



Test Report: (6823)012-0361

Report Date: January 29, 2023

Factory Company Name: EOS Textile Mills Ltd.

Factory Address: Plot No: 1-6, 17-22, New Extension, DEPZ, Savar, Dhaka, 1349, Bangladesh.

Sampling Method & Description:	1001) Untreated wastewater	Grab	Reddish color liquid
	1002) Effluent	Grab	Purple color liquid
	1003) Sludge	Composite	Black color mud
	1004) Leachate	-	Not tested

Discharge Type: **Direct Discharge**

On-site ETP / Pretreatment: Yes

Discharge Destination: BEPZA Drain

Permit Validation Date: Not applicable

Conventional, Anions & Heavy Metals Overall Category: Foundational ZDHC MRSL Parameters: Not detected

Sludge Parameters: Meet ZDHC Threshold Value

Sample Pick Up Date: January 12, 2023 Sampler Certification Number: C74D106817446

Test Period: January 12, 2023 to January 29, 2023

Parameter(s) exceeded maximum holding time: Not applicable

Remark

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

Type of Process:	Textile	Average total industrial wastewater generated:	Equal or more than 15m³/day
Sludge Disposal Pathway:	Disposal Pathway E		
Type of Sludge:	Mud		

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 DEPUTY SR. MANAGER, RSL OPERATIONS

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Result Summary - ZDHC MRSL Wastewater Parameters

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

a = Report only for mock leather



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

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



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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
Cobalt	ND	NR
Copper	Refer to result	NR
Lead	Refer to result	NR
Nickel	Refer to result	NR
Selenium	ND	NR
Silver	ND	NR
Total Chromium	Refer to result	NR
Zinc	Refer to result	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	ND	
PAHs	ND	
Chlorotoluenes	ND	

Note / Key:

Meet	=	Meet Foundational Limit
Not Meet	=	Exceed Foundational Limit
NR	=	Not requested / Not required
NA	=	Not applicable
D	=	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 (µg/L)	I002 (µg/L)	I003 (mg/kg)	I004 (mg/L)	Wastewater (µg/L)	Sludge (mg/kg)	Leachate [#] (mg/L)
1A) AP and APEOs: including all isomers							
NPEO	ND	NR	ND	NR	5	0.4 ^e	Please refer to leachate limits in the ZDHC Wastewater Guidelines
NP, mixed isomers	ND		ND				
OPEO	ND		ND				
OP, mixed isomers	ND		ND				
1B) Anti-Microbials & Biocides							
o-Phenylphenol (+salts)	ND	NR	NR	NR	100	-	-
Triclosan	ND				500	-	-
Permethrin	ND						
1C) Chlorinated Parafins							
MCCPs (C14-C17)	ND	NR	NR	NR	500	-	-
SCCPs (C10-C13)	ND				25	-	-
1D) Chlorobenzenes and Chlorotoluenes							
1,2-dichlorobenzene	ND	NR	NR	NR	0.2	-	-
Other isomers of mono-, di-, tri-, tetra-, penta- and hexa- chlorobenzene	ND						
Other isomers of mon-, di-, tri-, tetra- and penta-chlorotoluene	ND		ND	NR			
1E) Chlorophenols							
2-chlorophenol	ND	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						
1F) N,N-di-methylformamide (DMFa)							
Dimethyl formamide;							
N,N-dimethylformamide (DMFa) ^a	NR	NR	NR	NR	1000	-	-

a = Report only for mock leather

e = Sludge parameter limit refers Table 4C and 4D in the ZDHC Wastewater Guidelines.



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Test Result - ZDHC MRSL Parameters (continued)

Test Parameters	Results of Test Items				Requirements [Textile]		
	1001 (µg/L)	1002 (µg/L)	1003 (mg/kg)	1004 (mg/L)	Wastewater (µg/L)	Sludge (mg/kg)	Leachate [#] (mg/L)
1G) Dyes - Carcinogenic or Equivalent Concern							
Basic violet 3 with >0.1% of Michler's Ketone	ND						
C.I. Acid Red 26	ND						
C.I. Acid Violet 49	ND						
C.I. Basic Blue 26 (with Michler's Ketone >0/1%)	ND						
C.I. Basic Green 4 (Malachite Green Chloride)	ND						
C.I. Basic Green 4 (Malachite Green Oxalate)	ND						
C.I. Basic Green 4 (Malachite Green)	ND						
C.I. Basic Red 9	ND	NR	NR	NR	500	-	-
C.I. Basic Violet 14	ND						
C.I. Direct Black 38	ND						
C.I. Direct Blue 6	ND						
C.I. Direct Red 28	ND						
C.I. Disperse Blue 1	ND						
C.I. Disperse Blue 3	ND						
Disperse Orange 11	ND						
1H) Dyes - Disperse (Allergenic)							
Disperse Blue 102	ND						
Disperse Blue 106	ND						
Disperse Blue 124	ND						
Disperse Blue 26	ND						
Disperse Blue 35 (CAS 12222-75-2)	ND						
Disperse Blue 35 (CAS 56524-77-7)	ND						
Disperse Blue 7	ND						
Disperse Brown 1	ND						
Disperse Orange 1	ND						
Disperse Orange 3	ND	NR	NR	NR	50	-	-
Disperse Orange 37/59/76	ND						
Disperse Red 1	ND						
Disperse Red 11	ND						
Disperse Red 17	ND						
Disperse Yellow 1	ND						
Disperse Yellow 3	ND						
Disperse Yellow 39	ND						
Disperse Yellow 49	ND						
Disperse Yellow 9	ND						
1I) Dyes - Navy Blue Colourant							
Component 1: C39H23Cl-CrN7O12S 2Na	ND	NR	NR	NR	500	-	-
Component 2: C46H-30CrN10O20S2 3Na	ND						



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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)	Wastewater (µg/L)	Sludge (mg/kg)	Leachate [#] (mg/L)
1J) Flame Retardants							
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	ND						
Di(2,3-dibromopropyl) phosphate (BIS)	ND						
Decabromophenyl ether (DecaBDE)	ND						
Hexabromocyclodecane (HBCDD)	ND						
Octabromodiphenyl ether (OctaBDE)	ND						
Pentabromodiphenyl ether (PentaBDE)	ND						
Polybromobiphenyls (PBB)	ND						
Tetrabromobisphenol A (TBBPA)	ND						
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	ND						
Tris(1-aziridinyl)phosphone oxide (TEPA)	ND						
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	ND						
Tris(2-chloroethyl) phosphate (TCEP)	ND						
Tris(2,3-dibromopropyl) phosphate (TRIS)	ND				25		
Decabromobiphenyl (DecaBB)	ND						
Dibromobiphenyls (DiBB)	ND	NR	NR	NR		-	-
Octabromobiphenyls (OctaBB)	ND						
Dibromopropylether	ND						
Heptabromodiphenyl ether (HeptaBDE)	ND						
Hexabromodiphenyl ether (HexaBDE)	ND						
Monobromobiphenyls (MonoBB)	ND						
Monobromodiphenylethers (MonoBDEs)	ND						
Nonabromobiphenyls (NonaBB)	ND						
Nonabromodiphenyl ether (NonaBDE)	ND						
Tetrabromodiphenyl ether (TetraBDE)	ND						
Tribromophenylethers (TriBDEs)	ND						
Boric acid ^b	ND						
Diboron trioxide ^b	ND						
Disodium octaborate ^b	ND				100		
Disodium tetraborate anhydrous ^b	ND						
Tetraboron disodium heptaoxide, hydrate ^b	ND						
1K) Glycols / Glycol Ethers							
2-ethoxyethanol	ND						
2-ethoxyethyl acetate	ND						
2-methoxyethanol	ND						
2-methoxyethylacetate	ND	NR	NR	NR	50	-	-
2-methoxypropylacetate	ND						
Bis(2-methoxyethyl)-ether	ND						
Ethylene glycol dimethyl ether	ND						
Triethylene glycol dimethyl ether	ND						
1L) Halogenated Solvents							
1,2-dichloroethane	ND						
Methylene chloride	ND						
Tetrachloroethylene	ND	NR	NR	NR	1	-	-
Trichloroethylene	ND						

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



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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)	Wastewater (µg/L)	Sludge (mg/kg)	Leachate [#] (mg/L)						
1M) Organotin Compounds													
Dipropyltin compounds (DPT)	ND	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												
Tetrabutyltin compounds (TeBT)	ND												
Tripropyltin compounds (TPT)	ND												
Tetraoctyltin compounds (TeOT)	ND												
Tricyclohexyltin (TCyHT)	ND												
Tetraethyltin compounds (TeET)	ND												
1N) Other / Miscellaneous Chemicals													
AEEA [2-(2-aminoethylamino)ethanol]	ND							NR	NR	NR	500	-	-
Bisphenol A	ND	10											
Thiourea	ND	50											
Quinoline	ND	100											
Borate, zinc salt ^c	ND	NA											
Silica (used in sand blasting) ^d	NR												
1O) Perfluorinated and Polyfluorinated Chemicals (PFCs)													
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	ND	NR	NR	NR	0.01	-	-						
Perfluorooctanoic acid (PFOA) related substances	ND				1								
1P) Phthalates - including all other esters of ortho-phthalic acid													
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP)	ND	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 required to test this parameter as this is related to sand blasting



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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)	Wastewater (µg/L)	Sludge (mg/kg)	Leachate [#] (mg/L)
1Q) Polycyclic Aromatic Hydrocarbons (PAHs)							
Acenaphthene	ND	NR	ND	NR	1	0.2 ^e	Please refer to leachate limits in the ZDHC Wastewater Guidelines
Acenaphthylene	ND						
Anthracene	ND						
Benzo[a]anthracene	ND						
Benzo[a]pyrene (BaP)	ND						
Benzo[b]fluoranthene	ND						
Benzo[e]pyrene	ND						
Benzo[ghi]perylene	ND						
Benzo[j]fluoranthene	ND						
Benzo[k]fluoranthene	ND						
Chrysene	ND						
Dibenz[a,h]anthracene	ND						
Fluoranthene	ND						
Fluorene	ND						
Indeno[1,2,3-cd]pyrene	ND						
Naphthalene	ND						
Phenanthrene	ND						
Pyrene	ND						
1R) Restricted Aromatic Amines (Cleavable from Azo-colourants)							
2-naphthylamine	ND	NR	NR	NR	0.1	-	-
2-naphthylammoniumacetate	ND						
2,4-xylydine	ND						
2,4,5-trimethylaniline	ND						
2,4,5-trimethylaniline hydrochloride	ND						
2,6-xylydine	ND						
3,3'-dichlorobenzidine	ND						
3,3-dimethoxybenzidine	ND						
3,3-dimethylbenzidine	ND						
4-aminoazobenzene	ND						
4-aminodiphenyl	ND						
4-chloro-o-toluidine	ND						
4-chloro-o-toluidinium chloride	ND						
4-chloroaniline	ND						
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoaniline sulphate	ND						
4-methoxy-m-phenylenediamine	ND						
4-methyl-m-phenylenediamine	ND						
4,4-methylene-bis-(2-chloro-aniline)	ND						
4,4-methylenedi-o-toluidine	ND						
4,4-methylenedianiline	ND						
4,4-oxydianiline	ND						
4,4-thiodianiline	ND						
5-nitro-o-toluidine	ND						
6-methoxy-m-toluidine	ND						
Benzidine	ND						
o-aminoazotoluene	ND						
o-anisidine	ND						
o-toluidine	ND						

e = Sludge parameter limit refers Table 4C and 4D in 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)	Wastewater (µg/L)	Sludge (mg/kg)	Leachate [#] (mg/L)
1S) UV Absorbers							
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	ND	NR	NR	NR	100	-	-
2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	ND						
2-benzotriazol-2-yl-4,6-di-tert- butylphenol (UV-320)	ND						
2,4-Di-tert-butyl-6-(5- chlorobenzotriazole-2-yl) phenol (UV-327)	ND						
1T) Volatile Organic Compounds (VOC)							
Benzene	ND	NR	NR	NR	1	-	-
m-cresol	ND						
o-cresol	ND						
p-cresol	ND						
Xylene	ND						
Toluene ^a	NR						

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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	Wastewater			Sludge	
								Foundational	Progressive	Aspirational	Sludge Threshold Values	Leachate Limit#
ZDHC Heavy Metals												
Antimony	mg/L	mg/kg	mg/L	NR	ND	ND		0.1	0.05	0.01	12	Please refer to leachate limits in the ZDHC Wastewater Guidelines
Chromium (VI)	mg/L	mg/kg	mg/L		ND	ND		0.05	0.005	0.001	50	
Barium	mg/L	mg/kg	mg/L		ND	ND		Sample & Report			700	
Selenium	mg/L	mg/kg	mg/L		ND	ND		Sample & Report			10	
Tin	mg/L	-	-		ND	NR	NR	Sample & Report			-	
Arsenic	mg/L	mg/kg	mg/L		ND	ND		0.05	0.01	0.005	10	
Total Chromium	mg/L	mg/kg	mg/L		ND	87		0.2	0.1	0.05	100	
Cobalt	mg/L	mg/kg	mg/L		ND	ND		0.05	0.02	0.01	1600	
Cadmium	mg/L	mg/kg	mg/L		ND	ND		0.1	0.05	0.01	3	
Copper	mg/L	mg/kg	mg/L		ND	128		1	0.5	0.25	200	
Lead	mg/L	mg/kg	mg/L		ND	8		0.1	0.05	0.01	10	
Nickel	mg/L	mg/kg	mg/L		ND	55		0.2	0.1	0.05	70	
Silver	mg/L	mg/kg	mg/L		ND	ND		0.1	0.05	0.005	100	
Zinc	mg/L	mg/kg	mg/L		ND	806		5	1	0.5	1000	
Mercury	mg/L	mg/kg	mg/L		ND	ND		0.01	0.005	0.001	1	

#Limit refers to Table 4B to 4D in the ZDHC Wastewater Guidelines.



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#Please refer to leachate limits mentioned in the ZDHC Wastewater Guidelines.

Test Result - ZDHC Conventional and Anions Parameters

Test Parameters	Unit			Results of Test Items				Requirements [Textile]				
	Wastewater	Sludge	Leachate	1001	1002	1003	1004	Wastewater			Sludge	
								Foundational	Progressive	Aspirational	Sludge Threshold Values	Leachate Limit [#]
ZDHC Conventional												
pH ^e	pH	-	-	-	7.9	8	-	6 - 9			-	-
Tempature difference	Δ °C	-	-	-	6.9	-	-	15	10	5	-	-
E.coli	MPN/100-ml	-	-	-	<1	-	-	126			-	-
Colour (436 nm)	m ⁻¹	-	-	-	6.6	-	-	7	5	2	-	-
Colour (525 nm)	m ⁻¹	-	-	-	4.9	-	-	5	3	1	-	-
Colour (620 nm)	m ⁻¹	-	-	-	2.9	-	-	3	2	1	-	-
Persistent Foam	-	-	-	-	Absent	-	-	No indication of Persistent Foam			-	-
Wastewater Flowrate	m ³ /day	-	-	-	484.2	-	-	-			-	-
Ammonium-Nitrogen	mg/L	-	-	-	ND	-	-	10	1	0.5	-	-
AOX	mg/L	-	-	-	0.48	-	-	3	0.5	0.1	-	-
BOD ₅	mg/L	-	-	-	11	NR	-	30	15	8	-	-
COD	mg/L	-	-	-	40	-	-	150	80	40	-	-
DO	mg/L	-	-	-	6.9	-	-	Sample & Report			-	-
Oil & Grease	mg/L	-	-	-	1.8	-	-	10	2	0.5	-	-
Total Phenols / Phenol Index	mg/L	-	-	-	ND	-	-	0.5	0.01	0.001	-	-
Total Chlorine	mg/L	-	-	-	0.2	-	-	Sample & Report			-	-
TDS	mg/L	-	-	-	948	-	-	-			-	-
Total Nitrogen	mg/L	-	-	-	8.6	-	-	20	10	5	-	-
Total Phosphorus	mg/L	-	-	-	1.18	-	-	3	0.5	0.1	-	-
TSS	mg/L	-	-	-	5	-	-	50	15	5	-	-
% Solids ^e	-	%	-	-	-	17.77	-	-			-	-
Paint Filter Test ^e	-	-	-	-	NR	Pass	-	-			-	-
Fecal Coliform ^e	-	MPN/100 ml	-	-	-	<1.8	-	-			-	-
ZDHC Anions												
Chloride	mg/L	-	-	-	239.93	NR	-	Sample & Report			-	-
Cyanide, total ^e	mg/L	mg/kg	mg/L	-	ND	ND	-	0.2	0.1	0.05	-	-
Sulfate	mg/L	-	-	-	9.414	NR	-	Sample & Report			-	-
Sulfide	mg/L	-	-	-	0.14	NR	-	0.5	0.05	0.01	-	-
Sulfite	mg/L	-	-	-	0.5	NR	-	2	0.5	0.20	-	-

e = Sludge parameter limit refers Table 4C and 4D in the ZDHC Wastewater Guidelines.

#Limit refers to Table 4B to 4D in the ZDHC Wastewater Guidelines.



Test Report: (6823)012-0361

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Appendix A - Discharge limit according to regulation: The Environment Conservation Rules, 1997, (Inland Surface Water, 4)

Sl No.	Test Parameters	Type	unit	Limitation Value of Legal Requirements
1	Temperature	Conventional	°C	40
2	TSS	Conventional	mg/L	150
3	COD	Conventional	mg/L	200
4	Total-N	Conventional	mg/L	NA
5	pH	Conventional	Range	6-9
6	Colour [m-1] (436nm; 525; 620nm)	Conventional	m ⁻¹	NA
7	BOD5	Conventional	mg/L	50
8	Ammonium-N	Conventional	mg/L	50
9	Total Phosphorus	Conventional	mg/L	8
10	AOX	Conventional	mg/L	NA
11	Oil and Grease	Conventional	mg/L	10
12	Phenol / Phenol Index	Conventional	mg/L	1
13	Coliform	Conventional	bacteria/100 ml	NA
14	Chloride	Conventional	mg/L	600
15	Persistent Foam	Conventional	--	NA
16	Cyanide	Conventional	mg/L	0.1
17	DO(Dissolved Oxygen)	Conventional	mg/L	4.5-8
18	Sulfide	Conventional	mg/L	1
19	Total Dissolved Solids	Conventional	mg/L	2100
20	Electrical Conductivity	Conventional	µmhos/cm	1200
21	Fluoride	Conventional	mg/L	2
22	Sulfite	Conventional	mg/L	NA
23	Antimony	Metals	mg/L	NA
24	Chromium, total	Metals	mg/L	0.5
25	Cobalt	Metals	mg/L	NA
26	Copper	Metals	mg/L	0.5
27	Boron	Metals	mg/L	2
28	Nickel	Metals	mg/L	1
29	Silver	Metals	mg/L	NA
30	Zinc	Metals	mg/L	5
31	Arsenic	Metals	mg/L	0.2
32	Cadmium	Metals	mg/L	0.5
33	Chromium (VI)	Metals	mg/L	0.1
34	Lead	Metals	mg/L	0.1
35	Mercury	Metals	mg/L	0.01
36	Iron	Metals	mg/L	2
37	Selenium	Metals	mg/L	0.05
38	Manganese	Metals	mg/L	5



Test Report: (6823)012-0361

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Appendix B - Sample Photos

I001) Sampling point

GPS Location: N 24° 18' 49.32"; E 89° 36' 32.04'



I001) Sampling location surrounding

(N 24° 18' 49.32"; E 89° 36' 32.04")



I001) Labelled sample bottles



I001) Sample for phthalate test



I001) Sample packaging



I002) Sampling point

GPS Location: N 24° 18' 49.32"; E 89° 36' 32.04'



I002) Sampling location surrounding

(N 24° 18' 49.32"; E 89° 36' 32.04")



I002) Labelled sample bottles



I002) pH measurement



I002) Sample packaging





Test Report: (6823)012-0361

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Appendix B - Sample Photos (continued)

I003) Sampling point

GPS Location: N 24° 18' 49.32"; E 89° 36' 32.04'



I003) Sampling location surrounding

(N 24° 18' 49.32"; E 89° 36' 32.04")



I003) Labelled sample bottles



I003) Sample packaging





Test Report: (6823)012-0361

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Appendix C - On-site Field Data Record Sheet

	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04
		Issue Date:
		Version No.: 18
		Business Line: Analytical

General Data

Laboratory Sample Number: (6823) 012-0361

Client Name: _____

Field Contact Person: Mr. Arong Phone No: 01819 988256

Project (Facility Name and Address): Eos Textile mill Ltd.

Sample Identification: Zero discharge with sampling plan

Sample Type: Composite Sample / Grab sample (Please delete as appropriate)

Discharge mode: Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant

Date of collection: 12.01.23

Factory Type: Dyeing / Printing / Washing / Finishing / Others (please specify):

*Note: It would be selected more than one

Sampling Collection Information

Sampling Location / Description: E.T.P = Inlet

Sampling Device Description/ Owner: _____

Sampling mode: Autosampler/ Manual

Sampler Information

Sampler Name/ Email: Md. Asad Hosain.

Sampler ZDHC Accredited no.: C79D106817996

ZDHC Composite Sample Code: _____

Field Data for Wastewater

Arrival Time:	<u>10:40</u>	Departure Time:	<u>12:50</u>
Field Parameters	pH: <u>8.0</u>	Temp: <u>40.1</u> °C	Color: <u>Reddish.</u> Flow rate: (volume/min)
Control No. of field equipment			
Factory with effluent treatment plant:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample matrix:	<input checked="" type="checkbox"/>	Incoming water (If required)	
	<input type="checkbox"/>	Wastewater before treatment	
	<input type="checkbox"/>	Wastewater after treatment - water at discharge point	
Sampler container number	<u>18</u>		

ZDHC Wastewater Flow Device Dimensions				
Measurement (cm)	Meter	Pipe (O)	Flume (U)	Wier (V)
Diameter	NA			
Depth	NA	NA	NA	

ZDHC Wastewater Sampling Field Testing QA/QC			
Parameter	Laboratory control sample (LCS) Known	LCS Measured	Accuracy %
pH			
Total Chlorine			

ZDHC Wastewater Sample Collection Field Test Measurements									
Sampling Time (Hours)	0	1	2	3	4	5	6	Average (Report with lab data)	
Recording time	ID								
	Time	<u>11:20</u>							
Temp (°C)	Wastewater Discharge	<u>40.1</u>							
	Receiving Water								
pH	<u>8.0</u>								
Dissolved Oxygen (mg/L)	<u>-</u>								
Total Chlorine (mg/L)	<u>-</u>								
Persistent Foam (Yes/ No)	<u>NO</u>								
Wastewater Flow meter (L/min)	<u>29.6</u>								
Alternate measured Flow	Depth (cm)								
	Velocity (cm/sec)								
Color (visual estimation):	<u>Reddish.</u>								
Volume collected, mL	<u>10 x 1000</u>								

Total volume collected _____ | **15 (50 ml)** Remark: Total volume collected must be greater than total of sample size required

BUREAU VERITAS

Test Report: (6823)012-0361

Report Date: January 29, 2023

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

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

CPSD-AN-00613-DATA 04

Issue Date: _____

Version No.: 18

Business Line: Analytical

Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method (Store sample at 2-8°C)		
Combined test or Individual test (Remark 4)	1. Phthalate	✓	Amber Glass, washed with nitric acid,	Without adding acid		
	2. Chlorobenzenes, Chlorotoluene & PAH	✓				
	3. SCCPs	✓				
	4. APS	✓				
5. APEOs	✓	100 mL				
6. Chlorophenols & Cresols	✓	100 mL				
7. Flame retardant	✓	500 mL				
8. Dyes	✓	10 mL				
9. Glycol	✓	50 mL				
10. *Pesticides	X	1000 mL				
11. *Nitrosamine	X	10 mL				
12. Banned Azodyes	✓	2000 mL				
13. *Free primary aromatic amines	X	500 mL				
14. Organotin Compounds	✓	500 mL				
15. UV absorbers	✓	100				
16. BPA	✓	2				
17. Preservatives	✓	52				
18. VOC & Halogenated Solvents (Remark 6)	✓	10 mL			PE, washed with pesticide grade Acetone	Fill to full container without air gap; acidify to pH 2 with HCl
19. PFCs (Remark 6)	✓	2 mL			PE, washed with pesticide grade Acetone	Without adding acid


Tests (Conventional Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method (Store sample at 2-8°C)
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
	21. Total dissolved solids (TDS)			
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 ₃
25. Cyanide		500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% Na ₂ S ₂ O ₃
26. Cr(VI)		95 mL		Filter by 0.45µm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer
27. Chemical oxygen demand (COD)		150 mL		
28. Phenols		500 mL	Amber Glass; washed with nitric acid	Acidify to pH 2 with H ₂ SO ₄
29. Oil and Grease & Total Hydrocarbon		1000 mL		
30. *Formaldehyde		25 mL		Fill to full container without air gap; acidify to pH 2 with H ₂ SO ₄
31. Sulfide (Remark 5)		50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH
32. E. coli (Remark 6)		125 mL	PE, clean, sterile, non-reactive	Add 0.1 ml of 10% Na ₂ S ₂ O ₃ , keep in dark
33. Sulfite		100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA
34. Total-N		100 mL		
35. Ammonium-N		500 mL		Acidify to pH 2 with H ₂ SO ₄
36. Adsorbable organically bound halogens (AOX)		100 mL		Acidify to pH 2 with HNO ₃
37. Acute aquatic toxicity: Luminus Bacteria; Fish Egg; Daphne; Algae;		1000 mL	Amber Glass; washed with nitric acid;	
38. Sulphate		100 mL		Without adding acid



Test Report: (6823)012-0361

Report Date: January 29, 2023

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

		FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)		CPSD-AN-00613-DATA 04	
				Issue Date:	
39 Chloride		100 mL			
40 Others:					
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 could be adjusted upon request.
3. Scope of ZDHC guideline: Parameter 1-9, 12, 14-29, 31-36, 38, 39.
 Scope of synthetic leather industry: Parameter 1-9, 12, 14-24, 26-29, 31, 32, 34, 35, 38, 39.
 Scope of MMCF: Parameter 5, 18, 20, 22-24, 26-29, 31, 34-37.
 Free 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-G00019-STIP01, locations with those CPSD test capability inside TCD matrix can perform the combined test.
5. Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.
6. Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by:

Full name: Md. Asad Hosen

Date: 12.07.23

Comment from factory

Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in designated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintained in 1-5°C

Signatory of Factory Representative:

Full Name: _____

Date: _____



Test Report: (6823)012-0361

Report Date: January 29, 2023

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

	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04
		Issue Date:
		Version No.: 18
		Business Line: Analytical

General Data

Laboratory Sample Number: (6823)012-0361

Client Name: _____

Field Contact Person: Mr. Aung Phone No: 01819-988 256

Project (Facility Name and Address): Eos Textile Ltd. (Plot: 1-B; 17-22 (New Extension), Savar Dhaka.

Sample Identification: Zero discharge with sampling plan

Sample Type: Composite Sample / Grab Sample (Please delete as appropriate)

Discharge mode: Direct discharge to environment (Specify destination: River, Sea, Stream...) OR indirect discharge to sewage treatment plant

Date of collection: 12.01.23 BAPZA Drawn.

Factory Type: Dyeing / Printing / Washing / Finishing / Others (please specify):

*Note: It would be selected more than one

Sampling Collection Information

Sampling Location / Description: ET.P = Outlet

Sampling Device Description/ Owner: _____

Sampling mode: Autosampler/ Manual

Sampler Information

Sampler Name/ Email: Md. Asad Hossain.

Sampler ZDHC Accredited no.: CX4D106817-446

ZDHC Composite Sample Code: _____

Field Data for Wastewater

Arrival Time:	<u>10:40</u>	Departure Time:	
Field Parameters	pH: <u>7.8</u>	Temp: <u>30.9</u> °C	Color: <u>Purple</u>
Control No. of field equipment			
Factory with effluent treatment plant:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample matrix:	<input type="checkbox"/>	Incoming water (If required)	
	<input type="checkbox"/>	Wastewater before treatment	
	<input checked="" type="checkbox"/>	Wastewater after treatment – water at discharge point	
Sampler container number	<u>12</u>		

ZDHC Wastewater Flow Device Dimensions				
Measurement (cm)	Meter	Pipe (O)	Flume (U)	Wier (V)
Diameter	NA			
Depth	NA	NA	NA	

ZDHC Wastewater Sampling Field Testing QA/QC			
Parameter	Laboratory control sample (LCS) Known	LCS Measured	Accuracy %
pH			
Total Chlorine			

ZDHC Wastewater Sample Collection Field Test Measurements								
Sampling Time (Hours)	0	1	2	3	4	5	6	Average (Report with lab data)
Recording time	ID							
	Time	<u>11:50</u>						
Temp (°C)	Wastewater Discharge	<u>30.9</u>						
	Receiving Water	<u>29.0-29.0</u>						
pH:	<u>7.8</u>							
Dissolved Oxygen (mg/L):	<u>6.9</u>							
Total Chlorine (mg/L):	<u>0.2</u>							
Persistent Foam (Yes/No):	<u>NO</u>							
Wastewater Flow meter (L/min):	<u>23</u>							
Alternate measured Flow	Depth (cm)							
	Velocity (cm/sec)							
Color (visual estimation):	<u>Purple</u>							
Volume collected, mL	<u>12 x 1850</u>							
Total volume collected	<u>12,600 ml</u>							Remark: Total volume collected must be greater than total of sample size required



Test Report: (6823)012-0361

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

	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: small;">CPSD-AN-00613-DATA 04</td> </tr> <tr> <td style="font-size: x-small;">Issue Date:</td> </tr> <tr> <td style="font-size: x-small;">Version No.: 18</td> </tr> <tr> <td style="font-size: x-small;">Business Line: Analytical</td> </tr> </table>	CPSD-AN-00613-DATA 04	Issue Date:	Version No.: 18	Business Line: Analytical
CPSD-AN-00613-DATA 04						
Issue Date:						
Version No.: 18						
Business Line: Analytical						

Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method (Store sample at 2-8°C)		
Combined test or Individual test (Remark 4)	1. Phthalate	1000 mL total or 1000 mL each	Amber Glass, washed with nitric acid.	Without adding acid		
	2. Chlorobenzenes, Chlorotoluene & PAH					
	3. SCCPs					
	4. APS					
5. APEOs		100 mL				
6. Chlorophenols & Cresols		100 mL				
7. Flame retardant		500 mL				
8. Dyes		10 mL				
9. Glycol		50 mL				
10. *Pesticides		1000 mL				
11. *Nitrosamine		10 mL				
12. Banned Azodyes		2000 mL				
13. *Free primary aromatic amines		500 mL				
14. Organotin Compounds		500 mL				
15. UV absorbers		100				
16. BPA		2				
17. Preservatives		52				
18. VOC & Halogenated Solvents (Remark 6)		10 mL				Fill to full container without air gap; acidify to pH 2 with HCl
19. PFCs (Remark 6)		2 mL			PE, washed with pesticide grade Acetone	Without adding acid


Tests (Conventional Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method (Store sample at 2-8°C)		
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		
	21. Total dissolved solids (TDS)					
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 ₃		
25. Cyanide	✓	500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% Na ₂ S ₂ O ₃		
26. Cr(VI)	✓	95 mL	Amber Glass; washed with nitric acid	Filter by 0.45µm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer		
27. Chemical oxygen demand (COD)	✓	150 mL		Acidify to pH 2 with H ₂ SO ₄		
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 ₂ SO ₄		
30. *Formaldehyde	✗	25 mL				
31. Sulfide (Remark 5)	✓	50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 5M NaOH		
32. E.coli (Remark 6)	✓	125 mL	PE, clean, sterile, non-reactive	Add 0.1 ml of 10% Na ₂ S ₂ O ₃ , keep in dark		
33. Sulfite	✓	100 mL	Amber Glass, washed with pesticide grade acetone	Add 1 mL of 2.5% EDTA		
34. Total-N	✓	100 mL	Amber Glass; washed with nitric acid;	Acidify to pH 2 with H ₂ SO ₄		
35. Ammonium-N	✓	500 mL		Acidify to pH 2 with HNO ₃		
36. Adsorbable organically bound halogens (AOX)	✓	100 mL				
37. Acute aquatic toxicity: Luminus Bacteria, Fish Egg; Daphne; Alage;	✗	1000 mL				
38. Sulphate	✓	100 mL		Without adding acid		



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

		FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)		CPSD-AN-00613-DATA 04 Issue Date: _____ Version No.: 18 Business Line: Analytical	
39. Chloride	✓	100 mL			
40. Others:	✗				
Observation/ Remark:					

***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: Parameter 1-9, 12, 14-29, 31-36, 38, 39
 Scope of synthetic leather industry: Parameter 1-9, 12, 14-24, 26-29, 31, 32, 34, 35, 38, 39
 Scope of MMCF: Parameter 5, 16, 20, 22-24, 26-29, 31, 34-37
 Free primary aromatic amine, pesticides, nitrosamine and formaldehyde are not in the scope of ZDHC Guideline, they are tested upon request.
- Refer to CPSD-AN-G00019-STIP01, locations with those CPSD test capability inside TCD matrix can perform the combined test.
- Refer to CPSD-AN-000570-MTHD for additional pretreatment 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:


 Full name: Md. Asad Hosain.

Date: 12.01.2023

Comment from factory

Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in designated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintained in 1-6°C

Signatory of Factory Representative:

Arum ch; Sarkar
 Full Name:

Date: 12.01.23



Test Report: (6823)012-0361



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

FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2">CPSD-AN-00613-DATA 04</td> </tr> <tr> <td>Issue Date:</td> <td></td> </tr> <tr> <td>Version No.:</td> <td>18</td> </tr> <tr> <td>Business Line:</td> <td>Analytical</td> </tr> </table>	CPSD-AN-00613-DATA 04		Issue Date:		Version No.:	18	Business Line:	Analytical
CPSD-AN-00613-DATA 04									
Issue Date:									
Version No.:	18								
Business Line:	Analytical								

Field Data for Sludge							
Arrival Time:	10:40			Departure Time:	12:50		
Field Parameters	pH:	Temp:	°C		Flow rate (volume/time) / sludge flux (weight/time):		
Control No. of field equipment							
Sampling Time (Hours)							
	0	1	2	3	4	5	6
Recording time	ID						Average (Report with lab data)
	Time						
pH:							
Temp (°C):							
Flow rate (volume/time) / sludge flux (weight/time)							
Volume collected, mL							
Total volume collected							
Remark: Total volume collected must be greater than total of sample size required							

Blank - Mud.

Analysis Required and Preservation Method					
Factory with effluent treatment plant		Yes		No	
Sample matrix	<input checked="" type="checkbox"/>	Sludge in clarifier (sedimentation tank)			
Sampler container number	3kg				
Recording time	11:30				
Tests (MRSL Parameter)	Test required (g)	Total of sample size	Type of container	Preservation method (Store sample at 2-8°C)	
Combined test or Individual test (Remark 3)	1. Phthalate	<input checked="" type="checkbox"/>	10g total or 10g each	Amber Glass, washed with nitric acid	Add 0.2 mL of 10% Na ₂ S ₂ O ₃ (0.008% V/W)
	2. Chlorobenzenes, Chlorotoluene & PAHs	<input checked="" type="checkbox"/>			
	3. SCCPs	<input checked="" type="checkbox"/>			
	4. APS	<input checked="" type="checkbox"/>			
5. APEOs	<input checked="" type="checkbox"/>	20 g			
6. Flame retardant	<input type="checkbox"/>	10 g			
7. Dyes	<input type="checkbox"/>	10 g			
8. Glycols	<input type="checkbox"/>	100 g			
9. *Pesticides	<input type="checkbox"/>	20g			
10. Banned Azodyes	<input type="checkbox"/>	20 g			
11. *Free primary aromatic amines	<input type="checkbox"/>	10 g			
12. Chlorophenols & Cresols	<input type="checkbox"/>	20 g	Acidify to -pH 2 with H ₂ SO ₄ . Add 0.02 mL of 10% Na ₂ S ₂ O ₃ (0.008% WV)		
13. Organotin Compounds	<input type="checkbox"/>	10 g	Fill to full container without any air gap and acid add		
14. VOC & Halogenated Solvents (Remark 5)	<input type="checkbox"/>	10 g	Fill to full bottle without any air gap. Acidify to -pH 2 with HCl		
15. PFCS (Remark 5)	<input type="checkbox"/>	10 g	PE, wash with pesticide grade acetone		

Tests (Conventional Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method (Store sample at 2-8°C)
16. Heavy Metals except Cr(VI) (Remark 5)	<input checked="" type="checkbox"/>	0.2 g	PE, wash with nitric acid	Acidify to -pH 2 with HNO ₃
17. Cr(VI)	<input checked="" type="checkbox"/>	2.5 g	Amber Glass, wash with nitric acid	Fill to full container without any air gap and acid add
18. Adsorbable organically bound halogens (AOX)	<input checked="" type="checkbox"/>	1 g		
19. Extractable organochlorides (EOX)	<input checked="" type="checkbox"/>	20 g		
20. Total organic carbon (TOC)	<input checked="" type="checkbox"/>	20 g		
21. Cyanide	<input checked="" type="checkbox"/>	50 g	Amber Glass, wash with pesticide grade acetone	Adjust pH to 12-13 with 50% NaOH
22. Faecal Coliform	<input checked="" type="checkbox"/>	20 g	PE, clean, sterile, non-reactive	Add 0.1 ml of 10% Na ₂ S ₂ O ₃ keep in dark




Test Report: (6823)012-0361



Report Date: January 29, 2023

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

			FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)		CPSD-AN-00613-DATA 04 Issue Date: _____ Version No.: 18 Business Line: Analytical
23. % Solids	✓	20 g	Amber Glass, wash with nitric acid	Acidify to -pH 2 with HNO ₃	
24. Paint Filter Test	✓	20 g			
25. Others	✗				
Observation/ Remark:					

***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: Parameter 1, 2, 4, 5, 16-17, 21-24
 Scope of synthetic leather industry: Parameter 1-8, 10, 12-17
 Scope of MMCF: Parameter 16, 18-20
 Free primary aromatic amine and pesticides are not in the scope of ZDHC Guideline, they are tested upon request.
- Refer to CPSD-AN-G00019-STIP01, locations with those CPSD test capability inside TCD matrix can perform the combined test.
- Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

ZDHC Wastewater Sampling - Facility Confirmation

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

Facility Name: _____	Sampler's Name: <u>Md. Asad Hossain</u>
Facility Representative Name: _____	Sampler's ZDHC Accreditation: <u>CZ9D106917496</u>
Facility Representative Signature and stamp: _____	Sampler's Signature: <u>Asad Hossain</u>



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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	
1A) AP and APEOs: including all isomers						
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			
1B) Anti-Microbials & Biocides						
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		
1C) Chlorinated Paraffins						
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		
1D) Chlorobenzenes and Chlorotoluenes						
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-, penta-, and hexa-chlorobenzene			Multiple			
Other isomers of mono-, di-, tri-, tetra-, and penta- chlorotoluene		mg/kg				
1E) Chlorophenols						
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					
1F) Dimethyl Formamide (DMFa)						
Dimethyl formamide; N,N-dimethylformamide (DMFa) ^a	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	
1G) Dyes - Carcinogenic or Equivalent Concern						
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			
1H) Dyes - Disperse (Allergenic)						
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			
			56524-77-7			
Disperse Blue 7			3179-90-6			
Disperse Brown 1			23355-64-8			
Disperse Orange 1			2581-69-3			
Disperse Orange 3			730-40-5			
Disperse Orange 37/59/76			13301-61-6			
Disperse Red 1			2872-52-8			
Disperse Red 11			2872-48-2			
Disperse Red 17			3179-89-3			
Disperse Yellow 1			119-15-3			
Disperse Yellow 3			2832-40-8			
Disperse Yellow 39			12236-29-2			
Disperse Yellow 49			54824-37-2			
Disperse Yellow 9			6373-73-5			
1I) Dyes - Navy Blue Colourant						
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	
1J) Flame Retardants						
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)			3296-90-0			
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-chloro-1-methylethyl)phosphate (TCPP)			13674-84-5			
Tris(1-aziridinyl)phosphine oxide (TEPA)			545-55-1			
Tris(1,3-dichloroisopropyl)phosphate (TDCP)			13674-87-8			
Tris(2-chloroethyl)phosphate (TCEP)			115-96-8	25		USEPA 8270E, ISO 22032, USEPA 527 and USEPA 8321B Dichloromethane extraction GC-MS or LC-MS(-MS)
Tris(2,3,-dibromopropyl)-phosphate (TRIS)			126-72-7			
Decabromobiphenyl (DecaBB)	µg/L	-	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 ^b			10043-35-3, 11113-50-1			
Diboron trioxide ^b			1303-86-2			
Disodium octaborate ^b			12008-41-2			
Disodium tetraborate anhydrous ^b			1303-96-4, 1330-43-4	100		Determined as total boron via ICP
Tetraboron disodium heptaoxide, hydrate ^b			12267-73-1			

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	
1K) Glycols / Glycol Ethers						
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			
1L) Halogenated Solvents						
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			
1M) Organotin Compounds						
Dipropyltin compounds (DPT)	µg/L	-	Multiple	0.01	-	ISO 17353 Derivatisation with NaB (C2H5)4 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						
Tetrabutyltin compounds (TeBT)						
Tripropyltin Compounds (TPT)						
Tetraoctyltin compounds (TeOT)						
Tricyclohexyltin (TCyHT)						
Tetraethyltin Compounds (TeET)						
1N) Other/Miscellaneous Chemicals						
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		Liquid extraction, LC-MS
Quinoline			91-22-5	50		
Borate, zinc salt ^c			12767-90-7	100		Determine as total boron and total zinc via ICP
Silica (Used in sand blasting) ^d			14464-46-1	NA		Not a ZDHC Wastewater parameter
1O) Perfluorinated and Polyfluorinated Chemicals (PFCs)						
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		

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	
1P) Phthalates - including all other esters of ortho-phthalic acid						
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			
1Q) Polycyclic Aromatic Hydrocarbons (PAHs)						
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			



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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	
1R) Restricted Aromatic Amines (Cleavable from Azo-colourants)						
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-xylydine			95-68-1			
2,4,5-trimethylaniline			137-17-7			
2,4,5-trimethylaniline hydrochloride			21436-97-5			
2,6-xylydine			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; 2,4-diaminoanisole sulphate			39156-41-7			
4-methoxy-m-phenylenediamine			615-05-4			
4-methyl-m-phenylenediamine			95-80-7			
4,4-methylene-bis-(2-chloro-aniline)			101-14-4			
4,4-methylenedi-o-toluidine			838-88-0			
4,4-methylenedianiline			101-77-9			
4,4-oxydianiline			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			
1S) UV Absorbers						
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			
1T) Volatile Organic Compounds (VOC)						
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 of VOC in wastewater
m-cresol			108-39-4			
o-cresol			95-48-7			
p-cresol			106-44-5			
Xylene			1330-20-7			
Toluene ^a			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	Leachate	
Heavy Metals							
Antimony	mg/L	mg/kg	7440-36-0	0.01	5	0.01	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	0.001	
Barium			7440-39-3	1	200	1	
Selenium			7782-49-2	1	5	1	
Tin			7440-31-5	1	-	1	
Arsenic			7440-38-2	0.005	5	0.005	
Total Chromium			7440-47-3	0.05	50	0.05	
Cobalt			7440-48-4	0.01	400	0.01	
Cadmium			7440-43-9	0.01	1	0.01	
Copper			7440-50-8	0.25	50	0.25	
Lead			7439-92-1	0.01	5	0.01	
Nickel			7440-02-0	0.05	20	0.05	
Silver			7440-22-4	0.005	50	0.005	
Zinc			7440-66-6	0.5	400	0.5	
Mercury			7439-97-6	0.001	1	0.001	
Conventional							
pH	pH	pH		6 - 9			EPA 150.2, APHA 4500- H+ For Water & EPA SW 9045D For Sludge
Temperature difference	°C			-			Measurement by thermometer
E.coli	MPN/100-ml			126			ISO 9308-1
Colour	m ⁻¹			2;1;1			ISO 7887: 2011(E), B
Persistent Foam	-			-			Visual
Wastewater Flowrate	m ³ /day			-			-
Ammonium-Nitrogen	mg/L			0.5			Reference to APHA 4500-NH3 - N
AOX	mg/L			0.1			Reference to ISO 9562
Biochemical Oxygen Demand 5-days concentration (BOD ₅)	mg/L			8			Reference to APHA 5210B (5 days)
Chemical Oxygen Demand (COD)	mg/L			40	-	-	Reference to APHA 5220 D
Dissolved Oxygen (DO)	mg/L			-			Hach manual for LDO & In-house
Oil & Grease	mg/L			0.5			Reference to EPA 1664
Total Phenols / Phenol Index	mg/L			0.001			Reference to APHA 5530 C
Total Chlorine	mg/L			0.1			APHA 4500-Cl G
Total Dissolved Solids (TDS)	mg/L			5			APHA 22nd Edition-2540C
Total Nitrogen	mg/L			5			Reference to APHA 4500- N-C
Total Phosphorus	mg/L			0.1			Reference to APHA 4500-P-J
Total Suspended Solids (TSS)	mg/L			5			APHA 2540D, GB 11901, ISO 11923
% Solids	-	%			-		USEPA 160.3
Paint Filter Test	-	-			-	-	EPA 9095B
Fecal Coliform	-	MPN/gm			-	-	APHA 22 nd Ed. Part 9221 B



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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	Leachate	
Anions							
Chloride	mg/L	-	-	-	-	-	APHA 4500-CI B
Cyanide, total		mg/kg		0.05	20	-	APHA 22nd Edition-4500-CN. C&E (2012), EPA 9010C, 9013 & 9014
Sulfate		-		-	-	-	APHA- SO4-2
Sulfide		-		0.01	-	-	Reference to APHA 4500-S2-D
Sulfite		-		0.2	-	-	Reference to EPA 377.1

Remark: The report [(6823)012-0361] is sub-contracted to India (Testtex India Laboratories Pvt. Ltd.) for E. coli, Fecal Coliform, Sulfate, Anti- Microbials & Biocides, UV Absorbers & Other/Miscellaneous Chemicals Tests.

END OF REPORT