

SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number: BGD25045833

Report Date: 15/04/2025

Factory's name : FAKHRUDDIN TEXTILE MILLS LTD
Factory's address : GHARGARIA, MASTER BARI, KEWA, SREEPUR, GAZIPUR, BANGLADESH
Type of wastewater discharge: Direct discharge
On-site Wastewater treatment plant: With wastewater treatment plant
Average total industrial wastewater generated: $\geq 15\text{m}^3/\text{day}$

Date and time of the beginning of sampling: 24/03/2025, 10:00
Date and time of the end of sampling: 24/03/2025, 16:30
Date received sample: 24/03/2025
Testing period: From 24/03/2025 to 07/04/2025
Arrival temperature at laboratory: 7 °C

Sample type:
Sample / Untreated wastewater Light Grey, grab sample at 10:00
Sampling location: N 24.19204, E 90.43719
Sample / Discharged wastewater Transparent, composite sample at
10:30; 11:30; 12:30; 13:30; 14:30; 15:30; 16:30
Sampling location: N 24.19180, E 90.43609
Sample / Sludge Grey, composite sample at 14:00
Sampling location: N 24.19199, E 90.43609

Sampling laboratory: ITS Labtest Bangladesh Ltd.
Testing laboratory: ITS Labtest Bangladesh Ltd.

ZDHC sampler accreditation certification number: ZDHC-A-22-E-C001068-R22D3-27D88

Local legal standard name^[a]: The Environment Conservation Rules, 2023; Government of the People's Republic of Bangladesh; Ministry of Environment, Forest and Climate Change

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Parameters (ZDHC WWSG V2.2, Table 2-3) exceeded local regulation: No exceeded

Discharge permit provided: Yes, expired, applied for renewal

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

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Summary of test results:

Wastewater / MRSL – Test items	Testing period	Untreated Wastewater
Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	From 25/03/2025 to 25/03/2025	ND
Anti-Microbials & Biocides	From 29/03/2025 to 30/03/2025	ND
Chlorinated Parafins	From 26/03/2025 to 27/03/2025	ND
Chlorobenzenes and Chlorotoluenes	From 29/03/2025 to 30/03/2025	ND
Chlorophenols	From 29/03/2025 to 30/03/2025	ND
Dimethyl Formamide (DMFa)	From 26/03/2025 to 27/03/2025	ND
Dyes – Carcinogenic or Equivalent Concern	From 25/03/2025 to 25/03/2025	ND
Dyes – Disperse (Allergenic)	From 25/03/2025 to 25/03/2025	ND
Flame Retardants	From 29/03/2025 to 30/03/2025	ND
Glycols / Glycol Ethers	From 29/03/2025 to 30/03/2025	ND
Halogenated solvents	From 29/03/2025 to 30/03/2025	ND
Organotin compounds	From 29/03/2025 to 30/03/2025	ND
Other/Miscellaneous Chemicals (^)	From 25/03/2025 to 25/03/2025	ND
Perfluorinated & Polyfluorinated chemicals (PFCs)	From 25/03/2025 to 25/03/2025	ND
Phthalates (Ortho-phthalates)	From 26/03/2025 to 27/03/2025	ND
Polycyclic aromatic hydrocarbons (PAHs)	From 29/03/2025 to 30/03/2025	ND
Restricted Aromatic Amines (Cleavable from Azo- colourants)	From 26/03/2025 to 27/03/2025	ND
UV Absorbers	From 26/03/2025 to 27/03/2025	ND
Volatile Organic Compounds (VOC)	From 29/03/2025 to 30/03/2025	ND

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Wastewater / Heavy metals – Test items	Testing period	Discharged wastewater		
		Foundational	Progressive	Aspirational
Antimony	From 25/03/2025 to 25/03/2025			Meet
Chromium (VI)	From 25/03/2025 to 25/03/2025			Meet
Barium	From 25/03/2025 to 25/03/2025	Report only, refer data		
Selenium	From 25/03/2025 to 25/03/2025	Report only, refer data		
Tin	From 25/03/2025 to 25/03/2025	Report only, refer data		
Arsenic	From 25/03/2025 to 25/03/2025			Meet
Chromium (total)	From 25/03/2025 to 25/03/2025			Meet
Cobalt	From 25/03/2025 to 25/03/2025			Meet
Cadmium	From 25/03/2025 to 25/03/2025			Meet
Copper	From 25/03/2025 to 25/03/2025			Meet
Lead	From 25/03/2025 to 25/03/2025			Meet
Nickel	From 25/03/2025 to 25/03/2025			Meet
Silver	From 25/03/2025 to 25/03/2025			Meet
Zinc	From 25/03/2025 to 25/03/2025			Meet
Mercury	From 25/03/2025 to 25/03/2025			Meet

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Wastewater / Conventional parameters - Test items	Testing period	Discharged wastewater		
		Foundational	Progressive	Aspirational
pH ^[f]	From 24/03/2025 to 24/03/2025	Meet		
Temperature difference ^[f]	From 24/03/2025 to 24/03/2025	N/A	N/A	N/A
E.coli	From 24/03/2025 to 29/03/2025	Meet		
Colour	From 25/03/2025 to 25/03/2025	Meet		
Persistent foam ^[f]	From 24/03/2025 to 24/03/2025	N/A		
Wastewater flowrate ^[f]	From 24/03/2025 to 24/03/2025	Report only, refer data		
Ammonium-Nitrogen	From 28/03/2025 to 28/03/2025		Meet	
AOX	From 07/04/2025 to 07/04/2025			Meet
Biochemical Oxygen Demand (BOD ₅)	From 25/03/2025 to 30/03/2025			Meet
Chemical Oxygen Demand (COD)	From 26/03/2025 to 26/03/2025			Meet
Dissolved Oxygen (DO) ^[f]	From 24/03/2025 to 24/03/2025	Meet		
Oil & Grease	From 28/03/2025 to 28/03/2025			Meet
Total Phenols / Phenol Index	From 26/03/2025 to 26/03/2025			Meet
Total Chlorine ^[f]	From 24/03/2025 to 24/03/2025	Meet		
Total Dissolved Solids (TDS)	From 25/03/2025 to 25/03/2025	Report only, refer data		
Total Nitrogen	From 28/03/2025 to 28/03/2025			Meet
Total Phosphorus	From 25/03/2025 to 25/03/2025		Meet	
Total Suspended Solids (TSS)	From 25/03/2025 to 25/03/2025			Meet

Wastewater / Anions - Test items	Testing period	Discharged wastewater		
		Foundational	Progressive	Aspirational
Chloride	From 28/03/2025 to 28/03/2025	Report only, refer data		
Cyanide, total	From 25/03/2025 to 25/03/2025			Meet
Sulphate	From 28/03/2025 to 28/03/2025	Report only, refer data		

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Sulphide	From 28/03/2025 to 28/03/2025		Meet
Sulphite	From 25/03/2025 to 25/03/2025	Meet	

Sludge – Disposal Pathways
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Sludge / MRSL - Test items	Testing period	Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	From 25/03/2025 to 25/03/2025	ND
Polycyclic Aromatic Hydrocarbons (PAHs)	From 29/03/2025 to 30/03/2025	ND
Chlorotoluenes	From 29/03/2025 to 30/03/2025	ND

Sludge / Heavy metals – Test items	Testing period	Sludge (Total)	Sludge (Leachate)
Antimony	-	N/A	
Arsenic	-	N/A	
Barium	-	N/A	
Cadmium	-	N/A	
Cobalt	-	N/A	
Copper	-	N/A	
Lead	-	N/A	
Nickel	-	N/A	
Selenium	-	N/A	
Silver	-	N/A	
Zinc	-	N/A	
Chromium (total)	-	N/A	
Chromium VI	-	N/A	
Mercury	-	N/A	

Sludge / Conventional parameters - Test items	Testing period	Sludge
pH	-	N/A
Faecal coliform	-	N/A
% Solids	From 25/03/2025 to 25/03/2025	Report only, refer data
Paint filter test	-	N/A

Sludge / Anion - Test items	Testing period	Sludge
Cyanide	-	N/A

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Remark:	
ND	= Not detected (less than ZDHC reporting limit for MRSL parameters) / Not detected (less than lab reporting limit for other parameters)
D	= Detected
N/A	= Not applicable (Out of scope according to ZDHC WWWSG v2.2)
NT	= Not tested (Did not test according to applicant's request)
(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.
(^)	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 shows the test results of the environmental samples of the above factory which were collected on a specific date and time. The results of this report shall not be used for any regulatory compliance purposes.	

Remarks:

- Not possible to take receiving water temperature and persistent foam due to factory directly discharge treated wastewater to government drain or sewerage connected drain.
- Temperature of discharged wastewater is 32.0 °C.
- This sampling is agreed with the client.

Authorized By
 For ITS Labtest Bangladesh Ltd. [Testing - Dhaka]



Mominul Islam
 Head of Analytical, Softlines

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Sample / Wastewater

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

NP/OP: With reference to ASTM D7742, modified from ISO 18218 (LC-MS Analysis).

OPEO/NPEO (n>2): With reference to ASTM D7742, modified from ISO 18254 (LC-MS Analysis).

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

2. Anti- Microbials & Biocides

OPP, Triclosan: With reference to USEPA 8270E Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS analysis; with reference to modified from EN 17134 (GC-MS Analysis), an alternative method of solvent extraction and derivatization are included.

Permethrin: With reference to USEPA 8270E Solvent extraction, followed by GC-MS analysis; With reference to ISO 14154 without derivatization and determination by GC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
o-Phenylphenol (+salts)	90-43-7	100	ND	µg/L
Triclosan	3380-34-5	100	ND	µg/L
Permethrin	Multiple including 52645-53-1	500	ND	µg/L

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3. Chlorinated Paraffins

For MCCP: With reference to analysis by ISO18219-2 with GC-MS-NCl analysis.

For SCCP: With reference to analysis by ISO18219-1 with GC-MS-NCl analysis.

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

4. Chlorobenzenes and Chlorotoluenes

With reference to modified from ISO 17137 (GC-MS Analysis), USEPA 8270E, Purge and Trap, Head Space, Dichloromethane extraction followed by GC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
1,2-Dichlorobenzene	95-50-1	0.2	ND	µg/L
Other isomers of mono-, di-, tri-, tetra-, penta- and hexa- Chlorobenzene and mono-, di-, tri-, tetra- and penta-chlorotoluene	Multiple including 108-90-7; 541-73-1; 106-46-7; 87-61-6; 120-82-1; 108-70-3; 634-66-2; 634-90-2; 95-94-3; 608-93-5; 118-74-1; 95-49-8; 108-41-8; 106-43-4; 32768-54-0; 95-73-8; 19398-61-9; 118-69-4; 95-75-0; 25186-47-4; 7359-72-0; 2077-46-5; 6639-30-1; 23749-65-7; 21472-86-6; 1006-32-2; 875-40-1; 1006-31-1; 877-11-2	0.2	ND	µg/L

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5. Chlorophenols

With reference to US EPA 8270E solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS; with reference to modified from DIN 50009 (GC-MS Analysis), solvent extraction and derivatization are included.

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

6. Dimethyl Formamide (DMFa)

With reference to modified from EN ISO 16189 (GC-MS Analysis), EPA 8270E with GC-MS Analysis.

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

7. Dyes – Carcinogenic or Equivalent Concern

With reference to modified DIN 54231 (LC-MS Analysis) By Liquid extraction.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Basic violet 3 with >0.1% of Michler's Ketone	548-62-9	500	ND	µg/L
C.I. Acid Red 26	3761-53-3	500	ND	µg/L
C.I. Acid Violet 49	1694-09-3	500	ND	µg/L
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	ND	µg/L

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C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	ND	µg/L
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	ND	µg/L
C.I. Basic Green 4 (malachite green)	10309-95-2	500	ND	µg/L
C.I. Basic Red 9	569-61-9	500	ND	µg/L
C.I. Basic Violet 14	632-99-5	500	ND	µg/L
C.I. Direct Black 38	1937-37-7	500	ND	µg/L
C.I. Direct Blue 6	2602-46-2	500	ND	µg/L
C.I. Direct Red 28	573-58-0	500	ND	µg/L
C.I. Disperse Blue 1	2475-45-8	500	ND	µg/L
C.I. Disperse Blue 3	2475-46-9	500	ND	µg/L
Disperse Orange 11	82-28-0	500	ND	µg/L

8. Dyes – Disperse (Allergenic)

With reference to modified DIN 54231 (LC-MS Analysis) By Liquid extraction.

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

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9. Flame retardants

Borate salt: Determined as total boron via ICP analysis.

Other flame retardant substances: With reference to USEPA 8270E, modified from ISO 17881-1 (GC-MS Analysis), modified from ISO 17881-2 (GC-MS Analysis), Dichloromethane extraction GC-MS or LC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Boric acid **	10043-35-3; 11113-50-1	500 in Boron	ND	µg/L
Diboron trioxide **	1303-86-2	500 in Boron	ND	µg/L
Disodium octaborate **	12008-41-2	500 in Boron	ND	µg/L
Disodium tetraborate anhydrous **	1303-96-4; 1330-43-4	500 in Boron	ND	µg/L
Tetraboron disodium heptaoxide, hydrate **	12267-73-1	500 in Boron	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	25	ND	µg/L
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	25	ND	µg/L
Monobromobiphenyls (MonoBB)	Multiple	25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	25	ND	µg/L
Dibromopropylether	21850-44-2	25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	ND	µg/L
Octabromobiphenyls (OctaBB)	Multiple	25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Multiple	25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate (BDBPP)	5412-25-9	25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	ND	µg/L
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	ND	µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	ND	µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	ND	µg/L

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

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10. Glycols / Glycol Ethers

With reference to US EPA 8270E, modified from ISO 22892 (GC-MS Analysis), Liquid extraction, GC-MS analysis.

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

11. Halogenated solvents

With reference to USEPA 8260D, Headspace GC-MS or Purge and trap GC-MS analysis.

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

12. Organotin compounds

With reference to modified from ISO/TS 16179 (GC-MS Analysis), ISO 17353, Derivatisation with NaB (C₂H₅)₄, with GC-MS analysis.

Chemical substances	CAS no.	ZDHC Reporting limit µg/L)	Untreated wastewater	Unit
Dipropyltin compounds (DPT)	Multiple including 867-36-7	0.01	ND	µg/L
Mono-, di- and tri-butyltin derivatives	Multiple including 1118-46-3; 1461-22-9	0.01	ND	µg/L
Mono, di-, and tri-methyltin derivatives	Multiple including 993-16-8; 753-73-1; 1066-45-1	0.01	ND	µg/L
Mono, di-, and tri-octyltin derivatives	Multiple including 3091-25-6; 3542-36-7; 2587-76-0	0.01	ND	µg/L
Mono, di-, and tri-phenyltin derivatives	Multiple including 1124-19-2; 1135-99-5; 639-58-7	0.01	ND	µg/L

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Tetrabutyltin compounds (TeBT)	Multiple including 1461-25-2	0.01	ND	µg/L
Tetraethyltin Compounds (TeET)	Multiple including 597-64-8	0.01	ND	µg/L
Tetraoctyltin compounds (TeOT)	Multiple including 3590-84-9	0.01	ND	µg/L
Tricyclohexyltin (TCyHT)	Multiple including 3091-32-5	0.01	ND	µg/L
Tripropyltin Compounds (TPT)	Multiple including 2279-76-7	0.01	ND	µg/L

13. Other/Miscellaneous Chemicals

Others: With reference to Liquid extraction, LC-MS-MS analysis.

Borate salt: Determined as total boron and total zinc via ICP analysis.

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

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

14. Perfluorinated & polyfluorinated chemicals (PFCs)

PFCs: With reference to modified from ISO 23702-1 (LC-MS Analysis), EPA 8270 with LC-MS Analysis

FTOH: With reference to modified from ISO 23702-1 (LC-MS Analysis), EPA 8270 with LC-MS Analysis

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Perfluorooctane sulfonate (PFOS) and related substances	Multiple including 1763-23-1	0.01	ND	µg/L
Perfluorooctanoic acid (PFOA) and related Substances	Multiple including 335-67-1	1	ND	µg/L

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15. Phthalates – including all other esters of ortho-phthalic acid

With reference to USEPA 8270E, modified from ISO 14389 (GC-MS Analysis), Dichloromethane extraction GC-MS analysis.

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

16. Polycyclic aromatic hydrocarbons (PAHs)

With reference to US EPA 8270E, DIN 38407-39, solvent extraction GC-MS analysis.

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

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Fluorene	86-73-7	1	ND	µg/L
Indeno[1,2,3-cd]pyrene	193-39-5	1	ND	µg/L
Naphthalene	91-20-3	1	ND	µg/L
Phenanthrene	85-01-8	1	ND	µg/L
Pyrene	129-00-0	1	ND	µg/L

17. Restricted Aromatic Amines (Cleavable from Azo-colourants)

With reference to reduction step with sodium dithionite, solvent extraction, EPA 8270E and ISO 14362-1, ISO 14362-3 with GC-MS analysis.

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

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18. UV Absorbers

With reference to USEPA 8270, ISO 22032, USEPA 527, and USEPA 8321B, dichloromethane extraction GC-MS or LC-MS-MS analysis.

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

19. Volatile organic compounds (VOCs)

With reference to ISO 11423-1 Headspace or Purge and trap, GC-MS analysis. USEPA 8260D static headspace for determination of VOC in wastewater.

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

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20. Heavy metals

With reference to ISO 11885, USEPA 200.8, ISO 18412, modified from EN 16711-1 (ICP-MS Analysis).

Chemical substances	Limit			Legal * Requirement	Lab Reporting limit (mg/L)	Discharged wastewater	Unit
	Foundational	Progressive	Aspirational				
Antimony	0.1 mg/L	0.05 mg/L	0.01 mg/L	-	0.01	ND	mg/L
Chromium (VI)	0.05 mg/L	0.005 mg/L	0.001 mg/L	-	0.001	ND	mg/L
Barium	Sample and report only			-	0.01	ND	mg/L
Selenium	Sample and report only			-	0.01	ND	mg/L
Tin	Sample and report only			-	0.01	ND	mg/L
Arsenic	0.05 mg/L	0.01 mg/L	0.005 mg/L	-	0.005	ND	mg/L
Chromium (total)	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.5 mg/L	0.05	ND	mg/L
Cobalt	0.05 mg/L	0.02 mg/L	0.01 mg/L	0.5 mg/L	0.01	ND	mg/L
Cadmium	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.02 mg/L	0.01	ND	mg/L
Copper	1 mg/L	0.5 mg/L	0.25 mg/L	-	0.25	ND	mg/L
Lead	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.1 mg/L	0.01	ND	mg/L
Nickel	0.2 mg/L	0.1 mg/L	0.05 mg/L	1 mg/L	0.05	ND	mg/L
Silver	0.1 mg/L	0.05 mg/L	0.005 mg/L	-	0.005	ND	mg/L
Zinc	5.0 mg/L	1.0 mg/L	0.5 mg/L	-	0.5	ND	mg/L
Mercury	0.01 mg/L	0.005 mg/L	0.001 mg/L	-	0.001	ND	mg/L

* Regulation/Standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters (mandatory).

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21. Conventional parameters

Parameters	Test method	Limit			Legal* Requirement	Lab Reporting limit	Discharged wastewater	Unit
		Foundational	Progressive	Aspirational				
pH	USEPA 150.1	6-9			6-9	N/A	7.5	[f]
Temperature difference	USEPA 170.1	Δ+15 °C	Δ+10 °C	Δ+5 °C	Δ+5 °C	N/A	N/A	[f] °C
E.coli	SM 9221B presumptive, confirm positive with SM9221 F or G	126 MPN/100-ml			-	25 MPN/100-ml	ND	MPN/100-ml
Colour (436 nm; 525 nm; 620 nm)	ISO 7887-B	7;5;3 [m ⁻¹]	5;3;2 [m ⁻¹]	2;1;1 [m ⁻¹]	-	N/A	2.6; 2.6; 2.3	[m ⁻¹]
Persistent Foam	/	No indication of Persistent foam in receiving water			-	N/A	N/A	[f]
Wastewater Flowrate	/	15m ³ /day			-	N/A	2917	[f] m ³ /day
Ammonium-Nitrogen	ISO 7150 / USEPA 350.1 / SM 4500 NH ₃ -F	10 mg/L	1 mg/L	0.5 mg/L	-	0.5 mg/L	0.8	mg/L
AOX	ISO 9562	3 mg/L	0.5 mg/L	0.1 mg/L	-	0.1 mg/L	ND	mg/L
Biochemical Oxygen Demand (BOD ₅)	USEPA 405.1 / SM 5210-B / modified SM 5210-B,D (Hach BOD)	30 mg/L	15 mg/L	8 mg/L	30 mg/L	8 mg/L	ND	mg/L
Chemical Oxygen Demand (COD)	SM 5220-D / Validated Cuvette Method	150 mg/L	80 mg/L	40 mg/L	200 mg/L	20 mg/L	32	mg/L
Dissolved Oxygen (DO)	EPA 360.1 / SM 4500-O-G	≥ 4 mg/L			-	N/A	6.5	[f] mg/L
Oil and grease	USEPA 1664 revision B / ISO 9377-2	10 mg/L	2 mg/L	0.5 mg/L	10 mg/L	0.5 mg/L	ND	mg/L
Total Phenols / Phenol Index	ISO 6439 / SM 5530-B,C,D / IS 3025 (Part 43)	0.5 mg/L	0.01 mg/L	0.001 mg/L	1 mg/L	0.001 mg/L	ND	mg/L
Total Chlorine	USEPA 330.5 / SM4500-Cl-G	1 mg/L			-	0.2 mg/L	ND	[f] mg/L
Total Dissolved Solids (TDS)	SM 2540-C / USEPA 160.1	Sample and report only			2100 mg/L	10 mg/L	1092	mg/L

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Total-Nitrogen	ISO 11905 - Part 1	20 mg/L	10 mg/L	5 mg/L	-	5 mg/L	ND	mg/L
Total-Phosphorus	ISO 11885, USEPA 200.8	3 mg/L	0.5 mg/L	0.1 mg/L	-	0.1 mg/L	0.2	mg/L
Total Suspended Solids (TSS)	USEPA 160.2 / SM 2540D	50 mg/L	15 mg/L	5 mg/L	100 mg/L	5 mg/L	ND	mg/L
Chloride	SM 4500-Cl E	Sample and report only			-	10 mg/L	31	mg/L
Cyanide, total	ISO 6703 – 1, 2, 3 / USEPA 335.2 / SM 4500-CN E	0.2 mg/L	0.1 mg/L	0.05 mg/L	-	0.05 mg/L	ND	mg/L
Sulphate	SM 4500 SO4 E	Sample and report only			-	10 mg/L	510	mg/L
Sulphide	SM 4500-S2-D / ISO 10530	0.5 mg/L	0.05 mg/L	0.01 mg/L	2 mg/L	0.01 mg/L	ND	mg/L
Sulphite	ISO 10304-3	2 mg/L	0.5 mg/L	0.2 mg/L	-	0.2 mg/L	0.8	mg/L

Remark:

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

* Legal requirement based on Regulation/Standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters (mandatory). It is quoted only when the test method used is identical to the ZDHC WWG listed method.

Additional Color Test by using local standard required method:

As Per applicant's request, testing was conducted on composite sample based on ZDHC WWSG V2.2.

Parameters	Test Method	Legal Requirement*	Discharged wastewater
Color	ISO 7887-C	150 mg Pt /L	56 mg Pt /L

* Legal requirement based on Regulation/Standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters (mandatory), it was quoted for reference only.

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Sample / Sludge

Sludge flux (weight/time) and / or flow data volume/time: N/A

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

With reference to ASTM D7065, ISO 18254-1, with LC-MS-MS analysis.

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

2. Polycyclic aromatic hydrocarbons (PAHs)

With reference to USEPA 827E, modified from AFPS GS 2019-01 PAK (GC-MS Analysis) with Solvent extraction GC-MS analysis.

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

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Indeno[1,2,3-cd]pyrene	193-39-5	0.2	ND	mg/kg
Naphthalene	91-20-3	0.2	ND	mg/kg
Phenanthrene	85-01-8	0.2	ND	mg/kg
Pyrene	129-00-0	0.2	ND	mg/kg

3. Chlorotoluenes

With reference to US EPA 827, modified from BS EN 17137 (GC-MS Analysis).

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

4. Heavy metals

Other heavy metals: With reference to acid/peroxide digestion EPA 6010C or EPA 6020A, modified from EN 16711-1 (ICP-MS Analysis), USEPA 200.8 with ICP/OES, or ICP-MS analysis.

Chromium VI: With reference to alkaline digestion modified from ISO 17075-1 (UV-VIS Analysis), ISO 18412 with Colorimetric UV/VIS analysis.

Mercury: With reference to Dissolution, acid digestion, modified from EN 16711-1 (ICP-MS Analysis), modified from ISO 11885 (ICP-MS Analysis).

Chemical substances	ZDHC Reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Antimony	5	3	N/A	mg/kg
Arsenic	5	2	N/A	mg/kg
Barium	200	100	N/A	mg/kg
Cadmium	1	1	N/A	mg/kg
Cobalt	400	100	N/A	mg/kg
Copper	50	25	N/A	mg/kg
Lead	5	2	N/A	mg/kg
Nickel	20	10	N/A	mg/kg
Selenium	5	3	N/A	mg/kg
Silver	50	25	N/A	mg/kg
Zinc	400	200	N/A	mg/kg
Total Chromium	50	25	N/A	mg/kg
Chromium (VI)	20	2	N/A	mg/kg
Mercury	1	0.2	N/A	mg/kg

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5. Conventional parameters

Chemical substances	Test method	Lab reporting limit (Dry Weight)	Sludge (Dry weight)	Unit
pH	USEPA SW 9045D	N/A	N/A	N/A
Fecal Coliform	USEPA 1681	10 MPN/g	N/A	MPN/g
% Solids	USEPA 160.3	N/A	86	%
Paint Filter Test ^	USEPA 9095B	N/A	N/A	N/A

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

6. Anions

With reference to USEPA 9013, USEPA 9014, ISO 6703 – 1, 2, 3 / USEPA 335.2 / APHA 4500-CN E with Colourimetry.

Chemical substances	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Cyanide	15	N/A	mg/kg

7. Leachate heavy metals

Other heavy metals: With reference to toxicity leachate extraction procedure EPA 1311 followed by Acid digestion with ICP-OES, ICP-MS ISO 11885, USEPA 200.8, modified from EN 16711-1 (ICP-MS Analysis).

Chromium VI: With reference to toxicity leachate extraction procedure EPA 1311 followed by ISO 18412 Colorimetric UV/VIS analysis.

Mercury: With reference to toxicity leachate extraction procedure EPA 1311 followed by acid digestion, EPA 3051A, EPA 6020b, modified from EN 16711-1 (ICP-MS Analysis) with ICP MS analysis.

Chemical substances	Lab reporting limit (mg/L)	Sludge	Unit
Arsenic	0.5	N/A	mg/L
Cadmium	0.15	N/A	mg/L
Total Chromium	5	N/A	mg/L
Lead	0.5	N/A	mg/L
Antimony	0.6	N/A	mg/L
Barium	35	N/A	mg/L
Cobalt	80	N/A	mg/L
Copper	10	N/A	mg/L
Nickel	3.5	N/A	mg/L
Selenium	0.5	N/A	mg/L
Silver	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 v2.2 Table 4B

Parameters	Total metals and anions threshold values (mg/kg)	Disposal pathways						
		A and B (Leachate result in mg/L)	C (Leachate result in mg/L)	D (Leachate result in mg/L)	E (Leachate result in mg/L)	F (Leachate result in mg/L)	G (Leachate result in mg/L)	G (Maximum total metals limit in mg/kg)
Antimony	12	Not applicable	Not applicable	7.8	0.6	0.6	0.6	Not applicable
Arsenic	10			2.75	0.5	0.5	0.5	41
Barium	700			67.5	35	35	35	500
Cadmium	3			0.58	0.15	0.15	0.15	39
Cobalt	1600			80	80	80	80	Not applicable
Copper	200			17.5	10	10	10	1500
Lead	10			2.75	0.5	0.5	0.5	400
Nickel	70			11.75	3.5	3.5	3.5	420
Selenium	10			0.75	0.5	0.5	0.5	36
Silver	100			5	5	5	5	Not applicable
Zinc	1000			50	50	50	50	2800
Total Chromium	100			5	5	5	5	1200
Chromium VI	50			3.75	2.5	2.5	2.5	50
Mercury	1	1.25	0.5	0.5	0.5	17		

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

Parameters	Disposal pathways					
	A and B	C	D	E	F	G
pH	Not applicable	Not applicable	5 – 11 s.u.	5 – 11 s.u.	6.5 – 9 s.u.	6.5 – 9 s.u.
Fecal Coliform (MPN/g)	Not applicable	Not applicable	Not applicable	Not applicable	< 1000 (MPN/g)	< 1000 (MPN/g)
% Solids	Sample and report only					
Paint Filter Test	Not applicable	Not applicable	Pass Paint filter test			
Cyanide	Not applicable	Not applicable	85 mg/kg	70 mg/kg	70 mg/kg	70 mg/kg

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Photo of sampling points:

Untreated wastewater



Discharged wastewater



Sludge



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TEST REPORT (TEXTILES)

Number: BGD25045833

Photo of samples:

Untreated wastewater



Discharged wastewater



Sludge



SOFTLINES WASTEWATER TESTING
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Photo of Receiving Water Temperature and Foam Sampling Risk / Reason:



SOFTLINES WASTEWATER TESTING
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Attachment – sampling protocol for wastewater & sludge:

intertek ZDHC Monitoring
Total Quality. Assured.

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

Facility Name	Fakhruddin Textile Mills Limited		
Address and Contact:	1063/1 Kewa, Steepur, Gazipur.		
Facility type : (tick all applicable)	<input checked="" type="checkbox"/> Dyeing and Finishing	<input type="checkbox"/> Fabric Mill	<input checked="" type="checkbox"/> Laundry, Washing and Finishing
	<input type="checkbox"/> Natural Leather processing	<input checked="" type="checkbox"/> Printing	<input type="checkbox"/> Synthetic Leather processing
Date of sampling:	24-03-2025		
Sample General ID (if applicable):	ITSEL 2503083	<input checked="" type="checkbox"/> direct discharge <input type="checkbox"/> indirect discharge <input type="checkbox"/> Zero Liquid Discharge (ZLD) <input type="checkbox"/> MDCF	<input type="checkbox"/> with pre-treatment <input type="checkbox"/> without treatment <input checked="" type="checkbox"/> with own ETP
Discharge description:	N/A		
Weather conditions:	on sampling day: Sunny	on day before: Sunny	

*] Changes from ZDHC Wastewater Guidelines V2.2 (September 2024) are implemented.

Sample Type and Details (see also page 2)	
<input checked="" type="checkbox"/> Discharged <input checked="" type="checkbox"/> direct: or <input type="checkbox"/> indirect	<input checked="" type="checkbox"/> Facility has WWTP <input type="checkbox"/> Plant is in operating condition
Wastewater: Enter sampling times in Sample Details (page 2), and measure field parameters.	Hydraulic Retention Time (HRT): h (= Volume of tank [m ³] / Flow rate [m ³ /h]) If HRT > 12h, grab sampling from EQT is allowed.
<input type="checkbox"/> Pre-treated WW without sludge	<input checked="" type="checkbox"/> with Equalisation Tank (EQT) present: HRT: 18.0 h (= Volume of tank [m ³] / Flow rate [m ³ /h]) If HRT > 12h, grab sampling from EQT is allowed
<input checked="" type="checkbox"/> Untreated WW	<input type="checkbox"/> Incoming Water <input type="checkbox"/> MDCF
<input type="checkbox"/> Sludge with below disposal pathway ①: <input type="radio"/> A > 1000 °C on-site or off-site incineration <input type="radio"/> B Landfill with significant control <input checked="" type="radio"/> C Building products processed >1000 °C <input type="radio"/> D Landfill with limited control <input type="radio"/> E Off-site Incineration & Building products processed <1000 °C	age of sludge: 60 days / weeks <input type="radio"/> F Landfill with no control measures <input type="radio"/> G Land application for specific purpose in approved areas
① If supplier cannot provide information, pathway "F" shall be assumed.	
Sludge volume generated: N/A <input type="radio"/> m ³ /h <input type="radio"/> L/sec <input type="radio"/> other unit (specify): <input checked="" type="radio"/> per facility info <input type="radio"/> measured <input type="radio"/> estimated	
<input type="checkbox"/> Process Chemical <input type="radio"/> liquid <input type="radio"/> solid (powder/granulate/pieces) <input type="checkbox"/> from running process <input type="checkbox"/> from warehouse/storage	

Times of sampling (if applicable)	Untreated:	1	2	3	4	5	6	7	or Grab (HRT>12h): 10:00
	Discharged WW (indirect) ②:	1	2	3	4	5	6	7	or Grab ③ (HRT>12h):
	Incoming ②:	1	2	3	4	5	6	7	or Grab ③ (HRT>12h):
	Sludge (liquid):	1	2	3	4	5	6	7	Solid sludge: 2:00

Picture ID (or Date & Time / Interval):	GPS coordinates of sampling points:
ITSEL 2503083-U4W-1	Incoming W.: Lat.: ON OS Long.: OE OW
ITSEL 2503083-U4W-S-1	Untreated WW: Lat.: ON OS 24.19204 Long.: OE OW 90.43719
ITSEL 2503083-DWW-1	Discharged WW: Lat.: ON OS 24.19180 Long.: OE OW 90.43609
ITSEL 2503083-DWW-S-1	Sludge: Lat.: ON OS 24.19199 Long.: OE OW 90.43609
ITSEL 2503083-Sludge-S-1	

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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 Discharged WW with HRT>12h) (enter data in column for Averaged Readings and in field at right)

Volume of aliquot(s): 1000 mL

Time ^④ of discrete Discharged WW sample	1	2	3	4	5	6	7	Averaged Readings or Grab Sample readings:
pH:	7.5	7.5	7.6	7.7	7.5	7.6	7.5	7.5
Temp. WW discharge of receiving water	32 °C	32 °C	33 °C	32 °C	31 °C	31 °C	32 °C	32 °C
Flow rate:	33.3 l/s	33.2 l/s	33.6 l/s	37.5 l/s	33.8 l/s	33.2 l/s	34.9 l/s	33.7 m ³ /d avk.
Dissolved Oxygen:	6.5 mg/L	6.5 mg/L	6.4 mg/L	6.4 mg/L	6.5 mg/L	6.7 mg/L	6.5 mg/L	6.5 mg/L
Total Chlorine:	ND mg/L	ND mg/L						
Persistent foam:	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	N/A						

^④ 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/s, multiply the flow rate in m³/h by the daily operation time of the ETP to get flow in m³/d.

Sampling procedure: automated sampling with beaker/bowl other:

Wastewater Flow Data (Discharged WW)

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

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="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Untreated			Light Grey	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Discharged WW			Transparent	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Sludge			Grey		

Field Testing QA/QC

Parameter	Lab Control Sample target value	Lab Control Sample measured value	Accuracy [%]
pH	7.0	7.1	102
Total Chlorine	0.56 mg/L	0.51 mg/L	102

Other observations: Not possible to take receiving water temperature and persistent foam due to factory directly discharge treated wastewater to government drain or sewerage connected drain.

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



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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.

Sampler's Name (name & email address):

Biswajit paul
Biswajit.paul@intertek.com

Facility Name:

Fakhruddin Textile Mills Limited

Sampler's ZDHC accreditation no.:

ZDHC - A-22-E-C00106 8-R22D3
- 22D88

Facility's Representative name:

Md. Mamunul Haque

Sampler's Signature:

Biswajit

Facility's Representative Signature and Stamp:

A circular stamp with the text 'Fakhruddin Textile Mills Ltd.' around the perimeter and 'ZDHC' in the center. A signature is written over the stamp, and the date '24.05.24' is written below it.



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End of report

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