TEST REPORT

SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number : SHAT08162241

Date : Oct 29, 2024

Factory's name	:	JIAXING XINQIAO DYEING AND FINISHING CO., LTD
Factory's address	:	NO.18 QIUMAO ROAD, WANGJIANG TOWN, XIUZHOU DISTRICT, JIAXING
Type of wastewater discharge	:	Indirect discharge
On-site Wastewater treatment plant	:	With pretreatment
Average total industrial wastewater generated	:	≥ 15m^3/day
Date and time of the beginning of sampling:		17 Oct, 2024 08:10
Date and time of the end of sampling:		17 Oct, 2024 14:20
Date received sample:		17 Oct, 2024 PM
Testing period:		From 17 Oct, 2024 PM to 28 Oct, 2024
Arrival temperature at laboratory:		5.6 °C
Sample type	:	
Sample / Untreated wastewater	:	Red, composite sample at 08:10, 09:10, 10:10, 11:10, 12:10, 13:10, 14:10 Sampling location: Latitude 30°50'37"N, Longitude 120°42'38"E
Sample / Effluent	:	Light red, composite sample at 08:15, 09:15, 10:15, 11:15, 12:15, 13:15, 14:15 Sampling location: Latitude 30°50'14"N, Longitude 120°42'46"E
Sample / Sludge	:	Brown, composite sample at 14:20 Sampling location: Latitude 30°50'10"N, Longitude 120°42'45"E
Sampling laboratory	:	Intertek Testing Services Ltd., Shanghai
Testing laboratory	:	Intertek Testing Services Ltd., Shanghai
ZDHC sampler accreditation certification number	:	C74D106817397

Tests conducted:
As requested by a brand program, for details refer to attached page(s).

Prepared And Checked By:
For Intertek Testing Services Ltd.,Shanghai

Nina Hu

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Technical Manager

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Summary of test results:

Wastewater / MRSL - Test items	Testing period	Untreated Wastewater
Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	From 18 Oct, 2024 to 28 Oct, 2024	ND
Anti-Microbials & Biocides	From 18 Oct, 2024 to 28 Oct, 2024	ND
Chlorinated Parafins	From 18 Oct, 2024 to 28 Oct, 2024	ND
Chlorobenzenes and Chlorotoluenes	From 18 Oct, 2024 to 28 Oct, 2024	ND
Chlorophenols	From 18 Oct, 2024 to 28 Oct, 2024	ND
Dimethyl Formamide (DMFa) (*)	From 18 Oct, 2024 to 28 Oct, 2024	ND
Dyes – Carcinogenic or Equivalent Concern	From 18 Oct, 2024 to 28 Oct, 2024	ND
Dyes – Disperse (Allergenic)	From 18 Oct, 2024 to 28 Oct, 2024	ND
Dyes – Navy Blue Colourant	From 18 Oct, 2024 to 28 Oct, 2024	ND
Flame Retardants	From 17 Oct, 2024 to 28 Oct, 2024	ND
Glycols / Glycol Ethers	From 18 Oct, 2024 to 28 Oct, 2024	ND
Halogenated solvents	From 18 Oct, 2024 to 28 Oct, 2024	ND
Organotin compounds	From 18 Oct, 2024 to 28 Oct, 2024	ND
Other/Miscellaneous Chemicals (^)	From 17 Oct, 2024 to 28 Oct, 2024	ND
Perfluorinated & Polyfluorinated chemicals (PFCs)	From 18 Oct, 2024 to 28 Oct, 2024	ND

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Wastewater / MRSL - Test items	Testing period	Untreated Wastewater
Phthalates (Ortho-phthalates)	From 18 Oct, 2024 to 28 Oct, 2024	ND
Polycyclic aromatic hydrocarbons (PAHs)	From 18 Oct, 2024 to 28 Oct, 2024	ND
Restricted Aromatic Amines (Cleavable from Azo-colourants)	From 18 Oct, 2024 to 28 Oct, 2024	ND
UV Absorbers	From 18 Oct, 2024 to 28 Oct, 2024	ND
Volatile Organic Compounds (VOC)	From 18 Oct, 2024 to 28 Oct, 2024	ND

Wastewater / Heavy metals - Test items	Testing period	Effluent		
		Foundational	Progressive	Aspirational
Chromium (VI)	From 17 Oct, 2024 to 21 Oct, 2024			Meet
Arsenic	From 17 Oct, 2024 to 21 Oct, 2024			Meet
Cadmium	From 17 Oct, 2024 to 21 Oct, 2024			Meet
Lead	From 17 Oct, 2024 to 21 Oct, 2024			Meet
Mercury	From 17 Oct, 2024 to 21 Oct, 2024			Meet

Sludge – Disposal Pathways
A

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Sludge / Heavy metals - Test items	Testing period	Sludge (Total)	Sludge (Leachate)
Antimony	From 17 Oct, 2024 to 21 Oct, 2024		Report only, refer data
Arsenic	From 17 Oct, 2024 to 21 Oct, 2024	Meet	
Barium	From 17 Oct, 2024 to 21 Oct, 2024	Meet	
Cadmium	From 17 Oct, 2024 to 21 Oct, 2024	Meet	
Cobalt	From 17 Oct, 2024 to 21 Oct, 2024	Meet	
Copper	From 17 Oct, 2024 to 21 Oct, 2024	Meet	
Lead	From 17 Oct, 2024 to 21 Oct, 2024	Meet	
Nickel	From 17 Oct, 2024 to 21 Oct, 2024		Report only, refer data
Selenium	From 17 Oct, 2024 to 21 Oct, 2024	Meet	
Silver	From 17 Oct, 2024 to 21 Oct, 2024	Meet	
Chromium (total)	From 17 Oct, 2024 to 21 Oct, 2024		Report only, refer data
Zinc	From 17 Oct, 2024 to 21 Oct, 2024	Meet	
Chromium VI	From 17 Oct, 2024 to 21 Oct, 2024	Meet	
Mercury	From 17 Oct, 2024 to 21 Oct, 2024	Meet	

Sludge / Anion - Test items	Testing period	Sludge
Cyanide	From 21 Oct, 2024 to 21 Oct, 2024	Report only, refer data

Sludge / Conventional parameters - Test items	Testing period	Sludge
pH	From 17 Oct, 2024 to 17 Oct, 2024	Report only, refer data[f]
% Solids	From 18 Oct, 2024 to 18 Oct, 2024	Report only, refer data
Paint filter test	From 17 Oct, 2024 to 17 Oct, 2024	Report only, refer data
Faecal coliform	From 17 Oct, 2024 to 21 Oct, 2024	Report only, refer data

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Sludge / MRSL - Test items	Testing period	Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	From 18 Oct, 2024 to 28 Oct, 2024	Report only, refer data
Polycyclic Aromatic Hydrocarbons (PAHs)	From 18 Oct, 2024 to 28 Oct, 2024	Report only, refer data
Chlorotoluenes	From 18 Oct, 2024 to 28 Oct, 2024	Report only, refer data

Note :
ND = Not detected (less than ZDHC reporting limit for MRSL parameters) / Not detected (less than lab reporting limit for other parameters)
D = Detected
N/A = Not applicable (Out of scope according to ZDHC WWSG v2.1)
NT = Not tested (Did not test according to applicant's request)
[S] = The samples were subcontracted to Intertek [xxxxx] for testing.
[T] = If sample temperature is greater than 8°C and less than 10°C when received from the laboratory.
[TT] = If sample temperature is exceeded 10°C when received from the laboratory.
@ = Maximum holding time exceeded.
(*) = Sample and report for mock leather. (^) = Borate, zinc salt would report ND when total boron or total zinc less than 100 µg/L.
[f] = On-site test by sampler.
[a] = The local legal standard name and legal standard no. is referenced to discharge permit (or contractual agree by CETP) that provided by applicant.
This report shown the test result of the environment samples of above factory which collected on specific date and time. The results of this report shall not be used for any regulatory compliance purposes.

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Tests Conducted (As Requested By The Applicant)
Sample / Wastewater

1 Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers:

NP/OP: modified from ISO 21084:2019 (LC-MS analysis).
OPEO/NPEO (n>2): modified from ISO 18254-1:2016 (GC-MS and LC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (μg/L)	Untreated wastewater	Unit
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	5	ND	μg/L
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	5	ND	μg/L
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	5	ND	μg/L
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	5	ND	μg/L

2 Anti- Microbials & Biocides:

o-Phenylphenol (+salts)：modified from GB/T 20386-2006 (GC-MS analysis).
Triclosan: modified from GB/T 35380-2018 (GC-MS analysis).
Permethrin: modified from EN71-9/10/11 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (μg/L)	Untreated wastewater	Unit
o-Phenylphenol (+salts)	90-43-7	100	ND	μg/L
Triclosan	3380-34-5	100	ND	μg/L
Permethrin	Multiple	500	ND	μg/L

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Tests Conducted (As Requested By The Applicant)

3 Chlorinated Parafins:

For MCCP: modified from ISO18219-2:2021 (GC-MS analysis).
For SCCP: modified from ISO18219-1:2021 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	ND	µg/L
Short-chain Chlorinated paraffin (C10 – C13)	85535-84-8	25	ND	µg/L

4 Chlorobenzenes And Chlorotoluenes:

Modified from EN 17137:2018 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
1,2-Dichlorobenzene	95-50-1	0.2	ND	µg/L
Other isomers of mono-, di-, tri-, tetra-, penta- and hexa- Chlorobenzene and mono-, di-, tri-, tetra- and penta-chlorotoluene	Multiple	0.2	ND	µg/L

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Tests Conducted (As Requested By The Applicant)

5 Chlorophenols:

Modified from DIN 50009:2021 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
2-Chlorophenol	95-57-8	0.5	ND	µg/L
3-Chlorophenol	108-43-0	0.5	ND	µg/L
4-Chlorophenol	106-48-9	0.5	ND	µg/L
2,3-Dichlorophenol	576-24-9	0.5	ND	µg/L
2,4-Dichlorophenol	120-83-2	0.5	ND	µg/L
2,5-Dichlorophenol	583-78-8	0.5	ND	µg/L
2,6-Dichlorophenol	87-65-0	0.5	ND	µg/L
3,4-Dichlorophenol	95-77-2	0.5	ND	µg/L
3,5- Dichlorophenol	591-35-5	0.5	ND	µg/L
2,3,4-Trichlorophenol	15950-66-0	0.5	ND	µg/L
2,3,5-Trichlorophenol	933-78-8	0.5	ND	µg/L
2,3,6-Trichlorophenol	933-75-5	0.5	ND	µg/L
2,4,5-Trichlorophenol	95-95-4	0.5	ND	µg/L
2,4,6-Trichlorophenol	88-06-2	0.5	ND	µg/L
3,4,5-Trichlorophenol	609-19-8	0.5	ND	µg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND	µg/L
Pentachlorophenol (PCP)	87-86-5	0.5	ND	µg/L

6 Dimethyl Formamide (DMFa):

Modified from ISO 16189:2021 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Dimethyl formamide; N,N-dimethylformamide (DMFa) (*)	68-12-2	1000	ND	µg/L

Remark : (*) = Sample and report for mock leather.

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7 Dyes – Carcinogenic or Equivalent Concern:

Modified from DIN 54231:2005 (LC-MS-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Basic violet 3 with >0.1% of Michler´s Ketone	548-62-9	500	ND	µg/L
C.I. Acid Red 26	3761-53-3	500	ND	µg/L
C.I. Acid Violet 49	1694-09-3	500	ND	µg/L
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	ND	µg/L
C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	ND	µg/L
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	ND	µg/L
C.I. Basic Green 4 (malachite green)	10309-95-2	500	ND	µg/L
C.I. Basic Red 9	569-61-9	500	ND	µg/L
C.I. Basic Violet 14	632-99-5	500	ND	µg/L
C.I. Direct Black 38	1937-37-7	500	ND	µg/L
C.I. Direct Blue 6	2602-46-2	500	ND	µg/L
C.I. Direct Red 28	573-58-0	500	ND	µg/L
C.I. Disperse Blue 1	2475-45-8	500	ND	µg/L
C.I. Disperse Blue 3	2475-46-9	500	ND	µg/L
Disperse Orange 11	82-28-0	500	ND	µg/L

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8 Dyes – Disperse (Allergenic):

Modified from DIN 54231:2005 (LC-MS-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Disperse Blue 102	12222-97-8	50	ND	µg/L
Disperse Blue 106	12223-01-7	50	ND	µg/L
Disperse Blue 124	61951-51-7	50	ND	µg/L
Disperse Blue 26	3860-63-7	50	ND	µg/L
Disperse Blue 35	12222-75-2 56524-77-7	50	ND	µg/L
Disperse Blue 7	3179-90-6	50	ND	µg/L
Disperse Brown 1	23355-64-8	50	ND	µg/L
Disperse Orange 1	2581-69-3	50	ND	µg/L
Disperse Orange 3	730-40-5	50	ND	µg/L
Disperse Orange 37/59/76	13301-61-6	50	ND	µg/L
Disperse Red 1	2872-52-8	50	ND	µg/L
Disperse Red 11	2872-48-2	50	ND	µg/L
Disperse Red 17	3179-89-3	50	ND	µg/L
Disperse Yellow 1	119-15-3	50	ND	µg/L
Disperse Yellow 3	2832-40-8	50	ND	µg/L
Disperse Yellow 39	12236-29-2	50	ND	µg/L
Disperse Yellow 49	54824-37-2	50	ND	µg/L
Disperse Yellow 9	6373-73-5	50	ND	µg/L

9 Dyes – Navy Blue Colourant:

Modified from DIN 54231:2005 (LC-MS-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	ND	µg/L
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	ND	µg/L

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Tests Conducted (As Requested By The Applicant)
10 Flame Retardants:

Other flame retardant substances: modified from ISO 17881-1:2016 & ISO 17881-2:2016 (GC-MS and LC-MS-MS analysis).
Borate salt: Modified from HJ 700-2014 (ICP-MS analysis)

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	25	ND	µg/L
Octabromodiphenyl ehter (OctaBDE)	32536-52-0	25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	25	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	ND	µg/L
Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	ND	µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	ND	µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	25	ND	µg/L
Octabromobiphenyls (OctaBB)	Multiple	25	ND	µg/L
Dibromopropylether	21850-44-2	25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	ND	µg/L
Monobromobiphenyls (MonoBB)	Multiple	25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Multiple	25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	25	ND	µg/L
Boric acid	10043-35-3 11113-50-1	100 in Boron	ND	µg/L
Diboron trioxide	1303-86-2	100 in Boron	ND	µg/L
Disodium octaborate	12008-41-2	100 in Boron	ND	µg/L
Disodium tetraborate anhydrous	1303-96-4 1330-43-4	100 in Boron	ND	µg/L
Tetraboron disodium heptaoxide, hydrate	12267-73-1	100 in Boron	ND	µg/L

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Tests Conducted (As Requested By The Applicant)

11 Glycols / Glycol Ethers:

Modified from T/CNTAC 66 Annex B.6 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
2-ethoxyethanol	110-80-5	50	ND	µg/L
2-ethoxyethyl acetate	111-15-9	50	ND	µg/L
2-methoxyethanol	109-86-4	50	ND	µg/L
2-methoxyethylacetate	110-49-6	50	ND	µg/L
2-methoxypropylacetate	70657-70-4	50	ND	µg/L
Bis(2-methoxyethyl)-ether	111-96-6	50	ND	µg/L
Ethylene glycol dimethyl ether	110-71-4	50	ND	µg/L
Triethylene glycol dimethyl ether	112-49-2	50	ND	µg/L

12 Halogenated Solvents:

Modified from USEPA 8260D (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
1,2-Dichloroethane	107-06-2	1	ND	µg/L
Methylene chloride	75-09-2	1	ND	µg/L
Tetrachloroethylene	127-18-4	1	ND	µg/L
Trichloroethylene	79-01-6	1	ND	µg/L

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Tests Conducted (As Requested By The Applicant)

13 Organotin Compounds:

Modified from ISO/TS 16179:2012 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Dipropyltin compounds (DPT)	Multiple	0.01	ND	µg/L
Mono-, di- and tri-butyltin derivatives	Multiple	0.01	ND	µg/L
Mono, di-, and tri-methyltin derivatives	Multiple	0.01	ND	µg/L
Mono, di-, and tri-octyltin derivatives	Multiple	0.01	ND	µg/L
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01	ND	µg/L
Tetrabutyltin compounds (TeBT)	Multiple	0.01	ND	µg/L
Tripropyltin Compounds (TPT)	Multiple	0.01	ND	µg/L
Tetraoctyltin compounds (TeOT)	Multiple	0.01	ND	µg/L
Tricyclohexyltin (TCyHT)	Multiple	0.01	ND	µg/L
Tetraethyltin Compounds (TeET)	Multiple	0.01	ND	µg/L

14 Other/Miscellaneous Chemicals:

AEEA: modified from T/CNTAC 66 Annex B.9 (GC-MS analysis).
Bisphenol A: modified from EN71-10/11 (LC-MS-MS analysis).
Thiourea: modified from T/CNTAC 66 Annex B.8 (LC-MS-MS analysis).
Quinoline: modified from GB/T 31531-2015 (GC-MS analysis).
Borate, zinc salt (^): modified from HJ 700-2014 (ICP-MS analysis)

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	ND	µg/L
Bisphenol A	80-05-7	10	ND	µg/L
Thiourea	62-56-6	50	ND	µg/L
Quinoline	91-22-5	50	ND	µg/L
Borate, zinc salt (^)	12767-90-7	100 in Boron & 100 in Zinc	Boron: ND Zinc: ND	µg/L

Remark : (^) = Report total boron & total zinc individually, and no conversion from boron / zinc salt.

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Tests Conducted (As Requested By The Applicant)
15 Perfluorinated & Polyfluorinated Chemicals (PFCs):

Modified from GB/T 29493.2-2021 (GC-MS and LC-MS-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	Multiple	0.01	ND	µg/L
Perfluorooctanoic acid (PFOA) related substances	Multiple	1	ND	µg/L

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Tests Conducted (As Requested By The Applicant)
16 Phthalates - Including All Other Esters Of Ortho - Phthalic Acid:

Modified from ISO 18856-2004 (GC-MS analysis).

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

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Tests Conducted (As Requested By The Applicant)
17 Polycyclic Aromatic Hydrocarbons (PAHs):

Modified from HJ 478-2009 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Acenaphthene	83-32-9	1	ND	µg/L
Acenaphthylene	208-96-8	1	ND	µg/L
Anthracene	120-12-7	1	ND	µg/L
Benzo[a]anthracene	56-55-3	1	ND	µg/L
Benzo[a]pyrene (BaP)	50-32-8	1	ND	µg/L
Benzo[b]fluoranthene	205-99-2	1	ND	µg/L
Benzo[e]pyrene	192-97-2	1	ND	µg/L
Benzo[ghi]perylene	191-24-2	1	ND	µg/L
Benzo[j]fluoranthene	205-82-3	1	ND	µg/L
Benzo[k]fluoranthene	207-08-9	1	ND	µg/L
Chrysene	218-01-9	1	ND	µg/L
Dibenz[a,h]anthracene	53-70-3	1	ND	µg/L
Fluoranthene	206-44-0	1	ND	µg/L
Fluorene	86-73-7	1	ND	µg/L
Indeno[1,2,3-cd]pyrene	193-39-5	1	ND	µg/L
Naphthalene	91-20-3	1	ND	µg/L
Phenanthrene	85-01-8	1	ND	µg/L
Pyrene	129-00-0	1	ND	µg/L

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Tests Conducted (As Requested By The Applicant)
18 Restricted Aromatic Amines (Cleavable from Azo-colourants):

Modified from ISO 14362-1:2017 and ISO 14362-3:2017 (GC-MS and LC-MS-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
2-Naphthylamine	91-59-8	0.1	ND	µg/L
2-Naphthylammoniumacetate	553-00-4	0.1	ND	µg/L
2,4-Xylidine	95-68-1	0.1	ND	µg/L
2,4,5-Trimethylaniline	137-17-7	0.1	ND	µg/L
2,4,5-Trimethylaniline hydrochloride	21436-97-5	0.1	ND	µg/L
2,6-Xylidine	87-62-7	0.1	ND	µg/L
3,3'-Dichlorobenzidine	91-94-1	0.1	ND	µg/L
3,3'-Dimethoxybenzidine	119-90-4	0.1	ND	µg/L
3,3'-Dimethylbenzidine	119-93-7	0.1	ND	µg/L
4-Aminoazobenzene	60-09-3	0.1	ND	µg/L
4-Aminodiphenyl	92-67-1	0.1	ND	µg/L
4-Chloro-o-toluidine	95-69-2	0.1	ND	µg/L
4-Chloro-o-toluidinium chloride	3165-93-3	0.1	ND	µg/L
4-Chloroaniline	106-47-8	0.1	ND	µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	ND	µg/L
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND	µg/L
4-methyl-m-phenylenediamine	95-80-7	0.1	ND	µg/L
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	ND	µg/L
4,4′-methylenedi-o-toluidine	838-88-0	0.1	ND	µg/L
4,4′-methylenedianiline	101-77-9	0.1	ND	µg/L
4,4'-Oxydianiline	101-80-4	0.1	ND	µg/L
4,4'-Thiodianiline	139-65-1	0.1	ND	µg/L
5-Nitro-o-toluidine	99-55-8	0.1	ND	µg/L
6-methoxy-m-toluidine	120-71-8	0.1	ND	µg/L
Benzidine	92-87-5	0.1	ND	µg/L
o-Aminoazotoluene	97-56-3	0.1	ND	µg/L
o-Anisidine	90-04-0	0.1	ND	µg/L
o-Toluidine	95-53-4	0.1	ND	µg/L

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Tests Conducted (As Requested By The Applicant)

19 UV Absorbers:

Modified from ISO 24040:2022 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec- butyl) phenol (UV-350)	36437-37-3	100	ND	µg/L
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100	ND	µg/L
2-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320)	3846-71-7	100	ND	µg/L
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	ND	µg/L

20 Volatile Organic Compounds (VOCs):

m, o, p-cresol: modified from DIN 50009:2021 (GC-MS analysis).
Benzene ,Xylene and Toluene: HJ 639-2012 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Benzene	71-43-2	1	ND	µg/L
m-cresol	108-39-4	1	ND	µg/L
o-cresol	95-48-7	1	ND	µg/L
p-cresol	106-44-5	1	ND	µg/L
Xylene	1330-20-7	1	ND	µg/L
Toluene (*)	108-88-3	1	ND	µg/L

Remark : (*) = Sample and report for mock leather.

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Tests Conducted (As Requested By The Applicant)
21 Heavy Metals:

Chromium (VI): GB 7467 (UV/VIS analysis).
Mercury: HJ 694 (AFS analysis).
Other heavy metals: HJ 700 (ICP-MS analysis).

Chemical substances	Limit			Lab reporting limit (mg/L)	Effluent	Unit
	Foundational	Progressive	Aspirational			
Chromium (VI)	0.05 mg/L	0.005 mg/L	0.001 mg/L	0.001	ND	mg/L
Arsenic	0.05 mg/L	0.01 mg/L	0.005 mg/L	0.005	ND	mg/L
Cadmium	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	ND	mg/L
Lead	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	ND	mg/L
Mercury	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.001	ND	mg/L

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Tests Conducted (As Requested By The Applicant)
Sample / Sludge

Sludge flux (weight/time) and / or flow data volume/time: *1.5 t/d*

1 Heavy Metals:

Barium, Selenium, Silver: modified from T/CNTAC 66 Annex B.3 (ICP/OES analysis).
Chromium VI: HJ 1082-2019 (AAS analysis).
Mercury: modified from EPA 3051a & 6020b (ICP-MS analysis).
Other heavy metals: HJ 803-2016 (ICP-MS analysis).

Chemical substances	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Antimony	5	5	1114	mg/kg
Arsenic	5	5	ND	mg/kg
Barium	200	200	ND	mg/kg
Cadmium	1	1	ND	mg/kg
Cobalt	400	400	ND	mg/kg
Copper	50	50	ND	mg/kg
Lead	5	5	ND	mg/kg
Nickel	20	20	103	mg/kg
Selenium	5	5	ND	mg/kg
Silver	50	50	ND	mg/kg
Total Chromium	50	50	292	mg/kg
Zinc	400	400	ND	mg/kg
Chromium (VI)	20	20	ND	mg/kg
Mercury	1	1	ND	mg/kg

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Tests Conducted (As Requested By The Applicant)

2 Leachate heavy metals:

Chromium VI: modified from USEPA 3060B and USEPA 7196 (UV/VIS analysis).
Other heavy metals: Modified from ISO 16711-2 (ICP-MS analysis).

Chemical substances	Lab reporting limit (mg/L)	Sludge	Unit
Arsenic	0.5	-	mg/L
Cadmium	0.15	-	mg/L
Total Chromium	5	ND	mg/L
Lead	0.5	-	mg/L
Antimony	0.6	ND	mg/L
Barium	35	-	mg/L
Cobalt	80	-	mg/L
Copper	10	-	mg/L
Nickel	3.5	ND	mg/L
Selenium	0.5	-	mg/L
Silver	5	-	mg/L
Zinc	50	-	mg/L
Chromium (VI)	2.5	-	mg/L
Mercury	0.05	-	mg/L

3 Anions:

Modified from HJ 745 (UV/VIS analysis).

Chemical substances	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Cyanide	20	20	ND	mg/kg

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Tests Conducted (As Requested By The Applicant)
4 Conventional Parameters:

Chemical substances	Test method	Lab reporting limit (Dry weight)	Sludge (Dry weight)	Unit
pH	HJ962	N/A	4.60[f]	N/A
% Solids	HJ613	N/A	42.8	%
Paint Filter Test^	USEPA 9095B	N/A	Pass	N/A
Fecal Coliform	USEPA 1681	10	ND	MPN/g

Remark : ^ - Report "Pass" when Paint Filter Test does not contain free liquid; Report "Fail" when Paint Filter Test does contain free liquid.

5 Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers:

NP/OP: modified from ISO 21084:2019 (LC-MS analysis).
OPEO/NPEO (n>2): Modified from ISO 18254-1:2016 (GC-MS and LC-MS analysis).

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	0.4	ND	mg/kg
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	0.4	ND	mg/kg
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	0.4	ND	mg/kg
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	0.4	ND	mg/kg

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Tests Conducted (As Requested By The Applicant)

6 Polycyclic Aromatic Hydrocarbons (PAHs):

Modified from HJ 805-2016 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Acenaphthene	83-32-9	0.2	ND	mg/kg
Acenaphthylene	208-96-8	0.2	ND	mg/kg
Anthracene	120-12-7	0.2	ND	mg/kg
Benzo[a]anthracene	56-55-3	0.2	ND	mg/kg
Benzo[a]pyrene (BaP)	50-32-8	0.2	ND	mg/kg
Benzo[b]fluoranthene	205-99-2	0.2	ND	mg/kg
Benzo[e]pyrene	192-97-2	0.2	ND	mg/kg
Benzo[ghi]perylene	191-24-2	0.2	ND	mg/kg
Benzo[j]fluoranthene	205-82-3	0.2	ND	mg/kg
Benzo[k]fluoranthene	207-08-9	0.2	ND	mg/kg
Chrysene	218-01-9	0.2	ND	mg/kg
Dibenz[a,h]anthracene	53-70-3	0.2	ND	mg/kg
Fluoranthene	206-44-0	0.2	ND	mg/kg
Fluorene	86-73-7	0.2	ND	mg/kg
Indeno[1,2,3-cd]pyrene	193-39-5	0.2	ND	mg/kg
Naphthalene	91-20-3	0.2	ND	mg/kg
Phenanthrene	85-01-8	0.2	ND	mg/kg
Pyrene	129-00-0	0.2	ND	mg/kg

7 Chlorotoluenes:

Modified from EN 17137:2018 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Other isomers of mono-, di-, tri-, tetra- and penta- chlorotoluene	Multiple	0.2	ND	mg/kg

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Tests Conducted (As Requested By The Applicant)
Appendix 1: reference to ZDHC WWSG v2.1 Table 4B

Parameters		Disposal pathways						
	Total metals and anions threshold values (mg/kg)	A and B (Leachate result in mg/L)	C (Leachate result in mg/L)	D (Leachate result in mg/L)	E (Leachate result in mg/L)	F (Leachate result in mg/L)	G (Leachate result in mg/L)	G (Total metals limit in mg/kg)
Arsenic	10	Report only if required to test	5	2.75	0.5	0.5	0.5	75
Cadmium	3		1	0.58	0.15	0.15	0.15	85
Total Chromium	100		15	10	5	5	5	3000
Lead	10		5	2.75	0.5	0.5	0.5	840
Antimony	12		15	7.8	0.6	0.6	0.6	Sample and report only
Barium	700		100	67.5	35	35	35	
Cobalt	1600		80	80	80	80	80	
Copper	200		25	17.5	10	10	10	4300
Nickel	70		20	11.75	3.5	3.5	3.5	420
Selenium	10		1	0.75	0.5	0.5	0.5	100
Silver	100		5	5	5	5	5	Sample and report only
Zinc	1000		250	150	50	50	50	7500
Chromium VI	50		5	3.75	2.5	2.5	2.5	50
Mercury	1		0.2	0.125	0.05	0.05	0.05	57

Appendix 2: reference to ZDHC WWSG v2.1 Table 4C

Parameters	Disposal pathways					
	A and B	C	D	E	F	G
pH	Sample and report only	5 – 11 s.u.	5 – 11 s.u.	5 – 11 s.u.	6.5 – 9 s.u.	6.5 – 9 s.u.
% Solids		Sample and report only	Sample and report only	Sample and report only	Sample and report only	Sample and report only
Fecal Coliform					< 1000 (MPN/g)	
Paint Filter Test			Pass Paint filter test			Sample and report only
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers			< 0.4 mg/kg			
Polycyclic Aromatic Hydrocarbons (PAHs)			< 0.2 mg/kg			
Chlorotoluenes						

Appendix 3: reference to ZDHC WWSG v2.1 Table 4D

Parameters	Disposal pathways					
	A and B	C	D	E	F	G
Cyanide	Report only if required to test	100 mg/kg	85 mg/kg	70 mg/kg	70 mg/kg	70 mg/kg

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TEST REPORT

SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

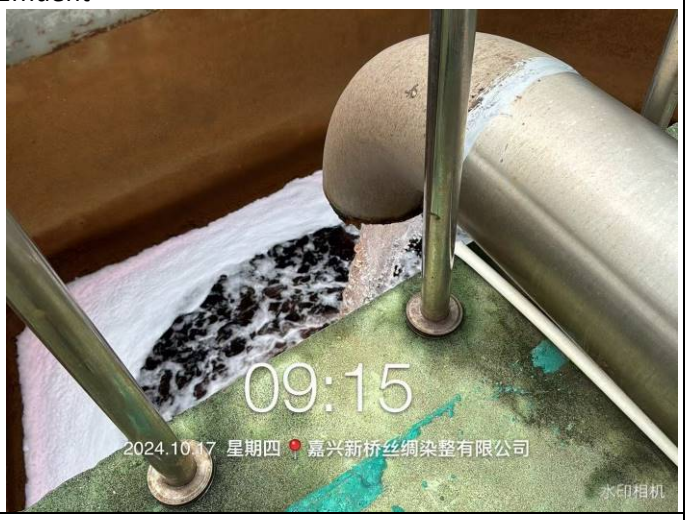
Number : SHAT08162241

Tests Conducted (As Requested By The Applicant)

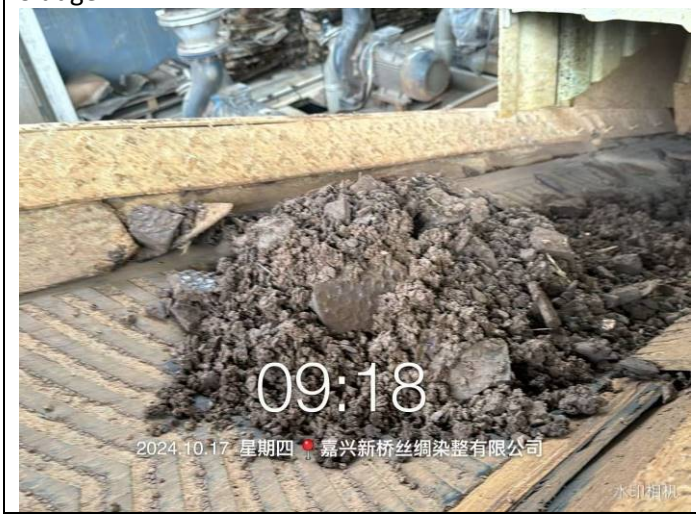
Photo of sampling points:

Untreated wastewater

Effluent



Sludge



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TEST REPORT

SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number : SHAT08162241

Tests Conducted (As Requested By The Applicant)

Photo of samples:

Untreated wastewater 	Effluent 
Sludge 	

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TEST REPORT

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Tests Conducted (As Requested By The Applicant)

Attachment – sampling protocol for wastewater & sludge:

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Sampling Protocol for Wastewater and Sludge acc. ZDHC SAP 2.1 incl. Apdx. E

Facility Name 嘉兴轩杨丝绸染整有限公司

Address and Contact: 嘉兴市秀洲区王江泾镇秋花路18号

Facility type : (tick all applicable) ☑ Dyeing and Finishing ☐ Fabric Mill ☐ Laundry, Washing and Finishing ☐ Natural Leather processing ☐ Printing ☐ Synthetic Leather processing

Date of sampling: 2024.10.11

Sample General ID (if applicable): 8162241

☐ direct discharge ☑ indirect discharge ☐ Zero Liquid Discharge (ZLD) ☐ MMCF ☑ with pre-treatment ☐ without treatment ☑ with own ETP discharge to:

Discharge description: 嘉兴市秀洲区王江泾镇工业集聚区污水处理厂

Weather conditions: on sampling day: 阴 on day before: 阴

Fill in all above information as applicable.

Sample Type and Details (see also page 2)

☐ Effluent Discharge ○ direct: or ☑ indirect
Enter sampling times in Sample Details (page 2), and measure field parameters.
Enter sampling time(s) for Indirect discharge. Field parameters are not required, except on client's request.
○ Facility has WWTP ○ Plant is in operating condition
◇ with Equalisation Tank (EQT) present:
Hydraulic Retention Time (HRT): < 12 h
(= Volume of tank [m³] / Flow rate [m³/h])
If HRT > 12h, grab sampling from EQT is allowed.

☐ Pre-treated WW without sludge ☑ Untreated WW ◇ with Equalisation Tank (EQT) present: HRT: < 12 h (= Volume of tank [m³] / Flow rate [m³/h]) If HRT > 12h, grab sampling from EQT is allowed ☐ Incoming Water ☐ MMCF

☑ Sludge with below disposal pathway*): age of sludge : days / weeks

☑ A	○ B	○ C	○ D	○ E	○ F	○ G
>1000 °C offsite incineration	Landfill with significant control	Building products processed >1000 °C	Landfill with limited control	Incineration / Building products processed <1000 °C	Landfill with no control	Land application

*) if supplier cannot provide information, pathway "F" shall be assumed.

Sludge volume generated: 1.5 ○m³/h ○L/sec ○ other unit (specify): t/d ○ per facility info ○ measured ○ estimated

☐ Process Chemical ○ liquid ○ solid (powder/granulate/pieces) ◇ from running process ◇ from warehouse/storage

Times of sampling (if applicable)

Untreated:	1 8:10	2 9:10	3 10:10	4 11:10	5 12:10	6 13:10	7 14:10	or Grab (HRT>12h):
Effluent (indirect) 1):	1 8:15	2 9:15	3 10:15	4 11:15	5 12:15	6 13:15	7 14:15	or Grab (HRT>12h):
Incoming: 2)	1	2	3	4	5	6	7	or Grab2) (HRT>12h):
Sludge (liquid):	1	2	3	4	5	6	7	Solid sludge: 14:20

1) for direct discharge, see p. 2
2) take grab sample for tap water, river water, and industrial treated river water without EQT; recycled water from EQT <12h must be composite.

Picture ID (or Date & Time / Interval): IMG_6086 ~ 6080

GPS coordinates of sampling points:

Incoming W.:	Lat.: ON OS	Long.: OE OW
Untreated WW:	Lat.: ON OS 30°50'37''	Long.: OE OW 120°42'38''
Effluent:	Lat.: ON OS 30°50'14''	Long.: OE OW 120°42'48''
Sludge:	Lat.: ON OS 30°50'10''	Long.: OE OW 120°42'45''

Rev 10b-4b - use with Guideline CS009.TP (Issue 10b) Page 1 of 3 Effective Date: 04-Sept-2023

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SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number : SHAT08162241

Tests Conducted (As Requested By The Applicant)

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Sample Details *) Field parameters usually are only required for direct discharge. If client requests also for indirect discharge, use below fields.

☐ Composite Sample ☐ Grab Sample (only allowed from EQT of Effluent with HRT>12h) (enter data in column for Averaged Readings and in field at right) Volume of aliquot(s): mL

Time of discrete effluent sample **	1	2	3	4	5	6	7	Averaged Readings or Grab Sample readings:
pH:								
Temp. WW discharge	°C	°C	°C	°C	°C	°C	°C	°C
of receiving water	°C	°C	°C	°C	°C	°C	°C	°C
Flow rate:	L/s	L/s	L/s	L/s	L/s	L/s	L/s	m³/d avg.
Dissolved Oxygen:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Total Chlorine:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Persistent foam:	O yes O no	O yes O no	O yes O no	O yes O no	O yes O no	O yes O no	O yes O no	

**) time when discrete sample for composite was taken. Use comment field if number of samples is greater than seven, or if above fields are otherwise not sufficient.
Note: 1.0 m³/h = 0.27 L/s ; 1.0 L/s = 86.4 m³/d; 1 m³/h = 0.042 m³/d; multiply the flow rate in m³/h by the daily operation time of the ETP to get flow rate in m³/d;

Sampling procedure: O automated sampling ☒ with beaker/bowl O other:

Wastewater Flow Data (Effluent/Discharge)

System: ☐ Flow meter (in facility) ☐ Pipe (O) ☐ Flume (U) ☐ Wier (V)

Diameter [cm]

Water Depth [cm]

Flow Speed [cm/sec]

General Field Parameters and Sensory Data (enter as far as applicable)

Type incoming	T ambient air [°C]	Odour	Colour	Foaming	Floating matter
				O yes O no	O yes O no
Untreated	26		红	O yes O no	O yes O no
Effluent	26		棕红	O yes O no	O yes O no
Sludge	26		棕.		

Field Testing QA/QC

Parameter	Lab Control Sample target value	Lab Control Sample measured value	Accuracy [%]
pH			
Total Chlorine			

Other observations:

污水排放量：2000m³/d
污水pH：4.60

Additional notes (e.g., alternatively measured flow and readings, abbreviations used, etc):

Rev 10b-4b - use with Guideline CS009.TP (Issue 10b) Page 2 of 3 Effective Date: 04-Sept-2023

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TEST REPORT

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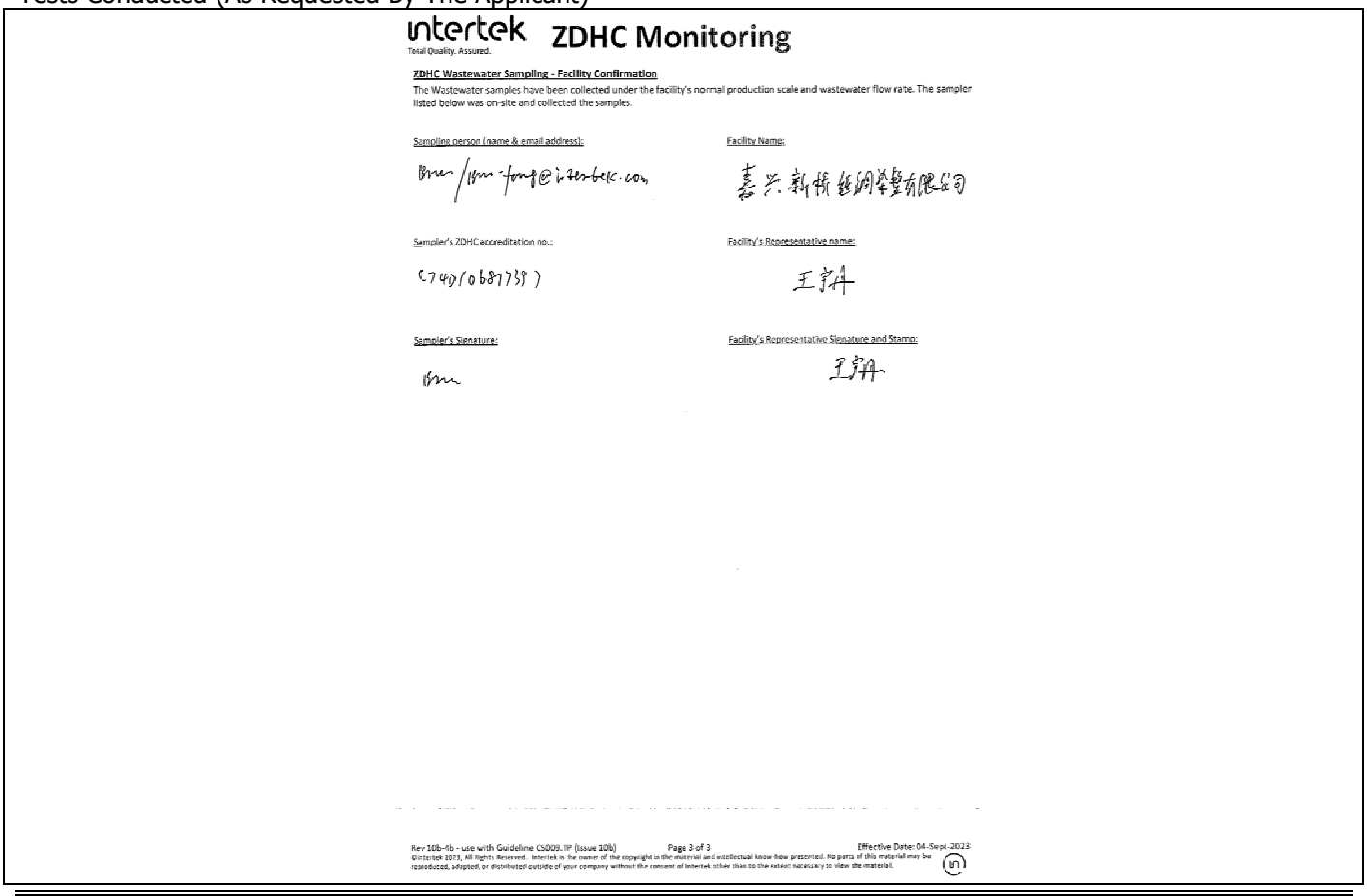
Number : SHAT08162241

Tests Conducted (As Requested By The Applicant)



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ZDHC Wastewater Sampling - Facility Confirmation

The Wastewater samples have been collected under the facility's normal production scale and wastewater flow rate. The sampler listed below was on-site and collected the samples.

Sampling person (name & email address):

Facility Name:

Sampler's ZDHC accreditation no.:

Facility's Representative name:

Sampler's Signature:

Facility's Representative Signature and Stamp:

Rev 10b-4b - use with Guideline CS009.TP (Issue 10b) Page 3 of 3 Effective Date: 04-Sept-2023

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End of Report

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