Sampling time (采样时间) | 12:10 | |
| Sample description in field (样品描述) | Colour (颜色) | 无 |
| | Odor (气味) | 无 |
| | Turbidity (浑浊) | 无 |
| | Oil slick (浮油) | 无 |

Test Item In Lab (实验室测试项目):

| Test item 采样项目 | Lab No. 标签号 | Bottle type and size 样品瓶规格 | Treatment 现场处理情况 | Multiple sampling (Y/N) | Note 备注 |
|--|----------------|--|--|----------------------------|---|
| AP/APEO, Anti- Microbials & Biocides, Chlorinated Parafins, Chlorophenols, COC, DMFa, Dyes, Flame retardant, Glycols, Organotin, Phthalates, PAHs, AZO, UV Absorbers, Other chemicals 烷基酚/烷基酚聚氧乙烯醚, 抗菌剂, 氯化石蜡, 氯化苯酚, 氯苯和氯甲苯, N,N-二甲酰胺, 染料, 阻燃剂, 乙二醇, 有机锡, 邻苯, 多环芳烃, 偶氮染料, 紫外吸收剂, 其他化学物质 | I001 | 2L amber glass bottle 2L 棕色玻璃瓶 | - | N | |
| PFCs 全氟化物 | I002 | 1L PE bottle 1L 聚乙烯瓶 | Filling without air in bottle 满瓶不留空气 | N | |
| Halogenated Solvent/ VOCs 卤化溶剂、挥发性有机物 | I003 | 3*40mL amber VOA vial no head-space 3个40mL棕色VOA小瓶 | Acidify to pH < 2 with hydrochloric acid, filling without air in bottle. 加盐酸调节水样pH小于2, 满瓶不留空气 | N | |
| Field blank of Halogenated Solvent/ VOCs 卤化溶剂、挥发性有机物现场空白 | I103B | 3*40mL amber VOA vial no head-space 40mL棕色VOA小瓶 | Filling with Grade 1 water, acidify to pH < 2 with hydrochloric acid, filling without air in bottle. 用一级水装满, 加盐酸调节水样pH小于2, 满瓶不留空气 | - | Only open the cap when sampling on site, no sampling required 现场采样时打开瓶盖即可, 不需要采样 |
| Heavy metals 重金属 | I004 | 1L PE bottle 1L 聚乙烯瓶 | Acidify to pH < 2 with nitric acid 加硝酸调节水样 pH 小于 2 | N | |

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| Test item 采样项目 | Lab No. 标签号 | Bottle type and size 样品瓶规格 | Treatment 现场处理情况 | Multiple sampling (Y/N) | Note 备注 |
|---------------------------------------|----------------|--|--|----------------------------|---|
| Field blank of Mercury 汞现场空白 | I104B | 100mL PE bottle 100mL 聚乙烯瓶 | Filling with Grade 1 water and Acidify to pH < 2 with nitric acid 装入一级水, 加硝酸调节水样pH小于2 | - | Only open the cap when sampling on site, no sampling required 现场采样时打开瓶盖即可, 不需要采样 |
| Cr VI 六价铬 | I005 | 3*40mL amber brown glass VOA vial 3个40mL棕色玻璃VOA小瓶 | 0.45 um filter in field, add buffer* to pH 9.0-9.5 现场过 0.45um 微膜, 加缓冲液调节水样 pH 至 9.0-9.5 | N | |
| Temperature indicator bottle 温度指示瓶 | - | 500mL amber glass bottle 500mL棕色玻璃瓶 | - | - | |

Remark: # Buffer = EPA Method 218.6. Dissolve 33 g of ammonium sulphate in 75 ml of ASTM D1103 Type 1 or ISO 3696 water, add 6.5 ml of ammonium hydroxide. Dilute to 100 ml with ASTM D1103 Type 1 or ISO 3696 water.

Sampling Location (采样点): Discharged Wastewater (排放废水)

| | | | | | | | | |
|---|--|-------|-------|-------|-------|-------|-------|--------|
| Sampling Team (采样组) | Tingo Fu | | | | | | | |
| Sampling time (采样时间) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Ave |
| | 09:50 | 10:50 | 11:50 | 12:50 | 13:50 | 14:50 | 15:50 | -- |
| Temperature of receiving water ^Δ (接收水体的温度) | 10°C | 12°C | 13°C | 12°C | 13°C | 12°C | 12°C | 12.0°C |
| Temperature of the water in discharge pipe Wastewater receiver body temperature (排放管中水体的温度) | 26°C | 26°C | 26°C | 26°C | 26°C | 26°C | 26°C | 26°C |
| pH value pH 值 | 6~7 | 6~7 | 6~7 | 6~7 | 6~7 | 6~7 | 6~7 | 6~7 |
| Dissolved Oxygen (溶氧) mg/L | 4.97 | 4.89 | 5.26 | 4.95 | 5.33 | 5.12 | 5.20 | 5.10 |
| Total Chloride (总氯) mg/L | 0.26 | 0.22 | 0.27 | 0.25 | 0.26 | 0.25 | 0.24 | 0.25 |
| Persistent Foam- Foam thicker than 45cm (Yes/No) 泡沫厚度大于 45 厘米(是/否) | 否 | 否 | 否 | 否 | 否 | 否 | 否 | - |
|  | | | | | | | | |
| Wastewater Flowrate meter 污水流速仪 (L/min) | - | - | - | - | - | - | - | - |
| Alternate measured Flow 替代测量流量 | Depth 深度 (cm) | - | - | - | - | - | - | - |
| | Velocity 流速(cm/sec) | - | - | - | - | - | - | - |
| COD online 化学需氧量在线监测 mg/L |  | | | | | | | |
| BOD ₅ online 五日生化需氧量在线监测 mg/L | (现场没有相关设备) | | | | | | | |
| Sample description in field (样品描述) | Colour (颜色) | 无 | | | | | | |
| | Odor (气味) | 无 | | | | | | |
| | Turbidity (浑浊) | 无 | | | | | | |
| | Oil slick (浮油) | 无 | | | | | | |

^Δ Use incoming water temperature as receiver body temperature if no receiver body can be found

Test Item In Lab (实验室测试项目):

| Test item 采样项目 | Lab No. 标签号 | Bottle type and size 样品瓶规格 | Treatment 现场处理情况 | Multiple sampling (Y/N) | Note 备注 |
|-------------------|----------------|-------------------------------|---------------------|----------------------------|------------|
|-------------------|----------------|-------------------------------|---------------------|----------------------------|------------|

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| Test item 采样项目 | Lab No. 标签号 | Bottle type and size 样品瓶规格 | Treatment 现场处理情况 | Multiple sampling (Y/N) | Note 备注 |
|--|----------------|--|---|----------------------------|---|
| AP/APEO, Anti-Microbials & Biocides, Chlorinated Parafins, Chlorophenols, COC, DMFa, Dyes, Flame retardant, Glycols, Organotin, Phthalates, PAHs, AZO, UV Absorbers, Other chemicals 烷基酚/烷基酚聚氧乙 烯醚, 抗菌剂, 氯化石蜡, 氯化苯酚, 氯苯和氯甲苯, N,N-二甲酰胺, 染料, 阻燃剂, 乙二醇, 有机锡, 邻苯, 多环芳烃, 偶氮染料, 紫外吸收剂, 其他化学物质 | D101 | 2L*7 amber glass bottle 2L*7 棕色玻璃瓶 | - | Y | |
| PFCs 全氟化物 | D102 | 1L PE bottle 1L 聚乙烯瓶 | Filling without air in bottle 满瓶不留空气 | Y | |
| Halogenated Solvent/ VOCs 卤化溶剂、挥发性有机物 | D103 | 3*40mL amber VOA vial no head-space 3个40mL棕色VOA小瓶 | Acidify to pH < 2 with hydrochloric acid, filling without air in bottle. 加盐酸调节水样pH小于2, 满瓶不留空气 | Y | |
| Field blank of Halogenated Solvent/ VOCs 卤化溶剂、挥发性有机物现场空白 | D103B | 3*40mL amber VOA vial no head-space 40mL棕色VOA小瓶 | Filling with Grade 1 water, Acidify to pH < 2 with hydrochloric acid, filling without air in bottle. 填入一级水, 加盐酸调节水样pH小于2, 满瓶不留空气 | - | Only open the cap when sampling on site, no sampling required 现场采样时打开瓶盖即可, 不需要采样 |
| Heavy metals 重金属 | D104 | 1L PE bottle 1L聚乙烯瓶 | Acidify to pH< 2 with nitric acid 加硝酸调节水样 pH 小于 2 | Y | |
| Field blank of Mercury 汞现场空白 | D104B | 100mL PE bottle 100mL 聚乙烯瓶 | Filling with Grade 1 Water, Acidify to pH < 2 with nitric acid 填入一级水, 加硝酸调节水样pH小于2 | - | Only open the cap when sampling on site, no sampling required 现场采样时打开瓶盖即可, 不需要采样 |
| Cr VI 六价铬 | D105 | 3*40mL amber brown glass VOA vial 3个40mL棕色玻璃VOA小瓶 | 0.45 um filter in field, add buffer* to pH 9.0-9.5 现场过 0.45um 微膜, 加缓冲液调节水样 pH 至 9.0-9.5 | Y | |
| Color, TSS, TDS, Chloride, Sulfate 色度, 总固体悬浮物, 总溶解固土, 氯离子, 硫酸盐 | D106 | 1L amber glass bottle or plastic bottle 1L棕色玻璃瓶/塑料瓶 | Filling without air in bottle 满瓶不留空气 | Y | |

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| Test item 采样项目 | Lab No. 标签号 | Bottle type and size 样品瓶规格 | Treatment 现场处理情况 | Multiple sampling (Y/N) | Note 备注 |
|---|----------------|--|---|----------------------------|---|
| AOX 可吸附有机卤素 | D107 | 500mL amber glass bottle 500mL棕色玻璃瓶 | Acidify to pH 1- 2 with nitric acid, filling without air in bottle. 加硝酸调节水样pH 1-2, 满瓶不留空气 | Y | |
| Cyanide 氰化物 | D108 | 1L PE bottle 1L 聚乙烯瓶 | Adding NaOH to pH >12, adding 0.1mL 10% Na ₂ S ₂ O ₃ solution 用氢氧化钠调节水样pH大于12, 再加0.1mL10%硫代硫酸钠溶液 | Y | |
| Sulfite 亚硫酸盐 | D109 | 500mL PE bottle 500mL 聚乙烯瓶 | 1mL 2.5%EDTA, filling without air in bottle 加入 1mL 2.5%EDTA, 满瓶不留空气 | Y | |
| Oil and Grease 油脂 | D110 | 1L amber glass bottle 1L 棕色玻璃瓶 | Acidify to pH< 2 with sulfuric acid or hydrochloric acid. 加硫酸/盐酸调节水样pH小于2 | Y | |
| COD, ammonia -N, Total N , Total P, Phenols 化学需氧量、氨氮、总氮、总磷, 苯酚 | D111 | 2L amber glass bottle 2L棕色玻璃瓶 | Acidify to pH< 2 with sulfuric acid, filling without air in bottle 加硫酸调节水样pH小于2, 满瓶不留空气 | Y | |
| Field blank of Total P 总磷现场空白 | D111B | 100mL amber glass bottle 100mL棕色玻璃瓶 | Filling with Grade 1 water, Acidify to pH< 2 with sulfuric acid, filling without air in bottle 填入一级水, 加硫酸调节水样pH小于2, 满瓶不留空气 | - | Only open the cap when sampling on site, no sampling required 现场采样时打开瓶盖即可, 不需要采样 |
| BOD ₅ 五日生化需氧量 | D112 | 1L amber glass bottle 1L棕色玻璃瓶 | Filling without air in bottle 满瓶不留空气 | Y | |
| Sulfide 硫化物 | D113 | 100mL PE bottle 100mL聚乙烯瓶 | Adding 4 drops 2mol/L zinc acetate, adding NaOH to pH >12, filling without air in bottle 先加入4滴2mol/L乙酸锌, 再用氢氧化钠调节水样pH大于12, 满瓶不留空气 | Y | |
| E. Coli 大肠杆菌 | D114 | Aseptic Bags 无菌袋 | Adding 0.1mL 10% Na ₂ S ₂ O ₃ solution, keep in the dark 加0.1mL 10%硫代硫酸钠溶液, 避光保存 | Y | |
| Field blank of E. Coli 大肠杆菌现场空白 | D114B | Aseptic Bags 无菌袋 | Filling with Grade 1 water, Adding 0.1mL 10% Na ₂ S ₂ O ₃ solution, keep in the dark 填入一级水, 加0.1mL 10%硫代硫酸钠溶液, 避光保存 | - | Only open the cap when sampling on site, no sampling required 现场采样时打开瓶盖即可, 不需要采样 |

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Sampling Location (采样点): Raw Wastewater (原废水)

| | | | | | | | | |
|------------------------------------|----------------|----------|-------|-------|-------|-------|-------|-------|
| Sampling Team (采样组) | | Tingo Fu | | | | | | |
| Sampling time (采样时间) | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | 09:00 | 10:00 | 11:00 | 12:00 | 13:00 | 14:00 | 15:00 |
| Sample description in field (样品描述) | Colour (颜色) | 暗红 | | | | | | |
| | Odor (气味) | 些许刺激性气味 | | | | | | |
| | Turbidity (浑浊) | 无 | | | | | | |
| | Oil slick (浮油) | 无 | | | | | | |

Test Item In Lab (实验室测试项目):

| Test item 采样项目 | Lab No. 标签号 | Bottle type and size 样品瓶规格 | Treatment 现场处理情况 | Multiple sampling g (Y/N) | Note 备注 |
|---|----------------|--|--|------------------------------|---|
| AP/APEO, Anti-Microbials & Biocides, Chlorinated Parafins, Chlorophenols, COC, DMFa, Dyes, Flame retardant, Glycols, Organotin, Phthalates, PAHs, AZO, UV Absorbers, Other chemicals 烷基酚/烷基酚聚氧乙烯醚, 抗菌剂, 氯化石蜡, 氯化苯酚, 氯苯和氯甲苯, N,N-二甲酰胺, 染料, 阻燃剂, 乙二醇, 有机锡, 邻苯, 多环芳烃, 偶氮染料, 紫外吸收剂, 其他化学物质 | R201 | 2L*7 amber glass bottle 2L*7 棕色玻璃瓶 | - | Y | |
| PFCs 全氟化物 | R202 | 1L PE bottle 1L 聚乙烯瓶 | Filling without air in bottle 满瓶不留空气 | Y | |
| Halogenated Solvent/ VOCs 卤化溶剂、挥发性有机物 | R203 | 3*40mL amber VOA vial no head-space 3个40mL棕色VOA小瓶 | Acidify to pH < 2 with hydrochloric acid, filling without air in bottle. 加盐酸调节水样pH小于2, 满瓶不留空气 | Y | |
| Field blank of Halogenated Solvent/ VOCs 卤化溶剂、挥发性有机物现场空白 | R203B | 3*40mL amber VOA vial no head-space 40mL棕色VOA小瓶 | Acidify to pH < 2 with hydrochloric acid, filling without air in bottle. 加盐酸调节水样pH小于2, 满瓶不留空气 | - | Only open the cap when sampling on site, no sampling required 现场采样时打开瓶盖即可, 不需要采样 |

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Sampling Location (采样点): Sludge (污泥)

| | | |
|---------------------------------------|---|---|
| Sampling Team (采样组) | Tingo Fu | |
| Sampling time (采样时间) | 10:20 | |
| Sample description in field (样品描述) | Surroundings (周边环境) | 正常 |
| | Sludge colour (土壤颜色) | 黄褐色 |
| | Sludge type (土壤性状) | X solid (固体状) <input type="checkbox"/> liquid (液体状) |
| | Sludge odor (土壤气味) | 无明显气味 |
| | Apparent source of pollution (明显污染源) | 无 |

Test Item In Lab (实验室测试项目):

| Test item 采样项目 | Lab No. 标签号 | Bottle type and size 样品瓶规格 | Treatment 现场处理情况 | Multiple sampling (Y/N) | Note 备注 |
|---|----------------|-------------------------------|--|----------------------------|------------|
| %Solid, Paint Filter Test 固含量, 油漆过滤测试 | S301 | 500ml PE bottle 500ml 聚乙烯瓶 | - | N | |
| Cyanide 氰化物 | S302 | 1L PE bottle 1L 聚乙烯瓶 | Adding NaOH to pH >12, adding 0.1mL 10% Na ₂ S ₂ O ₃ solution 用氢氧化钠调节水样 pH 大于 12, 再加 0.1mL 10% 硫代硫酸 酸钠溶液 | N | |
| Feacal Coliform 粪大肠菌群 | S303 | Aseptic Bags 无菌袋 | Adding 0.1mL 10% Na ₂ S ₂ O ₃ solution, keep in the dark 加0.1mL 10% 硫代硫酸钠溶 液, 避光保存 | N | |
| Heavy metals 重金属 | S304 | 1L PE bag 1L PE袋 | Acidify to pH < 2 with nitric acid 加硝酸调节水样 pH 小于 2 | N | |
| AP/APEO, COC, PAHs 烷基酚/烷基酚聚氧乙烯 醚、氯甲苯、多环芳烃 | S305 | 1L* 3 PE bag 1L* 3 PE 袋 | 0.008% Na ₂ S ₂ O ₃ V/W 加 0.008% (体积重量比) 硫 代硫酸钠溶液袋子 | N | |

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Sampling Point Indication (Map)

采样点信息

GPS Data: Discharged Wastewater: 30.997859, 120.602891
Raw Wastewater: 30.997579, 120.602557
Incoming water: 30.998706, 120.601176
Sludge: 30.998673, 120.601365



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Factory Gate
工厂大门



Factory Layout
工厂排污平面图



Other Factory Photo
其它工厂图片-内部环境



Other Factory Photo
其它工厂图片-内部环境



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Sampling Photo

采样点照片

Sampling Location (Incoming water)
采样点(进水)-采样环境



Sampling Location (Incoming water)
采样点(进水)-水样状态颜色



Sampling Location (Discharged Wastewater)
采样点(排放废水)-采样环境



Sampling Location (Discharged Wastewater)
采样点(排放废水)-水样状态颜色



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| | |
|--|---|
| <p>Sampling Location (Raw Wastewater) 采样点(原废水) - 采样环境</p>  <p>经纬度: 120.601365 纬度: 30.998673 名称: 中国江苏省苏州市吴江区平望镇平塘路 时间: 2025-02-11 11:54:42</p> | <p>Sampling Location (Raw Wastewater) 采样点(原废水) - 水样状态颜色</p>  <p>经纬度: 120.601365 纬度: 30.998673 名称: 中国江苏省苏州市吴江区平望镇平塘路 时间: 2025-02-11 11:56:26</p> |
| <p>Sampling Location (Sludge) 采样点(污泥) - 采样环境</p>  <p>经纬度: 120.601365 纬度: 30.998673 名称: 中国江苏省苏州市吴江区平望镇平塘路 时间: 2025-02-11 08:34:04</p> | <p>Sampling Location (Sludge) 采样点(污泥) - 污泥状态颜色</p>  <p>经纬度: 120.601365 纬度: 30.998673 名称: 中国江苏省苏州市吴江区平望镇平塘路 时间: 2025-02-11 08:56:13</p> |

封样-排放废水



封样-原废水



封样-污泥



封样-进水



封箱



封箱



IPMS Order No. 项目编号 : 326094305 (Sampling Report)

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| | | | |
|--|------------------------------|----------|------------|
| Sampler and ZDHC Accredited no. 采样员及 ZDHC 认证编号: | Tingo Fu C74D106819894 | Date 日期: | 2025-02-11 |
| Checked By 审核人: | Zhu Qifeng <i>Zhu Qifeng</i> | Date 日期: | 2025-02-12 |
| Signature and stamp by Factory 工厂人员签名及盖章: | <i>[Signature]</i> | Date 日期: | 2025-02-11 |

| | | | | | |
|---|---|--------------------|---------|------------|------------|
| Sample storage conditions 样品保存条件 | <input checked="" type="checkbox"/> Refrigeration(0-4°C) <input type="checkbox"/> Frozen 冷冻 <input type="checkbox"/> RT 常温 <input type="checkbox"/> Others 其他 | | | | |
| Sample send temperature/ status/ count 样品送出温度、状态、数量 | 常温 4°C, 1 箱 | Sent by 送样人 | 快递 | Date 日期 | 2025-02-11 |
| Sample delivery temperature/ status/ count 样品接收温度、状态、数量 | 4 度 良好 1 箱 | Received by 接收人 | Eric Hu | Date 日期 | 2025-02-12 |

Declaration for ZDHC Sludge Disposal Pathway A

(Sludge sent to onsite or offsite incineration operated at temperatures greater than or equal to 1000°C. The ash generated by the incineration process must be disposed of using one of the other ZDHC disposal pathways)

Reference: ZDHC Sludge Reference Document V1.0 and ZDHC Wastewater Guidelines V2.2

Facility name: 吴江市新达印染厂

ZDHC Gateway ID: A287XY31

Location: 江苏省苏州市吴江区平望镇梅堰社区龙南村

On-site or off-site incineration (please specify):

The undersigned entity declares the following:

- Our sludge is disposed of to your incineration (or thermal treatment or waste-to-energy) facility, and that the incineration facility receives our sludge and processes it through the incineration facility.
- That the incineration facility holds the required legal licence / authorisation to operate / permit / other similar documentation that allows the facility to legally-to-operate and accept the reference sludge and process it through the incineration facility. (Provide copies of the documentation.)

We also declare the following information based on the inputs received from the incineration facility where our sludge is disposed and that this information is true and accurate to the best of our knowledge:

1. Incineration temperature: (degrees) 1500°C
2. Dwell time of sludge in the combustion zone: 5分钟
3. Percentage of total incinerator throughput represented by the supplier's sludge: 5%
4. Flue gas treatment steps: 旋风除尘 → SCR脱硝 → 布袋除尘 → 电袋式除尘 → 静电除尘 → 石灰石、石膏湿法脱硫
5. Use of the heat generated by the incineration process: 发电
6. Disposal pathway (method) utilised for the ash from the incineration process: 粉煤灰、填埋

On behalf of the named entity below, the undersigned hereby declares that the information provided above is true and accurate.

(Signature)

Name and designation of authorised signatory from the entity:

Name and location of the incineration facility:

Date:

2025.2.13.

Note: In case of on-site incineration please get the required details from your incineration plant. In case of off-site incineration please get the required details from the external incineration unit.

- END -
结束

General Terms and Conditions of Business of TÜV Rheinland in Greater China

1. Scope

1.1 These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTBCB") is made between the client and the provider of TÜV Rheinland in Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China here refers to the regions within the territories of China. The client hereby indicates:

(i) a natural person capable to form legally binding contracts under the applicable laws who concludes the contract for the purpose of the use of TÜV Rheinland in Greater China, or

(ii) the incorporated or unincorporated entity duly organized, validly existing and capable to form legally binding contracts under the applicable law.

1.2 The following terms and conditions apply to agreed services including consultancy services, information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.

1.3 Any standard terms and conditions of the client if any nature shall not apply and shall hereby be expressly excluded. No standard contractual terms and conditions of the client shall form part of the contract even if TÜV Rheinland does not explicitly object to them.

1.4 In the context of an ongoing business relationship with the client, this GTBCB shall also apply to future contracts with the client without TÜV Rheinland having to refer to them separately in each individual case.

2. Quotations

Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

3. Coming into effect and duration of contracts

3.1 The contract shall come into effect for the agreed terms upon the quotation letter of TÜV Rheinland or a separate contractual document being signed by both contracting parties, or upon the receipt requested by the client being carried out by TÜV Rheinland. If the client instructs TÜV Rheinland without receiving a quotation from TÜV Rheinland (quotation), TÜV Rheinland is, in its sole discretion, entitled to accept the order by giving written notice of such acceptance (including notice sent via electronic means) or by performing the requested services.

3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.

3.3 If the contract provides for an extension of the contract term, the contract term will be extended by the term provided for the extension as stated in writing by either party with a three-month notice prior to the end of the contractual term.

4. Scope of services

4.1 The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be decisive for the services to be provided. Unless otherwise agreed, services beyond the scope of the service description (e.g. checking of certificates, parts, products, installations, organizations not listed in the service description, as well as the intended use and application of such) are not covered. In particular, no responsibility is assumed for the design, selection of materials, construction or intended use of an examined part, product, process or plant, unless this is expressly stated in the order.

4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.

4.3 TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.

4.4 On execution of the work there shall be no simultaneous assumption of any guarantee of the correctness (proper quality) and working order of either tested or examined parts nor of the installation as a whole or its upstream and/or downstream processes, organizations, use and application in accordance with regulations, nor of the systems on which the installation is based. In particular, TÜV Rheinland shall assume no responsibility for the construction, selection or design of the installations examined, nor for their use and application in accordance with regulations, unless these questions are expressly covered by the contract.

4.5 In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing.

4.6 If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract, with a written notice to the client, TÜV Rheinland shall be entitled to additional remuneration for resulting additional expenses.

4.7 The services to be provided by TÜV Rheinland under the contract are agreed exclusively with the client. A contract of third parties with the services of TÜV Rheinland, as well as making available of and justifying confidence in the work results (test reports and test results, expert reports, etc.) is not part of the agreed services. This also applies if the client passes on work results - in full or in part - to third parties in accordance with clause 11.4.

4.8 The client understands and agrees that in order to perform the contract with TÜV Rheinland, the client may need to sign one or more contracts/agreements with a/more third party(ies) and establish legal relationships with those third party(ies) according to such contracts/agreements. TÜV Rheinland is not responsible for the legal relationship between the client according to this contract and the direct services actually to be provided by our company in the service process. If the relevant services are not directly provided by TÜV Rheinland (including but not limited to any testing and certification services) to be provided by third parties, the client's responsibility and/or risk for any services to be provided by any third parties (including but not limited to the testing and/or certification services to be entrusted and/or applied for by our company on behalf of the client or testing and/or certification services to be provided by third parties) provided by any other third party(ies), etc.) Besides, the client shall be liable in accordance with the relevant laws and regulations and/or the terms under the contract. If the client is required to conduct any annual renewal/surveillance of the installations, TÜV Rheinland will provide the client with all relevant services and information required for the performance of the service as specified in the contract.

4.9 For the service contract agreed in the contract, if the client requires TÜV Rheinland to deliver relevant test samples, data, etc. to any overseas laboratory or other places or sites to be designated by the client, TÜV Rheinland shall not take any responsibility for any problems during such delivery and the transportation process (including but not limited to any loss or damages of the samples and/or the materials, etc.). Besides, the relevant freight fees shall be borne by the client.

5. Performance periods/dates

5.1 The contractually agreed periods/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if being confirmed as binding by TÜV Rheinland in writing.

5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TÜV Rheinland.

5.3 Articles 5.1 and 5.2 also apply, even without express agreement by the client, to all extensions of agreed periods/dates of performance not caused by TÜV Rheinland.

5.4 TÜV Rheinland is not responsible for a delay in performance, in particular if the client has not fulfilled his duties to cooperate with clause 6.1 or has not done so in time and, in particular, has not provided TÜV Rheinland with all documents and information required for the performance of the service as specified in the contract.

5.5 If the performance of TÜV Rheinland is delayed due to unforeseeable circumstances such as force majeure, strikes, business disruptions, governmental regulations, transport obstacles, etc., TÜV Rheinland is entitled to postpone performance for a reasonable period of time which corresponds at least to the duration of the hindrance plus any time period which may be required to resume performance.

5.6 If the client is obliged to comply with legal, officially prescribed and/or by the accreditor prescribed deadlines, in the form of a public notice or public announcement by a reputable commercial bank which enable the client to comply with the legal and/or officially prescribed deadlines, TÜV Rheinland assumes no responsibility in this respect unless TÜV Rheinland expressly agreed in writing specifically stating that ensuring the deadlines is the contractual obligation of TÜV Rheinland.

6. The client's obligation to cooperate

6.1 The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.

6.2 Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that:

a) it has required statutory qualifications;

b) the product, service or management system to be certified complies with applicable laws and regulations; and

c) it doesn't have any legal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts (People's Republic of China).

If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing reports/certificates if any.

6.3 The client shall bear any additional costs incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense.

7. Prices

7.1 If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be made in accordance with the price list of TÜV Rheinland valid at the time of performance.

7.2 Unless otherwise agreed, the price shall be payable in cash at the time of performance of the work.

7.3 If the execution of an order extends over more than one month and the value of the contract or the agreed fixed price exceeds €2,500.00 or equivalent value in local currency, TÜV Rheinland may demand payments on account or in instalments.

8. Payment terms

8.1 All invoice amounts shall be due for payment within 30 days of the invoice date without deduction on receipt of the invoice. No discounts and rebates shall be granted.

8.2 Payments shall be made to the bank account of TÜV Rheinland as indicated on the invoice, stating the invoice and client numbers.

8.3 In cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short term interest rate publicly announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.

8.4 Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the contract.

8.5 The provisions set forth in article 8.4 shall also apply in cases involving returned cheques, cessation of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets.

8.6 Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receipt of the invoice.

8.7 TÜV Rheinland shall be entitled to demand appropriate advance payments.

8.8 TÜV Rheinland shall be entitled to raise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TÜV Rheinland shall notify the client in writing of the rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the contract is terminated under 5% per contractual year, the client shall not have the right to terminate the contract. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contract by the end of the period of notice of changes in fees. If the contract is not terminated, the rise in fees shall be deemed to have been agreed upon by the time of the expiry of the notice period.

8.9 Only legally established and undisputed claims may be offset against payments by TÜV Rheinland.

8.10 TÜV Rheinland shall have the right at all times to set off any amount due or payable by the client, including but not limited to set-off against any past due by the client under any contracts, agreement and/or orders/quotations reached with TÜV Rheinland.

9. Acceptance of work

9.1 Any part of the work required or which is complete in itself may be presented by TÜV Rheinland for acceptance as an instalment. The client shall be obliged to accept it immediately.

9.2 If acceptance is required contractually agreed in an individual case, this shall be deemed to have taken place two (2) weeks after completion and handover of the work, unless the client refuses acceptance within this period stating at least one fundamental breach of contract by TÜV Rheinland.

9.3 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV Rheinland.

9.4 If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall take its place.

9.5 During the Follow-Up stage, the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditing/performance by TÜV Rheinland and the certificate is therefore to be withdrawn (e.g. performance of surveillance audits), or if the client cancels or postpones a confirmed audit by TÜV Rheinland, TÜV Rheinland is, in its sole discretion, entitled to immediately charge a lump-sum compensation of 10% of the order amount as compensation for expenses. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above lump sum.

9.6 Insofar as the client has undertaken in the contract to accept services, TÜV Rheinland shall also be entitled to claim the same damages in the event of damages in the form of a lump-sum compensation for expenses if the service is not called within one year after the order has been placed. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump sum.

10. Confidentiality

10.1 For the purpose of these terms and conditions, "confidential information" means all know-how, trade secrets, documents, images, drawings, expertise, information, data, test results, reports, samples, project documents, pricing and financial information, customer and supplier information, and marketing technology applied by the client or by TÜV Rheinland, or by the client or by the client or otherwise disclosed by one Party (the "disclosing party") to the other Party (the "receiving party"), in writing or orally, in printed or electronic form. Confidential information is expressly not the data and know-how or other technical information of the disclosing party which is not intended and not proprietary to the client) with the scope of the provision of services by TÜV Rheinland. TÜV Rheinland is entitled to store, use, further develop and pass on the data obtained in connection with the provision of services for the purposes of developing new services, improving services and analysing the provision of services. 10.2 The disclosing party shall mark all confidential information disclosed in written form as confidential before passing it onto the receiving party. The client applies to confidential information transmitted by e-mail. If confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information within five working days of oral disclosure. Where the disclosing party does not do so within this period, the receiving party shall not take any confidentiality obligations hereunder towards such information. The client shall avoid using any third party platform and/or system (e.g. Wechat, etc.) authorized by TÜV Rheinland to disclose confidential information. The disclosing party shall send any confidential information to company email of TÜV Rheinland employees through its company email. If the client suffers from any losses or damages due to any theft or leakage of the confidential information, the disclosing party shall be liable for the resulting damages mentioned above. TÜV Rheinland shall be waived for any compensation liabilities.

10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party and which is created during performance of the contract shall be confidential and may only be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing by the disclosing party.

10.4 The client may not copy, distribute, publish or otherwise disclose by the receiving party, unless this is necessary for fulfilling the purpose of the contract or TÜV Rheinland is required to pass on confidential information, inspection reports or documentation to the government authorities, public bodies, accreditation bodies or third parties and/or direct or indirect purchasers, vehicle manufacturers/whole equipment manufacturers, test standards or test requirements providers of the client's test products and/or certified products.

10.5 The client understands and agrees that the receiving party shall be liable in accordance with the relevant laws and regulations and/or the terms under the contract. If the client is required to conduct any annual renewal/surveillance of the installations, TÜV Rheinland will provide the client with all relevant services and information required for the performance of the service as specified in the contract.

10.6 The receiving party may disclose any confidential information received from the disclosing party only to those of its employees who need this information to perform the services required for the fulfilment of the contract. The receiving party shall be obliged to ensure that these employees observe the same level of secrecy as set forth in this confidentiality clause.

10.7 Information for which the receiving party can furnish proof that:

a) it was generally known at the time of disclosure or has become general knowledge without violation of any confidentiality obligations by the disclosing party; or

b) it was disclosed to the receiving party by a third party entitled to disclose this information; or

c) the receiving party already possessed this information prior to disclosure by the disclosing party; or

d) the receiving party developed it itself, irrespective of disclosure by the disclosing party, shall not be deemed to constitute confidential information as defined in this confidentiality clause.

10.8 All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copies, to the disclosing party, and (ii) on request by the disclosing party, to destroy or delete all confidential information, including all copies, and to confirm the destruction of this confidential information to the disclosing party in writing, at any time if so requested by the disclosing party but at the latest and without special request after termination or expiry of the contract. This does not include reports and certificates issued for the client solely for the purpose of fulfilling the obligations under the contract, which shall remain with the client. However, TÜV Rheinland is entitled to make file copies of such reports, certificates and confidential information that forms the basis for preparing these reports and certificates in order to comply with the requirements of the contract and general documentation purposes required by laws, regulations and the requirements of working procedures of TÜV Rheinland.

10.9 From the start of the contract and for a period of three years after termination or expiry of the contract, the receiving party shall maintain strict secrecy of all confidential information and shall not disclose this information to any third parties or use it for itself.

11. Copyrights and rights of use, publications

11.1 TÜV Rheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test reports/results, results, calculations, presentations etc. prepared by TÜV Rheinland, unless otherwise agreed by the parties in a separate agreement. As the owner of the copyrights, TÜV Rheinland is free to grant others the right to use the work results for individual or all types of use ("right of use").

11.2 The client understands and agrees that the work results produced by the client to the contents of the work results produced within the scope of the contract, unless otherwise agreed by the parties in a separate agreement. The client may only use such reports, expert reports/opinions, test reports/results, results, calculations or presentations etc. prepared within the scope of the contract for the contractually agreed purpose.

11.3 The transfer of right of use of the generated work results regulated in clause 11.2 of the GTBCB is subject to full payment of the remuneration by the client to TÜV Rheinland.

11.4 The client may use work results only complete and unshortened. The client may only pass on the work results in full unless TÜV Rheinland has given its prior written consent to the partial passing on of work results.

11.5 Any publication or duplication of the work results for advertising purposes or any further use of the work results beyond the scope regulated in clause 11.2, and any quotation of the introduction of TÜV Rheinland shall be limited to (i) in the case of a contract with a fixed overall fee, three times the overall fee for the entire contract; (ii) in the case of a contract for an annually recurring services, the agreed annual fee; (iii) in the case of a contract expressly charged on a time and material basis, a maximum of 20,000 Euro or equivalent amount in local currency; and (iv) in the case of a framework agreement that provides for the possibility of placing individual orders, three times of the fee for the individual order under which the damages or losses have occurred. Notwithstanding the above, the client shall be liable for all damages or losses incurred according to the foregoing provisions exceeds 25 Million Euro or equivalent amount in local currency, the total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed the said 25 Million Euro or equivalent amount in local currency.

11.6 The limitation of liability according to article 12.1 above shall not apply to damages and/or losses caused by malice, intent or gross negligence on the part of TÜV Rheinland or its vicarious agents. Such limitation shall not apply to damages for a person's death, the contractual or direct or indirect consequences of a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose, a "fundamental breach" is a breach of a material contractual obligation, the performance of which permits the due performance of the contract. Any claim for damages for a fundamental breach of contract shall be limited to the amount of damages reasonably foreseen as a possible consequence of such breach of contract at the time of the breach (reasonably foreseeable damages), unless any of the circumstances described in article 12.2 applies.

11.7 TÜV Rheinland shall not be liable for the acts of the personnel made available by the client to support TÜV Rheinland in the performance of its services or the contractual or direct or indirect consequences of such acts. The client shall be liable for the acts of the personnel made available as vicarious agent of TÜV Rheinland. If TÜV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify TÜV Rheinland against any claims made by third parties arising from in connection with such personnel's acts.

11.8 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract for damages for which the client is liable.

11.9 The limitation periods for claims for damages shall be based on statutory provisions.

11.10 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

12. Liability of TÜV Rheinland

12.1 Irrespective of the legal basis, to the fullest extent permitted by applicable law, in the event of a breach of contractual obligations or tort, the liability of TÜV Rheinland for all damages, losses and reimbursement of expenses caused by TÜV Rheinland, its legal representatives and/or employees shall be limited to: (i) in the case of a contract with a fixed overall fee, three times the overall fee for the entire contract; (ii) in the case of a contract for an annually recurring services, the agreed annual fee; (iii) in the case of a contract expressly charged on a time and material basis, a maximum of 20,000 Euro or equivalent amount in local currency; and (iv) in the case of a framework agreement that provides for the possibility of placing individual orders, three times of the fee for the individual order under which the damages or losses have occurred. Notwithstanding the above, the client shall be liable for all damages or losses incurred according to the foregoing provisions exceeds 25 Million Euro or equivalent amount in local currency, the total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed the said 25 Million Euro or equivalent amount in local currency.

12.2 The limitation of liability according to article 12.1 above shall not apply to damages and/or losses caused by malice, intent or gross negligence on the part of TÜV Rheinland or its vicarious agents. Such limitation shall not apply to damages for a person's death, the contractual or direct or indirect consequences of a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose, a "fundamental breach" is a breach of a material contractual obligation, the performance of which permits the due performance of the contract. Any claim for damages for a fundamental breach of contract shall be limited to the amount of damages reasonably foreseen as a possible consequence of such breach of contract at the time of the breach (reasonably foreseeable damages), unless any of the circumstances described in article 12.2 applies.

12.3 TÜV Rheinland shall not be liable for the acts of the personnel made available by the client to support TÜV Rheinland in the performance of its services or the contractual or direct or indirect consequences of such acts. The client shall be liable for the acts of the personnel made available as vicarious agent of TÜV Rheinland. If TÜV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify TÜV Rheinland against any claims made by third parties arising from in connection with such personnel's acts.

12.4 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract for damages for which the client is liable.

12.5 The limitation periods for claims for damages shall be based on statutory provisions.

12.6 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

13. Export control

13.1 When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control law.

13.2 The performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade legislations or embargos and/or

sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incurred thereof by TÜV Rheinland.

14. Data protection notice

The client understands and agrees that TÜV Rheinland processes personal data (including but not limited to personal information) of the client and its related parties (including but not limited to the supplier of the client) for the purpose of the performance of this contract. The client confirms that it has obtained the prior consent of the data subject, which entitles TÜV Rheinland to access, use, or process the personal data that the client collected or processed by itself and transferred to TÜV Rheinland. For certain services, such as consultancy services, TÜV Rheinland may use and process the data in accordance with the relevant legal basis. If any personal data has been disclosed or transferred to any third party or any overseas party outside of the district in which the personal data was collected, the client also confirms that it has obtained the prior consent of the data subject. TÜV Rheinland will carry out cross-border data transmission and protect the data in compliance with the privacy and personal data security related laws and regulations in China and the local country. TÜV Rheinland will take measures to avoid any leakage, abuse, manipulation, damage or unauthorized access of personal data. The personal data will be deleted immediately as soon as a corresponding reason for deletion arises. Data subjects may exercise the following rights: right of information, right of decision, right of rectification, right of deletion, right of processing limitation, right of objection, right of data transferability. In addition, persons concerned by the data processing have the right to revoke their consent at any time with effect for the future, as well as the right to file a complaint with the competent data protection supervisory authority. For further details on the processing of personal data by TÜV Rheinland as the personal responsible or contract processor, please refer to the respective data protection information. You can contact the Group Data Protection Officer of TÜV Rheinland by e-mail at dataprotection@tuv.com or by post at the following address: TÜV Rheinland AG, c/o Group Data Protection Officer, Am Grauen Stein, 51106 Cologne, Germany.

15. Retention of test material and documentation

15.1 The test samples submitted by the client to TÜV Rheinland for testing will be scrapped following testing or will be returned to the client at the client's expense. The only exceptions are test samples, which are placed in storage on the basis of statutory regulations or of another agreement with the client.

15.2 Charges apply if the test samples are stored at the premises of TÜV Rheinland. The cost of placing a test sample into storage will be disclosed to the client in the quotation.

15.3 The test samples and test results and/or documents are given to the client to be placed in storage at their premises, the reference samples or documents must be made available to TÜV Rheinland upon request promptly and free of charge. If the client, in response to such a request, is incapable of making the samples or documents available to TÜV Rheinland, TÜV Rheinland may request material and pecuniary damage resulting from the respective testing and certification that is brought forward by the client against TÜV Rheinland shall be voided.

15.4 The client reserves the right to request the destruction of the test samples after the expiry of the test mark certificates or shall meet the applicable legal requirements for EU/EEA certificates of conformity and GS mark certificates.

15.5 The completed test results and dispatch of the test samples for storage on the client's premises are borne by the client. TÜV Rheinland will be liable for the loss of test samples or reference samples from the laboratories or warehouses of TÜV Rheinland only in case of gross negligence.

16. Termination of the contract

16.1 Notwithstanding clause 3.3 of the GTBCB, TÜV Rheinland and the client are entitled to terminate the contract in its entirety or, in the case of services, in part, if one of the combined parts of the contract individually and independently of the continuation of the remaining services with six (6) months' notice to the end of the contractually agreed term. The notice period shall be shortened to six (6) weeks in case TÜV Rheinland is prevented from performing the services due to a loss or suspension of its accreditation or notification.

16.2 For good cause, TÜV Rheinland may consider giving a written notice to the client to terminate the contract without being bound by any liabilities and/or claims for relevant service fees, but only for services provided by TÜV Rheinland due to the termination date of the contract. The aforesaid good causes includes but not limited to the following:

a) the client does not fulfil its obligations to TÜV Rheinland; or

b) the client misuses the certificate or certification mark or uses it in violation of the contract; or

c) the event of several consecutive delays in the registration of the relevant service fees; and

d) a substantial deterioration of the financial circumstances of the client occurs and as a result the payment claims of TÜV Rheinland under the contract are considerably endangered and TÜV Rheinland cannot reasonably be expected to continue the contractual relationship.

16.3 In the event of any serious misrepresentation, be it by intentional fraud or grossly negligent behavior of the managers, employees or agents of the client;

16.4 If TÜV Rheinland, at its discretion, deems beyond control, temporarily or finally not able or entitled to continue or finalize the performance of the service, e.g. in case of force majeure, government interference, sanctions, loss of accreditation or notification, or other.

16.5 If the country/region in which the registration of the relevant service project in the contract does not belong to the insurance coverage applicable to TÜV Rheinland, and TÜV Rheinland believes that there is a risk or some risks beyond its control to continue to perform the contract, the client shall be obliged to provide written notice to TÜV Rheinland for good cause, TÜV Rheinland shall be entitled to a lump-sum claim for damages against the client if the conditions of a claim for damages exist. In this case, the client shall owe 15% of the remuneration to be paid until the end of the fixed contract term. The client shall be obliged to provide written notice to TÜV Rheinland if there is no damage or a considerably lower damage, TÜV Rheinland reserves the right to prove a considerably higher damage in individual cases.

16.6 TÜV Rheinland is also entitled to give written notice to the client if the client has not been able to make use of the time windows for auditing /service provision provided by TÜV Rheinland within the scope of a certification procedure and the certificate therefore has to be withdrawn (for example during the performance of monitoring audits). Clause 16.3 applies accordingly.

17. Force Majeure

17.1 "Force Majeure" means the occurrence of an event or circumstance that prevents or impedes a Party from performing one or more of its contractual obligations under the contract, if and to the extent that that Party proves: (a) that such impediment is beyond its reasonable control; and (b) that it could not reasonably be expected to overcome the consequences of the event; and (c) that the effects of the impediment could not reasonably have been avoided or overcome by the affected Party.

17.2 In the absence of proof to the contrary, the following events affecting a Party shall be presumed to fulfil conditions (a) and (b) under paragraph 1.1 of this Clause: (i) war (whether declared or not), hostilities, invasion, act of foreign enemies, extensive military mobilization; (ii) civil war, riot, rebellion and revolts; (iii) strikes or other industrial action; (iv) acts of terrorism, sabotage or piracy; (v) currency and trade restriction, embargo, sanction; (vi) act of authority whether lawful or unlawful, compliance with any law or governmental order, expropriation, seizure of works, requisition, nationalization; (v) plague, epidemic, natural disaster or extreme natural event; (vii) explosion, fire, destruction of equipment, prolonged break-down of transport, telecommunication, information system or energy; (viii) general labor disturbance such as boycott, strike and lock-out; (ix) slow-occupation of territories and premises.

17.3 The Party successfully invoking this Clause is relieved from its duty to perform its obligations under the contract from any liability in damages or from any other contractual remedy for breach of contract, for the time at which the impediment causes inability to perform, provided that the notice thereof is given without delay. If notice thereof is not given without delay, the relief is effective from the time at which notice thereof reaches the other Party. Where the effect of the impediment or event involved is temporary, the above provisions shall apply only as long as the impediment involved impedes performance of the affected Party. Where the duration of the impediment involved has the effect of substantially depriving the contracting Parties of what they were reasonably entitled to expect under the contract, either Party has the right to terminate the contract by notification within a reasonable period to the other Party. Unless otherwise agreed, the Parties expressly agree that the contract may be terminated by either Party if the duration of the impediment exceeds 120 days.

18. Hardship

18.1 The Parties are bound to perform their contractual duties even if events have rendered performance more onerous than could reasonably have been anticipated at the time of the conclusion of the contract.

18.2 Notwithstanding paragraph 1.1 of this Clause, where a Party proves that:

(a) the continued performance of its contractual duties has become excessively onerous due to an event beyond its reasonable control which it could not reasonably have been expected to have taken into account at the time of the conclusion of the contract; and that

(b) it could not reasonably have avoided or overcome the event or its consequences, the Parties are bound, within a reasonable time of the invocation of this Clause, to negotiate alternative contractual terms which reasonably allow to overcome the consequences of the event.

18.3 Where Clause 18.2 applies, but where the Parties have been unable to agree alternative contractual terms as provided in that paragraph, the Party invoking this Clause is entitled to terminate the contract, but cannot request adaptation by the judge or arbitrator without the agreement of the other Party.

19. Partial invalidity, written form, place of jurisdiction and dispute resolution

19.1 All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 17.1.

19.2 Should one or several of the provisions under the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that comes closest to the content of the invalid provision in legal and commercial terms.

19.3 Unless otherwise stipulated in the contract, the governing law of the contract and these terms and conditions shall be the law of the country in which the contract is concluded.

19.4 If TÜV Rheinland in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the law of the People's Republic of China.

19.5 If TÜV Rheinland in question is legally registered and existing in Taiwan, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan.

19.6 If TÜV Rheinland in question is legally registered and existing in Hong Kong, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hong Kong.

19.7 Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be settled friendly through negotiations.

19.8 Unless otherwise stipulated in the contract, no mediation or no agreement in respect of the extension of the negotiation period can be reached within two months of the arising of the dispute, the dispute shall be submitted:

(a) in the case of TÜV Rheinland in question being legally registered and existing in the People's Republic of China, to China International Economic and Trade Arbitration Commission (CIETAC) to be settled by arbitration under the Arbitration Rules of CIETAC in force when the arbitration is submitted. The arbitration shall take place in Beijing, Shanghai, Shenzhen or Chongqing as appropriately chosen by the claiming party;

(b) in the case of TÜV Rheinland in question being legally registered and existing in Taiwan, to Chinese Arbitration Association (CAA) to be settled in accordance with its then current Rules of Arbitration. The arbitration shall take place in Taipei;

(c) in the case of TÜV Rheinland being legally registered and existing in Hong Kong, to Hong Kong International Arbitration Centre (HKIAC) to be settled in accordance with its then current Administered Arbitration Rules in force when the Notice of Arbitration is submitted in accordance with these rules. The arbitration shall take place in Hong Kong.

19.9 The decision of the arbitration tribunal shall be final and binding on both parties. The arbitration fee shall be borne by the losing party.