

SOFTLINES WASTEWATER TESTING

TEST REPORT

Number:SHAT07899364

Date of sampling	28 Feb, 2024
Reporting Date	06 Mar, 2024

Audit ID	164335	Audit firm	INTERTEK - CHINA NORTH
Company name	HANGZHOU HANGMIN MEISHIDA PRINTING & DYEING CO.,LTD.		
Contact person	HELEN ZHAO		
Type of tax - tax ID no	913301097823905165		
Address	238#shenghong road,Guali town,Xiaoshan district,Hangzhou city		
Region state province	ZHEJIANG		
Town city / village	HANGZHOU		
Zip/Post code	311243		
Country	MAINLAND CHINA		

Type of wastewater discharge				
Type of wastewater discharge:	Indirect discharge			
On-site effluent treatment plant (ETP):	YES			
Pre - treatment:	YES			
	Preliminary	Primary	Secondary/Biological	Tertiary
	<input checked="" type="checkbox"/> Screening/	<input checked="" type="checkbox"/> Coagulation/Flocculation	<input type="checkbox"/> Activated sludge	<input type="checkbox"/> Absorption with activated
	<input checked="" type="checkbox"/> Homogenization tank	<input checked="" type="checkbox"/> Dissolved air flotation	<input checked="" type="checkbox"/> Biological Biofilm	<input type="checkbox"/> High rate filtration
	<input checked="" type="checkbox"/> pH correction	<input checked="" type="checkbox"/> Sedimentation tanks or	<input type="checkbox"/> BSequencing batch reactor (SBR)	<input type="checkbox"/> Advanced oxidation techniques
<input type="checkbox"/> Other	<input type="checkbox"/> Other	<input type="checkbox"/> Other	<input type="checkbox"/> (Ozone, Fenton reaction, photo catalytic degradation...)	
<input type="checkbox"/> None			<input type="checkbox"/> Other	
Description of discharge:	The water is discharged into the sewage system for further treatment on External ETP (receiving ETP name: 萧山临江污水处理厂)			
[If direct discharge] ambient temperature of receiving water body (°C):	-			
Average total industrial wastewater generated (m3/day):	2000 m3/day			

Sludge Disposal Pathway	A
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Sampler accreditation certification number (ZDHC):		C74D106817397	
Sample description	Simple	Composite	Comments
(1) Untreated wastewater (BT)		Sample (1) A:Yellow, composite sample at 08:20, 09:20, 10:20, 11:20, 12:20, 13:20, 14:20 Sampling location: Latitude 30°11'56"N, Longitude 120°24'6"E Sample (1) B:Blue, composite sample at 08:15, 09:15, 10:15, 11:15, 12:15, 13:15, 14:15 Sampling location: Latitude 30°11'56"N, Longitude 120°24'29"E	Sample (1) A: High-concentration wastewater Sample (1) B: Low-concentration wastewater
(2) Effluent (AT)		Yellow, composite sample at 08:10, 09:10, 10:10, 11:10, 12:10, 13:10, 14:10 Sampling location: Latitude 30°11'18"N, Longitude 120°24'50"E	
(3) Sludge		Grey, composite sample at 13:30 Sampling location: Latitude 30°11'22"N, Longitude 120°24'2"E	



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Local Legal Data	
Local Legal Standard name [a]	Discharge standards of water pollutants for dyeing and finishing of textile industry
Local legal standard no. [a]:	GB 4287-2012
Parameters (ZDHC WWSG V2.1, Table 2-3) exceeded local regulation:	-
Discharge permit provided:	Yes

Internal description – Intertek Lab Issuing Final Test Report	
Sampling laboratory	Intertek Testing Services Ltd., Shanghai
Testing laboratory	Intertek Testing Services Ltd., Shanghai
Date received sample	28 Feb, 2024 PM
Date and time of the beginning of sampling	28 Feb, 2024 08:10
Date and time of the end of sampling	28 Feb, 2024 14:20
Testing period	28 Feb, 2024 PM to 05 Mar, 2024
Reporting date	06 Mar, 2024
Arrival Temperature at Lab	3.4 °C
Internal codification number	
Reference sample number	SHAT07899364
Comments	-



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Summary of test results			
Wastewater/ MRSL - Test items	Testing period	Sample 1A (untreated)	Sample 1B (untreated)
Alkylphenols (APs) & Alkylphenol ethoxylates (APEOs)	From 29 Feb, 2024 to 05 Mar, 2024	D	ND
Anti - Microbials & Biocides	From 29 Feb, 2024 to 05 Mar, 2024	ND	ND
Chlorinated parafins	From 29 Feb, 2024 to 05 Mar, 2024	ND	ND
Chlorobenzenes and Chlorotoluenes	From 29 Feb, 2024 to 05 Mar, 2024	ND	ND
Chlorophenols	From 29 Feb, 2024 to 05 Mar, 2024	ND	ND
Dimethyl Formamide (DMFa) (*)	From 29 Feb, 2024 to 05 Mar, 2024	ND	ND
Dyes – Carcinogenic or Equivalent Concern	From 29 Feb, 2024 to 05 Mar, 2024	ND	ND
Dyes – Disperse (Allergenic)	From 29 Feb, 2024 to 05 Mar, 2024	ND	ND
Dyes-Navy Blue Colourant	From 29 Feb, 2024 to 05 Mar, 2024	ND	ND
Flame retardants	From 29 Feb, 2024 to 05 Mar, 2024	D	D
Glycols	From 29 Feb, 2024 to 05 Mar, 2024	ND	ND
Halogenated solvents	From 29 Feb, 2024 to 05 Mar, 2024	ND	ND
Organotin compounds	From 29 Feb, 2024 to 05 Mar, 2024	ND	ND
Other/Miscellaneous Chemicals (^)	From 29 Feb, 2024 to 05 Mar, 2024	D	D
Perfluorinated chemicals (PFCs)	From 29 Feb, 2024 to 05 Mar, 2024	D	D
Phthalates	From 29 Feb, 2024 to 05 Mar, 2024	ND	ND
Polycyclic aromatic hydrocarbons (PAHs)	From 29 Feb, 2024 to 05 Mar, 2024	ND	ND
Restricted Aromatic Amines (Cleavable from Azo- colourants) Azo dyes	From 29 Feb, 2024 to 05 Mar, 2024	ND	ND
UV Absorbers	From 29 Feb, 2024 to 05 Mar, 2024	ND	ND
Volatile organic compounds (VOCs)	From 29 Feb, 2024 to 05 Mar, 2024	ND	ND



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Wastewater / Heavy metals - Test items	Testing period	Sample 2 (effluent)		
		Foundational	Progressive	Aspirational
Antimony	N/A	N/A		
Chromium (VI)	From 29 Feb, 2024 to 05 Mar, 2024			Meet
Barium	N/A	N/A		
Selenium	N/A	N/A		
Tin	N/A	N/A		
Arsenic	From 29 Feb, 2024 to 05 Mar, 2024			Meet
Chromium (total)	N/A	N/A		
Cobalt	N/A	N/A		
Cadmium	From 29 Feb, 2024 to 05 Mar, 2024			Meet
Copper	N/A	N/A		
Lead	From 29 Feb, 2024 to 05 Mar, 2024			Meet
Nickel	N/A	N/A		
Silver	N/A	N/A		
Zinc	N/A	N/A		
Mercury	From 29 Feb, 2024 to 05 Mar, 2024			Meet

Wastewater / Conventional parameters - Test items	Testing period	Sample 2 (effluent)		
		Foundational	Progressive	Aspirational
pH ^[f]	N/A	N/A		
Temperature difference ^[f]	N/A	N/A		
E.coli	N/A	N/A		
Colour	N/A	N/A		
Persistent foam ^[f]	N/A	N/A		
Wastewater flowrate ^[f]	N/A	N/A		
Ammonium-Nitrogen	N/A	N/A		
AOX	N/A	N/A		
Biochemical Oxygen Demand (BOD ₅)	N/A	N/A		
Chemical Oxygen Demand (COD)	N/A	N/A		
Dissolved Oxygen (DO) ^[f]	N/A	N/A		
Oil & Grease	N/A	N/A		
Total Phenols / Phenol Index	N/A	N/A		
Total Chlorine ^[f]	N/A	N/A		
Total Dissolved Solids (TDS)	N/A	N/A		
Total Nitrogen	N/A	N/A		
Total Phosphorus	N/A	N/A		
Total Suspended Solids (TSS)	N/A	N/A		



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Wastewater / Anions - Test items	Testing period	Sample 2 (effluent)		
		Foundational	Progressive	Aspirational
Chloride	N/A	N/A		
Cyanide, total	N/A	N/A		
Sulfate	N/A	N/A		
Sulfide	N/A	N/A		
Sulfite	N/A	N/A		

Sludge / Heavy metals - Test items	Testing period	Sample 3: Sludge (Total)	Sample 3: Sludge (Leachate)
Antimony	From 28 Feb, 2024 to 04 Mar, 2024	Meet	
Arsenic	From 28 Feb, 2024 to 04 Mar, 2024	Meet	
Barium	From 28 Feb, 2024 to 04 Mar, 2024	Meet	
Cadmium	From 28 Feb, 2024 to 04 Mar, 2024	Meet	
Cobalt	From 28 Feb, 2024 to 04 Mar, 2024	Meet	
Copper	From 28 Feb, 2024 to 04 Mar, 2024	Meet	
Lead	From 28 Feb, 2024 to 04 Mar, 2024	Meet	
Nickel	From 28 Feb, 2024 to 04 Mar, 2024	Meet	
Selenium	From 28 Feb, 2024 to 04 Mar, 2024	Meet	
Silver	From 28 Feb, 2024 to 04 Mar, 2024	Meet	
Chromium (total)	From 28 Feb, 2024 to 04 Mar, 2024	Meet	
Zinc	From 28 Feb, 2024 to 04 Mar, 2024	Meet	
Chromium VI	From 28 Feb, 2024 to 04 Mar, 2024	Meet	
Mercury	From 28 Feb, 2024 to 04 Mar, 2024	Meet	



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Sludge / Anion - Test items	Testing period	Sample 3: Sludge
Cyanide	From 04 Mar, 2024 to 04 Mar, 2024	Report only, refer data

Sludge / Conventional parameters - Test items	Testing period	Sample 3: Sludge
pH ^[f]	From 28 Feb, 2024 to 28 Feb, 2024	Report only, refer data
% Solids	From 29 Feb, 2024 to 29 Feb, 2024	Report only, refer data
Paint filter test	From 29 Feb, 2024 to 29 Feb, 2024	Report only, refer data
Faecal coliform	From 29 Feb, 2024 to 04 Mar, 2024	Report only, refer data

Sludge / MRSL - Test items	Testing period	Sample 3: Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	From 29 Feb, 2024 to 05 Mar, 2024	Report only, refer data
Polycyclic Aromatic Hydrocarbons (PAHs)	From 29 Feb, 2024 to 05 Mar, 2024	Report only, refer data
Chlorotoluenes	From 29 Feb, 2024 to 05 Mar, 2024	Report only, refer data

Remark (Indicated in each parameter)

ND = Not detected (less than lab reporting limit)

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 [xxxx] 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.

For and on behalf of
Intertek Testing Service Ltd., Shanghai

Nina Hu

Nina Hu, Technical Manager



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Test results

1. Conventional parameters

Wastewater/ Conventional parameters - Test items	Test method (Please refer only to the SM used in the lab)	Limit			Lab Reporting Limit (Please refer to your RL)	Result Sample 2 Effluent	Unit
		Foundational	Progressive	Aspirational			
Temperature	GB/T 13195	35°C	30°C	25°C	N/A	N/A	[f] °C
Temperature difference [°C]	GB/T 13195	Δ+15°C	Δ+10°C	Δ+5°C	N/A	N/A	[f] °C
TSS	GB/T 11901	50 mg/L	15 mg/L	5 mg/L	5 mg/L	N/A	mg/L
Chemical Oxygen Demand (COD)	HJ 828	150 mg/L	80 mg/L	40 mg/L	40 mg/L	N/A	mg/L
Total-N	HJ 636	20 mg/L	10 mg/L	5 mg/L	5 mg/L	N/A	mg/L
pH	HJ 1147	6-9			N/A	N/A	[f] pH
Colour (436 nm ; 525 nm ; 620nm)	ISO 7887-B	7;5;3	5;3;2	2;1;1	N/A	N/A	[m-1]
Biochemical Oxygen Demand (BOD5)	HJ 505	30 mg/L	15 mg/L	8 mg/L	8 mg/L	N/A	mg/L
Ammonium- Nitrogen	HJ 535	10 mg/L	1 mg/L	0.5 mg/L	0.5 mg/L	N/A	mg/L
Total-P	GB/T 11893	3 mg/L	0.5 mg/L	0.1 mg/L	0.1 mg/L	N/A	mg/L
AOX	HJ/T 83	3 mg/L	0.5 mg/L	0.1 mg/L	0.1 mg/L	N/A	mg/L
Oil and grease	HJ 637	10 mg/L	2 mg/L	0.5 mg/L	0.5 mg/L	N/A	mg/L
Phenol	HJ 503	0.5 mg/L	0.01 mg/L	0.001 mg/L	0.001 mg/L	N/A	mg/L
E. Coli	SM 9221B presumptive, confirm positive with SM9221F	126 [MPN/100-ml]			1.8 MPN/100-ml	N/A	[MPN/100- ml]
Foam	/	Not visible	Not visible	Not visible	N/A	N/A	[f]
Cyanide	HJ 484	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.05 mg/L	N/A	mg/L
Sulfide	HJ 1226	0.5 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	N/A	mg/L
Sulphite	HJ 84-2016	2 mg/L	0.5 mg/L	0.2 mg/L	0.2 mg/L	N/A	mg/L



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Dissolved Oxygen (DO)	HJ 506	Sample and report only	Sample and report only	Sample and report only	N/A	N/A	[f] mg/L
Total Chlorine	HJ 586	Sample and report only	Sample and report only	Sample and report only	0.2 mg/L	N/A	[f] mg/L
Total Dissolved Solids (TDS)	GB/T 5750.4-2006 (180 °C)	Sample and report only	Sample and report only	Sample and report only	10 mg/L	N/A	mg/L
Chloride	HJ 84-2016	Sample and report only	Sample and report only	Sample and report only	10 mg/L	N/A	mg/L
Sulfate	HJ 84-2016	Sample and report only	Sample and report only	Sample and report only	10 mg/L	N/A	mg/L
Wastewater Flowrate	/	N/A	N/A	N/A	N/A	N/A	[f] m3/day

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



2. Heavy metals

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

Heavy metals	CAS no.	Limit			Lab Reporting limit (mg/L) (Please refer only to the RL in your lab.)	Result	
		Foundational	Progressive	Aspirational		Sample 1 (untreated)	Unit
Arsenic (As)	Various	0.05 mg/L	0.01 mg/L	0.005 mg/L	0.005 mg/L	ND	mg/L
Cadmium (Cd)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	ND	mg/L
Mercury (Hg)	Various	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.001 mg/L	ND	mg/L
Lead (Pb)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	ND	mg/L
Antimony (Sb)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	N/A	mg/L
Cobalt (Co)	Various	0.05 mg/L	0.02 mg/L	0.01 mg/L	0.01 mg/L	N/A	mg/L
Nickel (Ni)	Various	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.05 mg/L	N/A	mg/L
Silver (Ag)	Various	0.1 mg/L	0.05 mg/L	0.005 mg/L	0.005 mg/L	N/A	mg/L
Copper (Cu)	Various	1 mg/L	0.5 mg/L	0.25 mg/L	0.25 mg/L	N/A	mg/L
Zinc (Zn)	Various	5.0 mg/L	1.0 mg/L	0.5 mg/L	0.5 mg/L	N/A	mg/L
Total Chromium (Cr)	Various	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.05 mg/L	N/A	mg/L
Chromium VI (Cr VI)	Various	0.05 mg/L	0.005 mg/L	0.001 mg/L	0.001 mg/L	ND	mg/L
Barium	Various	Sample and Report only	Sample and Report only	Sample and Report only	0.01 mg/L	N/A	mg/L
Selenium	Various	Sample and Report only	Sample and Report only	Sample and Report only	0.01 mg/L	N/A	mg/L
Tin	Various	Sample and Report only	Sample and Report only	Sample and Report only	0.01 mg/L	N/A	mg/L

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3. 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).

Alkylphenols (APs) & Alkylphenoethoxylates (APEOs)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Octylphenol (OP), mixed isomers	140-66-9/ 1806-26-4/ 27193-28-8	5	5	ND	ND
Nonylphenol (NP), mixed isomers	104-40-5/ 11066-49-2/ 25154-52-3/ 84852-15-3	5	5	ND	ND
Octylphenoethoxylates (OPEOs)	9002-93-1; 9036-19-5; 68987-90-6	5	5	ND	ND
Nonylphenoethoxylates (NPEOs)	9016-45-9/26027-38-3/ 37205-87-1/ 68412-54-4/127087-87-0	5	5	13	ND

4. Chlorobenzenes & Chlorotoluenes

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

Chlorobenzenes & Chlorotoluenes	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Chlorobenzene	108-90-7	0.2	0.2	ND	ND
1,2-Dichlorobenzene	95-50-1	0.2	0.2	ND	ND
1,3-Dichlorobenzene	541-73-1	0.2	0.2	ND	ND
1,4-Dichlorobenzene	106-46-7	0.2	0.2	ND	ND
1,2,3-Trichlorobenzene	87-61-6	0.2	0.2	ND	ND
1,2,4-Trichlorobenzene	120-82-1	0.2	0.2	ND	ND
1,3,5-Trichlorobenzene	108-70-3	0.2	0.2	ND	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	0.2	ND	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	0.2	ND	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	0.2	ND	ND
Pentachlorobenzene	608-93-5	0.2	0.2	ND	ND
Hexachlorobenzene	118-74-1	0.2	0.2	ND	ND
2-Chlorotoluene	95-49-8	0.2	0.2	ND	ND
3-Chlorotoluene	108-41-8	0.2	0.2	ND	ND
4-Chlorotoluene	106-43-4	0.2	0.2	ND	ND
2,3-Dichlorotoluene	32768-54-0	0.2	0.2	ND	ND
2,4-Dichlorotoluene	95-73-8	0.2	0.2	ND	ND
2,5-Dichlorotoluene	19398-61-9	0.2	0.2	ND	ND
2,6-Dichlorotoluene	118-69-4	0.2	0.2	ND	ND
3,4-Dichlorotoluene	95-75-0	0.2	0.2	ND	ND



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3,5-Dichlorotoluene	25186-47-4	0.2	0.2	ND	ND
2,3,4-Trichlorotoluene	7359-72-0	0.2	0.2	ND	ND
2,3,6-Trichlorotoluene	2077-46-5	0.2	0.2	ND	ND
2,4,5-Trichlorotoluene	6639-30-1	0.2	0.2	ND	ND
2,4,6-Trichlorotoluene	23749-65-7	0.2	0.2	ND	ND
3,4,5-Trichlorotoluene	21472-86-6	0.2	0.2	ND	ND
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.2	ND	ND
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2	ND	ND
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2	ND	ND
Pentachlorotoluene	877-11-2	0.2	0.2	ND	ND

5. Chlorophenols

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

Chlorophenols	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
2-Chlorophenol	95-57-8	0.5	0.5	ND	ND
3-Chlorophenol	108-43-0	0.5	0.5	ND	ND
4-Chlorophenol	106-48-9	0.5	0.5	ND	ND
2,3-Dichlorophenol	576-24-9	0.5	0.5	ND	ND
2,4-Dichlorophenol	120-83-2	0.5	0.5	ND	ND
2,5-Dichlorophenol	583-78-8	0.5	0.5	ND	ND
2,6-Dichlorophenol	87-65-0	0.5	0.5	ND	ND
3,4-Dichlorophenol	95-77-2	0.5	0.5	ND	ND
3,5-Dichlorophenol	591-35-5	0.5	0.5	ND	ND
2,3,4-Trichlorophenol	15950-66-0	0.5	0.5	ND	ND
2,3,5-Trichlorophenol	933-78-8	0.5	0.5	ND	ND
2,3,6-Trichlorophenol	933-75-5	0.5	0.5	ND	ND
2,4,5-Trichlorophenol	95-95-4	0.5	0.5	ND	ND
2,4,6-Trichlorophenol	88-06-2	0.5	0.5	ND	ND



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3,4,5-Trichlorophenol	609-19-8	0.5	0.5	ND	ND
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	0.5	ND	ND
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	0.5	ND	ND
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	0.5	ND	ND
Pentachlorophenol (PCP)	87-86-5	0.5	0.5	ND	ND

6. 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).

Azo Dyes	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	0.1	ND	ND
4,4'-Diaminodiphenylmethane	101-77-9	0.1	0.1	ND	ND
4,4'-Oxydianiline	101-80-4	0.1	0.1	ND	ND
4-Chloroaniline	106-47-8	0.1	0.1	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	0.1	0.1	ND	ND
3,3'-Dimethylbenzidine	119-93-7	0.1	0.1	ND	ND
p-Cresidine	120-71-8	0.1	0.1	ND	ND
2,4,5-Trimethylaniline	137-17-7	0.1	0.1	ND	ND
4,4'-Thiodianiline	139-65-1	0.1	0.1	ND	ND
4-Aminoazobenzene	60-09-3	0.1	0.1	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	0.1	0.1	ND	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.1	0.1	ND	ND
2,6-Xylidine	87-62-7	0.1	0.1	ND	ND
o-Anisidine	90-04-0	0.1	0.1	ND	ND
2-Naphthylamine	91-59-8	0.1	0.1	ND	ND
3,3'-Dichlorobenzidine	91-94-1	0.1	0.1	ND	ND
4-Aminobiphenyl	92-67-1	0.1	0.1	ND	ND
Benzidine	92-87-5	0.1	0.1	ND	ND
o-Toluidine	95-53-4	0.1	0.1	ND	ND
2,4-Xylidine	95-68-1	0.1	0.1	ND	ND



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4-Chloro-o-toluidine	95-69-2	0.1	0.1	ND	ND
4-Methyl-m-phenylenediamine	95-80-7	0.1	0.1	ND	ND
o-Aminoazotoluene	97-56-3	0.1	0.1	ND	ND
5-Nitro-o-toluidine	99-55-8	0.1	0.1	ND	ND
2-Naphthylammoniumacetate	553-00-4	0.1	0.1	ND	ND
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	0.1	ND	ND
4-chloro-o-toluidinium chloride	3165-93-3	0.1	0.1	ND	ND
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	0.1	ND	ND

7. Dyes – Carcinogenic or Equivalent Concern

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

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



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8. Dyes – Disperse (Allergenic)

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

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

9. 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)

Flame retardants	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	25	ND	ND
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	25	ND	ND



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Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	25	ND	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	25	ND	ND
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	25	ND	ND
Bis(2,3-dibromopropyl) phosphate	5412-25-9	25	25	ND	ND
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	25	25	ND	ND
Polybromobiphenyls (PBBs)	59536-65-1	25	25	ND	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	25	25	ND	ND
Hexabromocyclododecane (HBCDD)	3194-55-6	25	25	ND	ND
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	25	ND	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	25	ND	ND
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	25	ND	ND
Decabromobiphenyl (DecaBB)	13654-09-6	25	25	ND	ND
Dibromobiphenyls (DiBB)	Various	25	25	ND	ND
Octabromobiphenyls (OctaBB)	Various	25	25	ND	ND
Dibromopropylether	21850-44-2	25	25	ND	ND
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	25	ND	ND
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	25	ND	ND
Monobromobiphenyls (MonoBB)	Various	25	25	ND	ND
Monobromodiphenylethers (MonoBDEs)	Various	25	25	ND	ND
Nonabromobiphenyls (NonaBB)	Various	25	25	ND	ND
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	25	ND	ND
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	25	ND	ND
Tribromodiphenylethers (TriBDEs)	Various	25	25	ND	ND
Boric acid**	10043-35-3 / 11113-50-1	100 in Boron	100 in Boron	858	115



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Diboron trioxide**	1303-86-2	100 in Boron	100 in Boron	858	115
Disodium octaborate**	12008-41-2	100 in Boron	100 in Boron	858	115
Disodium tetraborate anhydrous**	1303-96-4 / 1330-43-4	100 in Boron	100 in Boron	858	115
Tetraboron disodium heptaoxide, hydrate**	12267-73-1	100 in Boron	100 in Boron	858	115

** Report total boron directly, no conversion from Boron salt.

10. Glycols

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

Glycols	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Bis(2-methoxyethyl)-ether	111-96-6	50	50	ND	ND
2-ethoxyethanol	110-80-5	50	50	ND	ND
2-ethoxyethyl acetate	111-15-9	50	50	ND	ND
Ethylene glycol dimethyl ether	110-71-4	50	50	ND	ND
2-methoxyethanol	109-86-4	50	50	ND	ND
2-methoxyethylacetate	110-49-6	50	50	ND	ND
2-methoxypropylacetate	70657-70-4	50	50	ND	ND
Triethylene glycol dimethyl ether	112-49-2	50	50	ND	ND

11. Halogenated solvents

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

Chlorinated solvents	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
1,2-Dichloroethane	107-06-2	1	1	ND	ND
Methylene chloride	75-09-2	1	1	ND	ND
Trichloroethene	79-01-6	1	1	ND	ND
Tetrachloroethene	127-18-4	1	1	ND	ND

12. Organotin compounds

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

Organotin compounds	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Mono-, di- and tri-methyltin derivatives	Various	0.01	0.01	ND	ND
Mono-, di- and tri-butyltin derivatives	Various	0.01	0.01	ND	ND
Mono-, di- and tri-phenyltin derivatives	Various	0.01	0.01	ND	ND
Mono-, di- and tri-octyltin derivatives	Various	0.01	0.01	ND	ND
Tricyclohexyltin (TCyHT)	Various	0.01	0.01	ND	ND
Dipropyltin compounds (DPT)	Various	0.01	0.01	ND	ND



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Tetrabutyltin compounds (TeBT)	Various	0.01	0.01	ND	ND
Tripropyltin Compounds (TPT)	Various	0.01	0.01	ND	ND
Tetraoctyltin compounds (TeOT)	Various	0.01	0.01	ND	ND
Tetraethyltin Compounds (TeET)	Various	0.01	0.01	ND	ND

13. Phthalates

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

Phthalates	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	10	ND	ND
Dimethoxyethyl phthalate (DMEP)	117-82-8	10	10	ND	ND
Di-n-octyl phthalate (DNOP)	117-84-0	10	10	ND	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0/68515-49-1	10	10	ND	ND
Di-iso-nonyl phthalate (DINP)	28553-12-0/68515-48-0	10	10	ND	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	10	10	ND	ND
Dibutyl phthalate (DBP)	84-74-2	10	10	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	10	10	ND	ND
Diethyl phthalate (DEP)	84-66-2	10	10	ND	ND
Di-n-propyl phthalate (DPRP)	131-16-8	10	10	ND	ND
Di-iso-butyl phthalate (DIBP)	84-69-5	10	10	ND	ND
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	10	ND	ND
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	10	ND	ND
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	10	10	ND	ND
1,2-benzenedicarboxylic acid, di-C7-11-branched alkyl esters, C7-rich (DIBP)	71888-89-6	10	10	ND	ND
Di-n-pentylphthalates	131-18-0	10	10	ND	ND
Diisopentylphthalates	605-50-5	10	10	ND	ND
Dinonyl phthalate (DNP)	84-76-4	10	10	ND	ND



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14. Perfluorinated chemicals (PFCs)

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

Perfluorinated chemicals (PFCs)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Perfluoro-octanoic acid (PFOA)	335-67-1	0.01	0.01	0.03	0.03
Perfluoro-octane-sulfonic acid (L-PFOS)	1763-23-1	0.01	0.01	ND	ND
Perfluoro-octane-sulfon-amide (PFOSA)	754-91-6	0.01	0.01	ND	ND
N-Methyl-perfluoro-octane-sulfon-amide (N-Me-FOSA)	31506-32-8	0.01	0.01	ND	ND
N-Ethyl-perfluoro-octane-sulfon-amide (N-Et-FOSA)	4151-50-2	0.01	0.01	ND	ND
N-Methyl-perfluoro-octane-sulfon-amido-ethanol (N-Me-FOSE alcohol)	24448-09-7	0.01	0.01	ND	ND
N-Ethyl-Perfluoro-octane-sulfon-amido-ethanol (N-Et-FOSE alcohol)	1691-99-2	0.01	0.01	ND	ND
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	1	1	ND	ND
2-Perfluorooctylethanol (8:2 FTOH)	678-39-7	1	1	ND	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	1	1	ND	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	1	1	ND	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	1	1	ND	ND
Ethyl perfluorooctanoate Et-PFOA	3108-24-5	1	1	ND	ND

15. Polycyclic aromatic hydrocarbons (PAHs)

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

Polycyclic aromatic hydrocarbons (PAHs)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Benzo(a)pyrene (BaP)	50-32-8	1	1	ND	ND
Anthracene	120-12-7	1	1	ND	ND
Pyrene	129-00-0	1	1	ND	ND
Benzo(ghi)perylene	191-24-2	1	1	ND	ND
Benzo(e)pyrene	192-97-2	1	1	ND	ND
Indeno (1,2,3-cd)pyrene	193-39-5	1	1	ND	ND
Benzo(j)fluoranthene	205-82-3	1	1	ND	ND
Benzo(b)fluoranthene	205-99-2	1	1	ND	ND
Fluoranthene	206-44-0	1	1	ND	ND
Benzo(k)fluoranthene	207-08-09	1	1	ND	ND
Acenaphthylene	208-96-8	1	1	ND	ND
Chrysene	218-01-9	1	1	ND	ND
Dibenz(a,h)anthracene	53-70-3	1	1	ND	ND
Benzo(a)anthracene	56-55-3	1	1	ND	ND
Acenaphthene	83-32-9	1	1	ND	ND
Phenanthrene	85-01-8	1	1	ND	ND



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Fluorene	86-73-7	1	1	ND	ND
Naphthalene	91-20-3	1	1	ND	ND

16. 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).

Volatile organic compounds (VOCs)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Benzene	71-43-2	1	1	ND	ND
Xylene	1330-20-7	1	1	ND	ND
o-cresol	95-48-7	1	1	ND	ND
p-cresol	106-44-5	1	1	ND	ND
m-cresol	108-39-4	1	1	ND	ND
Toluene*	108-88-3	1	1	ND	ND

(*) = Sample and report for mock leather.

17. 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).

Anti - Microbials & Biocides	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
o-Phenylphenol (+salts)	90-43-7	100	100	ND	ND
Triclosan	3380-34-5	100	100	ND	ND
Permethrin	Multiple	500	500	ND	ND



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18. Chlorinated paraffins

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

Chlorinated paraffins	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Short-chain Chlorinated paraffin (C10 – C13)	85535-84-8	25	25	ND	ND
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	500	ND	ND

19. Dimethyl Formamide (DMFa) (*)

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

N,N-di-methylformamide (DMFa)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Dimethyl formamide; N,N-dimethylformamide	68-12-2	1000	1000	ND	ND

(*) = Sample and report for mock leather.

20. Dyes-Navy Blue Colourant

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

Dyes-Navy Blue Colourant	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	500	ND	ND
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	500	ND	ND

21. 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)

Other/Miscellaneous Chemicals	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	500	ND	ND
Bisphenol A	80-05-7	10	10	ND	ND
Thiourea	62-56-6	50	50	ND	ND
Quinoline	91-22-5	50	50	ND	ND
Borate, zinc salt (^)	12767-90-7	100 in Boron & 100 in Zinc	100 in Boron & 100 in Zinc	Boron:858 Zinc:238	Boron:115 Zinc:149

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

22. UV Absorbers

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

UV Absorbers	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol(UV-350)	36437-37-3	100	100	ND	ND
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100	100	ND	ND
2-benzotriazol-2-yl-4,6-di-tertbutylphe	3846-71-7	100	100	ND	ND
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	100	ND	ND



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23. Sludge Parameters – Step 1 - 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).

Sludge Parameters – Step 1 - Metals	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
Antimony	5	5	ND	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	ND	mg/kg
Selenium	5	5	ND	mg/kg
Silver	50	50	ND	mg/kg
Total Chromium	50	50	ND	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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24. Sludge Parameters – Step 1 - Anions

Modified from HJ 745 (UV/VIS analysis).

Sludge Parameters – Step 1 - Anions	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
Cyanide	20	20	ND	mg/kg

25. Sludge Parameters - Step 1 – Conventional

Sludge Parameters – Step 1 - Convent	Test method	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
pH	HJ962	N/A	7.97	[f] N/A
% Solids	HJ613	N/A	19.6	%
Paint Filter	USEPA 9095B	N/A	Pass	N/A
Fecal Coliform	USEPA 1681	10	ND	MPN/g

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

26. Sludge Parameters - Step 1 - MRSL - 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).

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



27. Sludge Parameters - Step 1 - MRSL - Polycyclic Aromatic Hydrocarbons (PAHs)

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

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

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28. Sludge Parameteres - Step 1 - MRSL – Chlorotoluenes

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

Sludge Parameteres - Step 1 - MRSL – Chlorotoluenes	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
2-Chlorotoluene	95-49-8	0.2	0.2	ND	mg/kg
3-Chlorotoluene	108-41-8	0.2	0.2	ND	mg/kg
4-Chlorotoluene	106-43-4	0.2	0.2	ND	mg/kg
2,3-Dichlorotoluene	32768-54-0	0.2	0.2	ND	mg/kg
2,4-Dichlorotoluene	95-73-8	0.2	0.2	ND	mg/kg
2,5-Dichlorotoluene	19398-61-9	0.2	0.2	ND	mg/kg
2,6-Dichlorotoluene	118-69-4	0.2	0.2	ND	mg/kg
3,4-Dichlorotoluene	95-75-0	0.2	0.2	ND	mg/kg
3,5-Dichlorotoluene	25186-47-4	0.2	0.2	ND	mg/kg
2,3,4-Trichlorotoluene	7359-72-0	0.2	0.2	ND	mg/kg
2,3,6-Trichlorotoluene	2077-46-5	0.2	0.2	ND	mg/kg
2,4,5-Trichlorotoluene	6639-30-1	0.2	0.2	ND	mg/kg
2,4,6-Trichlorotoluene	23749-65-7	0.2	0.2	ND	mg/kg
3,4,5-Trichlorotoluene	21472-86-6	0.2	0.2	ND	mg/kg
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.2	ND	mg/kg
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2	ND	mg/kg
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2	ND	mg/kg
Pentachlorotoluene	877-11-2	0.2	0.2	ND	mg/kg



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29. Sludge Parameteres - Step 2 – Metals

Chromium VI: modified from USEPA 3060B and USEPA 7196 (UV/VIS analysis).

Other heavy metals: Modified from ISO 16711-2 ((ICP-MS analysis).

Sludge Parameteres - Step 2 – Metals	Lab Reporting limit (mg/L)	Result Sample 3 (Sludge)	Unit
Antimony	0.6	N/A	mg/L
Arsenic	0.5	N/A	mg/L
Barium	35	N/A	mg/L
Cadmium	0.15	N/A	mg/L
Cobalt	80	N/A	mg/L
Copper	10	N/A	mg/L
Lead	0.5	N/A	mg/L
Nickel	3.5	N/A	mg/L
Selenium	0.5	N/A	mg/L
Silver	5	N/A	mg/L
Total Chromium	5	N/A	mg/L
Zinc	50	N/A	mg/L
Chromium (VI)	2.5	N/A	mg/L
Mercury	0.05	N/A	mg/L



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Appendix 1: Reference to ZDHC WWSG v2.1 Table 4B

Parameters	Total metals and anions threshold values (mg/kg)	Disposal pathways A and B (Leachate result in mg/L)	C	D	E	F	G	G
			(Leachate result in mg/L)	(Leachate result in mg/L)	(Leachate result in mg/L)	(Leachate result in mg/L)	(Leachate result in mg/L)	(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	4300
Copper	200		25	17.5	10	10	10	
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						
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 2: 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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Photo of sampling points:

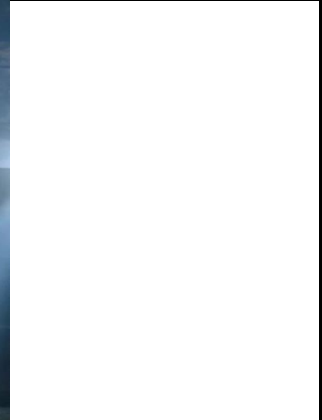


Photo of wastewater before treatment (untreated) 1A

Photo of wastewater before treatment (untreated) 1B

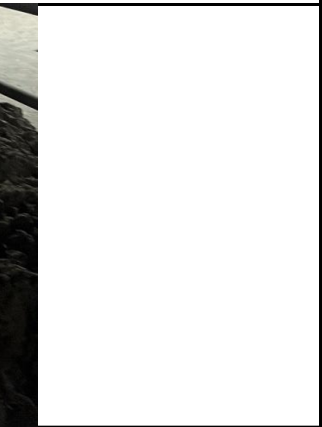


Photo of effluent

Photo of sludge

Photo of samples:

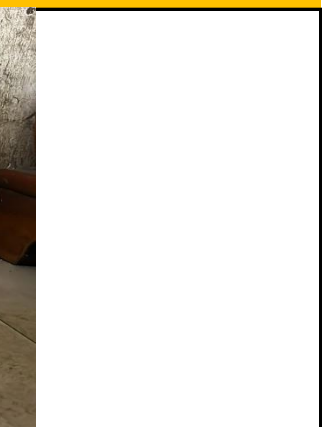


Photo of untreated wastewater 1A

Photo of untreated wastewater 1B

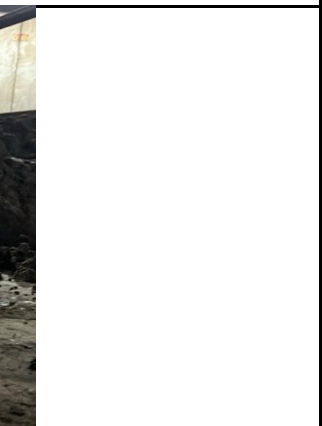


Photo of effluent

Photo of sludge



SAMPLING PROTOCOL (PAGE 1 OF 3)

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

Facility Name: 扬州航利美时区印染有限公司

Address and Contact: 扬州市莱山区瓜埠镇瓜埠中28号238号

Facility type: Dyeing and Finishing Fabric Mill Laundry, Washing and Finishing Natural Leather processing Printing Synthetic Leather processing

Date of sampling: 2024.02.28

Sample General ID (if applicable): 7899364

Discharge description: 长江瓜埠污水处理厂

Weather conditions: on sampling day: PA on day before: PA

Fill in all above information as applicable.

Sample Type and Details (see also page 2)

Effluent Discharge direct or indirect

Pre-treated WW without sludge Untreated WW

Sludge with below disposal pathway*): A B C D E F G

Sludge volume generated: 3 Om³/h OL/sec O other unit (specify): t/d

Process Chemical liquid solid (powder/granulate/pieces)

Times of sampling (if applicable)	Untreated:	1 8:20	2 9:20	3 10:20	4 11:20	5 12:20	6 13:20	7 14:20	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 Grab ²⁾ (HRT>12h):
	Sludge (liquid):	1	2	3	4	5	6	7	Solid sludge: 13:30

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): 1 MG-352P -1546

GPS coordinates of sampling points:

Incoming W.: Lat.: ON OS 30° 11' 56" Long.: OE OW 120° 24' 6"

Untreated WW: Lat.: ON OS 30° 11' 56" Long.: OE OW 120° 24' 7"

Effluent: Lat.: ON OS 30° 11' 18" Long.: OE OW 120° 24' 50"

Sludge: Lat.: ON OS 30° 11' 22" Long.: OE OW 120° 24' 2"



SAMPLING PROTOCOL (PAGE 2 OF 3)

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Sample Details ²⁾ 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:								°C
Temp. WW discharge 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	m ³ /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:	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> 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: automated sampling with beaker/bowl 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	T ambient air [°C]	Odour	Colour	Foaming	Floating matter
Incoming				<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no
Untreated	7	H 有臭	黄	<input type="radio"/> yes <input checked="" type="radio"/> no	<input type="radio"/> yes <input checked="" type="radio"/> no
Effluent	7	L 无臭	黄	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input checked="" type="radio"/> no
Sludge	7	有臭	灰		

Field Testing QA/QC

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

Other observations:
废水平均流量 2000 m³/d
污水 pH: 7.97

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



SAMPLING PROTOCOL (PAGE 3 OF 3)

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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):

Bruce / Bruce.fang@intertek.com

Sampler's ZDHC accreditation no.:

C7401068173P7

Sampler's Signature:

Bruce

Facility Name:

杭州海康威视达声有限公司

Facility's Representative name:

程国斌

Facility's Representative Signature and Stamp:

程国斌



Do



污泥处置协议

甲方：杭州航民美时达印染有限公司

乙方：杭州萧山东片污水处理有限公司《航民污水处理中心》

经双方协商，现就杭州航民美时达印染有限公司（以下称甲方）在污水处理中产生的污泥，委托杭州萧山东片污水处理有限公司（以下称乙方）处理，达成如下协议：

- 一、甲方要求乙方代为处理的污泥，必须经过框板式压泥机处理，污泥要成块状结构，污泥含水量不得超过 60%。
- 二、污泥由甲方安排车辆和人员运输到乙方厂内，运输费用自理。
- 三、甲方拉运到乙方的污泥，甲方必须倾倒在乙方污泥的堆放场地。
- 四、双方约定，污泥处理费用由航民集团公司确定。
- 五、本合同有效期三年，合同一式两份，双方各执一份。

甲方：杭州航民美时达印染有限公司 乙方：杭州萧山东片污水处理有限公司
 代表（签字）： 代表（签字）：
 日期：2023-1-1 日期：2023-1-1



浙江浙能滨海环保能源有限公司

生产污泥无害化处置



协议书

2023 年 2 月



Document on sludge disposal or licensed third-party waste contractor for sludge disposal.

生产污泥无害化处置协议

协议编号: BHEE-HZ-SCMW-2023-

甲方: 浙江浙能滨海环保能源有限公司

乙方: 杭州萧山污水处理有限公司

甲、乙双方本着真诚合作、互惠互利的原则,经友好协商,双方就其它工业污泥委托处置达成如下协议:

一、污泥品质要求

1. 含水率。乙方委托甲方处置的湿污泥,含水率需在50%-80%之间,必须块颗粒较小,如含水率高于80%、污泥干湿不均或整体块状直径大于50毫米,甲方有权拒收。每批次委托处置污泥双方共同取样2份(其中一份为备样),含水率以甲方检测结果为准(乙方可派员参与检测)。

2. 干基含硫。乙方委托处置的污泥干基含硫量需低于3.6%。对已经进入甲方储存池的污泥,视含硫量超标情况,公司有权对污泥干基含硫量超标企业收取100元/吨设备维护及药剂加投工本费,若乙方收到调价通知后,三天内未回复,视作同意。甲方有权拒收干基含硫量高于3.6%的污泥;若污泥含硫量持续超标,甲方有权解除本协议。含硫量以甲方检测结果为准(乙方可以派员参与检测)。

3. 污泥成份。乙方须确保运抵甲方的污泥中不含有危险废弃物及石块、砖块、木条、布条、金属等杂物(包括掺杂各类化工

第1页 共8页

液体等非工业污泥物质),否则甲方有权拒收,由此产生的费用由乙方自行承担。对已经进入甲方储存池的含杂物污泥,由乙方负责清理;若因乙方污泥所含杂物造成甲方设备损坏及生产损失的,乙方应照价赔偿。必要时,甲方有权解除本协议。

4. 污泥特性。乙方委托处置污泥应属一般固体废物,不得掺杂各类化工液体等,特别是危险废弃物。签约前,污泥需经第三方检测机构进行检测,检测费用由乙方承担。污泥内含重金属浸出毒性及污染物各项指标,需符合GB5085.7-2019标准及污染物排放要求,否则甲方拒收。签约后,如乙方委托处置污泥特性发生异常,一经发现,若污泥未进场,甲方有权拒收;若污泥已进场并卸料,乙方需承担由此造成的一切后果,同时甲方有权解除本协议,协议自甲方解除通知送达乙方起解除。造成甲方损失的,由乙方负责赔偿。

二、乙方污泥贮存场所管理要求

1. 贮泥规模。乙方贮存场所(设施)规模应满足不低于5天额定脱水污泥产生量的污泥存放。

2. 配套设施。乙方贮存场所地面应作硬化处理,建有遮雨棚、围堰、污泥渗滤液引流通道或装置,将渗滤液引入污水处理设施,设置必要的除臭、通风装置。同时,贮存场所保持门窗完好,日常处于封闭状态。

3. 环保要求。乙方贮存场所应设立明显的标志标识,并安装电子监控,电子监控应与生态环境局监控中心联网。

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Document on sludge disposal or licensed third-party waste contractor for sludge disposal.

液体等非工业污泥物质)，否则甲方有权拒收，由此产生的费用由乙方自行承担。对已经进入甲方储存池的含杂物污泥，由乙方负责清理；若因乙方污泥所含杂物造成甲方设备损坏及生产损失的，乙方应照价赔偿。必要时，甲方有权解除本协议。

4. 污泥特性。乙方委托处置污泥应属一般固体废物，不得掺杂各类化工液体等，特别是危险废弃物。签约前，污泥需经第三方检测机构进行检测，检测费用由乙方承担。污泥内含重金属浸出毒性及污染物各项指标，需符合 GB5085.7-2019 标准及污染物排放要求，否则甲方拒收。签约后，如乙方委托处置污泥特性发生异常，一经发现，若污泥未进场，甲方有权拒收；若污泥已进场并卸料，乙方需承担由此造成的一切后果，同时甲方有权解除本协议，协议自甲方解除通知送达乙方起解除。造成甲方损失的，由乙方负责赔偿。

二、乙方污泥贮存场所管理要求

1. 贮泥规模。乙方贮存场所（设施）规模应满足不低于5天额定脱水污泥产生量的污泥存放。

2. 配套设施。乙方贮存场所地面应作硬化处理，建有遮雨棚、围堰、污泥渗滤液引流通道或装置，将渗滤液引入污水处理设施，设置必要的除臭、通风装置。同时，贮存场所保持门窗完好，日常处于封闭状态。

3. 环保要求。乙方贮存场所应设立明显的标志标识，并安装电子监控，电子监控应与生态环境局监控中心联网。

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4. 规范管理。乙方贮存场所应设立专业管理人员，加强对贮存场所的管理工作，杜绝非污泥类物质混入工业污泥中。

5. 贮场支出。污泥贮存场所相关费用均由乙方自行承担。

三、污泥运输要求

1. 专车运输。乙方负责污泥运输及卸料工作。运输车辆需符合环保部门要求的专用车辆，运输费用由乙方自行承担。

2. 清洁运输。为保证污泥运输途中的清洁，避免污泥跑冒滴漏，乙方车辆应达到密封的要求；为防止雨天时污泥进水，车辆应有防雨的装置；乙方承担自起运地至甲方指定卸泥点之间的道路清洁责任，途中若有乙方污泥散落，乙方须于2小时内清洗完毕。

3. 明晰责任。污泥运输、卸料整个过程发生的一切环保、安全、社会影响等问题均与甲方无涉。特别是进入甲方厂区要严格按照甲方人员的调度和指挥，否则甲方有权拒收。

四、工期、计量及费用结算

1. 工期：2023年2月3日——2024年2月2日

2. 计量。乙方委托甲方处置的污泥约 250 吨/月。甲方负责对进出厂的污泥运输车辆进行称重计量（满车、空车），由甲方地磅人员和乙方人员（或乙方委托运输单位驾驶员）签字（盖章）确认，作为费用结算的依据。污泥处置量以甲方地磅计量为准。

3. 污泥处置基准价及调价

按污泥处置基准价（含税）236元/吨执行。甲方可根据国家

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Document on sludge disposal or licensed third-party waste contractor for sludge disposal.

有关定价权限规定、处置成本及含硫量变动进行合理调整。如污泥处置市场价格发生变动，甲乙双方可根据市场价格重新商定污泥处置基准价。

3. 结算方式

(1) 结算方式：甲方在每月月底前提供上月26日至本月25日的污泥处置核定通知单（一式肆份，甲方、乙方、运输单位、生态环境局各执壹份），乙方在收到通知单后三个工作日内核对确认，若乙方未及时确认，视为乙方默认。甲方开具全额的增值税专用发票。

(2) 乙方在收到甲方开具的全额增值税专用发票并核实无误后15天内支付该结算周期的污泥处理处置费用（税率为6%，若国家政策变动，则从其规定）。

五、其它

1. 甲、乙双方在协议执行过程中存在争议，应协商解决，协商不成时，任何一方均可向绍兴仲裁委员会提请仲裁。

2. 甲、乙双方需指定协议履行联系人，乙方应按甲方要求，合理安排污泥供应量，经催告乙方仍不能达到甲方要求的，甲方有权单方面解除协议。

3. 乙方逾期支付污泥处置费的，在收到甲方催款单次日起（催款单以盖章扫描件的形式传给乙方），按当期污泥处置费向甲方支付每日千分之一的违约金。逾期超过10天时，甲方有权单方面解除协议。

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4、本协议经双方法定代表人或授权代表签字并加盖公章或合同专用章后生效。

5、本协议一式贰份，签约双方各执壹份。

附件一：廉政协议

(以下无正文)



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Document on sludge disposal or licensed third-party waste contractor for sludge disposal.

签署页:

甲方: 浙江浙能滨海环保能源有限公司 (盖章)

法定代表人或授权代表 (签字):



注册地址: 浙江省绍兴市柯桥区马鞍镇北十二路

联系人: 韩军

电话: 15268188278

传真:

电子邮箱: 443183343@qq.com

开户银行: 中国农业银行股份有限公司绍兴柯桥支行

账号: 19510101040113655

税号: 91330621MA2BFORN2B

日期:

乙方: (盖章)

法定代表人或授权代表 (签字):



注册地址: 绍兴市柯桥区马鞍镇北十二路

联系人: 王永峰

电话: 13575737317

传真:

电子邮箱:

开户银行:

账号:

税号:

日期: 2023年2月3日.

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SOFTLINES WASTEWATER TESTING TEST REPORT

Number:SHAT07899364

End of report

This report is made solely on the basis of your instructions and/or information and materials supplied. Results refer only to samples received in the lab. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.

