



Test Report: (9323)130-1905

Report Date: May 23, 2023

Factory Company Name: Shasing-Shapheng(Fujian) Printing &amp; Dyeing Co.,Ltd

Factory Address: Floor 1, Wubao Industrial Zone, Hongshan Town Shishi Fujian China

Sampling Method & Description:	I001) Untreated wastewater	Composite	Black liquid
	I002) Effluent	Composite	Light yellow liquid
	I003) Sludge	Composite	Black solid
	I004) Leachate	-	Not test
	I005) Incoming water	-	-

Discharge Type: **Indirect Discharge with Pretreatment**

On-site ETP / Pretreatment: Yes Homgenization Tank &amp; Holding Time: Yes, &gt; 12 hours

Discharge Destination: Centralized ETP

Permit Validation Date: Dec 25, 2020 to Dec 24, 2025

Conventional, Anions &amp; Heavy Metals Overall Category: Not applicable ZDHC MRSL Parameters: Not detected

Sludge Parameters: Meet ZDHC Threshold Value

Sample Pick Up Date: May 11, 2023 Sampler Number: C74D106817272  
C74D106817263

Test Period: May 15, 2023 to May 23, 2023

Parameter(s) exceeded maximum holding time: Fecal Coliform &gt; 48 hours

**Remark**

The results of this report shall not be used for any regulatory compliance purposes.

Type of Process:	<b>Textile</b>	Average total industrial wastewater generated:	<b>Equal or more than 15m3/day</b>
Sludge Disposal Pathway:	Disposal Pathway C		
Type of Sludge:	Mechanically dewatered sludge "cake"		

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Report reviewed by:

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**Result Summary - ZDHC MRS� Wastewater Parameters**

Test Items	Untreated wastewater	Effluent	Incoming water
1A) AP and APEOs	ND	NR	NR
1B) Anti-Microbials & Biocides	ND		NR
1C) Chlorinated Parafins	ND		NR
1D) Chlorobenzenes and Chlorotoluenes	ND		NR
1E) Chlorophenols	ND		NR
1F) DMFa	ND		NR
1G) Dyes - Carcinogenic or Equivalent Concern	ND		NR
1H) Dyes - Disperse (Sensitising)	ND		NR
1I) Dyes - Navy Blue Colourant	ND		NR
1J) Flame Retardants	ND		NR
1K) Glycols / Glycol Ethers	ND		NR
1L) Halogenated Solvents	ND		NR
1M) Organotin Compounds	ND		NR
1N) Other / Miscellaneous Chemicals	ND		NR
1O) PFCs	ND		NR
1P) Phthalates	ND		NR
1Q) PAHs	ND		NR
1R) Restricted Aromatic Amines	ND		NR
1S) UV Absorbers	ND		NR
1T) VOC	ND		NR



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**Result Summary - ZDHC Heavy Metals, Conventional and Anions Wastewater Parameters**

Test Items	Untreated wastewater	Effluent	Incoming water	
Antimony	NR	NR	NR	
Chromium (VI)		Refer to result	NR	
Barium		NR	NR	
Selenium		NR	NR	
Tin		NR	NR	
Arsenic		Refer to result	NR	
Total Chromium		NR	NR	
Cobalt		NR	NR	
Cadmium		Refer to result	NR	
Copper		NR	NR	
Lead		Refer to result	NR	
Nickel		NR	NR	
Silver		NR	NR	
Zinc		NR	NR	
Mercury		Refer to result	NR	
pH			NR	NR
Temperature difference			NR	
E.coli			NR	
Colour			NR	
Persistent Foam			NR	
Wastewater Flowrate			NR	
Ammonium-Nitrogen			NR	
AOX			NR	
BOD <sub>5</sub>			NR	
COD			NR	
DO			NR	
Oil & Grease			NR	
Total Phenols / Phenol Index			NR	
Total Chlorine			NR	
TDS			NR	
Total Nitrogen			NR	
Total Phosphorus			NR	
TSS			NR	
Chloride		NR		
Cyanide, total		NR		
Sulfate		NR		
Sulfide		NR		
Sulfite		NR		



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**Result Summary - ZDHC Sludge Parameters**

Test Items	Sludge	Leachate
Antimony	ND	NR
Arsenic	ND	NR
Barium	ND	NR
Cadmium	ND	NR
Coblat	ND	NR
Copper	ND	NR
Lead	ND	NR
Nickel	ND	NR
Selenium	ND	NR
Silver	ND	NR
Total Chromium	ND	NR
Zinc	ND	NR
Chromium (VI)	ND	NR
Mercury	ND	NR
Cyanide	Refer to result	NR
pH	Refer to result	
% Solids	Refer to result	
Paint Filter Test	Refer to result	
Fecal Coliform	Refer to result	
AP and APEOs	Refer to result	
PAHs	Refer to result	
Chlorotoluenes	Refer to result	

## Note / Key:

Meet	=	Meet Foundational Limit / Meet Discharge Criteria
<b>Not Meet</b>	=	Exceed Foundational Limit / Exceed Discharge Criteria
NR	=	Not requested / Not required
NA	=	Not applicable
<b>D</b>	=	Detected
ND	=	Not detected
Refer to result	=	Legal parameter(s) and/or parameter(s) requested by factory, please refer to test result



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**Test Result - ZDHC MRSL Parameters**

Test Parameters	Results of Test Items					Requirements [Textile]		
	I001	I002	I003 <sup>#</sup>	I004 <sup>#</sup>	I005	Wastewater	Sludge <sup>#</sup>	Leachate <sup>#</sup>
	(µg/L)	(µg/L)	(mg/kg)	(mg/L)	(µg/L)	(µg/L)	(mg/kg)	-
<b>1A) AP and APEOs: including all isomers</b>								
NPEO	ND	NR	ND	NR	NR	5	0.4	-
NP, mixed isomers	ND		ND		NR			
OPEO	ND		ND		NR			
OP, mixed isomers	ND		ND		NR			
<b>1B) Anti-Microbials &amp; Biocides</b>								
o-Phenylphenol (+salts)	ND	NR	NR	NR	NR	100	-	-
Triclosan	ND				NR			
Permethrin	ND				NR			
<b>1C) Chlorinated Parafins</b>								
MCCPs (C14-C17)	ND	NR	NR	NR	NR	500	-	-
SCCPs (C10-C13)	ND				NR			
<b>1D) Chlorobenzenes and Chlorotoluenes</b>								
1,2-dichlorobenzene	ND	NR	NR	NR	NR	0.2	-	-
Other isomers of mono-, di-, tri-, tetra-, penta- and hexa- chlorobenzene	ND		NR					
Other isomers of mono-, di-, tri-, tetra- and penta- chlorotoluene	ND		ND					
<b>1E) Chlorophenols</b>								
2-chlorophenol	ND	NR	NR	NR	NR	0.5	-	-
3-chlorophenol	ND							
4-chlorophenol	ND							
2,3-dichlorophenol	ND							
2,4-dichlorophenol	ND							
2,5-dichlorophenol	ND							
2,6-dichlorophenol	ND							
3,4-dichlorophenol	ND							
3,5-dichlorophenol	ND							
2,3,4-trichlorophenol	ND							
2,3,5-trichlorophenol	ND							
2,3,6-trichlorophenol	ND							
2,4,5-trichlorophenol	ND							
2,4,6-trichlorophenol	ND							
3,4,5-trichlorophenol	ND							
2,3,5,6-tetrachlorophenol	ND							
2,3,4,6-tetrachlorophenol	ND							
2,3,4,5-tetrachlorophenol	ND							
Pentachlorophenol (PCP)	ND							
<b>1F) N,N-di-methylformamide (DMFa)</b>								
Dimethyl formamide; N,N-dimethylformamide (DMFa) <sup>a</sup>	ND	NR	NR	NR	NR	1000	-	-

a = Report only for mock leather

#Limit refers to the chosen ZDHC sludge disposal pathway in Table 4 in accordance with the ZDHC Wastewater Guidelines.



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**Test Result - ZDHC MRSL Parameters (continued)**

Test Parameters	Results of Test Items					Requirements [Textile]		
	I001 (µg/L)	I002 (µg/L)	I003# (mg/kg)	I004# (mg/L)	I005 (µg/L)	Wastewater (µg/L)	Sludge # (mg/kg)	Leachate# -
<b>1G) Dyes - Carcinogenic or Equivalent Concern</b>								
Basic violet 3 with >0.1% of Michler's Ketone	ND	NR	NR	NR	NR	500	-	-
C.I. Acid Red 26	ND				NR			
C.I. Acid Violet 49	ND				NR			
C.I. Basic Blue 26 (with Michler's Ketone >0/1%)	ND				NR			
C.I. Basic Green 4 (Malachite Green Chloride)	ND				NR			
C.I. Basic Green 4 (Malachite Green Oxalate)	ND				NR			
C.I. Basic Green 4 (Malachite Green)	ND				NR			
C.I. Basic Red 9	ND				NR			
C.I. Basic Violet 14	ND				NR			
C.I. Direct Black 38	ND				NR			
C.I. Direct Blue 6	ND				NR			
C.I. Direct Red 28	ND				NR			
C.I. Disperse Blue 1	ND				NR			
C.I. Disperse Blue 3	ND				NR			
Disperse Orange 11	ND				NR			
<b>1H) Dyes - Disperse (Allergenic)</b>								
Disperse Blue 102	ND	NR	NR	NR	NR	50	-	-
Disperse Blue 106	ND				NR			
Disperse Blue 124	ND				NR			
Disperse Blue 26	ND				NR			
Disperse Blue 35 (CAS 12222-75-2)	ND				NR			
Disperse Blue 35 (CAS 56524-77-7)	ND				NR			
Disperse Blue 7	ND				NR			
Disperse Brown 1	ND				NR			
Disperse Orange 1	ND				NR			
Disperse Orange 3	ND				NR			
Disperse Orange 37/59/76	ND				NR			
Disperse Red 1	ND				NR			
Disperse Red 11	ND				NR			
Disperse Red 17	ND				NR			
Disperse Yellow 1	ND				NR			
Disperse Yellow 3	ND				NR			
Disperse Yellow 39	ND				NR			
Disperse Yellow 49	ND				NR			
Disperse Yellow 9	ND	NR						
<b>1I) Dyes - Navy Blue Colourant</b>								
Component 1: C39H23Cl-CrN7O12S 2Na	ND	NR	NR	NR	NR	500	-	-
Component 2: C46H-30CrN10O20S2 3Na	ND				NR			

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**Test Result - ZDHC MRSL Parameters (continued)**

Test Parameters	Results of Test Items					Requirements [Textile]		
	I001 (µg/L)	I002 (µg/L)	I003 <sup>#</sup> (mg/kg)	I004 <sup>#</sup> (mg/L)	I005 (µg/L)	Wastewater (µg/L)	Sludge <sup>#</sup> (mg/kg)	Leachate <sup>#</sup> -
<b>1J) Flame Retardants</b>								
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	ND	NR	NR	NR	NR	25	-	-
Dis(2,3-dibromopropyl) phosphate (BIS)	ND				NR			
Decabromophenyl ether (DecaBDE)	ND				NR			
Hexabromocyclodecane (HBCDD)	ND				NR			
Octabromodiphenyl ether (OctaBDE)	ND				NR			
Pentabromodiphenyl ether (PentaBDE)	ND				NR			
Polybromobiphenyls (PBB)	ND				NR			
Tetrabromobisphenol A (TBBPA)	ND				NR			
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	ND				NR			
Tris(1-aziridinyl)phosphone oxide (TEPA)	ND				NR			
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	ND				NR			
Tris(2-chloroethyl) phosphate (TCEP)	ND				NR			
Tris(2,3-dibromopropyl) phosphate (TRIS)	ND				NR			
Decabromobiphenyl (DecaBB)	ND				NR			
Dibromobiphenyls (DiBB)	ND				NR			
Octabromobiphenyls (OctaBB)	ND				NR			
Dibromopropylether	ND				NR			
Heptabromodiphenyl ether (HeptaBDE)	ND				NR			
Hexabromodiphenyl ether (HexaBDE)	ND				NR			
Monobromobiphenyls (MonoBB)	ND				NR			
Monobromodiphenylethers (MonoBDEs)	ND				NR			
Nonabromobiphenyls (NonaBB)	ND				NR			
Nonabromodiphenyl ether (NonaBDE)	ND				NR			
Tetrabromodiphenyl ether (TetraBDE)	ND				NR			
Tribromophenylethers (TriBDEs)	ND				NR			
Boric acid <sup>b</sup>	ND				NR			
Diboron trioxide <sup>b</sup>	ND				NR			
Disodium octaborate <sup>b</sup>	ND				NR			
Disodium tetraborate anhydrous <sup>b</sup>	ND	NR						
Tetraboron disodium heptaoxide, hydrate <sup>b</sup>	ND	NR						
<b>1K) Glycols / Glycol Ethers</b>								
2-ethoxyethanol	ND	NR	NR	NR	NR	50	-	-
2-ethoxyethyl acetate	ND				NR			
2-methoxyethanol	ND				NR			
2-methoxyethylacetate	ND				NR			
2-methoxypropylacetate	ND				NR			
Bis(2-methoxyethyl)-ether	ND				NR			
Ethylene glycol dimethyl ether	ND				NR			
Triethylene glycol dimethyl ether	ND				NR			
<b>1L) Halogenated Solvents</b>								
1,2-dichloroethane	ND	NR	NR	NR	NR	1	-	-
Methylene chloride	ND				NR			
Tetrachloroethylene	ND				NR			
Trichloroethylene	ND				NR			

b = Limit refers to elemental boron, not the salt.

#Limit refers to the chosen ZDHC sludge disposal pathway in Table 4 in accordance with the ZDHC Wastewater Guidelines.



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**Test Result - ZDHC MRSL Parameters (continued)**

Test Parameters	Results of Test Items					Requirements [Textile]								
	I001 (µg/L)	I002 (µg/L)	I003 <sup>#</sup> (mg/kg)	I004 <sup>#</sup> (mg/L)	I005 (µg/L)	Wastewater (µg/L)	Sludge <sup>#</sup> (mg/kg)	Leachate <sup>#</sup> -						
<b>1M) Organotin Compounds</b>														
Dipropyltin compounds (DPT)	ND	NR	NR	NR	NR	0.01	-	-						
Mono, di-, and tri-butyltin derivatives	ND													
Mono, di-, and tri-methyltin derivatives	ND													
Mono, di-, and tri-octyltin derivatives	ND													
Mono, di-, and tri-phenyltin derivatives	ND													
Tetraethyltin compounds (TeBT)	ND													
Tripropyltin compounds (TPT)	ND													
Tetraoctyltin compounds (TeOT)	ND													
Tricyclohexyltin (TCyHT)	ND													
Tetraethyltin compounds (TeET)	ND													
<b>1N) Other / Miscellaneous Chemicals</b>														
AEEA [2-(2-aminoethylamino)ethanol]	ND				NR				NR	NR	NR	500	-	-
Bisphenol A	ND	10												
Thiourea	ND	50												
Quinoline	ND	100												
Borate, zinc salt <sup>c</sup>	ND	-												
Silica (used in sand blasting) <sup>d</sup>	NR	-												
<b>1O) Perfluorinated and Polyfluorinated Chemicals (PFCs)</b>														
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	ND	NR	NR	NR	NR	0.01	-	-						
Perfluorooctanoic acid (PFOA) related substances	ND				1									
<b>1P) Phthalates - including all other esters of ortho-phthalic acid</b>														
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP)	ND	NR	NR	NR	NR	10	-	-						
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)	ND													
Bis(2-methoxyethyl)phthalate (DMEP)	ND													
Butyl benzyl phthalate (BBP)	ND													
Di-cyclohexyl phthalate (DCHP)	ND													
Di-iso-decyl phthalate (DIDP)	ND													
Di-iso-octyl phthalate (DIOP)	ND													
Di-iso-butyl phthalate (DIBP)	ND													
Di-iso-nonyl phthalate (DINP)	ND													
Di-n-hexyl phthalate (DnHP)	ND													
Di-n-octyl phthalate (DNOP)	ND													
Di-n-pentylphthalates	ND													
Di-n-propyl phthalate (DPRP)	ND													
Di(ethylhexyl) phthalate (DEHP)	ND													
Dibutyl phthalate (DBP)	ND													
Diethyl phthalate (DEP)	ND													
Diisopentylphthalates	ND													
Dinonyl phthalate (DNP)	ND													

c = Limit refers to elemental boron and/or zinc, not the salt.

d = Not a ZDHC wastewater parameter, and not required to test this parameter as this is related to sand blasting

#Limit refers to the chosen ZDHC sludge disposal pathway in Table 4 in accordance with the ZDHC Wastewater Guidelines.





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**Test Result - ZDHC MRSL Parameters (continued)**

Test Parameters	Results of Test Items					Requirements [Textile]		
	I001	I002	I003 <sup>#</sup>	I004 <sup>#</sup>	I005	Wastewater	Sludge <sup>#</sup>	Leachate <sup>#</sup>
	(µg/L)	(µg/L)	(mg/kg)	(mg/L)	(µg/L)	(µg/L)	(mg/kg)	-
<b>1Q) Polycyclic Aromatic Hydrocarbons (PAHs)</b>								
Acenaphthene	ND		ND		NR			
Acenaphthylene	ND		ND		NR			
Anthracene	ND		ND		NR			
Benzo[a]anthracene	ND		ND		NR			
Benzo[a]pyrene (BaP)	ND		ND		NR			
Benzo[b]fluoranthene	ND		ND		NR			
Benzo[e]pyrene	ND		ND		NR			
Benzo[ghi]perylene	ND		ND		NR			
Benzo[j]fluoranthene	ND	NR	ND	NR	NR	1	0.2	-
Benzo[k]fluoranthene	ND		ND		NR			
Chrysene	ND		ND		NR			
Dibenz[a,h]anthracene	ND		ND		NR			
Fluoranthene	ND		ND		NR			
Fluorene	ND		ND		NR			
Indeno[1,2,3-cd]pyrene	ND		ND		NR			
Naphthalene	ND		ND		NR			
Phenanthrene	ND		ND		NR			
Pyrene	ND		ND		NR			
<b>1R) Restricted Aromatic Amines (Cleavable from Azo-colourants)</b>								
2-naphthylamine	ND				NR			
2-naphthylammoniumacetate	ND				NR			
2,4-xylidine	ND				NR			
2,4,5-trimethylaniline	ND				NR			
2,4,5-trimethylaniline hydrochloride	ND				NR			
2,6-xylidine	ND				NR			
3,3'-dichlorobenzidine	ND				NR			
3,3-dimethoxybenzidine	ND				NR			
3,3-dimethylbenzidine	ND				NR			
4-aminoazobenzene	ND				NR			
4-aminodiphenyl	ND				NR			
4-chloro-o-toluidine	ND				NR			
4-chloro-o-toluidinium chloride	ND				NR			
4-chloroaniline	ND				NR			
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	ND	NR	NR	NR	NR	0.1	-	-
4-methoxy-m-phenylenediamine	ND				NR			
4-methyl-m-phenylenediamine	ND				NR			
4,4-methylene-bis-(2-chloro-aniline)	ND				NR			
4,4-methylenedi-o-toluidine	ND				NR			
4,4-methylenedianiline	ND				NR			
4,4-oxydianiline	ND				NR			
4,4-thiodianiline	ND				NR			
5-nitro-o-toluidine	ND				NR			
6-methoxy-m-toluidine	ND				NR			
Benzidine	ND				NR			
o-aminoazotoluene	ND				NR			
o-anisidine	ND				NR			
o-toluidine	ND				NR			

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**Test Result - ZDHC MRSL Parameters (continued)**

Test Parameters	Results of Test Items					Requirements [Textile]		
	I001	I002	I003 <sup>#</sup>	I004 <sup>#</sup>	I005	Wastewater	Sludge <sup>#</sup>	Leachate <sup>#</sup>
	(µg/L)	(µg/L)	(mg/kg)	(mg/L)	(µg/L)	(µg/L)	(mg/kg)	-
<b>1S) UV Absorbers</b>								
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	ND	NR	NR	NR	NR	100	-	-
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	ND				NR			
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	ND				NR			
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	ND				NR			
<b>1T) Volatile Organic Compounds (VOC)</b>								
Benzene	ND	NR	NR	NR	NR	1	-	-
m-cresol	ND				NR			
o-cresol	ND				NR			
p-cresol	ND				NR			
Xylene	ND				NR			
Toluene <sup>a</sup>	ND				NR			

a = Report only for mock leather

#Limit refers to the chosen ZDHC sludge disposal pathway in Table 4 in accordance with the ZDHC Wastewater Guidelines.



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**Test Result - ZDHC Heavy Metals Parameters**

Test Parameters	Unit			Results of Test Items					Requirements [Textile]				
	Wastewater	Sludge	Leachate	I001	I002	I003#	I004#	I005	Wastewater			Sludge	
									Foundational	Progressive	Aspirational	Discharge Limit	Sludge Threshold Values
<b>ZDHC Heavy Metals</b>													
Antimony	mg/L	mg/kg	mg/L	NR	NR	ND	NR	NR	0.1	0.05	0.01	-	12
Chromium (VI)	mg/L	mg/kg	mg/L		ND	ND	NR	NR	0.05	0.005	0.001	-	50
Barium	mg/L	mg/kg	mg/L		NR	ND	NR	NR	Sample & Report			-	700
Selenium	mg/L	mg/kg	mg/L		NR	ND	NR	NR	Sample & Report			-	10
Tin	mg/L	-	-		NR	NR	NR	NR	Sample & Report			-	-
Arsenic	mg/L	mg/kg	mg/L		ND	ND	NR	NR	0.05	0.01	0.005	-	10
Total Chromium	mg/L	mg/kg	mg/L		NR	ND	NR	NR	0.2	0.1	0.05	-	100
Cobalt	mg/L	mg/kg	mg/L		NR	ND	NR	NR	0.05	0.02	0.01	-	1600
Cadmium	mg/L	mg/kg	mg/L		ND	ND	NR	NR	0.1	0.05	0.01	-	3
Copper	mg/L	mg/kg	mg/L		NR	ND	NR	NR	1	0.5	0.25	-	200
Lead	mg/L	mg/kg	mg/L		ND	ND	NR	NR	0.1	0.05	0.01	-	10
Nickel	mg/L	mg/kg	mg/L		NR	ND	NR	NR	0.2	0.1	0.05	-	70
Silver	mg/L	mg/kg	mg/L		NR	ND	NR	NR	0.1	0.05	0.005	-	100
Zinc	mg/L	mg/kg	mg/L		NR	ND	NR	NR	5	1	0.5	-	1000
Mercury	mg/L	mg/kg	mg/L		ND	ND	NR	NR	0.01	0.005	0.001	-	1

#Limit refers to the chosen ZDHC sludge disposal pathway in Table 4 in accordance with the ZDHC Wastewater Guidelines.



Test Report: (9323)130-1905

Report Date: May 23, 2023

**Test Result - ZDHC Conventional and Anions Parameters**

Test Parameters	Unit			Results of Test Items					Requirements [Textile]					
	Wastewater	Sludge	Leachate	I001	I002	I003#	I004#	I005	Wastewater			Sludge		
									Foundational	Progressive	Aspirational	Discharge Limit	Sludge Threshold Values	
<b>ZDHC Conventional</b>														
pH	pH					7.33				6 - 9			-	
Temparture difference	Δ °C									15	10	5	-	
E.coli	MPN/100-ml									126			-	
Colour (436 nm)	m <sup>-1</sup>									7	5	2	-	
Colour (525 nm)	m <sup>-1</sup>									5	3	1	-	
Colour (620 nm)	m <sup>-1</sup>									3	2	1	-	
Persistent Foam	-									No indication of Persistent Foam			-	
Wastewater Flowrate	m <sup>3</sup> /day									-			-	
Ammonium-Nitrogen	mg/L									10	1	0.5	-	
AOX	mg/L									3	0.5	0.1	-	
BOD <sub>5</sub>	mg/L									30	15	8	-	
COD	mg/L					NR				150	80	40	-	
DO	mg/L				NR		NR			Sample & Report			-	
Oil & Grease	mg/L									10	2	0.5	-	
Total Phenols / Phenol Index	mg/L									0.5	0.01	0.001	-	
Total Chlorine	mg/L									Sample & Report			-	
TDS	mg/L									-			-	
Total Nitrogen	mg/L									20	10	5	-	
Total Phosphorus	mg/L									3	0.5	0.1	-	
TSS	mg/L									50	15	5	-	
% Solids	-	%				32.29				-			-	
Paint Filter Test	-	-				Pass				-			-	
Fecal Coliform	-	MPN/g				1600				-			-	
<b>ZDHC Anions</b>														
Chloride	mg/L	-	-			NR				Sample & Report			-	
Cyanide, total	mg/L	mg/kg	-			ND				0.2	0.1	0.05	-	
Sulfate	mg/L			NR	NR		NR	NR		Sample & Report			-	
Sulfide	mg/L	-	-			NR				0.5	0.05	0.01	-	
Sulfite	mg/L									2	0.5	0.2	-	

#Limit refers to the chosen ZDHC sludge disposal pathway in Table 4 in accordance with the ZDHC Wastewater Guidelines.



Test Report: (9323)130-1905

Report Date: May 23, 2023

**Appendix A - Discharge limit according to regulation / contract limit with CETP****(二) 排放许可限值**

表 8 废水污染物排放

序号	排放口编号	排放口名称	污染物种类	许可排放浓度限值	许可年排放量限值 (t/a)				
					第一年	第二年	第三年	第四年	第五年
主要排放口									
1	DW001		总氮 (以 N 计)	30mg/L	/	/	/	/	/
2	DW001		pH 值	6-9	/	/	/	/	/

11

序号	排放口编号	排放口名称	污染物种类	许可排放浓度限值	许可年排放量限值 (t/a)				
					第一年	第二年	第三年	第四年	第五年
3	DW001		悬浮物	100	/	/	/	/	/
4	DW001		氨氮 (NH <sub>3</sub> -N)	20mg/L	/	/	/	/	/
5	DW001		苯胺类	1	/	/	/	/	/
6	DW001		色度	80	/	/	/	/	/
7	DW001		硫化物	0.5	/	/	/	/	/
8	DW001		五日生化需氧量	150	/	/	/	/	/
9	DW001		化学需氧量	500mg/L	/	/	/	/	/
10	DW001		总磷 (以 P 计)	1.5	/	/	/	/	/
主要排放口合计		COD <sub>cr</sub>			1050	1050	1050	1050	1050
		氨氮			42	42	42	42	42
		总氮 (以 N 计)			63	63	63	63	63
一般排放口									
一般排放口合计		COD <sub>cr</sub>							
		氨氮							
全厂排放口总计									
全厂排放口总计		COD <sub>cr</sub>			1050	1050	1050	1050	1050
		氨氮			42	42	42	42	42
		总氮 (以 N 计)			63	63	63	63	63



Test Report: (9323)130-1905

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Appendix B - Sample Photos

I001) Sampling point  
N 24° 44' 29", E 118° 45' 23"



I001) Sampling location surrounding  
N 24° 44' 29", E 118° 45' 23"



I001) Labelled sample bottles



I001) Sample for phthalate test



I001) Sample packaging



I002) Sampling point  
N 24° 44' 27", E 118° 45' 09"



I002) Sampling location surrounding  
N 24° 44' 27", E 118° 45' 09"



I002) Labelled sample bottles



I002) pH measurement



I002) Sample packaging





Test Report: (9323)130-1905

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**Appendix B - Sample Photos (continued)**

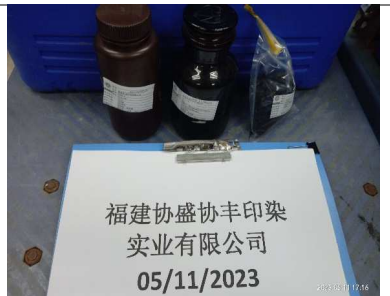
**I003) Sampling point**  
N 24° 44' 29", E 118° 45' 24"



**I003) Sampling location surrounding**  
N 24° 44' 29", E 118° 45' 24"



**I003) Labelled sample bottles**



**I003) Sample packaging**



**I005) Sampling point**  
<Geolocation>

**I005) Sampling location surrounding**  
<Geolocation>

**I005) Labelled sample bottles**

Not tested	Not tested	Not tested
------------	------------	------------

**I005) pH measurement**

**I005) Sample packaging**

Not tested	Not tested
------------	------------



Test Report: (9323)130-1905

Report Date: May 23, 2023

**Appendix C - On-site Field Data Record Sheet**

CPSD-AN-00613-DATA 04  
Issue Date: \_\_\_\_\_  
Version No.: 17  
Business Line: Analytical

**FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE  
(COMPOSITE / INDIVIDUAL SAMPLING)**

**General Data**

Laboratory Sample Number: \_\_\_\_\_

Client Name: \_\_\_\_\_

Field Contact Person: \_\_\_\_\_

Project (Facility Name and Address): \_\_\_\_\_

Sampling Location / Description: \_\_\_\_\_

Sample Identification: \_\_\_\_\_

Sample Type: \_\_\_\_\_

Name of Sampler: \_\_\_\_\_

Discharge mode: \_\_\_\_\_

Date of collection: 5/11/2023

Factory Type: \_\_\_\_\_

Zero discharge with sampling plan \_\_\_\_\_

Composite / Grab sample (Please denote as appropriate) \_\_\_\_\_

Direct discharge to environment (Specify destination: River, Sea, Stream, ) OR direct discharge to sewage treatment plant \_\_\_\_\_

Dyeing / Printing / Washing / Finishing / Others (please specify): \_\_\_\_\_

Remarks: \_\_\_\_\_

**Field Data for Wastewater**

Arrival Time: \_\_\_\_\_ Departure Time: 17:30

pH: 10.50 Temp: \_\_\_\_\_ °C Color: Black Flow rate: \_\_\_\_\_ (vol/vol/min)

Plant Parameters: \_\_\_\_\_

Control No. of field equipment: \_\_\_\_\_

Factory with effluent treatment plant: \_\_\_\_\_

Sample matrix:  Wastewater before treatment  Wastewater after treatment - water at discharge point

Sampler container number: I-01

Recording time	1	2	3	4	5	6	7	8
Time	<u>10:59</u>	<u>11:01</u>	<u>11:03</u>	<u>11:05</u>	<u>11:07</u>	<u>11:09</u>	<u>11:11</u>	<u>11:13</u>
pH	<u>10.59</u>	<u>10.59</u>	<u>10.59</u>	<u>10.59</u>	<u>10.59</u>	<u>10.59</u>	<u>10.59</u>	<u>10.59</u>
Temp (°C)	<u>Black</u>	<u>Black</u>	<u>Black</u>	<u>Black</u>	<u>Black</u>	<u>Black</u>	<u>Black</u>	<u>Black</u>
Color (visual estimation)	<u>Black</u>	<u>Black</u>	<u>Black</u>	<u>Black</u>	<u>Black</u>	<u>Black</u>	<u>Black</u>	<u>Black</u>
Flow rate (volume/time)	<u>3000</u>	<u>3000</u>	<u>3000</u>	<u>3000</u>	<u>3000</u>	<u>3000</u>	<u>3000</u>	<u>3000</u>
Volume collected, ml	<u>3000</u>	<u>3000</u>	<u>3000</u>	<u>3000</u>	<u>3000</u>	<u>3000</u>	<u>3000</u>	<u>3000</u>
Total volume collected	Remark: Total volume collected must be greater than total of sample size required							

**Analysis Required and Preservation Method**

Analysis Required	Test Required (SI)	Total of sample size	Type of container	Preservation method		
1. Metals	<input checked="" type="checkbox"/>	1000 ml, total or 1000 ml each	N 74° 6' 24" E 118° 45' 12"	Without adding acid Store sample at 2-8°C		
2. Chlorobenzenes, Chlorotoluene & PAHs	<input checked="" type="checkbox"/>	100 ml				
3. SV, CPs	<input checked="" type="checkbox"/>	100 ml				
4. APD	<input checked="" type="checkbox"/>	100 ml				
5. APFik	<input checked="" type="checkbox"/>	100 ml				
6. Chlorophenols & Cresols	<input checked="" type="checkbox"/>	100 ml				
7. Hydro sulfide	<input checked="" type="checkbox"/>	10 ml				
8. Dyes	<input checked="" type="checkbox"/>	50 ml				
9. Glycerol	<input checked="" type="checkbox"/>	1000 ml				
10. Pesticides	<input checked="" type="checkbox"/>	10 ml				
11. Nitrosamine	<input checked="" type="checkbox"/>	2000 ml				
12. Bombed Azoxyes	<input checked="" type="checkbox"/>	500 ml				
13. Free primary aromatic amines	<input checked="" type="checkbox"/>	500 ml				
14. Organotin Compounds	<input checked="" type="checkbox"/>	100 ml				
15. L2 substances	<input checked="" type="checkbox"/>	50 ml				
16. BPA	<input checked="" type="checkbox"/>	50 ml				
17. Phthalates	<input checked="" type="checkbox"/>	10 ml				
18. VOC & Halogenated Solvents (Remark 6)	<input checked="" type="checkbox"/>	2 ml			PE, washed with precision grade Acetone	Fill to full container without air gap; adjust to pH 2 with HCl and store sample at 2-8°C. Without adding acid Store sample at 2-8°C
19. PFCs (Remark 6)	<input checked="" type="checkbox"/>	2 ml				





Test Report: (9323)130-1905

Report Date: May 23, 2023

**Appendix C - On-site Field Data Record Sheet (continued)**

Tests (Conventional Parameters)		Test required (y)	Total of sample size	Type of container	Preservation method
Combined test or individual test (Remark 4)	20. Total suspended solids (TSS)		2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid.	Without adding acid. Store sample at 2-8°C.
	21. Total dissolved solids (TDS)		1000 mL		
22. 5-day Biochemical Oxygen Demand (BOD5)			100 mL		
23. Colour			9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO <sub>3</sub> and store at 2-8°C.
24. Heavy Metals except Cr(VI) & Total-P (Remark 5)			500 mL	Amber Glass, washed with pesticide grade acetone	Acidify pH 12 with 50% NaOH, add 0.25 mL of 10% H <sub>2</sub> SO <sub>4</sub> , and store sample at 2-8°C. Filter by 0.45 µm filter in 900 mL container without air gap. Add 10 mL of 10% ascorbic acid, 10 mL of 10% potassium buffer. Store sample at 2-8°C.
25. Cyanide			90 mL	Amber Glass, washed with nitric acid	Acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub> . Store sample at 2-8°C.
26. Cr(VI)			150 mL		
27. Chemical oxygen demand (COD)			500 mL	PE, washed with pesticide grade Acetone.	Fill to full container without air gap; acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub> and store sample at 2-8°C.
28. Phenols			1000 mL		
29. Oil and Grease & Total Hydrocarbon			25 mL	PE, clean, sterile, non reactive	Fill to full container without air gap; add 2 drops of 20% zinc acetate, adjust pH to 5 with 10% NaOH. Store sample at 2-8°C.
30. Formaldehyde			50 mL		
31. Sulfide (Remark 5)			125 mL	Amber Glass, washed with pesticide grade acetone	Add 0.1 mL of 10% NaOH/30% NaOH in 100 mL. Store sample at 2-8°C.
32. E. coli (Tombak 6)			N.A.		
33. Persulfate form			100 mL	Amber Glass, washed with nitric acid	Add 0.1 mL of 2.5% EDTA. Store sample at 2-8°C.
34. Sulfate			100 mL		
35. Total-N			500 mL	Amber Glass, washed with nitric acid	Acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub> . Store sample at 2-8°C.
36. Ammonium-N			100 mL		
37. Adenifiable organically bound halogens (AOX)			1000 mL	Amber Glass, washed with nitric acid	Without adding acid. Store sample at 2-8°C.
38. Acute aquatic toxicity: Luminous Bacteria, Fish Egg, Daphnia, Algae			100 mL		
39. Sulfate			100 mL		
40. Chloride			100 mL		
41. Conductivity			N.A.		
42. Dissolved oxygen (DO)			N.A.		
43. Total Dissolved Solids (TDS)			N.A.		
44. Others:					

- Remarks:
- Individual sampling can be performed upon request.
  - The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.
  - Scope of ZDHC guideline Parameters: 05, 12, 13, 29, 31, 37, 39-43.
  - Scope of ZDHC guideline Parameters: 18, 19, 14, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34, 35, 36, 38.
  - Free primary aromatic amines, pesticides, nitrosamine and formaldehyde are not in the scope of ZDHC Guideline, they are tested upon request.
  - Refer to CPSD-AN-00019-STREIL, biocide with those CPBU test capability inside TCFI items can perform the combined test.
  - Refer to CPSD-AN-000570-MTHD for additional preparation of sulfide if only dissolved sulfide is required to be tested.
  - Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by: 林进峰 Date: 5/11/2023  
 Full name: 林进峰  
 Company: 142106817203

Signature of Factory Representative: 田志松 Date: 2023-5-11  
 Full name: 田志松



Test Report: (9323)130-1905

Report Date: May 23, 2023

**Appendix C - On-site Field Data Record Sheet (continued)**

CPSD-AN-00613-DATA 04  
Issue Date: \_\_\_\_\_  
Version No.: 17  
Business Line: Analytical

**FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE**  
 (COMPOSITE / INDIVIDUAL SAMPLING)

**General Data**  
 Laboratory Sample Number: \_\_\_\_\_  
 Client Name: \_\_\_\_\_  
 First Contact Person: \_\_\_\_\_  
 Project (Facility Name and Address): \_\_\_\_\_  
 Sampling Location / Description: \_\_\_\_\_  
 Sample Identification: \_\_\_\_\_  
 Sample Type: \_\_\_\_\_  
 Name of Sampler: \_\_\_\_\_  
 Discharge mode: \_\_\_\_\_  
 Date of collection: \_\_\_\_\_  
 Factory Type: \_\_\_\_\_

Zero discharge with sampling plan  
 Composite Sample / Grab sample (Please define as appropriate)  
 Rest discharge in environment (Specify destination: River, Sea, Stream...) OR  Not discharge to sewage treatment plant  
 Open / Perking / Washing / Finishing / Others (please specify): \_\_\_\_\_  
 \*Note: it would be selected more than one

**Field Data for Wastewater**  
 Arrival Time: \_\_\_\_\_ Departure Time: \_\_\_\_\_  
 Field Parameters: pH: \_\_\_\_\_ Temp: \_\_\_\_\_ °C Color: \_\_\_\_\_ (pcu) Turbidity: \_\_\_\_\_ (ntu)  
 Control No. of field equipment: \_\_\_\_\_  
 Factory with effluent treatment plant: \_\_\_\_\_  
 Sample matrix: \_\_\_\_\_  
 Sampler container number: \_\_\_\_\_  
 Recording time: \_\_\_\_\_  
 pH: \_\_\_\_\_  
 Temp (°C): \_\_\_\_\_  
 Color (visual estimation): \_\_\_\_\_  
 Flow rate (volumetric): \_\_\_\_\_  
 Volume collected, mL: \_\_\_\_\_  
 Total volume collected: \_\_\_\_\_

ID	Time							
	1	2	3	4	5	6	7	8
12:01	12:00	12:23	12:01	14:59	16:01	17:02		
pH:								
Temp (°C):								
Color (visual estimation):	light yellow	light yellow	light yellow	light yellow	light yellow	light yellow	light yellow	
Flow rate (volumetric):	7000	7000	7000	7000	7000	7000	7000	
Volume collected, mL:	7000	7000	7000	7000	7000	7000	7000	
Total volume collected:	56000							

**Analysis Required and Preservation Method**

Test (ID#) / M/S/ Parameters	Test Required (Y/N)	Vol of sample size	Type of container	Preservation method	
1. Phosphate 2. Chlorobenzenes, Chloroethylenes & PAH 3. SOCs 4. APS		1000 mL total or 1000 mL each	amber glass washed with HCl, etc.	Wettable adding acid store sample at 2-8°C	
	5. APEDs				100 mL
	6. Chlorophenols & Cresols				100 mL
	7. Planting retention				10 mL
8. Dyes		50 mL			
9. Glycol		1000 mL			
10. Phthalates		10 mL			
11. Nitrosamine		2000 mL			
12. Barred Azodyes		500 mL			
13. Free primary aromatic amines		500 mL			
14. Organotin Compounds		100			
15. Organophosphates		2			
16. BPA		50			
17. Fluorinated		10 mL			
18. VOC & Hydrogenated Solvents (Remark G)		10 mL	FE, washed with paraffin grease Acetone	Wettable adding acid Store sample at 2-8°C	
19. PFCA (Remark G)		2 mL			



Test Report: (9323)130-1905

Report Date: May 23, 2023

Appendix C - On-site Field Data Record Sheet (continued)

Tests (Conventional Parameters)		Test required (Y/N)	Total of sample size	Type of container	Preservation method
Contained test or individual test (Remark 4)	20. Total suspended solids (TSS)		2000 mL total of	Amber Glass, washed with nitric acid.	Without adding acid Store sample at 2-8°C
	21. Total dissolved solids (TDS)		2000 mL each		
22. 5-day Biochemical Oxygen Demand (BOD5)			1000 mL		
23. Colour			100 mL		
24. Heavy Metals except Cr(VI) & Total-P (Remark 6)		✓	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO <sub>3</sub> and store at 2-8°C
25. Cyanide			500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH to 12 with 50% NaOH, add 0.5 mL of 10% Na <sub>2</sub> O <sub>2</sub> and store sample at 2-8°C
26. Cr(VI)		✓	95 mL		Fill to full container without air gap; fill to full container without air gap, adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 2-8°C
27. Chemical oxygen demand (COD)			150 mL	Amber Glass, washed with nitric acid	Acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub> Store sample at 2-8°C
28. Phenols			500 mL		
29. Oil and Grease & Total Hydrocarbon			1000 mL		Fill to full container without air gap; acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub> and store sample at 2-8°C
30. Formaldehyde			25 mL		Fill to full container without air gap; add 2 drops of 2M zinc acetate; adjust pH to 8 with 50% NaOH. Store sample at 2-8°C
31. Sulfide (Remark 5)			50 mL	PE, washed with pesticide grade acetone.	Add 0.1 mL of 10% Na <sub>2</sub> SO <sub>3</sub> keep in dark. Store sample at 2-8°C
32. E. coli (Remark 6)			125 mL	PE, clean, sterile, non reactive	
33. Persistent Inert			N/A	Filter paper larger than 45 cm (unless otherwise specified)	Yes / No
34. Sulfite			100 mL	Amber Glass, washed with pesticide grade acetone	Add 1 mL of 2.5% EDTA. Store sample at 2-8°C
35. Total-N			100 mL	Amber Glass, washed with nitric acid.	Acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub> . Store sample at 2-8°C
36. Ammonium-N			500 mL		Acidify to pH 2 with HNO <sub>3</sub> and store at 2-8°C
37. Adsorbable organically bound halogens (AOX)			100 mL		
38. Acute aquatic toxicity: Luminescent Bacteria, Fish Eggs, Daphnia, Algae			1000 mL		
39. Sulfate			100 mL		Without adding acid Store sample at 2-8°C
40. Chloride			100 mL		
41. Cyanide			100 mL		
42. Residual chlorine			N/A		Refer to 4.6.6
43. Total phosphorus			N/A		
44. Other:					

Observation/Remark

\*Remarks:  
 1. Individual sampling can be performed upon request  
 2. The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time must be adjusted upon request  
 3. Scope of ZDHC guideline: Parameters: 1, 2, 12, 29, 30, 37, 39, 40  
 Scope of ZDHC guideline: Parameters: 1, 2, 12, 29, 30, 37, 39, 40  
 Scope of OCA: Parameters: 1, 2, 12, 29, 30, 37, 39, 40  
 First primary aromatic amine, pesticides, nitrosamine and formaldehyde are not in the scope of ZDHC Guideline. They are tested upon request  
 4. Refer to CPSD-AN-00078-5 (BOD) guidelines with their CPD test capability matrix. COD matrix can perform the combined test  
 5. Refer to CPSD-AN-000570 (MTHO) for additional preservation of sulfide if any dissolved sulfide is required to be tested  
 6. Refer to CPSD-AN-00613-MTHO for preparation of flow blank for specific parameters

Recorded by: 董校军 林沛霖 Date: 5/11/2023  
 Full Name: 董校军 林沛霖

Signature of Factory Representative: 田志松 Date: 2023.5.11  
 Full Name: 田志松



Test Report: (9323)130-1905

Report Date: May 23, 2023

Appendix C - On-site Field Data Record Sheet (continued)

		<b>FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE</b> (COMPOSITE / INDIVIDUAL SAMPLING)		CPSD-AN-00613-DATA 04 Issue Date: _____ Version No.: 17 Business Line: Analytical	
--	--	----------------------------------------------------------------------------------------	--	--------------------------------------------------------------------------------------------	--

Field Data for Station		Departure Time: 17:20	
Arrival Time: 10:50	pH: _____	Temp: _____ °C	Flow rate (volumetric) / sludge flux (weight/time): _____
Control No. of field equipment: _____			
Recording time	ID	1	2
Time		3	4
		5	6
		7	8
pH: _____		Temp (°C): _____	
Flow rate (volumetric) / sludge flux (weight/time): _____		Volume collected, ml: _____	
Total volume collected: _____		Remark: Total volume collected must be greater than total of sample size required	

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 074010687  
 074010687  
 5/11/2023

Analysis Required and Preservation Method		Yes	No
Factory with effluent treatment plant			
Sample matrix		Sludge in clarifier (sedimentation tank)	
Sampler container number			
Recording time			
Tests (MRSL Parameter)	Test required (Y)	Total of sample size	Preservation method
1. Phthalate			
2. Chlorobenzene, Chlorotoluene & PAHs	✓	10g total or 10g each	Amber Glass, washed with nitric acid  Add 0.2 mL of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> (0.006% W/W). Store sample at 4°C
3. SCCPs	✓		
4. APS	✓		
5. APEOS	✓	20 g	
6. Flame retardant		10 g	Amber Glass, washed with nitric acid  Addify to -pH 2 with H <sub>2</sub> SO <sub>4</sub> . Add 0.02 mL of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> (0.006% W/W). Store sample at 4°C
7. Dyes		10 g	
8. Glycols		100 g	
9. Pesticides		20g	
10. Benzeno Acetylen		20 g	
11. Free primary aromatic amines		10 g	
12. Chlorophenols & Cresols		20 g	
13. Organotin Compounds		10 g	
14. VOC & Halogenated Solvents (Remark 5)		10 g	
15. PPCs (Remark 5)		10 g	

Handwritten note: 田志桂

Tests (Conventional Parameters)	Test required (Y)	Total of sample size	Type of container	Preservation method
16. Heavy Metals except Cr(VI) (Remark 5)	✓	0.2 g	PE, wash with nitric acid	Addify to -pH 2 with HNO <sub>3</sub> . Store sample at 4°C
17. Cr(VI)	✓	2.5 g		
18. Adsorbable organically bound halogens (AOX)		1.0	Amber Glass, wash with nitric acid	Fill to full container without any air gap and add and store at 4°C
19. Extractable organohalides (EOX)		20 g		
20. Total organic carbon (TOC)		20 g		
21. Cyanide	✓	60 g	Amber Glass, wash with pesticide grade acetone	Adjust pH to 12-13 with 50% NaOH and store at 4°C
22. Fecal Coliform	✓	20 g	PE, clean, sterile, non-reactive	Add 0.1 ml of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> (0.006% W/W) in dark. Store sample at 2-4°C
23. % Solids	✓	20 g	Amber Glass, wash with nitric acid	Addify to -pH 2 with HNO <sub>3</sub> . Store sample at 4°C
24. Pencil Filter Test	✓	20 g		



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**Appendix D - Test methods, reporting limits and CAS numbers**

Test Parameters	Unit		CAS No.	LOQ		Test methods
	Wastewater	Sludge		Wastewater	Sludge	
<b>1A) AP and APEOs: including all isomers</b>						
Nonylphenol ethoxylates (NPEO)	µg/L	mg/kg	9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	5	0.4	NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-MS)), OPEO/NPEO (n>2): ASTM D7742 ISO 18857-2
Nonylphenol (NP), mixed isomers			104-40-5, 11066-49-2, 25154-52-3, 84852-15-3			
Octylphenol ethoxylates (OPEO)			9002-93-1, 9036-19-5, 68987-90-6			
Octylphenol (OP), mixed isomers			140-66-9, 1806-26-4, 27193-28-8			
<b>1B) Anti-Microbials &amp; Biocides</b>						
o-Phenylphenol (+salts)	µg/L	-	90-43-7	100	-	USEPA 8270E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS BS EN 12673-1999
Triclosan			3380-34-5			
Permethrin			Multiple	500		
<b>1C) Chlorinated Paraffins</b>						
Medium-chain chlorinated paraffins (MCCPs) (C14-C17)	µg/L	-	85535-85-9	500	-	EPA 3510 and analyzed by ISO18219-2:2021 Method for MCCP with GC-MS(NCI) or LC-MS/MS
Short-chain chlorinated paraffins (SCCPs) (C10-C13)			85535-84-8	25		
<b>1D) Chlorobenzenes and Chlorotoluenes</b>						
1,2-dichlorobenzene	µg/L	-	95-50-1	0.2	-	USEPA 8260D, 8270E, Purge and Trap, Head Space, Dichloromethane extraction followed by GC-MS
Other isomers of mono-, di, tri-, tetra-, and hexa- chlorobenzene			Multiple			
Other isomers of mono-, di-, tri-, tetra-, and penta- chlorotoluene		mg/kg				
<b>1E) Chlorophenols</b>						
2-chlorophenol	µg/L	-	95-57-8	0.5	-	USEPA 8270E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS, BS EN 12673-1999 the procedure of solvent extraction and derivatization are included
3-chlorophenol			108-43-0			
4-chlorophenol			106-48-9			
2,3-dichlorophenol			576-24-9			
2,4-dichlorophenol			120-83-2			
2,5-dichlorophenol			583-78-8			
2,6-dichlorophenol			87-65-0			
3,4-dichlorophenol			95-77-2			
3,5-dichlorophenol			591-35-5			
2,3,4-trichlorophenol			15950-66-0			
2,3,5-trichlorophenol			933-78-8			
2,3,6-trichlorophenol			933-75-5			
2,4,5-trichlorophenol			95-95-4			
2,4,6-trichlorophenol			88-06-2			
3,4,5-trichlorophenol			609-19-8			
2,3,5,6-tetrachlorophenol			935-95-5			
2,3,4,6-tetrachlorophenol			58-90-2			
2,3,4,5-tetrachlorophenol	4901-51-3					
Pentachlorophenol (PCP)	87-86-5					
<b>1F) Dimethyl Formamide (DMFa)</b>						
Dimethyl formamide; N,N-dimethylformamide (DMFa) <sup>a</sup>	µg/L	-	68-12-2	1000	-	EPA 8015, EPA 8270E

a = Report only for mock leather



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**Appendix D - Test methods, reporting limits and CAS numbers (continued)**

Test Parameters	Unit		CAS No.	LOQ		Test methods
	Wastewater	Sludge		Wastewater	Sludge	
<b>1G) Dyes - Carcinogenic or Equivalent Concern</b>						
Basic Violet 3 with >0.1% of Michler's Ketone	µg/L	-	548-62-9	500	-	Liquid extraction, LC-MS
C.I. Acid Red 26			3761-53-3			
C.I. Acid Violet 49			1694-09-3			
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)			2580-56-5			
C.I. Basic Green 4 (Malachite Green Chloride)			569-64-2			
C.I. Basic Green 4 (Malachite Green Oxalate)			2437-29-8			
C.I. Basic Green 4 (Malachite Green)			10309-95-2			
C.I. Basic Red 9			569-61-9			
C.I. Basic Violet 14			632-99-5			
C.I. Direct Black 38			1937-37-7			
C.I. Direct Blue 6			2602-46-2			
C.I. Direct Red 28			573-58-0			
C.I. Disperse Blue 1			2475-45-8			
C.I. Disperse Blue 3			2475-46-9			
Disperse Orange 11			82-28-0			
<b>1H) Dyes - Disperse (Allergenic)</b>						
Disperse Blue 102	µg/L	-	12222-97-8	50	-	Liquid extraction, LC-MS
Disperse Blue 106			12223-01-7			
Disperse Blue 124			61951-51-7			
Disperse Blue 26			3860-63-7			
Disperse Blue 35			12222-75-2			
Disperse Blue 7			56524-77-7			
Disperse Brown 1			3179-90-6			
Disperse Orange 1			23355-64-8			
Disperse Orange 3			2581-69-3			
Disperse Orange 37/59/76			730-40-5			
Disperse Red 1			13301-61-6			
Disperse Red 11			2872-52-8			
Disperse Red 17			2872-48-2			
Disperse Yellow 1			3179-89-3			
Disperse Yellow 3			119-15-3			
Disperse Yellow 39			2832-40-8			
Disperse Yellow 49			12236-29-2			
Disperse Yellow 9			54824-37-2			
Disperse Yellow 9	6373-73-5					
<b>1I) Dyes - Navy Blue Colourant</b>						
Component 1: C39H23Cl-CrN7O12S 2Na	µg/L	-	118685-33-9	500	-	Liquid extraction, LC-MS
Component 2: C46H-30CrN10O20S2 3Na			Not Allocated			



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**Appendix D - Test methods, reporting limits and CAS numbers (continued)**

Test Parameters	Unit		CAS No.	LOQ		Test methods
	Wastewater	Sludge		Wastewater	Sludge	
<b>1J) Flame Retardants</b>						
Z,Z-bis(bromomethyl)-1,3-propanediol (BRMP)	µg/L	-	3296-90-0	25	-	USEPA 8270E, ISO 22032, USEPA 527 and USEPA 8321B Dichloromethane extraction GC-MS or LC-MS(-MS)
Bis(2,3-dibromopropyl) phosphate (BIS)			5412-25-9			
Decabromodiphenyl ether (DecaBDE)			1163-19-5			
Hexabromocyclodecane (HBCDD)			3194-55-6			
Octabromodiphenyl ether (OctaBDE)			32536-52-0			
Pentabromodiphenyl ether (PentaBDE)			32534-81-9			
Polybromobiphenyls (PBB)			59536-65-1			
Tetrabromobisphenol A (TBBPA)			79-94-7			
Tris(2-chloroethyl)phosphite (TCDEP)			13674-84-5			
Tris(1-aziridinyl)phosphine oxide (TEPA)			545-55-1			
Tris(1,3-dichloro-isopropyl)phosphate (TDCP)			13674-87-8			
Tris(2-chloroethyl)phosphate (TCEP)			115-96-8			
Tris(2,3-dibromopropyl)-phosphate (TRIS)			126-72-7			
Decabromobiphenyl (DecaBB)			13654-09-6			
Dibromobiphenyls (DiBB)			Multiple			
Octabromobiphenyls (OctaBB)			Multiple			
Dibromopropylether			21850-44-2			
Heptabromodiphenyl ether (HeptaBDE)			68928-80-3			
Hexabromodiphenyl ether (HexaBDE)			36483-60-0			
Monobromobiphenyls (MonoBB)			Multiple			
Monobromodiphenylethers (MonoBDEs)			Multiple			
Nonabromobiphenyls (NonaBB)			Multiple			
Nonabromodiphenyl ether (NonaBDE)			63936-56-1			
Tetrabromodiphenyl ether (TetraBDE)			40088-47-9			
Tribromodiphenylethers (TriBDEs)			Multiple			
Boric acid <sup>b</sup>			10043-35-3, 11113-50-1	100	-	Determined as total boron via ICP
Diboron trioxide <sup>b</sup>			1303-86-2			
Disodium octaborate <sup>b</sup>			12008-41-2			
Disodium tetraborate anhydrous <sup>b</sup>	1303-96-4, 1330-43-4					
Tetraboron disodium heptaoxide, hydrate <sup>b</sup>	12267-73-1					
<b>1K) Glycols / Glycol Ethers</b>						
2-ethoxyethanol	µg/L	-	110-80-5	50	-	USEPA 8270E Liquid extraction, LC-MS GC-MS
2-ethoxyethyl acetate			111-15-9			
2-methoxyethanol			109-86-4			
2-methoxyethylacetate			110-49-6			
2-methoxypropylacetate			70657-70-4			
Bis(2-methoxyethyl)-ether			111-96-6			
Ethylene glycol dimethyl ether			110-71-4			
Triethylene glycol dimethyl ether			112-49-2			
<b>1L) Halogenated Solvents</b>						
1,2-dichloroethane	µg/L	-	107-06-2	1	-	USEPA 8260D Headspace GC-MS or Purge and trap GC-MS
Methylene chloride			75-09-2			
Tetrachloroethylene			127-18-4			
Trichloroethylene			79-01-6			

b = Limit refer to elemental boron, not the salt.



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**Appendix D - Test methods, reporting limits and CAS numbers (continued)**

Test Parameters	Unit		CAS No.	LOQ		Test methods
	Wastewater	Sludge		Wastewater	Sludge	
<b>1M) Organotin Compounds</b>						
Dipropyltin compounds (DPT)	µg/L	-	Multiple	0.01	-	ISO 17353 Derivatisation with NaB (C2H5) <sub>4</sub> GC-MS
Mono-, di- and tri-butyltin derivatives						
Mono-, di- and tri-methyltin derivatives						
Mono-, di- and tri-octyltin derivatives						
Mono-, di- and tri-phenyltin derivatives						
Tetraethyltin compounds (TeBT)						
Tripropyltin Compounds (TPT)						
Tetraoctyltin compounds (TeOT)						
Tricyclohexyltin (TCyHT)						
Tetraethyltin Compounds (TeET)						
<b>1N) Other/Miscellaneous Chemicals</b>						
AEEA [2-(2-aminoethylamino)ethanol]	µg/L	-	111-41-1	500	-	Liquid extraction, LC-MSMS
Bisphenol A			80-05-7	10		
Thiourea			62-56-6	50		
Quinoline			91-22-5	50		
Borate, zinc salt <sup>c</sup>			12767-90-7	100		
Silica (Used in sand blasting) <sup>d</sup>			14464-46-1	NA		Determine as total boron and total zinc via ICP Not a ZDHC Wastewater parameter
<b>1O) Perfluorinated and Polyfluorinated Chemicals (PFCs)</b>						
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	µg/L	-	Multiple	0.01	-	PFCs: EPA 537:2020 FTOH: BS EN 12673-1999, EPA 8270 PFCs: LC-MSMS FTOH: GC-MS Derivatisation with acetic anhydride followed by GC-MS
Perfluorooctanoic acid (PFOA) related substances				1		
<b>1P) Phthalates - including all other esters of ortho-phthalic acid</b>						
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP)	µg/L	-	71888-89-6, 84777-06-0	10	-	USEPA 8270E, ISO 18856 Dichloromethane extraction GC-MS
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)			68515-42-4, 68515-50-4			
Bis(2-methoxyethyl)phthalate (DMEP)			117-82-8			
Butyl benzyl phthalate (BBP)			85-68-7			
Di-cyclohexyl phthalate (DCHP)			84-61-7			
Di-iso-decyl phthalate (DIDP)			26761-40-0			
Di-iso-octyl phthalate (DIOP)			27554-26-3			
Di-iso-butyl phthalate (DIBP)			84-69-5			
Di-iso-nonyl phthalate (DINP)			28553-12-0			
Di-n-hexyl phthalate (DnHP)			84-75-3			
Di-n-octyl phthalate (DNOP)			117-84-0			
Di-n-pentylphthalates			131-18-0			
Di-n-propyl phthalate (DPRP)			131-16-8			
Di(ethylhexyl) phthalate (DEHP)			117-81-7			
Dibutyl phthalate (DBP)			84-74-2			
Diethyl phthalate (DEP)			84-66-2			
Diisopentylphthalates			605-50-5			
Dinonyl phthalate (DNP)			84-76-4			

c = Limit refers to elemental boron and/or zinc, not the salt.

d = Not required to test this parameter as this is related to sand blasting





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**Appendix D - Test methods, reporting limits and CAS numbers (continued)**

Test Parameters	Unit		CAS No.	LOQ		Test methods				
	Wastewater	Sludge		Wastewater	Sludge					
<b>1Q) Polycyclic Aromatic Hydrocarbons (PAHs)</b>										
Acenaphthene	µg/L	mg/kg	83-32-9	1	0.2	USEPA 8270E DIN 38407-39 Solvent extraction GC-MS				
Acenaphthylene			208-96-8							
Anthracene			120-12-7							
Benzo[a]anthracene			56-55-3							
Benzo[a]pyrene (BaP)			50-32-8							
Benzo[b]fluoranthene			205-99-2							
Benzo[e]pyrene			192-97-2							
Benzo[ghi]perylene			191-24-2							
Benzo[j]fluoranthene			205-82-3							
Benzo[k]fluoranthene			207-08-9							
Chrysene			218-01-9							
Dibenz[a,h]anthracene			53-70-3							
Fluoranthene			206-44-0							
Fluorene			86-73-7							
Indeno[1,2,3-cd]pyrene			193-39-5							
Naphthalene			91-20-3							
Phenanthrene	85-01-8									
Pyrene	129-00-0									
<b>1R) Restricted Aromatic Amines (Cleavable from Azo-colourants)</b>										
2-naphthylamine	µg/L	-	91-59-8	0.1	-	Reduction step with sodium dithionite, solvent extraction EPA 8270				
2-naphthylammoniumacetate			553-00-4							
2,4-xylidine			95-68-1							
2,4,5-trimethylaniline			137-17-7							
2,4,5-trimethylaniline hydrochloride			21436-97-5							
2,6-xylidine			87-62-7							
3,3'-dichlorobenzidine			91-94-1							
3,3-dimethoxybenzidine			119-90-4							
4-aminoazobenzene			60-09-3							
4-aminodiphenyl			92-67-1							
4-chloro-o-toluidine			95-69-2							
4-chloro-o-toluidinium chloride			3165-93-3							
4-chloroaniline			106-47-8							
4-methoxy-m-phenylene diammonium sulphate;			39156-41-7							
2,4-diaminoanisole sulphate			615-05-4							
4-methoxy-m-phenylenediamine			95-80-7							
4-methyl-m-phenylenediamine			101-14-4							
4,4-methylene-bis-(2-chloro-aniline)			838-88-0							
4,4-methylenedi-o-toluidine			101-77-9							
4,4-methylenedianiline			101-80-4							
4,4-thiodianiline			139-65-1							
5-nitro-o-toluidine			99-55-8							
6-methoxy-m-toluidine			120-71-8							
Benzidine			92-87-5							
o-aminoazotoluene			97-56-3							
o-anisidine			90-04-0							
o-toluidine			95-53-4							
										Reduction step with sodium dithionite, solvent extraction EPA 8270E and ISO 14362-1 GC/MS and LC/MS/MS



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**Appendix D - Test methods, reporting limits and CAS numbers (continued)**

Test Parameters	Unit		CAS No.	LOQ		Test methods
	Wastewater	Sludge		Wastewater	Sludge	
<b>1S) UV Absorbers</b>						
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	µg/L	-	36437-37-3	100	-	USEPA 8270 ISO 22032, USEPA 527 and USEPA 8321B. Dichloromethane extraction GC-MS or LC-MS(-MS)
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)			25973-55-1			
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)			3846-71-7			
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)			3864-99-1			
<b>1T) Volatile Organic Compounds (VOC)</b>						
Benzene	µg/L	-	71-43-2	1	-	ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D Add ISO 20595 Static headspace for determination
m-cresol			108-39-4			
o-cresol			95-48-7			
p-cresol			106-44-5			
Xylene			1330-20-7			
Toluene <sup>a</sup>	108-88-3					ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D HJ 1067 or EPA 8260D or ISO 11423-1

a = Report only for mock leather



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**Appendix D - Test methods, reporting limits and CAS numbers (continued)**

Test Parameters	Unit		CAS No.	LOQ		Test methods
	Wastewater & Leachate	Sludge		Wastewater	Sludge	
<b>Heavy Metals</b>						
Antimony	mg/L	mg/kg	7440-36-0	0.01	5	With reference to EPA 3015A, 6020A, 200.8, 6020B, 3051A and ISO 17294-2 and analyzed by ICP-MS With reference to EPA 1311 and HJ/T 300 for leachate
Chromium (VI)			18540-29-9	0.001	20	
Barium			7440-39-3	1	200	
Selenium			7782-49-2	1	5	
Tin			7440-31-5	1	-	
Arsenic			7440-38-2	0.005	5	
Total Chromium			7440-47-3	0.05	50	
Cobalt			7440-48-4	0.01	400	
Cadmium			7440-43-9	0.01	1	
Copper			7440-50-8	0.25	50	
Lead			7439-92-1	0.01	5	
Nickel			7440-02-0	0.05	20	
Silver			7440-22-4	0.005	50	
Zinc			7440-66-6	0.5	400	
Mercury			7439-97-6	0.001	1	
<b>Conventional</b>						
pH	pH	pH		6 - 9		With reference to ISO 10523, EPA 150.2, APHA 4500-H+
Temperature difference	°C			-		USEPA 170.1 or GB/T 13195
E.coli	MPN/100-ml			126		-
Colour	m <sup>-1</sup>			2;1;1		ISO 7887 (Method A and B)
Persistent Foam	-			-		-
Wastewater Flowrate	m <sup>3</sup> /day			-		-
Ammonium-Nitrogen	mg/L			0.5		ISO 11732, ISO 7150, USEPA 350.1, APHA 4500 NH <sup>3</sup> -N, HJ 535 or HJ 536
AOX	mg/L			0.1		ISO 9562, EN ISO 9563, USEPA 1650, HJ.T 83-2001
Biochemical Oxygen Demand 5-days concentration (BOD <sub>5</sub> )	mg/L			8		ISO 5815-1 & -2, EN1899-1, USEPA 405.1, APHA 5210B or HJ 505
Chemical Oxygen Demand (COD)	mg/L	-		40	-	ISO 6060, USEPA 410.4, APHA 5220D or GB/T 11914
Dissolved Oxygen (DO)	mg/L			-		ISO 5814, EPA 360.1 or HJ 506
Oil & Grease	mg/L			0.5		ISO 9377-2, USEPA 1664 or HJ 637
Total Phenols / Phenol Index	mg/L			0.001		ISO 14402, APHA 5530B, C, D or HJ 503
Total Chlorine	mg/L			0.1		ISO 7393-2, EPA 330.5 or HJ 586
Total Dissolved Solids (TDS)	mg/L			5		APHA 2540C, GB/T 5750.4
Total Nitrogen	mg/L			5		ISO 5663, ISO 29411, USEPA 351.2, APHA 4500P-J, APHA 4500N-C/ HJ 636 or GB 11891
Total Phosphorus	mg/L			0.1		ISO 11885, ISO 6878, USEPA 365.4, APHA 4500P-J or GB/T 11893
Total Suspended Solids (TSS)	mg/L			5		ISO 11923, USEPA 160.2, APHA 2540D or GB/T 11901
% Solids	-	%				USEPA 160.3, HJ 613
Paint Filter Test	-	-				EPA SW-846 or EPA 9095B
Fecal Coliform	-	bacteria/100m				EPA 1681



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**Appendix D - Test methods, reporting limits and CAS numbers (continued)**

Test Parameters	Unit		CAS No.	LOQ		Test methods
	Wastewater & Leachate	Sludge		Wastewater	Sludge	
<b>Anions</b>						
Chloride	mg/L	-	-	-	-	ISO 10304-1, ISO 15923-1, USEPA 300, HJ 84-2016, IS 3025 (part 32)
Cyanide, total		mg/kg		0.05	20	ISO 6703-1 & 2, ISO 14403-1 & 2, USEPA 335.2, APAH 4500-CN or HJ 484
Sulfate		-		-	-	ISO 10304-1, ISO 15923-1, USEPA 300, HJ 84-2016, IS 3025 (part 24)
Sulfide		-		0.01	-	ISO 10530, SM 4500-S2-D, E, G or I, GB/T 16489 or IS 3025 (part 29), HJ 1226-2021
Sulfite		-		0.2	-	ISO 10304-3, SM 4500-SO32-C or HJ 84-2016

**END OF REPORT**