

Report Date: 29/10/2024

Number: BGDT24145632

Factory's name : Factory's address :	MAHMUD DENIMS LIMITED SHAFIPUR, KALIAKOIR, GAZIPUR, BANGLADESH
Type of wastewater discharge: On-site Wastewater treatment plant: Average total industrial wastewater generated:	Direct discharge With wastewater treatment plant ≥ 15m3/day
Date and time of the beginning of sampling: Date and time of the end of sampling: Date received sample:	17/10/2024, 10:00 17/10/2024, 16:00 17/10/2024
Testing period: Arrival temperature at laboratory:	From 17/10/2024 to 29/10/2024 7 °C
Sample type:	
Sample / Untreated wastewater	Navy, grab sample at 12:30 Sampling location: N 24.02348, E 90.27037
Sample / Effluent	Light brown, composite sample at 10:00; 11:00; 12:00; 13:00; 14:00; 15:00; 16:00
Sample / Sludge	Sampling location: N 24.02310, E 90.27213 Dark blue, composite sample at 14:30 Sampling location: N 24.02310, E 90.27213
Sampling laboratory: Testing laboratory:	ITS Labtest Bangladesh Ltd. ITS Labtest Bangladesh Ltd.
	TI'S LADIEST BANglauesh Liu.
ZDHC sampler accreditation certification number:	ZDHC-A-23-E-C001068-R3A43-10A4D
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
Local legal standard no. ^[a] :	The Environment Conservation Rules, 2023; Government of the People's Republic of Bangladesh; Ministry of Environment, Forest and Climate Change
Parameters (ZDHC WWSG V2.1, Table 2-3) exceeded local regulation:	No exceeded
Discharge permit provided:	No, expired

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 20/10/2024 to 20/10/2024	ND
Anti-Microbials & Biocides	From 23/10/2024 to 23/10/2024	ND
Chlorinated Parafins	From 21/10/2024 to 22/10/2024	ND
Chlorobenzenes and Chlorotoluenes	From 23/10/2024 to 23/10/2024	ND
Chlorophenols	From 23/10/2024 to 23/10/2024	ND
Dimethyl Formamide (DMFa) (*)	From 21/10/2024 to 22/10/2024	ND
Dyes – Carcinogenic or Equivalent Concern	From 20/10/2024 to 20/10/2024	ND
Dyes – Disperse (Allergenic)	From 20/10/2024 to 20/10/2024	ND
Dyes – Navy Blue Colourant	From 20/10/2024 to 20/10/2024	ND
Flame Retardants	From 23/10/2024 to 23/10/2024	ND
Glycols / Glycol Ethers	From 23/10/2024 to 23/10/2024	ND
Halogenated solvents	From 23/10/2024 to 23/10/2024	ND
Organotin compounds	From 23/10/2024 to 23/10/2024	ND
Other/Miscellaneous Chemicals (^)	From 20/10/2024 to 20/10/2024	ND
Perfluorinated & Polyfluorinated chemicals (PFCs)	From 20/10/2024 to 20/10/2024	ND
Phthalates (Ortho-phthalates)	From 21/10/2024 to 22/10/2024	ND
Polycyclic aromatic hydrocarbons (PAHs)	From 23/10/2024 to 23/10/2024	ND
Restricted Aromatic Amines (Cleavable from Azo- colourants)	From 21/10/2024 to 22/10/2024	ND
UV Absorbers	From 21/10/2024 to 22/10/2024	ND
Volatile Organic Compounds (VOC)	From 23/10/2024 to 23/10/2024	ND

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Wastewater / Heavy metals - Test	Testing period	Effluent			
items	Testing period	Foundational	Progressive	Aspirational	
Antimony	From 23/10/2024 to			Moot	
Antimony	23/10/2024			Meet	
Chromium (VI)	From 23/10/2024 to			Meet	
	23/10/2024			Meet	
Barium	From 23/10/2024 to	Boy	oort only, refer d	ata	
Barlutti	23/10/2024	Ne	Jort Only, Teler u	ala	
Selenium	From 23/10/2024 to	Po	oort only, refer d	ata	
Selelliulli	23/10/2024	Rej	Jort only, refer u	dld	
Tin	From 23/10/2024 to	Boy	oort only, refer d	ata	
1111	23/10/2024	Rej	Jort only, refer u	dld	
Arsenic	From 23/10/2024 to			Meet	
Arsenic	23/10/2024			Meet	
Chromium (total)	From 23/10/2024 to			Meet	
	23/10/2024			Meet	
Cobalt	From 23/10/2024 to			Moot	
Cobalt	23/10/2024			Meet	
Cadmium	From 23/10/2024 to			Meet	
Cadillulli	23/10/2024			Meet	
Coppor	From 23/10/2024 to			Meet	
Copper	23/10/2024			Meet	
Lead	From 23/10/2024 to			Meet	
Leau	23/10/2024			Meet	
Nickel	From 23/10/2024 to			Meet	
NICKEI	23/10/2024			Meet	
Silver	From 23/10/2024 to			Meet	
SIIVEI	23/10/2024			weet	
Zinc	From 23/10/2024 to			Moot	
	23/10/2024			Meet	
Margun	From 23/10/2024 to			Meet	
Mercury	23/10/2024			weet	

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Wastewater / Conventional			Effluent		
parameters - Test items	Testing period	Foundational	Progressive	Aspirational	
	From 17/10/2024 to			-	
pH ^[f]	17/10/2024	Meet			
Tomporature difference [1]	From 17/10/2024 to			Moot	
Temperature difference ^[f]	17/10/2024			Meet	
E.coli	From 17/10/2024 to		Moot	•	
E.COII	22/10/2024	Meet			
Colour	From 18/10/2024 to		Maat		
Colour	18/10/2024		Meet		
Persistent foam ^[f]	From 17/10/2024 to		Meet	•	
Persistent roam?	17/10/2024		Meet		
Wastewater flowrate ^[f]	From 17/10/2024 to	Da	nort only refer a	lata	
wastewater nowrater	17/10/2024	Ke	port only, refer o	Idld	
Ammonium Nitrogon	From 21/10/2024 to			Moot	
Ammonium-Nitrogen	21/10/2024			Meet	
A O Y	From 29/10/2024 to			Moot	
AOX	29/10/2024			Meet	
Biochemical Oxygen Demand	From 18/10/2024 to				
(BOD₅)	23/10/2024			Meet	
Chamical Overson Domand (COD)	From 23/10/2024 to			Moot	
Chemical Oxygen Demand (COD)	23/10/2024			Meet	
Dissolved Overgon (DO) ^[f]	From 17/10/2024 to	Deport only refer data			
Dissolved Oxygen (DO) ^[f]	17/10/2024	Ke	port only, refer o	Idld	
	From 21/10/2024 to			Maat	
Oil & Grease	21/10/2024			Meet	
Total Dhanala / Dhanal Index	From 23/10/2024 to			Maat	
Total Phenols / Phenol Index	23/10/2024			Meet	
Total Chlorine ^[f]	From 17/10/2024 to	Da	ant and under a		
Total Chlorine	17/10/2024	ке	port only, refer d	lata	
Total Dissolved Calida (TDC)	From 18/10/2024 to	Da	ant and under a		
Total Dissolved Solids (TDS)	18/10/2024	ке	port only, refer o	lata	
Tatal Nitura and	From 21/10/2024 to			March	
Total Nitrogen	21/10/2024			Meet	
Total Dhaanhamus	From 23/10/2024 to	Maat			
Total Phosphorus	23/10/2024	Meet			
Total Sugranded Calida (TSS)	From 18/10/2024 to	Maat			
Total Suspended Solids (TSS)	18/10/2024	Meet			

Westewater (Ariana, Tastitarea	Testing period	Effluent		
Wastewater / Anions - Test items	Testing period	Foundational	Progressive	Aspirational
Chloride	From 21/10/2024 to 21/10/2024	Report only, refer data		lata
Cyanide, total	From 18/10/2024 to 18/10/2024			Meet
Sulfate	From 21/10/2024 to 21/10/2024	Report only, refer data		lata

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Sulfide	From 21/10/2024 to 21/10/2024		Meet
Sulfite	From 18/10/2024 to 18/10/2024		Meet

Sludge – Disposal Pathways C

Sludge / Heavy Metals - Test items	Testing period	Sludge (Total)	Sludge (Leachate)
Antimony	From 23/10/2024 to	Meet	
Antimony	23/10/2024	weet	
Arsenic	From 23/10/2024 to	Meet	
Arsenic	23/10/2024	weet	
Deriver	From 23/10/2024 to	Maat	
Barium	23/10/2024	Meet	
Codreiure	From 23/10/2024 to	Maat	
Cadmium	23/10/2024	Meet	
Coholt	From 23/10/2024 to	Maat	
Cobalt	23/10/2024	Meet	
Connen	From 23/10/2024 to	Marat	
Copper	23/10/2024	Meet	
	From 23/10/2024 to		
Lead	23/10/2024	Meet	
All all	From 23/10/2024 to		
Nickel	23/10/2024	Meet	
	From 23/10/2024 to		
Selenium	23/10/2024	Meet	
CI	From 23/10/2024 to		
Silver	23/10/2024	Meet	
	From 23/10/2024 to		
Chromium (total)	23/10/2024	Meet	
	From 23/10/2024 to		
Zinc	23/10/2024	Meet	
	From 23/10/2024 to		
Chromium VI	23/10/2024	Meet	
	From 23/10/2024 to		
Mercury	23/10/2024	Meet	

Sludge / Anion - Test items	Testing period	Sludge
Cyanide	From 18/10/2024 to 18/10/2024	Meet
Sludge / Conventional parameters - Test items	Testing period	Sludge
рН	From 18/10/2024 to 18/10/2024	Meet
% Solids	From 18/10/2024 to 18/10/2024	Report only, refer data

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Paint filter test	From 18/10/2024 to 18/10/2024	Report only, refer data
Faecal coliform	From 17/10/2024 to 21/10/2024	Report only, refer data

Sludge / MRSL - Test items	Testing period	Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	From 20/10/2024 to 20/10/2024	Report only, refer data
Polycyclic Aromatic Hydrocarbons (PAHs)	From 23/10/2024 to 23/10/2024	Report only, refer data
Chlorotoluenes	From 23/10/2024 to 23/10/2024	Report only, refer data

Not	e:	
ND	=	Not detected (less than ZDHC reporting limit for MRSL parameters) / Not detected (less than lab reporting limit
		for other parameters)
D	=	Detected
N/A	=	Not applicable (Out of scope according to ZDHC WWSG v2.1)
NT	=	Not tested (Did not test according to applicant's request)
(T)	=	If sample temperature is greater than 8°C and less than 10°C when received from the laboratory.
(TT)	=	If sample temperature is exceeded 10°C when received from the laboratory.
@	=	Maximum holding time exceeded.
(*)	=	Sample and report for mock leather.
(^)		Borate, zinc salt would report ND when total boron or total zinc less than 100 μ g/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.
Th	is re	port shows the test results of the environmental samples of the above factory which were collected on a specific
da	te a	nd time. The results of this report shall not be used for any regulatory compliance purposes.

Remarks:

- For untreated wastewater, the equalization tank has an average holding time of greater than 12 hours.
- 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. <u>Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers</u>

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)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	5	ND	μg/L
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	5	ND	µg/L
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	5	ND	μg/L
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	5	ND	μg/L

2. <u>Anti- Microbials & Biocides</u>

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	500	ND	μg/L



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3. <u>Chlorinated Parafins</u>

For MCCP: With reference to analysis by ISO18219-2 with GC-MS-NCI analysis. For SCCP: With reference to analysis by ISO18219-1 with GC-MS-NCI analysis.

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

4. <u>Chlorobenzenes and Chlorotoluenes</u>

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	0.2	ND	μg/L

5. <u>Chlorophenols</u>

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
3-Chlorophenol	108-43-0	0.5	ND	μg/L
4-Chlorophenol	106-48-9	0.5	ND	μg/L
2,3-Dichlorophenol	576-24-9	0.5	ND	μg/L
2,4-Dichlorophenol	120-83-2	0.5	ND	μg/L
2,5-Dichlorophenol	583-78-8	0.5	ND	μg/L
2,6-Dichlorophenol	87-65-0	0.5	ND	μg/L
3,4-Dichlorophenol	95-77-2	0.5	ND	μg/L
3,5- Dichlorophenol	591-35-5	0.5	ND	μg/L
2,3,4-Trichlorophenol	15950-66-0	0.5	ND	μg/L
2,3,5-Trichlorophenol	933-78-8	0.5	ND	μg/L
2,3,6-Trichlorophenol	933-75-5	0.5	ND	μg/L
2,4,5-Trichlorophenol	95-95-4	0.5	ND	μg/L
2,4,6-Trichlorophenol	88-06-2	0.5	ND	μg/L
3,4,5-Trichlorophenol	609-19-8	0.5	ND	μg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND	µg/L

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2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND	μg/L
Pentachlorophenol (PCP)	87-86-5	0.5	ND	μg/L

6. <u>Dimethyl Formamide (DMFa)</u>

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

(*) = Sample and report for mock leather.

7. Dyes – Carcinogenic or Equivalent Concern

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

Chamical substances	CAS no.	ZDHC	Untreated	Unit
Chemical substances	CAS NO.	reporting limit (µg/L)	wastewater	
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 >	2580-56-5	500	ND	ug/I
0.1%)	2380-30-3	500	ND	μg/L
C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	ND	μg/L
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	ND	μg/L
C.I. Basic Green 4 (malachite green)	10309-95-2	500	ND	μg/L
C.I. Basic Red 9	569-61-9	500	ND	μg/L
C.I. Basic Violet 14	632-99-5	500	ND	μg/L
C.I. Direct Black 38	1937-37-7	500	ND	μg/L
C.I. Direct Blue 6	2602-46-2	500	ND	μg/L
C.I. Direct Red 28	573-58-0	500	ND	μg/L
C.I. Disperse Blue 1	2475-45-8	500	ND	μg/L
C.I. Disperse Blue 3	2475-46-9	500	ND	μg/L
Disperse Orange 11	82-28-0	500	ND	μg/L



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8. <u>Dyes – Disperse (Allergenic)</u>

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

9. Dyes – Navy Blue Colourant

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

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



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10. Flame retardants

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.

Borate salt: Determined as total boron via ICP analysis.

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

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

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11. <u>Glycols / Glycol Ethers</u>

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

12. <u>Halogenated solvents</u>

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

13. 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	0.01	ND	μg/L
Mono-, di- and tri-butyltin derivatives	Multiple	0.01	ND	μg/L
Mono, di-, and tri-methyltin derivatives	Multiple	0.01	ND	μg/L
Mono, di-, and tri-octyltin derivatives	Multiple	0.01	ND	μg/L
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01	ND	μg/L
Tetrabutyltin compounds (TeBT)	Multiple	0.01	ND	μg/L
Tripropyltin Compounds (TPT)	Multiple	0.01	ND	μg/L
Tetraoctyltin compounds (TeOT)	Multiple	0.01	ND	μg/L
Tricyclohexyltin (TCyHT)	Multiple	0.01	ND	μg/L
Tetraethyltin Compounds (TeET)	Multiple	0.01	ND	μg/L



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14. 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
Thiourea	62-56-6	50	ND	μg/L
Quinoline	91-22-5	50	ND	μg/L
Borate, zinc salt ^^	12767-90-7	100 in Boron & 100 in	Boron: ND	ug/I
	12707-90-7	Zinc	Zinc: ND	µg/L

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

15. 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
Perfluoro octane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	Multiple	0.01	ND	µg/L
Perfluorooctanoic acid (PFOA) related substances	Multiple	1	ND	μg/L

16. <u>Phthalates – including all other esters of ortho-phthalic acid</u>

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

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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

17. <u>Polycyclic aromatic hydrocarbons (PAHs)</u>

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



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18. <u>Restricted Aromatic Amines (Cleavable from Azo-colourants)</u>

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

20. Volatile organic compounds (VOCs)

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 Untreated Reporting limit (µg/L) wastewater		Unit
Benzene	71-43-2	1	ND	μg/L
m-cresol	108-39-4	1	ND	μg/L
o-cresol	95-48-7	1	ND	μg/L
p-cresol	106-44-5	1	ND	μg/L
Xylene	1330-20-7	1	ND	μg/L
Toluene (*)	108-88-3	1	ND	μg/L

(*) = Sample and report for mock leather.



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21. Heavy metals

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

Chemical		Limit		Legal *	Lab		
substances	Foundational	Progressive	Aspirational	Requirem ent	Reporting limit (mg/L)	Effluent	Unit
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	Sam	ple and report	only	-	0.01	ND	mg/L
Selenium	Sam	ple and report	only	-	0.01	ND	mg/L
Tin	Sam	ple 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).



22. **Conventional parameters**

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			Limit		Legal*	-		
Parameters	Test method	Foundational	Progressive	Aspirational	Require ment	Reporting limit	Effluent	Unit
рН	USEPA 150.1		6-9		6-9	N/A	8.1	[f]
Temperature difference	USEPA 170.1	∆+15 °C	∆+10 °C	∆+5 °C	∆+5 °C	N/A	∆+0.9	^[f] °C
E.coli	SM 9221B presumptive, confirm positive with SM9221 F or G	12	6 MPN/100-r	nl	-	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	2.4; 1.5; 1.2	[m ⁻¹]
Persistent Foam	/		o indication c foam in recei		-	N/A	Absent	[f]
Wastewater Flowrate	/		N/A		-	N/A	1117	^[f] m³/ day
Ammonium- Nitrogen	ISO 7150 / USEPA 350.1 / SM 4500 NH3 -F	10 mg/L	1 mg/L	0.5 mg/L	-	0.5 mg/L	ND	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 (BOD₅)	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	24	mg/L
Dissolved Oxygen (DO)	EPA 360.1 / SM 4500-O-G	Samp	le and report	only	-	N/A	5.6	^[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	Samp	le and report	only	-	0.2 mg/L	ND	^(f) mg/L
Total Dissolved Solids (TDS)	SM 2540-C / USEPA 160.1	Samp	le and report	only	2100 mg/L	10 mg/L	310	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	1.2	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	39	mg/L
Chloride	SM 4500-Cl E	Samp	le and report	only	-	10 mg/L	34	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
Sulfate	SM 4500 SO4 E	Samp	le and report	only	-	10 mg/L	80	mg/L
Sulfide	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
Sulfite	ISO 10304-3	2 mg/L	0.5 mg/L	0.2 mg/L	-	0.2 mg/L	ND	mg/L

Remark:

 Δ 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 V2.1.

Parameters	Test Method	Legal Requirement*	Effluent
Color	ISO 7887-C	150 mg Pt /L	54 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. <u>Heavy metals</u>

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	ND	mg/kg
Arsenic	5	2	ND	mg/kg
Barium	200	100	ND	mg/kg
Cadmium	1	1	ND	mg/kg
Cobalt	400	100	ND	mg/kg
Copper	50	25	198	mg/kg
Lead	5	2	7.2	mg/kg
Nickel	20	10	ND	mg/kg
Selenium	5	3	ND	mg/kg
Silver	50	25	ND	mg/kg
Total Chromium	50	25	ND	mg/kg
Zinc	400	200	ND	mg/kg
Chromium (VI)	20	2	ND	mg/kg
Mercury	1	0.2	ND	mg/kg

2. <u>Anions</u>

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

Chemical substances	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Cyanide	20	15	ND	mg/kg



3. <u>Conventional parameters</u>

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Chemical substances	Test method	Lab reporting limit (Dry Weight)	Sludge (Dry weight)	Unit
рН	USEPA SW 9045D	N/A	6.6	N/A
% Solids	USEPA 160.3	N/A	93	%
Paint Filter Test ^	USEPA 9095B	N/A	Pass	N/A
Fecal Coliform	USEPA 1681	10 MPN/g	55	MPN/g

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

4. 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



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5. 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
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

6. <u>Chlorotoluenes</u>

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



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7. Leachate 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 v2.1 Table 4B

Parameters				Di	sposal path	ways		
	Total metals and	A and B	С	D	E	F	G	G
	anions threshold	(Leachate	(Leachate	(Leachate	(Leachate	(Leachate	(Leachate	(Total metals
	values (mg/kg)	result in	result in	result in	result in	result in	result in	limit in
		mg/L)	mg/L)	mg/L)	mg/L)	mg/L)	mg/L)	mg/kg)
Arsenic	10		5	2.75	0.5	0.5	0.5	75
Cadmium	3		1	0.58	0.15	0.15	0.15	85
Total	100		15	10	5	5	5	2000
Chromium	100		15	10	5	5	5	3000
Lead	10		5	2.75	0.5	0.5	0.5	840
Antimony	12		15	7.8	0.6	0.6	0.6	Sample and
Barium	700	Report	100	67.5	35	35	35	report only
Cobalt	1600	only if	80	80	80	80	80	
Copper	200	required	25	17.5	10	10	10	4300
Nickel	70	to test	20	11.75	3.5	3.5	3.5	420
Selenium	10		1	0.75	0.5	0.5	0.5	100
Silver	100		5	5	5	5	5	Sample and report only
Zinc	1000		250	150	50	50	50	7500
Chromium VI	50	-	5	3.75	2.5	2.5	2.5	50
Mercury	1	-	0.2	0.125	0.05	0.05	0.05	57

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

Parameters			Dispo	osal pathways		
	A and B	С	D	E	F	G
рН		5 – 11 s.u.	5 – 11 s.u.	5 – 11 s.u.	6.5 – 9 s.u.	6.5 – 9 s.u.
% Solids			Sample and	Sample and	Sample and report only	Sample and report only
Fecal Coliform			report only	report only	< 1000	(MPN/g)
Paint Filter Test	Sample	Sample	Pa	iss Paint filter te	st	Sample and report only
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	and report only	and report only		< 0.4 r	ng/kg	<u> </u>
Polycyclic Aromatic Hydrocarbons (PAHs) Chlorotoluenes				< 0.2 r	ng/kg	

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

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

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Total Quality. Assured. SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Photo of sampling points:

Untreated wastewater

intertek



Effluent



Sludge





SOFTLINES WASTEWATER TESTING **TEST REPORT (TEXTILES)**

Photo of samples:

Untreated wastewater



Number: BGDT24145632

Effluent



Sludge





5

Attachment – sampling protocol for wastewater & sludge:

Sampli	ng Pro	tocol	for V	Vastewa	ter and S	ludge	acc. ZD	HC SA	P 2.1	incl. A	pdx. E
Facility Name		Ma	hmu	d Deni	ms lim	ited					
Address and	Contact:	563	3159 C	37, Sha inazipun	fipm, K -1751,	ialiak Bac	cair, nglad	Kal	iakai	r Ps	
Facility type (tick all applic	and the second second second	Dyeing Finishi	ng	□ Fabric Mill	Laundry, W and Finishir		Natural Lea processing	ather 🛛	Printing		hetic Leather essing
Date of samp	ling:	17/1	0/20	24	/						
Sample Gene (if applicable)	Contracting the second states of the	TSEL	241	0064	 direct discharg indirect discharg Zero Liquid Dis MMCF 	rge	G withou	re-treatme ut treatme wn ETP	nt	ange to:	L
Discharge desc	ription:	NIA		n an an thur an an an Ar							
Weather con	ditions: d	on sampli	ng day:	Cloud	ł	on day	before:	Sun	ry		
Fill in all above i	nformation as	applicable.		an and a strategic to a	weather that provide weather the second state	and a completion of the					
Discharge	direct: Enter samplir Sample Detai	ng times in		ampling time(s) f	or Facility h	nas WWTP	♦ with Equal Hydraulic Reference of the second	tention Ti	me (HRT):	24	h
Pre-treated	Enter samplir Sample Detai and measure parameters. WW	ng times in Is (page 2),	Enter sa Indirect parame except	ect ampling time(s) f discharge. Field eters are not reque on client's reque with Equ	alisation Tank (EC	in condition QT) present:	Hydraulic Re (= Volume o If HRT > 12h	etention Ti f tank [m³] , grab sam	me (HRT): / Flow rate	[m³/h]) EQT is allo	
	Enter samplir Sample Detai and measure parameters. WW	ng times in Is (page 2), field	Enter sa Indirect parame except	ect ampling time(s) f discharge. Field eters are not requ on client's reque with Equ HRT: 2	ired, Plant is i operating o	in condition Q T) present: e of tank [m	Hydraulic Re (= Volume o If HRT > 12h	etention Ti f tank [m³] , grab sam	me (HRT): / Flow rate pling from I	[m³/h]) EQT is allo	wed.
Pre-treated without slue Sludge with O A >1000 °C off incineration *) if supplier can	Enter samplir Sample Detai and measure parameters. WW dge below dispo below dispo G B Landfi signific not provide ir	ng times in Is (page 2), field Untreation Il with cant contro oformation,	Enter sa Indirect parame except of ated WW	ect ampling time(s) f t discharge. Field eters are not reque on client's reque with Equ HRT: 2 If HRT > 12	ired, operating o operating o alisation Tank (EC M h (= Volumi h, grab sampling O D Landfill with limited control	in condition QT) present: e of tank [m from EQT i O E Incinera	Hydraulic Re (= Volume o If HRT > 12h	etention Ti f tank [m ³] , grab sam [m ³ /h]) age of slu g	me (HRT): / Flow rate pling from I	(m ³ /h]) EQT is allo ag Water days / we	wed.
Pre-treated without slue Sludge with O A >1000 °C off incineration	Enter samplir Sample Detai and measure parameters. WW dge below dispo signifi not provide in generated:	ng times in Is (page 2), field Untreation Il with cant contro oformation,	Enter sa Indirect parame except ated WW ay*): Build proc pathway "	ect ampling time(s) f (discharge. Field ters are not requ- with Eqn HRT: 2 If HRT > 1; ding products cressed >1000 *C F*" shall be assum 3/h OL/sec O	ired, operating o operating o alisation Tank (EC M h (= Volumi h, grab sampling O D Landfill with limited control	In condition (T) present: e of tank [m from EQT i O E Incinera product	Hydraulic Re (= Volume o If HRT > 12h a ³ / Flow rate s allowed	etention Ti f tank (m ³) , grab sam (m ³ /h)) age of slu age of slu (1000 °C illity info	me (HRT): / Flow rate pling from I Incomin udge : 35 O F Landfill with control O measured	(m ³ /h]) EQT is allo ing Water days / w O G no Lanc	wed.
Pre-treated without slui Sludge with A >1000 °C off incineration *) if supplier can Sludge volume	Enter samplir Sample Detai and measure parameters. WW dge below dispo signifi not provide in generated:	ng times in Is (page 2), field Untreation Untreation I with cant contro formation, N/A O liquid	Enter sa Indirect parame except ated WW ay*): Build proc pathway "	ect ampling time(s) f (discharge. Field ters are not requ- with Eqn HRT: 2 If HRT > 1; ding products cressed >1000 *C F*" shall be assum 3/h OL/sec O	ired, operating o palisation Tank (EC h, grab sampling O D Landfill with limited contro ed.	In condition (T) present: e of tank [m from EQT i O E Incinera product	Hydraulic Re (= Volume o If HRT > 12h a ³] / Flow rate s allowed ation / Buildin ts processed < oper fac rom running p	etention Ti f tank (m ³) , grab sam (m ³ /h)) age of slu age of slu (1000 °C illity info	me (HRT): / Flow rate pling from I Incomin udge : 35 O F Landfill with control O measured	(m ³ /h]) EQT is allo g Water days / ww O G no Land d O esti n warehou or Gra	wed. MMCF application mated se/storage b (HRT>12h):
 Pre-treated without sluv Sludge with A >1000 °C officient incineration if supplier can Sludge volume Process Che Times of sampling 	Enter samplir Sample Detai and measure parameters. WW dge below dispo below dispo O B Landfi signifi not provide ir generated: mical Untreate Effluent	ng times in Is (page 2), field Untreation I with cant contro oformation, N/A O liquid d: 1	Enter sa Indirect parame except ated WW ay*): Builo pathway " Om O s	ect ampling time(s) f (discharge, Field teters are not requ with Eqn HRT: 2 If HRT > 12 ding products ressed >1000 °C F" shall be assur a)h OL/sec O solid (powder/g	A constraint of the second sec	in condition 201) present: e of tank (m from EQT i O E Incineration product : \$\log fr	Hydraulic Re (= Volume o If HRT > 12h a ³] / Flow rate s allowed ation / Buildin ts processed < oper fac rom running p 6	etention Ti f tank (m ³) , grab sam (m ³ /h)) age of slu age of slu (1000 °C illity info	me (HRT): / Flow rate pling from I Incomin udge : 15 O F Landfill with control O measured \diamond from	(m ³ /h]) EQT is allo g Water days / ww o G no Land d O esti n warehou or Gra	application mated
Pre-treated without sluu Sludge with O A >1000 °C offi incineration *) if supplier can Sludge volume Process Che Times of	Enter samplir Sample Detai and measure parameters. WW dge below dispo below dispo signific not provide in generated: mical Untreate	ng times in Is (page 2), field Untreation osal pathwa Il with cant contro oformation, N/A O liquid d: 1 1 1;	Enter sz Indirect parame except ated WW ay*): Build proc pathway " Om	ect ampling time(s) f discharge. Field tetrs are not requ- with Eqn HRT: 2 If HRT > 1; ding products cressed > 1000 *C F*" shall be assum 3/h OL/sec O o solid (powder/g 2	ired, operating of operating of operating of operating of operating of the sampling of the sam	in condition 2T) present: condition 2T) present: contant from EQT i from EQT i Incinera product :	Hydraulic Re (= Volume o If HRT > 12h allowed ation / Buildin is processed < oper fac rom running p 6 6 6	etention Ti f tank (m ³) , grab sam (m ³ /h)) age of slu age of slu (1000 °C illity info	me (HRT): / Flow rate pling from I Incomin udge : 35 O F Landfill with control O measured \diamond from 7	(m ³ /h]) EQT is allo ag Water days / ww days / ww o G do G do esti h warehou or Gra 1 2 or Gra	wed. MMCF application imated se/storage b (HRT>12h): 30
Pre-treated without sluu Sludge with A >1000 °C off incineration ') if supplier can Sludge volume Process Che Times of sampling (if applicable) For direct disch	Enter samplir Sample Detai and measure parameters. WW dge below dispo o B Landfi signifi not provide in e generated: mical Untreate Effluent (indirect) Incoming Sludge (II arge, see p. 2	ag times in Is (page 2), field Untreat untreat Untre	Enter sa Indirect parame except ated WW ay*): Builo proc pathway " Om O s	ect ampling time(s) f discharge. Field ters are not requ- with Eq HRT: 2 If HRT > 12 ding products ressed > 1000 °C (*" shall be assurf 3/h OL/sec O of solid (powder/g 2 2 2 2	Arrived, operating of operating of operating of operating of the second	in condition 2T) present: 2T) present: e of tank (m from EQT i from EQT i Incinera product :	Hydraulic Re (= Volume o If HRT > 12h a ³] / Flow rate s allowed tion / Buildin ts processed < per fac rom running p 6 6 6 6 6 6	etention Ti f tank (m ³), grab sam [(m ³ /h]) age of slu age of slu g 1000 °C illity info process	me (HRT): / Flow rate pling from I □ Incomin udge : 15 ○ F Landfill with control ○ measured ◇ from 7 7 7 7 7	(m ³ /h]) EQT is allo g Water d O estin n warehou or Gra or Gra or Gra Solid s 14	wed. MMCF MMCF application mated b (HRT>12h): b (HRT>12h): b ²¹ (HRT>12h) age: a

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intertek ZDHC Monitoring

Composite Composite	Sample		column for Ave	raged Readings	and in field at ri	ght)	olume of alio		000 m
Time of discrete effluent sample		2 11:00	3 12:00	4 13:00	5 14:00	615:00	7 16:00	Avera or Grab	ged Readings Sample readings
pH:	8.0	8.1	8.0	8.1	8.1	8.0	8.0	8.1	
Temp. WW dis	charge 29.1	°C 29.1 °C	29.3 0	29.3.0	29.1 %	29.4.0	29.3.		
	gwater 28.2	·c 28.2.°c	28.3 °C	28.5 °C	28.6 °C	28.5%	28.5.	c 28.	4.
Flow rate:		L/s 12.9 L/s							
Dissolved Oxyg	en: 5.6 m	g/L 5.7 mg/L	5.4 mg/L	5.8 mg/L	5.9 mg/L	5.8 mg/L	5.3 mg/	5.6	mg/
Total Chlorine:	N0 m	g/L N) mg/L	ND mg/L	ND mg/L	NI) mg/L	Nil mg/L	ND mg/	ND	mg/
Persistent foam	n: O yes Ø	no O yes Ø no							
**) time when Note: 1.0 m ³ /h	discrete sample for = 0.27 L/s ; 1.0 L/s =	composite was take	n. Use commen 0.042 m³/d; mu	t field if number out in the flow ra	of samples is gre	eater than seven	or if above fie	lds are othen	wise not sufficient. rate in m³/d;
Sampling pro	cedure: O auto	mated sampling	with bea	aker/bowl (O other:				******
Wastewate	r Flow Data (E	AND A DREAM OF A DREAM PROPERTY OF A DREAM OF A	A STATE OF THE OWNER AND A STATE OF THE OWNER				The second second		
System:		v meter (in facility)		🗖 Pipe (O)		G Flume (U)		Wier (V)	
Diameter [cr	n]								
Water Depth	[cm]								
Flow Speed [and a second second		and the second	CORNER AND AND			
General Fie	Id Parameters	and Sensory D	ata (enter as	far as applicabl	e)	Asian Sector	Ref Research	State Land	
General Field Parameters and Sensory Data Type T ambient air [°C] Odour					Colour		Fo	Foaming Floating matter	
ncoming						0	Foaming Floating matter O yes o no O yes O no		
Intreated								-	O yes no
				Light Brown Dark Blue		1.			
ffluent					Light	Brown	0	yes no	O yes o no
ludge					Dark	Blue		$> \langle$	X
Field Testing	QA/QC	Service Services	A Takes	- LA STATE		· Satur	ALL AND A		
Parameter	Lab Contro	l Sample targe	t value	ab Control	Sample mea	sured value		Accur	acy [%]
pН		7.0		7.0				09.99.1.	
Total Chlorin	e	0.5 mg/L			0.48 mg/L			98.0.1.	
		51							
Other observa	itions:				š				
Additional not	t es (e.g., alternativ	vely measured flow	v and readings,	, abbreviations	used, etc):				
									GET

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ZDHC Wastewater Sampling - Facility Confirmation

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

Sampling person (name & email address):

Sampler's ZDHC accreditation no.:

Facility Name:

Tushon Kanti Royo eminormentaliab. setting by d @ intertex.com

ZDHC-A-23-E-COO1068-R3A43-

Facility's Representative name:

Mahmud Derving Ltd.

NI ABDUL AZ12 Facility's Representative Signature and Stander MS

Sampler's Signature:

10A4D

 Rev 10b-4b - use with Guideline CS009.TP (Issue 10b)
 Page 3 of 3
 Effective Date: 04-5

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Number: BGDT24145632

End of report

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