

SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)

Number: BGD23009136

Report Date: 29 / 01 / 2023

Factory's name : SISTER DENIM COMPOSITE LIMITED
 Factory's address : KARARDI, SHIBPUR, NARSINGDI, BANGLADESH
 Type of wastewater discharge: Direct discharge
 On-site Wastewater treatment plant: With wastewater treatment plant
 Average total industrial wastewater generated: ≥ 15m³/day

Date of sampling : 19 / 01 / 2023
 Date of sample arrived laboratory: 19 / 01 / 2023
 Date of testing: 19 / 01 / 2023

Sample type:
 Sample / Untreated wastewater [Blue, composite sample at 10:00; 11:00; 12:00; 13:00; 14:00; 15:00]
 [Sampling location: N 23.95813, E 90.72002]
 Sample / Effluent [Light Brown, composite sample at 10:30; 11:30; 12:30; 13:30; 14:30; 15:30]
 [Sampling location: N 23.95756, E 90.72110]
 Sample / Sludge [Grey, composite sample at 15:15]
 [Sampling location: N 23.95756, E 90.72135]

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

ZDHC sampler accreditation certification number: C74D106817340

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

Summary of test results:

| Wastewater / MRSL – Test items | Untreated Wastewater |
|--|----------------------|
| Alkylphenol ethoxylates / Alkylphenols (APEOs/APs) | ND |
| Anti-Microbials & Biocides | ND |
| Chlorinated Parafins | ND |
| Chlorobenzenes and Chlorotoluenes | ND |
| Chlorophenols | ND |
| Dimethyl Formamide (DMFa) (*) | ND |
| Dyes – Carcinogenic or Equivalent Concern | ND |
| Dyes – Disperse (Allergenic) | ND |
| Dyes – Navy Blue Colourant | ND |
| Flame Retardants | ND |
| Glycols / Glycol Ethers | ND |
| Halogenated solvents | ND |
| Organotin compounds | ND |

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| | |
|---|----|
| Other/Miscellaneous Chemicals | ND |
| Perfluorinated & Polyfluorinated chemicals (PFCs) | ND |
| Phthalates (Ortho-phthalates) | ND |
| Polycyclic aromatic hydrocarbons (PAHs) | ND |
| Restricted Aromatic Amines (Cleavable from Azo- colourants) | ND |
| UV Absorbers | ND |
| Volatile Organic Compounds (VOC) | ND |

| Wastewater / Heavy metals - Test items | Effluent | | |
|--|-------------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Antimony | | | Meet |
| Chromium (VI) | | | Meet |
| Barium | Report only, refer data | | |
| Selenium | Report only, refer data | | |
| Tin | Report only, refer data | | |
| Arsenic | | | Meet |
| Chromium (total) | | | Meet |
| Cobalt | | | Meet |
| Cadmium | | | Meet |
| Copper | | | Meet |
| Lead | | | Meet |
| Nickel | | | Meet |
| Silver | | | Meet |
| Zinc | | | Meet |
| Mercury | | | Meet |

| Wastewater / Conventional parameters - Test items | Effluent | | |
|---|-------------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| pH ^[f] | Meet | | |
| Temperature difference ^[f] | | | Meet |
| E.coli | Meet | | |
| Colour | | Meet | |
| Persistent foam ^[f] | Meet | | |
| Wastewater flowrate ^[f] | Report only, refer data | | |
| Ammonium-Nitrogen | Meet | | |
| AOX | | | Meet |
| Biochemical Oxygen Demand (BOD ₅) | | | Meet |
| Chemical Oxygen Demand (COD) | | | Meet |
| Dissolved Oxygen (DO) ^[f] | Report only, refer data | | |
| Oil & Grease | | | Meet |
| Total Phenols / Phenol Index | Meet | | |
| Total Chlorine ^[f] | Report only, refer data | | |
| Total Dissolved Solids (TDS) | Report only, refer data | | |
| Total Nitrogen | | | Meet |
| Total Phosphorus | Meet | | |
| Total Suspended Solids (TSS) | | Meet | |

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| Wastewater / Anions - Test items | Effluent | | |
|----------------------------------|-------------------------|-------------|--------------|
| | Foundational | Progressive | Aspirational |
| Chloride | Report only, refer data | | |
| Cyanide, total | | | Meet |
| Sulfate | Report only, refer data | | |
| Sulfide | | | Meet |
| Sulfite | | | Meet |

| Sludge – Disposal Pathways |
|----------------------------|
| C |

| Sludge / Heavy Metals - Test items | Sludge (Total) | Sludge (Leachate) |
|------------------------------------|----------------|-------------------|
| Antimony | Meet | |
| Arsenic | Meet | |
| Barium | Meet | |
| Cadmium | Meet | |
| Cobalt | Meet | |
| Copper | Meet | |
| Lead | Meet | |
| Nickel | Meet | |
| Selenium | Meet | |
| Silver | Meet | |
| Chromium (total) | Meet | |
| Zinc | Meet | |
| Chromium VI | Meet | |
| Mercury | Meet | |

| Sludge / Anion - Test items | Sludge |
|-----------------------------|--------|
| Cyanide | Meet |

| Sludge / Conventional parameters - Test items | Sludge |
|---|-------------------------|
| pH | Meet |
| % Solids | Report only, refer data |
| Paint filter test | Report only, refer data |
| Faecal coliform | Report only, refer data |

| Sludge / MRSL - Test items | Sludge |
|---|-------------------------|
| Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers | Report only, refer data |
| Polycyclic Aromatic Hydrocarbons (PAHs) | Report only, refer data |
| Chlorotoluenes | Report only, refer data |

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| Note : | |
|---|---------------------|
| ND = Not detected (less than reporting limit) | |
| D = Detected | |
| N/A = Not applicable | - = Did not perform |
| # = No comment | * = See Remark |
| @ = Maximum holding time exceeded. | |
| (*) = Report for mock leather only. | |
| [f] = On-site test by sampler. | |

Remarks:

- Factory (Sister Denim Composite Limited, Thermax Yarn Dyed Fabrics Ltd., Thermax Woven Dyeing Ltd., Adury Knit Composite Ltd., Adury Apparels Ltd., Thermax Color Cotton Ltd., Thermax Yarn Dyeing Ltd., and Adury Fashion & Print Ltd.) uses shared ETP which is owned and operated by same group of company.
- Effluent & Sludge collected from shared ETP.
- Untreated Wastewater collected from two separate raw wastewater discharge points of Sister Denim Composite Limited only.
- This sampling is agreed with client.

Authorized By
For ITS Labtest Bangladesh Ltd.



Mohammad Neyamul Hasan
Country Business Line Leader, Softlines

ITS Labtest Bangladesh Ltd.

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Sample / Wastewater

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

NP/OP: With reference to ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 with GC-MS or LC-MS-MS analysis.

OPEO/NPEO (n>2): With reference to ASTM D7742 or ISO 18857-2

| Chemical substances | CAS no. | 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 |

Remark: ND = Not detected (less than reporting limit)

2. Anti- Microbials & Biocides

OPP, Triclosan: With reference to USEPA 8270E Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS analysis; with reference to BS EN 12673-1999 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 14154:2005 without derivatization and determination by LC-MS or LC-MS-MS analysis.

| Chemical substances | CAS no. | 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 |

Remark: ND = Not detected (less than reporting limit)

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3. Chlorinated Parafins

For MCCP: With reference to EPA 3510, analysis by ISO18219-2:2021 with GC-MS-NCI or LC-MS-MS analysis.

For SCCP: With reference to EPA 3510, analysis by ISO18219-1:2021, ISO 12010:2019 with GC-MS-NCI or LC-MS-MS analysis.

| Chemical substances | CAS no. | 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 |

Remark: ND = Not detected (less than reporting limit)

4. Chlorobenzenes and Chlorotoluenes

With reference to USEPA 8260D, USEPA 8270E, Purge and Trap, Head Space, Dichloromethane extraction followed by GC-MS analysis.

| Chemical substances | CAS no. | 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 |

Remark: ND = Not detected (less than reporting limit)

5. Chlorophenols

With reference to US EPA 8270E solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS; with reference to BS EN 12673-1999 solvent extraction and derivatization are included.

| Chemical substances | CAS no. | 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 |

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| | | | | |
|---------------------------|-----------|-----|----|------|
| 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 |
| 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 |

Remark: ND = Not detected (less than reporting limit)

6. Dimethyl Formamide (DMFa)

With reference to EPA 8015, EPA 8270E.

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

Remark: ND = Not detected (less than reporting limit)

(*) Report for mock leather only.

7. Dyes – Carcinogenic or Equivalent Concern

By Liquid extraction, LC-MS analysis.

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

Remark: ND = Not detected (less than reporting limit)

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8. Dyes – Disperse (Allergenic)

By Liquid extraction, LC-MS analysis.

| Chemical substances | CAS no. | 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 |

Remark: ND = Not detected (less than reporting limit)

9. Dyes – Navy Blue Colourant

By Liquid extraction, LC-MS analysis.

| Chemical substances | CAS no. | 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 |

Remark: ND = Not detected (less than reporting limit)

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10. Flame retardants

Other flame retardant substances: With reference to USEPA 8270E, ISO 22032, USEPA 527 and USEPA 8321B, Dichloromethane extraction GC-MS or LC-MS-MS analysis.

Borate salt: determined as total boron via ICP analysis.

| Chemical substances | CAS no. | 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 ether (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 |

Remark: ND = Not detected (less than reporting limit)

ITS Labtest Bangladesh Ltd.

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11. Glycols / Glycol Ethers

With reference to US EPA 8270E, Liquid extraction, LC-MS or GC-MS analysis.

| Chemical substances | CAS no. | 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 |

Remark: ND = Not detected (less than reporting limit)

12. Halogenated solvents

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

| Chemical substances | CAS no. | 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 |

Remark: ND = Not detected (less than reporting limit)

13. Organotin compounds

With reference to ISO 17353, Derivatisation with NaB (C₂H₅)₄, with GC-MS analysis.

| Chemical substances | CAS no. | 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 |

Remark: ND = Not detected (less than reporting limit)

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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. | 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 | ND | µg/L |

Remark: ND = Not detected (less than reporting limit)

15. Perfluorinated & polyfluorinated chemicals (PFCs)

PFCs: With reference to EPA 537:2020 with LC-MSMS
FTOH: With reference to BS EN 12673-1999, EPA 8270, GC-MS, Derivatization with acetic anhydride followed by GC-MS

| Chemical substances | CAS no. | Reporting limit (µg/L) | Untreated wastewater | Unit |
|--|----------|------------------------|----------------------|------|
| Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA) | Multiple | 0.01 | ND | µg/L |
| Perfluorooctanoic acid (PFOA) related substances | Multiple | 1 | ND | µg/L |

Remark: ND = Not detected (less than reporting limit)

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

With reference to USEPA 8270E, ISO 18856, Dichloromethane extraction GC-MS analysis.

| Chemical substances | CAS no. | Reporting limit (µg/L) | Untreated wastewater | Unit |
|---|------------|------------------------|----------------------|------|
| 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) | 71888-89-6 | 10 | ND | µg/L |
| 1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4 | 10 | ND | µg/L |
| Bis(2-methoxyethyl) phthalate (DMEP) | 117-82-8 | 10 | ND | µg/L |
| Butyl benzyl phthalate (BBP) | 85-68-7 | 10 | ND | µg/L |
| Di-cyclohexyl phthalate (DCHP) | 84-61-7 | 10 | ND | µg/L |
| Di-iso-decyl phthalate (DIDP) | 26761-40-0 | 10 | ND | µg/L |
| Di-iso-octyl phthalate (DIOP) | 27554-26-3 | 10 | ND | µg/L |

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| | | | | |
|---------------------------------|------------|----|----|------|
| 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 |

Remark: ND = Not detected (less than reporting limit)

17. Polycyclic aromatic hydrocarbons (PAHs)

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

| Chemical substances | CAS no. | 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 |

Remark: ND = Not detected (less than reporting limit)

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

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

| Chemical substances | CAS no. | 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 |

Remark: ND = Not detected (less than reporting limit)

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

Remark: ND = Not detected (less than reporting limit)

20. Volatile organic compounds (VOCs)

With reference to ISO 11423-1 Headspace or Purge and trap, GC-MS analysis.
 USEPA 8260D, add ISO 20595 static headspace for determination of VOC in wastewater

With reference to ISO 11423-1 Headspace or Purge and trap, GC-MS analysis.
 EPA 8270, BS EN 12673-1999.

With reference to HJ 1067 or EPA 8260D or ISO 11423-1.

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

Remark: ND = Not detected (less than reporting limit)

(*) Report for mock leather only.

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21. Heavy metals

With reference to ISO 17294, ISO 18412, US EPA 200.8, USEPA 6010C, USEPA 6020A, USEPA 218.6, USEPA 200.8-SIM USEPA 6020A-SIM, USEPA 245.1, USEPA 245.7, HJ 700, GB 7467, GB 7475, GB 11912. GB 11907, GB 7472, HJ 597, HJ 694, IS 3025 (Part 65), IS 3025 (Part 52), IS 3025 (Part 41), IS 3025 (Part 42), IS 3025 (Part 47), IS 3025 (Part 54), IS 3025 (Part 49), IS 3025 (Part 48 cold vapor), IS 3025 (Part 65-SI).

| Chemical substances | Limit | | | Reporting limit (mg/L) | Effluent | Unit |
|---------------------|------------------------|-------------|--------------|------------------------|----------|------|
| | Foundational | Progressive | Aspirational | | | |
| Antimony | 0.1 mg/L | 0.05 mg/L | 0.01 mg/L | 0.01 | ND | mg/L |
| Chromium (VI) | 0.05 mg/L | 0.005 mg/L | 0.001 mg/L | 0.001 | ND | mg/L |
| Barium | Sample and report only | | | 0.01 | ND | mg/L |
| Selenium | Sample and report only | | | 0.01 | ND | mg/L |
| Tin | Sample and report only | | | 0.01 | ND | mg/L |
| Arsenic | 0.05 mg/L | 0.01 mg/L | 0.005 mg/L | 0.005 | ND | mg/L |
| Chromium (total) | 0.2 mg/L | 0.1 mg/L | 0.05 mg/L | 0.05 | ND | mg/L |
| Cobalt | 0.05 mg/L | 0.02 mg/L | 0.01 mg/L | 0.01 | ND | mg/L |
| Cadmium | 0.1 mg/L | 0.05 mg/L | 0.01 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 | 0.01 | ND | mg/L |
| Nickel | 0.2 mg/L | 0.1 mg/L | 0.05 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 |

Remark: ND = Not detected (less than reporting limit)

22. Conventional parameters

| Parameters | Test method | Limit | | | Reporting limit | Effluent | Unit |
|---------------------------------|--|--------------------------|--------------------------|--------------------------|-----------------|---------------|--------------------|
| | | Foundational | Progressive | Aspirational | | | |
| pH | ISO 10523 / USEPA 150.1 / SM 4500-H+ / HJ 1147 / IS 3025 (Part 11) Electrometric method only | 6-9 | | | N/A | 7.9 | [f] |
| Temperature difference | DIN 38 404-4 / USEPA 170.1 / SM 2550 / GB/T 13195 / IS 3025 (Part 9) | △+15 °C | △+10 °C | △+5 °C | N/A | △+4 | [f] °C |
| E.coli | SM 9221B presumptive, confirm positive with SM9221 F or G | 126 MPN/100-ml | | | 1.8 MPN/100-ml | 17 | 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 | 3.3; 2.6; 1.3 | [m ⁻¹] |

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| | | | | | | | |
|---|--|---|-----------|------------|------------|--------|-------------------------|
| Persistent Foam | / | No indication of Persistent foam in receiving water | | | N/A | Absent | [f] |
| Wastewater Flowrate | / | N/A | | | N/A | 6019 | [f] m ³ /day |
| Ammonium-Nitrogen | ISO 11732 / ISO 7150 / USEPA 350.1 / USEPA 350.3 / SM 4500 NH3 - D, E, F, G, or H / HJ 535 / IS 3025 (Part 34) | 10 mg/L | 1 mg/L | 0.5 mg/L | 0.5 mg/L | 1.5 | mg/L |
| AOX | ISO 9562 / HACH LCK 390 Merck 1.00675.0001 / HJ/T 83 | 3 mg/L | 0.5 mg/L | 0.1 mg/L | 0.1 mg/L | ND | mg/L |
| Biochemical Oxygen Demand (BOD ₅) | ISO 5815-1 / USEPA 405.1 / SM 5210-B / HJ 505 / IS 3035 (Part 44) | 30 mg/L | 15 mg/L | 8 mg/L | 8 mg/L | ND | mg/L |
| Chemical Oxygen Demand (COD) | ISO 6060 / ISO 15705 / USEPA 410.4 / SM 5220-D / HJ 828 / GB/T 11914 e / IS 3025 (Part 58) | 150 mg/L | 80 mg/L | 40 mg/L | 40 mg/L | ND | mg/L |
| Dissolved Oxygen (DO) | ISO 5814 / EPA 360.1 / SM 4500-O-G / HJ 506 | Sample and report only | | | N/A | 6.0 | [f] mg/L |
| Oil and grease | ISO 9377-2 / SM 5520-B/C / USEPA 1664 revision B / HJ 637 / IS 3025 (Part 39) | 10 mg/L | 2 mg/L | 0.5 mg/L | 0.5 mg/L | ND | mg/L |
| Total Phenols / Phenol Index | ISO 6439 / SM 5530-B/C / HJ 503 / IS 3025 (Part 43) | 0.5 mg/L | 0.01 mg/L | 0.001 mg/L | 0.001 mg/L | 0.038 | mg/L |
| Total Chlorine | ISO 7393-2 / USEPA 330.5 / SM4500-Cl-G / HJ 586 | Sample and report only | | | 0.2 mg/L | ND | [f] mg/L |
| Total Dissolved Solids (TDS) | SM 2540-C / USEPA 160.1 / GB/T 5750.4-2006 / IS 3025 (Part 16) | Sample and report only | | | 10 mg/L | 736 | mg/L |
| Total-Nitrogen | ISO 11905 - Part 1 / ISO 29441 / USEPA 351.2 / SM 4500P-J / SM 4500N-B / SM 4500N-C / HJ 636 / IS 3025 (Part 34) | 20 mg/L | 10 mg/L | 5 mg/L | 5 mg/L | ND | mg/L |
| Total-Phosphorus | ISO 17294 / ISO 11885 / ISO 6878 / USEPA 365.4 / SM 4500P-J / USEPA 200.7 / USEPA 200.8 / USEPA 6010C / USEPA 6020A / GB/T 11893 / IS 3025 (Part 31) / IS 3025 (Part 65) | 3 mg/L | 0.5 mg/L | 0.1 mg/L | 0.1 mg/L | 0.5 | mg/L |
| Total Suspended Solids (TSS) | ISO 11923 / USEPA 160.2 / SM 2540D / GB/T 11901 / IS3025 (Part 17) | 50 mg/L | 15 mg/L | 5 mg/L | 5 mg/L | 6 | mg/L |

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| | | | | | | | |
|----------------|--|------------------------|-----------|-----------|-----------|-----|------|
| Chloride | ISO 10304-1 / ISO 15923-1 / SM 4110-B / SM 4110-C / SM 4500-CI D or E / USEPA 300 / HJ 84-2016 / IS 3025 (Part 32) | Sample and report only | | | 10 mg/L | 351 | mg/L |
| Cyanide, total | ISO 6703 – 1, 2, 3 / ISO 14403 – 1, 2 / USEPA 335.2, APHA 4500-CN / HJ484 | 0.2 mg/L | 0.1 mg/L | 0.05 mg/L | 0.05 mg/L | ND | mg/L |
| Sulfate | ISO 10304-1 / ISO 15923-1 / SM 4500 SO ₄ , E, F, G / SM 4100 B, C / USEPA 300 / USEPA 9038 / HJ 84-2016 / IS 3025 (Part 24) | Sample and report only | | | 10 mg/L | 250 | mg/L |
| Sulfide | ISO 10530 / SM 4500-S2-D, E, G, or I / HJ 1226 / IS 3025 (Part 29) | 0.5 mg/L | 0.05 mg/L | 0.01 mg/L | 0.01 mg/L | ND | mg/L |
| Sulfite | ISO 10304-3 / SM 4500-SO ₃ 2-C / HJ 84-2016 | 2 mg/L | 0.5 mg/L | 0.2 mg/L | 0.2 mg/L | ND | mg/L |

Remark:

ND = Not detected (less than reporting limit)

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

@ = Maximum holding time exceeded.

^[f] = On-site test by sampler.

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Sample / Sludge

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

1. Heavy metals

Other heavy metals: With reference to acid/peroxide digestion EPA 3050, EPA 6010D or EPA 6020B, HJ 803 with ICP/OES, or ICP-MS analysis.

Chromium VI: With reference to alkaline digestion USEPA 3060a, USEPA 7196 or USEPA 7199, HJ 1082 with Colourimetric UV/VIS, or Colourimetric IC analysis.

Mercury: With reference to Dissolution, acid digestion USEPA 7473, USEPA 7471 b, or USEPA 3051a, USEPA 7471b, or USEPA 6020b, GB/T 22105.1, HJ 923 with CVAA or ICP MS analysis.

| Chemical substances | Reporting limit (Dry weight) (mg/kg) | Sludge (Dry weight) | Unit |
|---------------------|--------------------------------------|---------------------|-------|
| Antimony | 5 | ND | mg/kg |
| Arsenic | 5 | ND | mg/kg |
| Barium | 200 | ND | mg/kg |
| Cadmium | 1 | ND | mg/kg |
| Cobalt | 400 | ND | mg/kg |
| Copper | 50 | ND | mg/kg |
| Lead | 5 | ND | mg/kg |
| Nickel | 20 | ND | mg/kg |
| Selenium | 5 | ND | mg/kg |
| Silver | 50 | ND | mg/kg |
| Total Chromium | 50 | ND | mg/kg |
| Zinc | 400 | ND | mg/kg |
| Chromium (VI) | 20 | ND | mg/kg |
| Mercury | 1 | ND | mg/kg |

Remark: ND = Not detected (less than reporting limit)
 @ = Maximum holding time exceeded.

2. Anions

With reference to USEPA 9013, USEPA 9014, USEPA 9213, HJ745 with Colourimetry or ISE analysis.

| Chemical substances | Reporting limit (Dry weight) (mg/kg) | Sludge (Dry weight) | Unit |
|---------------------|--------------------------------------|---------------------|-------|
| Cyanide | 20 | ND | mg/kg |

Remark: ND = Not detected (less than reporting limit)
 @ = Maximum holding time exceeded.

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3. Conventional parameters

| Chemical substances | Test method | Reporting limit (Dry weight) | Sludge (Dry weight) | Unit |
|---------------------|----------------------------|------------------------------|---------------------|-------|
| pH | USEPA SW 9045D / HJ962 | N/A | 7.4 | N/A |
| % Solids | USEPA 160.3 / HJ613 | N/A | 84 | % |
| Paint Filter Test ^ | USEPA SW-846 / USEPA 9095B | N/A | Pass | N/A |
| Fecal Coliform | USEPA 1681 | 10 MPN/g | 370 | MPN/g |

Remark: ND = Not detected (less than reporting limit)

@ = Maximum holding time exceeded.

^ - 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 USEPA 3540/3541, USEPA 3550, ISO 18857-2, ASTM D7065, ISO 18254-1, with GC-MS and LC-MS-MS analysis.

| Chemical substances | CAS no. | 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 |

Remark: ND = Not detected (less than reporting limit)

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5. Polycyclic aromatic hydrocarbons (PAHs)

With reference to US EPA 3540/3541, US EPA 3550, US EPA 3640, US EPA 827, HJ 805-2016 with GC-MS analysis.

| Chemical substances | CAS no. | 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 |

Remark: ND = Not detected (less than reporting limit)

6. Chlorotoluenes

With reference to US EPA 3540/3541, US EPA 3550, US EPA 3650, US EPA 827, HJ 605 with GC-MS analysis.

| Chemical substances | CAS no. | 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 |

Remark: ND = Not detected (less than reporting limit)

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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 or USEPA 200.7, USEPA 200.8, USEPA 6010c, USEPA 6020a analysis.

Chromium VI: With reference to toxicity leachate extraction procedure EPA 1311 followed by ISO 18412, USEPA 7196 or USEPA 7199 Colourimetric UV/VIS, or Colourimetric IC analysis.

Mercury: With reference to toxicity leachate extraction procedure EPA 1311 followed by acid digestion EPA 7471b , EPA 3051a with ISO 12846 or ISO 17852, EPA 6020b CVAA or ICP MS analysis.

| Chemical substances | Reporting limit (Dry weight) (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 |

Remark: ND = Not detected (less than reporting limit)

Testing period: From 19 / 01 / 2023 to 29 / 01 / 2023

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

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

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

| Parameters | Disposal pathways | | | | | | |
|---|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | A and B | C | D | E | F | G | |
| pH | | 5 – 11 s.u. | 5 – 11 s.u. | 5 – 11 s.u. | 6.5 – 9 s.u. | 6.5 – 9 s.u. | |
| % Solids | Sample and report only | Sample and report only | Sample and report only | Sample and report only | Sample and report only | Sample and report only | |
| Fecal Coliform | | | | | < 1000 (MPN/g) | | |
| Paint Filter Test | | | Pass Paint filter test | | | | Sample and report only |
| Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers | | | < 0.4 mg/kg | | | | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | < 0.2 mg/kg | | | | |
| Chlorotoluenes | | | | | | | |

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

| Parameters | Disposal pathways | | | | | |
|------------|---------------------------------|-----------|----------|----------|----------|----------|
| | A and B | C | D | E | F | G |
| Cyanide | Report only if required to test | 100 mg/kg | 85 mg/kg | 70 mg/kg | 70 mg/kg | 70 mg/kg |

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SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number: BGD23009136

Photo of sampling points:



Sampling point - Untreated wastewater



Sampling point - Effluent



Sampling point - Sludge

Photo of samples:



Sample - Untreated wastewater



Sample - Effluent



Sample - Sludge

End of report

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