



Report No.:ZFLJ39999479  
Date:2025-07-19



# TEST REPORT

## APPLICANT DETAILS

**Applicant** : Quanzhou Nanxin Bleach Dye Co., Ltd.  
**Address** : 236 Chengzhou Road, Fengze District, Quanzhou City, Fujian Province  
**Contact Person** : LuHuiPing

## FACTORY DETAILS

**Factory Name** : Quanzhou Nanxin Bleach Dye Co., Ltd.  
**Factory Address** : 236 Chengzhou Road, Fengze District, Quanzhou City, Fujian Province  
**Contact Person** : LuHuiPing  
**Buyer** : /  
**Process Type** : Textile  
**Discharge Type** : Indirect discharge with pretreatment (with sludge)  
**Sludge Disposal Pathway** : A: Offsite Incineration at >1000°C  
**Average Wastewater Generated** :  $\geq 15 \text{ m}^3/\text{day}$

Remark: The above information were provided by applicant

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Tel: 0595-83667715/83667725  
Email: customerservice@fabricschina.com.cn



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## SAMPLE DETAILS

**Sample Description** : U001:Untreated wastewater(Composite sampling)  
E001:Effluent(Composite sampling)  
S001: Sludge

**Sampler ID** : ZDHC-A-24-E-C001068-R4B14-9CF38 Baily Wu

**Sampling Date** : 2025-07-08

**Sample Received Date** : 2025-07-09

**Sample Received Temperature** : 7.1℃

**Test Performing Period** : 2025-07-09~ 2025-07-19

**Test Requirement** : ZDHC Wastewater Guidelines Version 2.2

EDITED BY:

*Alice Cai*

Alice cai

APPROVED BY:



David Wu

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## SUMMARY OF TEST RESULTS

No.	Table 1A-1T: ZDHC MRSL Wastewater Parameters	Untreated Wastewater (U001)	--	--
T1A	Alkylphenol (AP) and Alkylphenol Ethoxylates(APEOs): Including All Isomers	N.D.	--	--
T1B	Antimicrobials and Biocides	N.D.	--	--
T1C	Chlorinated Parafins	N.D.	--	--
T1D	Chlorobenzenes and Chlorotoluenes	N.D.	--	--
T1E	Chlorophenols	N.D.	--	--
T1F	N,N-di-methylformamide (DMFa)	N.D.	--	--
T1G	Dyes – Carcinogenic or Equivalent Concern	N.D.	--	--
T1H	Dyes – Disperse (Allergenic)	N.D.	--	--
T1I	Dyes – Navy Blue Colourant	--	--	--
T1J	Flame Retardants	N.D.	--	--
T1K	Glycols / Glycol Ethers	N.D.	--	--
T1L	Halogenated Solvents	N.D.	--	--
T1M	Organotin Compounds	N.D.	--	--
T1N	Other/Miscellaneous Chemicals	N.D.	--	--
T1O	Perfluorinated and Polyfluorinated Chemicals (PFCs)	N.D.	--	--
T1P	Phthalates – Including All Other Esters of Ortho-Phthalic Acid	N.D.	--	--
T1Q	Polycyclic Aromatic Hydrocarbons (PAHs)	N.D.	--	--
T1R	Restricted Aromatic Amines (Cleavable from Azo-Colourants)	N.D.	--	--
T1S	UV Absorbers	N.D.	--	--
T1T	Volatile Organic Compounds (VOC)	N.D.	--	--

Note: N.D. = Not detected.

D. = Detected.

N.R. = Not requirement.

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## SUMMARY OF TEST RESULTS

No.	Table 2: ZDHC Heavy Metals Wastewater Parameters	Effluent (E001)		
		Foundational	Progressive	Aspirational
T2.1	Antimony	--	--	--
T2.2	Chromium (VI)	--	--	▲
T2.3	Barium	--		
T2.4	Selenium	--		
T2.5	Tin	--		
T2.6	Arsenic	--	--	▲
T2.7	Chromium, total	--	--	--
T2.8	Cobalt	--	--	--
T2.9	Cadmium	--	--	▲
T2.10	Copper	--	--	--
T2.11	Lead	--	--	▲
T2.12	Nickel	--	--	--
T2.13	Silver	--	--	--
T2.14	Zinc	--	--	--
T2-15	Mercury	--	--	▲

Note: ▲ = Meet the corresponding limit requirements.

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### SUMMARY OF TEST RESULTS

No.	Table 3: ZDHC Conventional Parameters and Anions for Wastewater	Effluent (E001)		
		Foundational	Progressive	Aspirational
T3.1	Conventional - pH	--		
T3.2	Conventional - Temperature Difference	--	--	--
T3.3	Conventional - E.coli	--		
T3.4	Conventional - Colour (436nm; 525nm; 620nm)	--	--	--
T3.5	Conventional - Persistent Foam	--		
T3.6	Conventional - Wastewater Flowrate	--		
T3.7	Conventional - Ammonium-Nitrogen	--	--	--
T3.8	Conventional - Adsorbable Organic Halogen(AOX)	--	--	--
T3.9	Conventional - Biochemical Oxygen Demand (BOD <sub>5</sub> )	--	--	--
T3.10	Conventional - Chemical Oxygen Demand (COD)	-	--	--
T3.11	Conventional - Dissolved Oxygen (DO)	--		
T3.12	Conventional - Oil and Grease	--	--	--
T3.13	Conventional - Total Phenols / Phenol Index	--	--	--
T3.14	Conventional - Total Chlorine	--		
T3.15	Conventional - Total Dissolved Solids (TDS)	--		
T3.16	Conventional - Total Nitrogen	--	--	--
T3.17	Conventional - Total Phosphorus	--	--	--
T3.18	Conventional - Total Suspended Solids (TSS)	--	--	--
T3.19	Anions - Chloride	--		
T3.20	Anions - Cyanide, total	--	--	--
T3.21	Anions - Sulfate	--		
T3.22	Anions - Sulfide	--	--	---
T3.23	Anions - Sulfite	--	--	--

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### SUMMARY OF TEST RESULTS

No.	Table 4A-4C: ZDHC Sludge MRSL, Metals, Conventional Parameters, Anions	Sludge (S001)	--
T4A.1	MRSL - Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	Sample and report only	--
T4A.2	MRSL - Polycyclic Aromatic Hydrocarbons (PAHs)	Sample and report only	--
T4A.3	MRSL - Chlorotoluenes	Sample and report only	--
T4B.1	Metals - Antimony	--	--
T4B.2	Metals - Arsenic	--	--
T4B.3	Metals - Barium	--	--
T4B.4	Metals - Cadmium	--	--
T4B.5	Metals - Cobalt	--	--
T4B.6	Metals - Copper	--	--
T4B.7	Metals - Lead	--	--
T4B.8	Metals - Nickel	--	--
T4B.9	Metals - Selenium	--	--
T4B.10	Metals - Silver	--	--
T4B.11	Metals - Zinc	--	--
T4B.12	Metals - Total Chromium	--	--
T4B.13	Metals - Chromium (VI)	--	--
T4B.14	Metals - Mercury	--	--
T4C.1	Conventional - pH	--	--
T4C.2	Conventional - Fecal Coliform	--	--
T4C.3	Conventional - Solids	Sample and report only	--
T4C.4	Conventional - Paint Filter Test	--	--
T4C.5	Anions - Cyanide	--	--

Note: N.D. = Not detected.  
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### SAMPLING PHOTO



Sample Collection Field Kit Packaging Photo  
(Sampling Pre-Visit)



Sample Collection Field Kit Express Delivery Order  
(Sampling Pre-Visit)



Factory Gate  
(Sampling on Site - Pre Sampling)



Sample Collection Field Kit On-Site Unboxing Photo  
(Sampling on Site - Pre Sampling)

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### SAMPLING PHOTO



Untreated Wastewater Sampling Point (U001)  
(Sampling on Site - Sampling)



Untreated Wastewater Sample (U001)  
(Sampling on Site - Sampling)



Effluent Sampling Point (E001)  
(Sampling on Site - Sampling)



Effluent Sample (E001)  
(Sampling on Site - Sampling)

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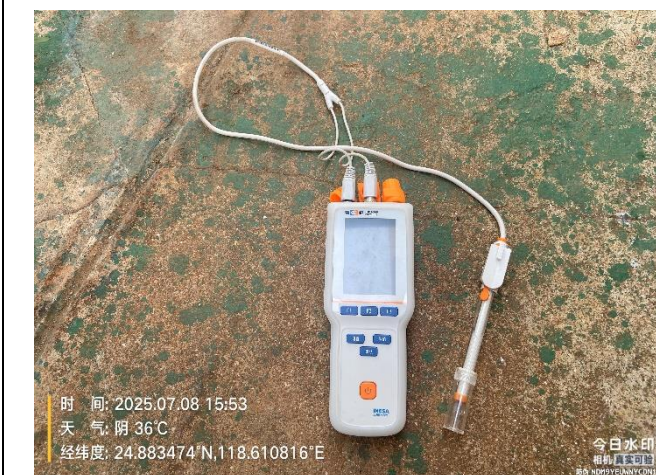
## SAMPLING PHOTO



Sludge Sampling Point (S001)  
(Sampling on Site - Sampling)



Sludge Sample (S001)  
(Sampling on Site - Sampling)



Testing Instruments  
(Sampling on Site - Sampling)



Sampling Tools  
(Sampling on Site - Sampling)

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### SAMPLING PHOTO



Sampling Data and Representative Declaration Form  
(Sampling on Site – Post Sampling)

Sample Packing Photo  
(Sampling on Site – Post Sampling)

### Sample Description

NO.	Color	Material	Type	Location
U001	Black	Liquid	Untreated Wastewater	24.883749°N,118.610750°E
E001	Brown	Liquid	Effluent	24.883534°N,118.610848°E
S001	Dark brown	Solid	Sludge	24.883922°N,118.612184°E

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## TEST REQUIREMENTS AND RESULTS

Table 1A-1T: ZDHC MRSL Wastewater Parameters

**T1A: Alkylphenol (AP) and Alkylphenol Ethoxylates(APEOs): including all isomers**

Test Method: Refer to ISO 18857-1:2005 for AP, ASTM D7742:17(2024)for APEO

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	Nonylphenol Ethoxylates (NPEO)	Multiple including 9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0	5	N.D.	--	--
2	Nonylphenol (NP), mixed isomers	Multiple including 104-40-5 11066-49-2 25154-52-3 84852-15-3	5	N.D.	--	--
3	Octylphenol Ethoxylates (OPEO)	Multiple including 9002-93-1 9036-19-5 68987-90-6	5	N.D.	--	--
4	Octylphenol (OP), mixed isomers	Multiple including 140-66-9 1806-26-4 27193-28-8	5	N.D.	--	--

**T1B: Antimicrobials and Biocides**

Test Method: Refer to EPA 3550C:2007 for extraction and acetic anhydride derivatization, EPA 8270E:2018 for analysis

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	o-Phenylphenol (+salts)	90-43-7	100	N.D.	--	--
2	Triclosan	3380-34-5	100	N.D.	--	--
3	Permethrin	Multiple including 52645-53-1	500	N.D.	--	--

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**T1C: Chlorinated Paraffins**

Test Method: Refer to ISO 18219-1:2021 & ISO18219-2:2021

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	N.D.	--	--
2	Short-chain Chlorinated paraffin (SCCPs) (C10-C13)	85535-84-8	25	N.D.	--	--

**T1D: Chlorobenzenes and Chlorotoluenes**

Test Method: Refer to EPA 3550C:2007 & EPA 8270E:2018

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	1,2-dichlorobenzene	95-50-1	0.2	N.D.	--	--
2	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	0.2	N.D.	--	--

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**T1E: Chlorophenols**

Test Method: Refer to EPA 3550C:2007 & EPA 8270E:2018

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	2-Chlorophenol	95-57-8	0.5	N.D.	--	--
2	2,3-Dichlorophenol	576-24-9	0.5	N.D.	--	--
3	2,3,4-Trichlorophenol	15950-66-0	0.5	N.D.	--	--
4	2,3,5-Trichlorophenol	933-78-8	0.5	N.D.	--	--
5	2,3,6-Trichlorophenol	933-75-5	0.5	N.D.	--	--
6	2,4-Dichlorophenol	120-83-2	0.5	N.D.	--	--
7	2,4,5-Trichlorophenol	95-95-4	0.5	N.D.	--	--
8	2,4,6-Trichlorophenol	88-06-2	0.5	N.D.	--	--
9	2,5-Dichlorophenol	583-78-8	0.5	N.D.	--	--
10	2,6-Dichlorophenol	87-65-0	0.5	N.D.	--	--
11	3-Chlorophenol	108-43-0	0.5	N.D.	--	--
12	3,4-Dichlorophenol	95-77-2	0.5	N.D.	--	--
13	3,4,5-Trichlorophenol	609-19-8	0.5	N.D.	--	--
14	3,5-Dichlorophenol	591-35-5	0.5	N.D.	--	--
15	4-Chlorophenol	106-48-9	0.5	N.D.	--	--
16	Pentachlorophenol (PCP)	87-86-5	0.5	N.D.	--	--
17	2,3,5,6-Tetrachlorophenol	935-95-5	0.5	N.D.	--	--
18	2,3,4,6-Tetrachlorophenol	58-90-2	0.5	N.D.	--	--
19	2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	N.D.	--	--

**T1F: N,N-di-methylformamide (DMFa)**

Test Method: Refer to EPA 3550C:2007 & EPA 8270E:2018

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	N,N-dimethylformamide (DMFa)	68-12-2	1000	N.D.	--	--

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**T1G: Dyes - Carcinogenic or Equivalent Concern**

Test Method: Refer to DIN 54231:2022

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	Basic violet 3 with >0.1% of Michler's Ketone	548-62-9	500	N.D.	--	--
2	C.I. Acid Red 26	3761-53-3	500	N.D.	--	--
3	C.I. Acid Violet 49	1694-09-3	500	N.D.	--	--
4	C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	N.D.	--	--
5	C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	N.D.	--	--
6	C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	N.D.	--	--
7	C.I. Basic Green 4 (malachite green)	10309-95-2	500	N.D.	--	--
8	C.I. Basic Red 9	569-61-9	500	N.D.	--	--
9	C.I. Basic Violet 14	632-99-5	500	N.D.	--	--
10	C.I. Direct Black 38	1937-37-7	500	N.D.	--	--
11	C.I. Direct Blue 6	2602-46-2	500	N.D.	--	--
12	C.I. Direct Red 28	573-58-0	500	N.D.	--	--
13	C.I. Disperse Blue 1	2475-45-8	500	N.D.	--	--
14	C.I. Disperse Blue 3	2475-46-9	500	N.D.	--	--
15	Disperse Orange 11	82-28-0	500	N.D.	--	--

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**T1H: Dyes - Disperse (Allergenic)**

Test Method: Refer to DIN 54231:2022

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	Disperse Blue 102	12222-97-8	50	N.D.	--	--
2	Disperse Blue 106	12223-01-7	50	N.D.	--	--
3	Disperse Blue 124	61951-51-7	50	N.D.	--	--
4	Disperse Blue 26	3860-63-7	50	N.D.	--	--
5	Disperse Blue 35	12222-75-2	50	N.D.	--	--
6	Disperse Blue 35	56524-77-7	50	N.D.	--	--
7	Disperse Blue 7	3179-90-6	50	N.D.	--	--
8	Disperse Brown 1	23355-64-8	50	N.D.	--	--
9	Disperse Orange 1	2581-69-3	50	N.D.	--	--
10	Disperse Orange 3	730-40-5	50	N.D.	--	--
11	Disperse Orange 37/59/76	13301-61-6	50	N.D.	--	--
12	Disperse Red 1	2872-52-8	50	N.D.	--	--
13	Disperse Red 11	2872-48-2	50	N.D.	--	--
14	Disperse Red 17	3179-89-3	50	N.D.	--	--
15	Disperse Yellow 1	119-15-3	50	N.D.	--	--
16	Disperse Yellow 3	2832-40-8	50	N.D.	--	--
17	Disperse Yellow 39	12236-29-2	50	N.D.	--	--
18	Disperse Yellow 49	54824-37-2	50	N.D.	--	--
19	Disperse Yellow 9	6373-73-5	50	N.D.	--	--

**T1J: Flame Retardants**

Test Method: Refer to ISO 11885:2007, determined as total boron, followed by ICP-OES analysis

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	Boric acid	10043-35-3 11113-50-1	500	N.D.	--	--
2	Diboron trioxide	1303-86-2	500	N.D.	--	--
3	Disodium octaborate	12008-41-2	500	N.D.	--	--
4	Disodium tetraborate anhydrous	1303-96-4 1330-43-4	500	N.D.	--	--
5	Tetraboron disodium heptaoxide, hydrate	12267-73-1	500	N.D.	--	--

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Test Method: Refer to ISO 22032:2006

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	Hexabromocyclododecane (HBCDD)	3194-55-6	25	N.D.	--	--
2	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	N.D.	--	--
3	Polybromobiphenyls (PBB)	59536-65-1	25	N.D.	--	--
4	Monobromobiphenyls (MonoBB)	Multiple	25	N.D.	--	--
5	Monobromodiphenylethers (MonoBDEs)	Multiple	25	N.D.	--	--
6	Dibromobiphenyls (DiBB)	Multiple	25	N.D.	--	--
7	Dibromopropylether	21850-44-2	25	N.D.	--	--
8	Tribromodiphenylethers (TriBDEs)	Multiple	25	N.D.	--	--
9	Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	N.D.	--	--
10	Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	N.D.	--	--
11	Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	N.D.	--	--
12	Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	N.D.	--	--
13	Octabromobiphenyls (OctaBB)	Multiple	25	N.D.	--	--
14	Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	N.D.	--	--
15	Nonabromobiphenyls (NonaBB)	Multiple	25	N.D.	--	--
16	Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	N.D.	--	--
17	Decabromobiphenyl (DecaBB)	13654-09-6	25	N.D.	--	--
18	Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	N.D.	--	--
19	Tetrabromobisphenol A(TBBPA)	79-94-7	25	N.D.	--	--
20	Bis(2,3-dibromopropyl) phosphate (BDBPP)	5412-25-9	25	N.D.	--	--
21	Tris-(2-chloro-1-methylethyl)phosphate (TCPP)	13674-84-5	25	N.D.	--	--
22	Tris(1-aziridinyl)-phosphine oxide (TEPA)	545-55-1	25	N.D.	--	--
23	Tris(1,3-dichloro-isopropyl)phosphate (TDCP)	13674-87-8	25	N.D.	--	--
24	Tris(2-chloroethyl) phosphate(TCEP)	115-96-8	25	N.D.	--	--
25	Tris(2,3-dibromopropyl)phosphate (TRIS)	126-72-7	25	N.D.	--	--

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**T1K: Glycols / Glycol Ethers**

Test Method: EPA 3550C:2007, EPA 8270E:2018

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	2-ethoxyethanol	110-80-5	50	N.D.	--	--
2	2-ethoxyethyl acetate	111-15-9	50	N.D.	--	--
3	2-methoxyethanol	109-86-4	50	N.D.	--	--
4	2-methoxyethylacetate	110-49-6	50	N.D.	--	--
5	2-methoxypropylacetate	70657-70-4	50	N.D.	--	--
6	Bis(2-methoxyethyl)-ether	111-96-6	50	N.D.	--	--
7	Ethylene glycol dimethyl ether	110-71-4	50	N.D.	--	--
8	Triethylene glycol dimethyl ether	112-49-2	50	N.D.	--	--

**T1L: Halogenated Solvents**

Test Method: Headspace treatment, followed by EPA 8260D:2018 analysis

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	1,2-Dichloroethane	107-06-2	1	N.D.	--	--
2	Methylene Chloride	75-09-2	1	N.D.	--	--
3	Tetrachloroethylene	127-18-4	1	N.D.	--	--
4	Trichloroethylene	79-01-6	1	N.D.	--	--

**T1M: Organotin Compounds**

Test Method: Refer to ISO 17353:2004

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	Dipropyltin compounds (DPT)	Multiple including 867-36-7	0.01	N.D.	--	--
2	Mono-, di- and tri-butyltin derivatives	Multiple including 1118-46-3 1461-22-9	0.01	N.D.	--	--
3	Mono-, di- and tri-methyltin derivatives	Multiple including 993-16-8 753-73-1 1066-45-1	0.01	N.D.	--	--

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4	Mono-, di- and tri-octyltin derivatives	Multiple including 3091-25-6 3542-36-7 2587-76-0	0.01	N.D.	--	--
5	Mono-, di- and tri-phenyltin derivatives	Multiple including 1124-19-2 1135-99-5 639-58-7	0.01	N.D.	--	--
6	Tetrabutyltin compounds (TeBT)	Multiple including 1461-25-2	0.01	N.D.	--	--
7	Tetraethyltin Compounds (TeET)	Multiple including 597-64-8	0.01	N.D.	--	--
8	Tetraoctyltin compounds (TeOT)	Multiple including 3590-84-9	0.01	N.D.	--	--
9	Tricyclohexyltin (TCyHT)	Multiple including 3091-32-5	0.01	N.D.	--	--
10	Tripropyltin Compounds (TPT)	Multiple including 2279-76-7	0.01	N.D.	--	--

**T1N: Other/Miscellaneous Chemicals**

Test Method: Refer to EPA 3550C:2007, EPA 8321B:2007

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	N.D.	--	--
2	Bisphenol A	80-05-7	10	N.D.	--	--
3	Quinoline	91-22-5	50	N.D.	--	--
4	Thiourea	62-56-6	50	N.D.	--	--

Test Method: Refer to EPA 3052:1996, determined as total boron and total zinc, followed by ICP-OES analysis

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	Borate, zinc salt	12767-90-7	100	N.D.	--	--

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**T10: Perfluorinated and Polyfluorinated Chemicals (PFCs)**

Test Method: Refer to ISO 25101:2009, EPA 537:2020 for PFCs, EPA 8270E:2018 for FTOH

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	Perfluorooctane sulfonate (PFOS) and related substances	Multiple including 1763-23-1	0.01	N.D.	--	--
2	Perfluorooctanoic acid (PFOA) and related substances	Multiple including 335-67-1	1	N.D.	--	--

**T1P: Phthalates - Including All Other Esters of Ortho-Phthalic Acid**

Test Method: Refer to ISO 18856:2004

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	1,2-benzenedicarboxylic acid, di-C6-8-branched and linear alkyl esters, C7-rich (DIHP)	71888-89-6 84777-06-0	10	N.D.	--	--
2	1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4 68515-50-4	10	N.D.	--	--
3	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	10	N.D.	--	--
4	Butyl benzyl phthalate (BBP)	85-68-7	10	N.D.	--	--
5	Di-cyclohexyl phthalate (DCHP)	84-61-7	10	N.D.	--	--
6	Di-iso-decyl phthalate (DIDP)	26761-40-0	10	N.D.	--	--
7	Di-iso-octyl phthalate (DIOP)	27554-26-3	10	N.D.	--	--
8	Di-isobutyl phthalate (DIBP)	84-69-5	10	N.D.	--	--
9	Di-isononyl phthalate (DINP)	28553-12-0	10	N.D.	--	--
10	Di-n-hexyl phthalate (DnHP)	84-75-3	10	N.D.	--	--
11	Di-n-octyl phthalate (DNOP)	117-84-0	10	N.D.	--	--
12	Di-n-pentylphthalates	131-18-0	10	N.D.	--	--
13	Di-n-propyl phthalate (DPRP)	131-16-8	10	N.D.	--	--
14	Di(ethylhexyl)phthalate(DEHP)	117-81-7	10	N.D.	--	--
15	Dibutyl phthalate (DBP)	84-74-2	10	N.D.	--	--
16	Diethyl phthalate (DEP)	84-66-2	10	N.D.	--	--
17	Diisopentylphthalates	605-50-5	10	N.D.	--	--
18	Dinonyl phthalate (DNP)	84-76-4	10	N.D.	--	--

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**T1Q: Polycyclic Aromatic Hydrocarbons (PAHs)**

Test Method: Refer to DIN 38407-39:2011

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	Acenaphthene	83-32-9	1	N.D.	--	--
2	Acenaphthylene	208-96-8	1	N.D.	--	--
3	Anthracene	120-12-7	1	N.D.	--	--
4	Benzo[a]anthracene	56-55-3	1	N.D.	--	--
5	Benzo[a]pyrene	50-32-8	1	N.D.	--	--
6	Benzo[b]fluoranthene	205-99-2	1	N.D.	--	--
7	Benzo[e]pyrene	192-97-2	1	N.D.	--	--
8	Benzo[ghi]perylene	191-24-2	1	N.D.	--	--
9	Benzo[j]fluoranthene	205-82-3	1	N.D.	--	--
10	Benzo[k]fluoranthene	207-08-9	1	N.D.	--	--
11	Chrysene	218-01-9	1	N.D.	--	--
12	Dibenz[a,h]anthracene	53-70-3	1	N.D.	--	--
13	Fluoranthene	206-44-0	1	N.D.	--	--
14	Fluorene	86-73-7	1	N.D.	--	--
15	Indeno[1,2,3-cd]pyrene	193-39-5	1	N.D.	--	--
16	Naphthalene	91-20-3	1	N.D.	--	--
17	Phenanthrene	85-01-8	1	N.D.	--	--
18	Pyrene	129-00-0	1	N.D.	--	--

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**T1R: Restricted Aromatic Amines (Cleavable from Azo-colourants)**

Test Method: Refer to ISO 14362-1:2017, ISO 14362-3:2017 (4-Aminoazobenzene)

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	2-Naphthylamine	91-59-8	0.1	N.D.	--	--
2	2-Naphthylammoniumacetate	553-00-4	0.1	N.D.	--	--
3	2,4-Xylidine	95-68-1	0.1	N.D.	--	--
4	2,4,5-Trimethylaniline	137-17-7	0.1	N.D.	--	--
5	2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	N.D.	--	--
6	2,6-Xylidine	87-62-7	0.1	N.D.	--	--
7	3,3'-Dichlorobenzidine	91-94-1	0.1	N.D.	--	--
8	3,3'-Dimethoxybenzidine	119-90-4	0.1	N.D.	--	--
9	3,3'-Dimethylbenzidine	119-93-7	0.1	N.D.	--	--
10	4-Aminoazobenzene	60-09-3	0.1	N.D.	--	--
11	4-Aminodiphenyl	92-67-1	0.1	N.D.	--	--
12	4-Chloro-o-toluidine	95-69-2	0.1	N.D.	--	--
13	4-chloro-o-toluidinium chloride	3165-93-3	0.1	N.D.	--	--
14	4-Chloroaniline	106-47-8	0.1	N.D.	--	--
15	4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	N.D.	--	--
16	4-Methoxy-m-phenylenediamine	615-05-4	0.1	N.D.	--	--
17	4-Methyl-m-phenylenediamine	95-80-7	0.1	N.D.	--	--
18	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	0.1	N.D.	--	--
19	4,4'-Methylenedi-o-toluidine	838-88-0	0.1	N.D.	--	--
20	4,4'-methylenedianiline	101-77-9	0.1	N.D.	--	--
21	4,4'-Oxydianiline	101-80-4	0.1	N.D.	--	--
22	4,4'-Thiodianiline	139-65-1	0.1	N.D.	--	--
23	5-nitro-o-toluidine	99-55-8	0.1	N.D.	--	--
24	6-methoxy-m-toluidine	120-71-8	0.1	N.D.	--	--
25	Benzidine	92-87-5	0.1	N.D.	--	--
26	o-Aminoazotoluene	97-56-3	0.1	N.D.	--	--
27	o-Anisidine	90-04-0	0.1	N.D.	--	--
28	o-Toluidine	95-53-4	0.1	N.D.	--	--

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Date:2025-07-19

**T1S: UV Absorbers**

Test Method: EPA 3550C:2007, EPA 8270E:2018

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	100	N.D.	--	--
2	2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)	25973-55-1	100	N.D.	--	--
3	2-benzotriazol-2-yl-4,6-di-tertbutylphenol(UV-320)	3846-71-7	100	N.D.	--	--
4	2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	N.D.	--	--

**T1T: Volatile Organic Compounds (VOC)**

Test Method: Refer to ISO 11423-1:1997

No.	Test Item(s)	CAS No.	Reporting Limit (µg/L)	Result (µg/L)		
				U001	--	--
1	Benzene	71-43-2	1	N.D.	--	--
2	m-cresol	108-39-4	1	N.D.	--	--
3	o-cresol	95-48-7	1	N.D.	--	--
4	p-cresol	106-44-5	1	N.D.	--	--
5	Toluene	108-88-3	1	N.D.	--	--
6	Xylene	1330-20-7	1	N.D.	--	--

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Date:2025-07-19



**Table 2: ZDHC Heavy Metals Wastewater Parameters**

**T2: Heavy Metals**

Test method: EPA 3052:1996 & EPA 6020B:2014, EPA 218-6:1994 for CrVI

No.	Test Item	Reporting Limit (mg/L)	Limits (mg/L)			Result (mg/L)		
			Foundational	Progressive	Aspirational	E001	--	--
T2.2	Chromium (VI)	0.001	0.05	0.005	0.001	N.D.	--	--
T2.6	Arsenic	0.002	0.05	0.01	0.005	N.D.	--	--
T2.9	Cadmium	0.005	0.1	0.05	0.01	N.D.	--	--
T2.11	Lead	0.005	0.1	0.05	0.01	N.D.	--	--
T2.15	Mercury	0.001	0.01	0.005	0.001	N.D.	--	--

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**Table 4A-4C: ZDHC Sludge MRSL, Metals, Conventional Parameters, Anions**

**T4A.1: MRSL - Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers**

Test Method: Refer to EPA 3550C:2007, ISO 18857-1:2005 for AP, ISO 18254-1:2016 for APEO

No.	Test Item(s)	CAS No.	Reporting Limit (mg/kg-Dry weight)	Result (mg/kg-Dry weight)		
				S001	--	--
1	Nonylphenol Ethoxylates(NPEO)	Multiple including 9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0	0.4	N.D.	--	--
2	Nonylphenol(NP), mixed isomers	Multiple including 104-40-5 11066-49-2 25154-52-3 84852-15-3	0.4	N.D.	--	--
3	Octylphenol Ethoxylates(OPEO)	Multiple including 9002-93-1 9036-19-5 68987-90-6	0.4	N.D.	--	--
4	Octylphenol(OP), mixed isomers	Multiple including 140-66-9 1806-26-4 27193-28-8	0.4	N.D.	--	--

**T4A.2: MRSL - Polycyclic Aromatic Hydrocarbons (PAHs)**

Test Method: Refer to EPA 3550C:2007 & EPA 3650B:1996 & EPA 8270E:2018

No.	Test Item(s)	CAS No.	Reporting Limit (mg/kg-Dry weight)	Result (mg/kg-Dry weight)		
				S001	--	--
1	Acenaphthene	83-32-9	0.2	N.D.	--	--
2	Acenaphthylene	208-96-8	0.2	N.D.	--	--
3	Anthracene	120-12-7	0.2	N.D.	--	--
4	Benzo[a]anthracene	56-55-3	0.2	N.D.	--	--
5	Benzo[a]pyrene (BaP)	50-32-8	0.2	N.D.	--	--
6	Benzo[b]fluoranthene	205-99-2	0.2	N.D.	--	--
7	Benzo[e]pyrene	192-97-2	0.2	N.D.	--	--
8	Benzo[ghi]perylene	191-24-2	0.2	N.D.	--	--

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9	Benzo[j]fluoranthene	205-82-3	0.2	N.D.	--	--
10	Benzo[k]fluoranthene	207-08-9	0.2	N.D.	--	--
11	Chrysene	218-01-9	0.2	N.D.	--	--
12	Dibenz[a,h]anthracene	53-70-3	0.2	N.D.	--	--
13	Fluoranthene	206-44-0	0.2	N.D.	--	--
14	Fluorene	86-73-7	0.2	N.D.	--	--
15	Indeno[1,2,3-cd]pyrene	193-39-5	0.2	N.D.	--	--
16	Naphthalene	91-20-3	0.2	N.D.	--	--
17	Phenanthrene	85-01-8	0.2	N.D.	--	--
18	Pyrene	129-00-0	0.2	N.D.	--	--

**T4A.3: MRSL - Chlorotoluenes**

Test Method: EPA 3550C:2007 & EPA 8270E:2018

No.	Test Item(s)	CAS No.	Reporting Limit (mg/kg-Dry weight)	Result (mg/kg-Dry weight)		
				S001	--	--
1	Chlorotoluenes	Multiple	0.2	N.D.	--	--

**T4C.3: Conventional - Solids**

Test Method: HJ 613-2011

No.	Test Item	Reporting Limit (%)	Max Limit (%)	Result (%)		
				S001	--	--
1	Solids	--	Sample and report only	63.0	--	--

...End...

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