

TEST REPORT



Test Report No. 70.405.25.0052.01
Dated 2025-03-04

Applicant: JIANGYIN JIXIANG PRINTING AND DYEING CO.,LTD
Contact Person: Chendiwen (Phone No.: 18861801155)
Sample Description: R0001: Raw wastewater–light blue/turbidity
Date of Sample Received: 2025-02-19
Temperature of wastewater & sludge Received: 7C°
Maximum holding time: Not Exceeded
No. of Working Day(s): 9
Test Period: From 2025-02-19 to 2025-03-03
The average daily wastewater generated: 150-200m³
Supplier type under wastewater: Indirect discharge without pretreatment
The object of the wastewater & sludge treatment operation: Textile
Sludge Disposal Pathways: -
Retest No: -
Buyer: Benetton
Tests Conducted: As requested by the applicant, results refer to coming page(s).
Sample submission or sampling: Field sampling was carried out, see details in Field Data Record

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Testing Center
Prepared by:

Andy Wang

Andy Wang
Softlines Department

Authorized by:

Sherry Wang

Sherry Wang
Softlines Department

Note:

(1) Each order is subject to acceptance of our [General Terms and Conditions](#) and the [TÜV SÜD Testing, Certification, Validation and Verification Regulation](#), in the version valid at the time the contract is concluded. For full version of above both documents, please visit the link to view.

(2) The results in this report are relevant only to the sample(s) tested.

(3) The test report shall not be reproduced except in full without the written approval of the laboratory.

(4) Disclaimer Measurement Uncertainty:

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 or CNAS-GL015:2022.

(5) The testing report without CMA stamp is not legally binding and could only be used as internal reference material for the applicant. It shall not be provided as a notarial certification.

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SUMMARY OF TEST RESULTS- ANALYTICAL TEST

TEST REQUESTED	RESULT
Table 1A-1T: ZDHC MRSL Wastewater Parameters and Reporting Limits	R0001
1A) Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	□
1B) Anti- Microbials & Biocides	□
1C) Chlorinated Parafins	□
1D) Chlorobenzenes and Chlorotoluenes	□
1E) Chlorophenols	□
1F) Dimethyl Formamide (DMFa)	□
1G) Dyes – Carcinogenic or Equivalent Concern	□
1H) Dyes – Disperse (Allergenic)	□
1I) Dyes – Navy Blue Colourant	N/A
1J) Flame Retardants	□
1K) Glycols / Glycol Ethers	□
1L) Halogenated Solvents	□
1M) Organotin Compounds	□
1N) Other/Miscellaneous Chemicals	□
1O) Perfluorinated and Polyfluorinated Chemicals (PFCs)	□
1P) Phthalates – including all other esters of ortho-phthalic acid	□
1Q) Polycyclic Aromatic Hydrocarbons (PAHs)	□
1R) Restricted Aromatic Amines (Cleavable from Azo-colourants)	□
1S) UV Absorbers	□
1T) Volatile Organic Compounds (VOC)	□
Table 2: ZDHC Heavy Metals Wastewater Parameters and Limits	Refer to Page 18

Note/Key:
— ■ — Detected/ Fail
— □ — Not Detected/Pass
— - — Not Tested
— N/A — Not Applicable

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Sampling Plan:

Method of wastewater sampling used is composite sampling as per ZDHC Wastewater Guidelines Version 2.2. Wastewater was sampled by time-weighted composite grab samples to obtain a single mixed sample.

Photo of Sampling Points:



Raw Wastewater R0001 Sampling Point
Date & Time: 2025-02-18, 10:37 AM

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TEST RESULTS

Table 1A-1T: ZDHC MRSL Wastewater Parameters and Reporting Limits

1A Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers

Method for Analysis/Testing: With reference to Modified ASTM D7065-11, dichloromethane extraction and analyzed by LC-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	Nonylphenol ethoxylates (NPEO)	Multiple Including 9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0	ND	5	5
2	Nonylphenol (NP), mixed isomers	Multiple Including 104-40-5 11066-49-2 25154-52-3 84852-15-3	ND	5	5
3	Octylphenol ethoxylates (OPEO)	Multiple Including 9002-93-1 9036-19-5 68987-90-6	ND	5	5
4	Octylphenol (OP), mixed isomers	Multiple Including 140-66-9 1806-26-4 27193-28-8	ND	5	5

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
µg/L = microgram per liter

1B Anti- Microbials & Biocides

Method for Analysis/Testing:

o-Phenylphenol (+salts): Solvent extraction, derivatization and analyzed by GC-MS.

Others: With reference to Modified US EPA 8270E, Solvent extraction, derivatization and analyzed by GC-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	o-Phenylphenol (+salts)	90-43-7	ND	100	100
2	Triclosan	3380-34-5	ND	100	100
3	Permethrin	Multiple Including 52645-53-1	ND	500	500

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
µg/L = microgram per liter

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1C Chlorinated Paraffins

Method for Analysis/Testing: With reference to EPA 3510 and ISO 18219-1:2021; analyzed by NCI-GC-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	ND	500	500
2	Short-chain Chlorinated paraffin (SCCPs) (C10-C13)	85535-84-8	ND	25	25

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
µg/L = microgram per liter

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1D Chlorobenzenes and Chlorotoluenes

Method for Analysis/Testing: With reference to US EPA 8260B&EPA 8270E, analyzed by GC-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	1,2-Dichlorobenzene	95-50-1	ND	0.2	0.2
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	ND	0.2	0.2

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
µg/L = microgram per liter

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1E Chlorophenols

Method for Analysis/Testing: With reference to US EPA 8270E, derivatization and quantification by GC-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	2-chlorophenol	95-57-8	ND	0.5	0.5
2	3-chlorophenol	108-43-0	ND	0.5	0.5
3	4-chlorophenol	106-48-9	ND	0.5	0.5
4	2,3-dichlorophenol	576-24-9	ND	0.5	0.5
5	2,4-dichlorophenol	120-83-2	ND	0.5	0.5
6	2,5-dichlorophenol	583-78-8	ND	0.5	0.5
7	2,6-dichlorophenol	87-65-0	ND	0.5	0.5
8	3,4-dichlorophenol	95-77-2	ND	0.5	0.5
9	3,5-dichlorophenol	591-35-5	ND	0.5	0.5
10	2,3,4-trichlorophenol	15950-66-0	ND	0.5	0.5
11	2,3,5-trichlorophenol	933-78-8	ND	0.5	0.5
12	2,3,6-trichlorophenol	933-75-5	ND	0.5	0.5
13	2,4,5-trichlorophenol	95-95-4	ND	0.5	0.5
14	2,4,6-trichlorophenol	88-06-2	ND	0.5	0.5
15	3,4,5-trichlorophenol	609-19-8	ND	0.5	0.5
16	2,3,5,6-tetrachlorophenol	935-95-5	ND	0.5	0.5
17	2,3,4,6-tetrachlorophenol	58-90-2	ND	0.5	0.5
18	2,3,4,5-tetrachlorophenol	4901-51-3	ND	0.5	0.5
19	Pentachlorophenol (PCP)	87-86-5	ND	0.5	0.5

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
µg/L = microgram per liter

1F Dimethyl Formamide (DMFa)

Method for Analysis/Testing: With reference to US EPA 8270E, and analysis was performed by GC-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	Dimethyl formamide; N,N-dimethylformamide (DMFa)	68-12-2	ND	1000	1000

Remarks: LOQ = Level of Quantification
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µg/L = microgram per liter

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1G Dyes – Carcinogenic or Equivalent Concern

Method for Analysis/Testing: Solvent extraction, and analysis was performed by LC-MS-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	Basic violet 3 with >0.1% of Michler's Ketone	548-62-9	ND	500	500
2	C.I. Acid Red 26	3761-53-3	ND	500	500
3	C.I. Acid Violet 49	1694-09-3	ND	500	500
4	C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	ND	500	500
5	C.I. Basic Green 4 (Malachite Green Chloride)	569-64-2	ND	500	500
6	C.I. Basic Green 4 (Malachite Green Oxalate)	2437-29-8	ND	500	500
7	C.I. Basic Green 4 (Malachite Green)	10309-95-2	ND	500	500
8	C.I. Basic Red 9	569-61-9	ND	500	500
9	C.I. Basic Violet 14	632-99-5	ND	500	500
10	C.I. Direct Black 38	1937-37-7	ND	500	500
11	C.I. Direct Blue 6	2602-46-2	ND	500	500
12	C.I. Direct Red 28	573-58-0	ND	500	500
13	C.I. Disperse Blue 1	2475-45-8	ND	500	500
14	C.I. Disperse Blue 3	2475-46-9	ND	500	500
15	C.I. Disperse Orange 11	82-2 8-0	ND	500	500

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
µg/L = microgram per liter

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1H Dyes – Disperse (Allergenic)

Method for Analysis/Testing: Solvent extraction, and analysis was performed by LC-MS-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	Disperse Blue 102	12222-97-8	ND	50	50
2	Disperse Blue 106	12223-01-7	ND	50	50
3	Disperse Blue 124	61951-51-7	ND	50	50
4	Disperse Blue 26	3860-63-7	ND	50	50
5	Disperse Blue 35	12222-75-2	ND	50	50
6	Disperse Blue 35	56524-77-7	ND	50	50
7	Disperse Blue 7	3179-90-6	ND	50	50
8	Disperse Brown1	23355-64-8	ND	50	50
9	Disperse Orange 1	2581-69-3	ND	50	50
10	Disperse Orange 3	730-40-5	ND	50	50
11	Disperse Orange 37/59/76	13301-61-6	ND	50	50
12	Disperse Red 1	2872-52-8	ND	50	50
13	Disperse Red 11	2872-48-2	ND	50	50
14	Disperse Red 17	3179-89-3	ND	50	50
15	Disperse Yellow 1	119-15-3	ND	50	50
16	Disperse Yellow 3	2832-40-8	ND	50	50
17	Disperse Yellow 39	12236-29-2	ND	50	50
18	Disperse Yellow 49	54824-37-2	ND	50	50
19	Disperse Yellow 9	6373-73-5	ND	50	50

Remarks: LOQ = Level of Quantification
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µg/L = microgram per liter

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1J Flame Retardants

Method for Analysis/Testing:

For No. 1,2,8,9,10,11,12,13,17: with reference to US EPA 8321B:2007, analysis was performed by LC-MS

For No. 26,27,28,29,30: Digested with acid, analysed by ICP-OES or ICP-MS

For All Other Substances: with reference to US EPA 527:2009 and US EPA 8321B:2007, analysis was performed by GC-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	ND	25	25
2	Bis(2,3-dibromopropyl) phosphate (BDBPP)	5412-25-9	ND	25	25
3	Decabromodiphenyl ether (DecaBDE)	1163-19-5	ND	25	25
4	Hexabromocyclodecane (HBCDD)	3194-55-6	ND	25	25
5	Octabromodiphenyl ether (OctaBDE)	32536-52-0	ND	25	25
6	Pentabromodiphenyl ether (PentaBDE)	32534-81-9	ND	25	25
7	Polybromobiphenyls (PBB)	59536-65-1	ND	25	25
8	Tetrabromobisphenol A(TBBPA)	79-94-7	ND	25	25
9	Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	ND	25	25
10	Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	ND	25	25
11	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	ND	25	25
12	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	ND	25	25
13	Tris(2,3,-dibromopropyl- phosphate (TRIS)	126-72-7	ND	25	25
14	Decabromobiphenyl (DecaBB)	13654-09-6	ND	25	25
15	Dibromobiphenyls (DiBB)	Multiple	ND	25	25
16	Octabromobiphenyls (OctaBB)	Multiple	ND	25	25
17	Dibromopropylether	21850-44-2	ND	25	25
18	Heptabromodiphenyl ether(HeptaBDE)	68928-80-3	ND	25	25
19	Hexabromodiphenyl ether(HexaBDE)	36483-60-0	ND	25	25
20	Monobromobiphenyls(MonoBB)	Multiple	ND	25	25
21	Monobromodiphenylethers(MonoBDEs)	Multiple	ND	25	25
22	Nonabromobiphenyls(NonaBB)	Multiple	ND	25	25
23	Nonabromodiphenyl ether(NonaBDE)	63936-56-1	ND	25	25
24	Tetrabromodiphenyl ether(TetraBDE)	40088-47-9	ND	25	25
25	Tribromodiphenylethers(TriBDEs)	Multiple	ND	25	25
26	Boric acid*	10043-35-3 11113-50-1	ND	500	500
27	Diboron trioxide*	1303-86-2	ND	500	500
28	Disodium octaborate*	12008-41-2	ND	500	500
29	Disodium tetraborate anhydrous*	1303-96-4 1330-43-4	ND	500	500
30	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	ND	500	500

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
µg/L = microgram per liter
* The substances are expressed as respective elements boron.

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1K Glycols / Glycol Ethers

Method for Analysis/Testing: Dichloromethane extraction, and analyzed by GC-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	2-ethoxyethanol	110-80-5	ND	50	50
2	2-ethoxyethyl acetate	111-15-9	ND	50	50
3	2-methoxyethanol	109-86-4	ND	50	50
4	2-methoxyethylacetate	110-49-6	ND	50	50
5	2-methoxypropylacetate	70657-70-4	ND	50	50
6	Bis(2-methoxyethyl)-ether	111-96-6	ND	50	50
7	Ethylene glycol dimethyl ether	110-71-4	ND	50	50
8	Triethylene glycol dimethyl ether	112-49-2	ND	50	50

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
µg/L = microgram per liter

1L Halogenated Solvents

Method for Analysis/Testing: With reference to US EPA 8260 and analysis was performed by Purge and trap GC-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	1,2-dichloroethane	107-06-2	ND	1	1
2	Methylene chloride	75-09-2	ND	1	1
3	Tetrachloroethylene	127-18-4	ND	1	1
4	Trichloroethylene	79-01-6	ND	1	1

Remarks: LOQ = Level of Quantification
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1M Organotin Compounds

Method for Analysis/Testing: With reference to ISO 17353:2004, derivatization with sodium tetraethylborate, and analyzed by GC-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	Dipropyltin compounds (DPT)	Multiple including 867-36-7	ND	0.01	0.01
2	Mono-, di- and tri-butyltin derivatives	Multiple including 1118-46-3 1461-22-9	ND	0.01	0.01
3	Mono-, di- and tri-methyltin derivatives	Multiple including 993-16-8 753-73-1 1066-45-1	ND	0.01	0.01
4	Mono-, di- and tri-octyltin derivatives	Multiple including 3091-25-6 3542-36-7 2587-76-0	ND	0.01	0.01
5	Mono-, di- and tri-phenyltin derivatives	Multiple including 1124-19-2 1135-99-5 639-58-7	ND	0.01	0.01
6	Tetrabutyltin Compounds(TeBT)	Multiple including 1461-25-2	ND	0.01	0.01
7	Tripropyltin Compounds (TPT)	Multiple including 2279-76-7	ND	0.01	0.01
8	Tetraoctyltin Compounds(TeOT)	Multiple including 3590-84-9	ND	0.01	0.01
9	Tricyclohexyltin (TCyHT)	Multiple including 3091-32-5	ND	0.01	0.01
10	Tetraethyltin Compounds (TeET)	Multiple including 597-64-8	ND	0.01	0.01

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
µg/L = microgram per liter

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TEST REPORT



Test Report No. 70.405.25.0052.01

Dated 2025-03-04

1N Other/Miscellaneous Chemicals

Method for Analysis/Testing: Solvent extraction and analyzed by LC-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	AEEA [2-(2-aminoethylamino) ethanol]	111-41-1	ND	500	500
2	Bisphenol A	80-05-7	ND	10	10
3	Thiourea	62-56-6	ND	50	50
4	Quinoline	91-22-5	ND	50	50
5	Borate, zinc salt*	12767-90-7	ND	100	100

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
µg/L = microgram per liter
* The substances are expressed as respective elements boron and zinc.

1O Perfluorinated and Polyfluorinated Chemicals (PFCs)

Method for Analysis/Testing: Solid phase extraction and analyzed by LC-MS-MS.

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	Perfluorooctane sulfonate (PFOS) and related substances	Multiple including 1763-23-1	ND	0.01	0.01
2	Perfluorooctanoic acid (PFOA) and related substances	Multiple including 335-67-1	ND	1	1

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
µg/L = microgram per liter

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TEST REPORT



Test Report No. 70.405.25.0052.01

Dated 2025-03-04

1P Phthalates – including all other esters of ortho-phthalic acid

Method for Analysis/Testing: With reference to US EPA 8270E, analysis was performed by GC-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	1,2-benzenedicarboxylic acid di-C6-8 branched and linear alkyl esters. C7-rich (DIHP)	71888-89-6 84777-06-0	ND	10	10
2	1,2-benzenedicarboxylic acid di-C7-11 branched and linear alkyl esters (DHNUP)	68515-42-4 68515-50-4	ND	10	10
3	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND	10	10
4	Butyl benzyl phthalate (BBP)	85-68-7	ND	10	10
5	Di-cyclohexyl phthalate (DCHP)	84-61-7	ND	10	10
6	Di-iso-decyl phthalate (DIDP)	26761-40-0	ND	10	10
7	Di-iso-octyl phthalate (DIOP)	27554-26-3	ND	10	10
8	Di-isobutyl phthalate (DIBP)	84-69-5	ND	10	10
9	Di-isononyl phthalate (DINP)	28553-12-0	ND	10	10
10	Di-n-hexyl phthalate (DnHP)	84-75-3	ND	10	10
11	Di-n-octyl phthalate (DNOP)	117-84-0	ND	10	10
12	Di-n-pentylphthalates	131-18-0	ND	10	10
13	Di-n-propyl phthalate (DPRP)	131-16-8	ND	10	10
14	Di(ethylhexyl) phthalate (DEHP)	117-81-7	ND	10	10
15	Dibutyl phthalate (DBP)	84-74-2	ND	10	10
16	Diethyl phthalate (DEP)	84-66-2	ND	10	10
17	Diisopentylphthalates	605-50-5	ND	10	10
18	Dinonyl phthalate (DNP)	84-76-4	ND	10	10

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
µg/L = microgram per liter

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TEST REPORT



Test Report No. 70.405.25.0052.01

Dated 2025-03-04

1Q Polycyclic Aromatic Hydrocarbons (PAHs)

Method for Analysis/Testing: With reference to US EPA 8270E, and analysis was performed by GC-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	Acenaphthene	83-32-9	ND	1	1
2	Acenaphthylene	208-96-8	ND	1	1
3	Anthracene	120-12-7	ND	1	1
4	Benzo[a]anthracene	56-55-3	ND	1	1
5	Benzo[a]pyrene (BaP)	50-32-8	ND	1	1
6	Benzo[b]fluoranthene	205-99-2	ND	1	1
7	Benzo[e]pyrene	192-97-2	ND	1	1
8	Benzo[ghi]perylene	191-24-2	ND	1	1
9	Benzo[j]fluoranthene	205-82-3	ND	1	1
10	Benzo[k]fluoranthene	207-08-9	ND	1	1
11	Chrysene	218-01-9	ND	1	1
12	Dibenz[a,h]anthracene	53-70-3	ND	1	1
13	Fluoranthene	206-44-0	ND	1	1
14	Fluorene	86-73-7	ND	1	1
15	Indeno[1,2,3-cd]pyrene	193-39-5	ND	1	1
16	Naphthalene	91-20-3	ND	1	1
17	Phenanthrene	85-01-8	ND	1	1
18	Pyrene	129-00-0	ND	1	1

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
µg/L = microgram per liter

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TEST REPORT



Test Report No. 70.405.25.0052.01

Dated 2025-03-04

1R Restricted Aromatic Amines (Cleavable from Azo-colourants)

Method for Analysis/Testing: With reference to EPA 8270E and EN 14362-1:2012 & EN 14362-3:2012, analyzed by GC-MS, confirmation by HPLC/DAD or LC-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	2-naphthylamine	91-59-8	ND	0.1	0.1
2	2-Naphthylammoniumacetate	553-00-4	ND	0.1	0.1
3	2,4-xylydine	95-68-1	ND	0.1	0.1
4	2,4,5-trimethylaniline	137-17-7	ND	0.1	0.1
5	2,4,5-trimethylanilinehydrochloride	21436-97-5	ND	0.1	0.1
6	2,6-xylydine	87-62-7	ND	0.1	0.1
7	3,3'-dichlorobenzidine	91-94-1	ND	0.1	0.1
8	3,3-dimethoxybenzidine	119-90-4	ND	0.1	0.1
9	3,3-dimethylbenzidine	119-93-7	ND	0.1	0.1
10	4-aminoazobenzene	60-09-3	ND	0.1	0.1
11	4-aminodiphenyl	92-67-1	ND	0.1	0.1
12	4-chloro-o-toluidine	95-69-2	ND	0.1	0.1
13	4-chloro-o-toluidinium chloride	3165-933	ND	0.1	0.1
14	4-chloroaniline	106-47-8	ND	0.1	0.1
15	4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	ND	0.1	0.1
16	4-methoxy-m-phenylenediamine	615-054	ND	0.1	0.1
17	4-methyl-m-phenylenediamine	95-80-7	ND	0.1	0.1
18	4,4-methylene- bis-(2-chloro-aniline)	101-144	ND	0.1	0.1
19	4,4-methylenedi-o-toluidine	838-88-0	ND	0.1	0.1
20	4,4-methylenedianiline	101-77-9	ND	0.1	0.1
21	4,4-oxydianiline	101-80-4	ND	0.1	0.1
22	4,4-thiodianiline	139-65-1	ND	0.1	0.1
23	5-nitro-o-toluidine	9955-8	ND	0.1	0.1
24	6-methoxy-m-toluidine	120-71-8	ND	0.1	0.1
25	Benzidine	92-87-5	ND	0.1	0.1
26	o-aminoazotoluene	97-56-3	ND	0.1	0.1
27	o-anisidine	90-04-0	ND	0.1	0.1
28	o-toluidine	95-53-4	ND	0.1	0.1

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
µg/L = microgram per liter

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TEST REPORT



Test Report No. 70.405.25.0052.01

Dated 2025-03-04

1S UV Absorbers

Method for Analysis/Testing: With reference to US EPA 8270E, analysis was performed by GC-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	2-(2H-benzotriazol-2-yl)-4(tert-butyl)-6-(sec-butyl) phenol (UV350)	36437-37-3	ND	100	100
2	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	ND	100	100
3	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	ND	100	100
4	2,4-Di-tertbutyl-6-(5chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	ND	100	100

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
µg/L = microgram per liter

1T Volatile Organic Compounds (VOC)

Method for Analysis/Testing: With reference to US EPA 8260 and analysis was performed by Purge and trap GC-MS

No	Substances List	CAS No.	Result (µg/L)	LOQ (µg/L)	Requirement (µg/L)
			R0001		
1	Benzene	71-43-2	ND	1	1
2	m-cresol	108-39-4	ND	1	1
3	o-cresol	95-48-7	ND	1	1
4	p-cresol	106-44-5	ND	1	1
5	Xylene	1330-20-7	ND	1	1
6	Toluene	108-88-3	ND	1	1

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
µg/L = microgram per liter

TEST REPORT



Test Report No. 70.405.25.0052.01

Dated 2025-03-04

Table 2: ZDHC Heavy Metals Wastewater Parameters and Limits

Method for Analysis/Testing: For Chromium (VI): Acidification and analyzed by DPC IC-UV/Vis

For Mercury: Acid digestion and analyzed by ICP-MS

For Other Heavy Metals: with reference to Modified US EPA 6010 and US EPA 6020, acid digestion and analyzed by ICP-MS

No	Substances List	Result (mg/L)	LOQ (mg/L)	Requirement (mg/L)		
		R0001		Foundational	Progressive	Aspirational
1	Chromium (VI)	ND [Aspirational]	0.001	0.05	0.005	0.001
2	Arsenic	ND [Aspirational]	0.005	0.05	0.01	0.005
3	Cadmium	ND [Aspirational]	0.01	0.1	0.05	0.01
4	Lead	ND [Aspirational]	0.01	0.1	0.05	0.01
5	Mercury	ND [Aspirational]	0.001	0.01	0.005	0.001

Remarks: LOQ = Level of Quantification
ND = Non-Detect (Less than LOQ)
mg/L = milligram per liter

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TEST REPORT



Test Report No. 70.405.25.0052.01
Dated 2025-03-04

Field Data Record ZDHC Wastewater Quality Program

General Data

Customer Name: JIANGYIN JIXIANG PRINTING AND DYEING CO.,LTD
Field Contact Person: Zhu XinCheng (Phone No.: 13182781668)
Project (Facility Name and Address): JIANGYIN JIXIANG PRINTING AND DYEING CO.,LTD
NO.41 DIANCHANG ROAD SHANQUAN VILLAGE ZHOUSHUANG TOWN
JIANGYIN CITY JIANGSU PROVINCE

Sampling

Location/Description: R0001: Raw wastewater–light blue/turbidity
Sample Identification: R0001: Raw wastewater
Sample Type: R0001: Grab Sample & Time-Weighted Composite Samples
Name of Sampler: zdhc_sampler_cert_ZDHC-A-24-E-C001068-R4365-A45FA_Feng,Sheng
Date and time collected: 2025-02-18, start from 9:30 to 15:10
Factory Type: Textile Factory

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TEST REPORT



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Dated 2025-03-04

Field Data for Water

Equipment used	Measuring Cylinder, Thermometer, Cold Storage Device, PH Meter
Factory with effluent treatment plant	Yes

Sample matrix	Raw wastewater								
	Grab Samples	Composite sampling A	Composite sampling B	Composite sampling C	Composite sampling D	Composite sampling E	Composite sampling F	Composite sampling G	Composite sampling H
Recording Time	10:10	9:30	10:20	11:10	12:00	13:00	12:40	14:20	15:10
pH	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Temp((°C))	30.1	29.4	30.2	30.1	30.1	30.2	30.2	30.2	30.1
Color	light blue/ turbidity	light blue/ turbidity	light blue/ turbidity	light blue/ turbidity	light blue/ turbidity	light blue/ turbidity	light blue/ turbidity	light blue/ turbidity	light blue/ turbidity
Volume Collected (ml)	3000	1500	1500	1500	1500	1500	1500	1500	1500
Total Volume Collected	15L	Remark: Total volume collected must be greater than total of sample size required							

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TEST REPORT

Test Report No. **70.405.25.0052.01**
 Dated **2025-03-04**



Field Data Record Sheet

NO.: GCN-SFL-ZDHC-001 VERSION: 08 EFFECTIVE DATE: 2021-02-24	Field Data Record ZDHC Wastewater Quality Program ZDHC废水管理现场记录表	
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General Data				
Factory Name 工厂名称	Jiangyin Jixiang Printing And Dying Co.LTD.			
Factory Address 工厂地址	No.4. 41. Dianchang Road Shun Guan Village Zhou Zhuyang Town, Jiangsu			
Field Contact Person 现场联系人	朱新成	Phone No. 联系方式	13182781668	
Sample Pick Up Start/Stop Time 采样起/止时间		Weather 天气	7月	Temp (°C) 气温
Sampler Name/Email 采样员姓名/邮箱	Feng sheng sheng.feng@tuv.com	Sampler ZDHC Accredited No. ZDHC 采样员合 格证书编号	ZDHC-A-24-E- 001068-R4365- A45FA.	ZDHC Composite Sample Code ZDHC 复合样品代 码
Sampling Location 取样位置	Incoming Water 自来水			Location Photo 采样位置拍照
	Raw Wastewater 处理前污水	排污口		Location Photo 采样位置拍照
	After Treatment Wastewater 处理后污水			Location Photo 采样位置拍照
	Sludge 淤泥			Location Photo 采样位置拍照

The Average Daily Wastewater Generated(M3) 平均日废水排放量 (立方米) :				
Measurement (cm) 测量	Meter 米	Pipe (O)管道	Flume (U)水槽	Wier(V)阀门
Diameter 直径	NA			
Depth 深度	NA	NA	NA	

工厂周边情况/特殊取样情况备注 :

【采样前，请按样品类别相应要求进行准备及处理，见附录】

ZDHC Wastewater Sampling Field Testing QA/QC ZDHC 废水取样现场测试 QA/QC

TEST REPORT

Test Report No.

70.405.25.0052.01

Dated

2025-03-04



Field Data Record Sheet

NO.: GCN-SFL-ZDHC-001 VERSION: 08 EFFECTIVE DATE: 2021-02-24	Field Data Record ZDHC Wastewater Quality Program ZDHC废水管理现场记录表	
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Parameter 参数	LCS Known 对照样品标准值	LCS Measured 对照样品测量值	Accuracy% 误差
pH			
Total Chlorine			

Field Data for Incoming water 自来水采样记录						
	Sample No. 样品编号	Time 取样时间	pH value pH 值	Temperature 样品温度	Conventional Parameters 常规参数	Sample Description 样品描述
001 Incoming water 进水 (Grab Samples 抓取采样法)	附录中各个 001 样品				NA	

Field Data for Sludge 淤泥采样记录						
	Sample No. 样品编号	Time 取样时间	pH value pH 值	Temperature 样品温度	Conventional Parameters 常规参数	Sample Description 样品描述
004 Sludge 淤泥	附录中各个 004 样品		NA	NA	NA	

Field Data for Foam 气泡现象记录					
	Photos taking time and date 气泡图片 拍摄的时间和日期	Is the foam visible? 有看到气泡吗? (Y/N)	Is the foam color similar to the liquid in the aeration basin or dissipating? 气泡颜色与曝气池 内废水颜色相似或 气泡有消散吗? (Y/N)	Is the foam thicker than 45 cm? 气泡目测厚于 45 厘 米吗? (Y/N)	Is the foam contained within the aeration basin? 气泡是在曝气池范 围内吗? (Y/N)
Foam 气泡	2025/2/18	N	N	N	N

TEST REPORT

Test Report No. **70.405.25.0052.01**
 Dated **2025-03-04**



Field Data Record Sheet

NO.: GCN-SFL-ZDHC-001 VERSION: 08 EFFECTIVE DATE: 2021-02-24	Field Data Record ZDHC Wastewater Quality Program ZDHC废水管理现场记录表	
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Field Data for raw wastewater 处理前废水采样记录						
	Sample No. 样品编号	Time 取样时间	pH value pH 值	Temperature 样品温度	Conventional Parameters 常规参数	Sample Description 样品描述
002 Raw Wastewater 处理前污水 (Grab Samples 抓取采样法)	附录 002-6	10:10	4.7	30.1		浅兰/浑浊
	附录 002-7					
	附录 002-12					
	附录 002-15					
	附录 002-17					
	附录 002-18					
	附录 002-19					
Composite sampling A 混合取样 A	附录 002-1	9:30	4.7	29.4		浅兰/浑浊
	附录 002-2					
	附录 002-3					
	附录 002-4					
	附录 002-5					
	附录 002-8					
	附录 002-9					
	附录 002-10					
	附录 002-11					
	附录 002-13					
	附录 002-14					
	附录 002-16					
Composite sampling B 混合取样 B	附录 002-1	10:20	4.7	30.2		浅兰/浑浊
	附录 002-2					
	附录 002-3					
	附录 002-4					
	附录 002-5					
	附录 002-8					
	附录 002-9					
	附录 002-10					

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Field Data Record Sheet

NO.: GCN-SFL-ZDHC-001 VERSION: 08 EFFECTIVE DATE: 2021-02-24	Field Data Record ZDHC Wastewater Quality Program ZDHC废水管理现场记录表	
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	附录 002-11				
	附录 002-13				
	附录 002-14				
	附录 002-16				
Composite sampling C 混合取样 C	附录 002-1	11:10	4.7	30.1	洋兰/海洁
	附录 002-2				
	附录 002-3				
	附录 002-4				
	附录 002-5				
	附录 002-8				
	附录 002-9				
	附录 002-10				
	附录 002-11				
	附录 002-13				
Composite sampling D 混合取样 D	附录 002-1	12:00	4.7	30.1	洋兰/海洁
	附录 002-2				
	附录 002-3				
	附录 002-4				
	附录 002-5				
	附录 002-8				
	附录 002-9				
	附录 002-10				
	附录 002-11				
	附录 002-13				
Composite sampling E 混合取样 E	附录 002-1	13:00	4.7	30.2	洋兰/海洁
	附录 002-2				

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Field Data Record Sheet

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	附录 002-3				
	附录 002-4				
	附录 002-5				
	附录 002-8				
	附录 002-9				
	附录 002-10				
	附录 002-11				
	附录 002-13				
	附录 002-14				
	附录 002-16				
Composite sampling F 混合取样 F	附录 002-1	13:40	4.7	30.2	浅蓝/海池
	附录 002-2				
	附录 002-3				
	附录 002-4				
	附录 002-5				
	附录 002-8				
	附录 002-9				
	附录 002-10				
	附录 002-11				
	附录 002-13				
附录 002-14					
附录 002-16					
Composite sampling G 混合取样 G	附录 002-1	14:20	4.7	30.2	浅蓝/海池
	附录 002-2				
	附录 002-3				
	附录 002-4				
	附录 002-5				
	附录 002-8				
	附录 002-9				
	附录 002-10				

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Field Data Record Sheet

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	附录 002-11					
	附录 002-13					
	附录 002-14					
	附录 002-16					
Composite sampling H 混合取样 H	附录 002-1	15:10	4.7	30.1		泔水/海味
	附录 002-2					
	附录 002-3					
	附录 002-4					
	附录 002-5					
	附录 002-8					
	附录 002-9					
	附录 002-10					
	附录 002-11					
	附录 002-13					
	附录 002-14					
	附录 002-16					

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2025-1-18

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Field Data Record ZDHC Wastewater Quality Program

Quality Control

Sample type	Action(Y/N)	Amount	Action in lab	Action in field
Field blank	Y	500 ml	Fill all with distilled water (or water of corresponding salinity to sample). One sample is left in the laboratory as a control sample. Two samples are taken to the field—one as a field blank and one as a transport blank. The actions in the field are then carried out.	Field blank—open container in the field for a similar period of time as is required to take sample. Re-cap container and transport to laboratory for analysis
Transport blank	Y	500 ml		Transport blank—Carry a sealed sample container in the cooler with other samples. No other action necessary in the field. Return to laboratory for analysis.
Container blank	Y	500 ml	Fill a sample container with distilled water—do not rinse. Apply the preservation appropriate to samples taken in that container type. The sample is to be held in the laboratory for a similar period of time as the majority of samples are held before analysis.	None

-End of The Test Report-

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