



Date of sampling	16/05/2024
Reporting date	24/05/2024

Audit ID	170622	Audit firm	SGS INDIA PVT. LTD.,
Company name	VIVEK TEXTILE PROCESSING		
Contact person	MR. B.S.VIVEK		
Type of tax – tax ID no	GSTIN - 29ABAPL1438N1ZF		
Address	NO 324/7, HOUSE ROAD, MADIWALA, BENGALURU (BANGALORE)		
Region state province	KARNATAKA		
Town city / village	BANGALORE		
Zip / Post code	560068		

Type of wastewater discharge	
Type of wastewater discharge	Indirect with pretreatment
Description of the discharge	Discharge to City Sewage Treatment Plant - Bangalore Water Supply and Sewage Board
[If direct discharge] Temperature of receiving water body:	--

Type of sludge disposal pathway	
Type of sludge disposal pathway	Pathway B: Landfill with significant Control Measures

Type of treatment*	
PRELIMINARY	<input type="checkbox"/> Screening/Sieving/Grit remover (< 6 mm) <input checked="" type="checkbox"/> Screening/Sieving/Grit remover (≥ 6 mm) <input checked="" type="checkbox"/> Homogenization tank <input checked="" type="checkbox"/> pH Correction <input type="checkbox"/> Other (please specify):
PRIMARY	<input type="checkbox"/> Coagulation/Flocculation <input checked="" type="checkbox"/> Dissolved air flotation (DAF) <input checked="" type="checkbox"/> Sedimentation tanks or Settler/Clarifier <input type="checkbox"/> Other (please specify):
SECONDARY/BIOLOGICAL	<input checked="" type="checkbox"/> Activated sludge process. Aerobic reactor <input type="checkbox"/> Biological Biofilm reactor (MBBR, SAF, RBC..) <input type="checkbox"/> Sequencing batch reactor (SBR) <input type="checkbox"/> Other (please specify): NA



TERTIARY	<input checked="" type="checkbox"/> Absorption with activated carbon <input checked="" type="checkbox"/> High rate filtration <input type="checkbox"/> Techniques (ozone, Fenton reaction, photo catalytic degradation...) <input type="checkbox"/> Other (please specify):
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*The information has been provided by the factory.

Sampler accreditation certification number (ZDHC):		Manikandan.G (ZDHC-A-24-E-C001068-R3B82-F21E2)	
Sampling affiliate		SGS India Pvt. Ltd.,	
Sample description			
	Simple	Composite	Comments
(1) Untreated wastewater	No	Yes, Black, composite sampling at 10:40 - 16:40	--
(2) Effluent	Yes,Light Grey, Grab Sampling at 15:40	No	--
(3) Sludge	Yes,Black, Grab Sampling at 15:53	No	Sludge Sampling at Drying Bed
(4) Leachate	No	--	--

Internal description – Final Test Report	
Testing laboratory	SGS India Pvt. Ltd.,
Internal codification number (report number)	CH:TX: 1542023099
Reference sample number (sample ID)	--
Received on	17/05/2024
Analysis carried out from	17/05/2024 – 24/05/2024
Arrival temperature at lab	8 °C
Comments	--

Remarks:
Sample received temperature is greater than 8°C and less than 10°C when received.



Summary of test results				
Test items	Untreated Wastewater	Effluent	Sludge	Leachate
Conventional Parameters and Anions	-	-	Please refer to the information in TEST RESULTS	-
Heavy Metals	-	ND	D	ND
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	ND	-	D	-
Anti- Microbials & Biocides	ND	-	-	-
Chlorinated Paraffins	ND	-	-	-
Chlorobenzenes & Chlorotoluenes	ND	-	ND	-
Chlorophenols	ND	-	-	-
N,N-di-methylformamide (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	-	-	-
Other / Miscellaneous Chemicals	ND	-	-	-
Perfluorinated and Polyfluorinated Chemicals (PFCs)	ND	-	-	-
Phthalates – including all other esters of ortho-phthalic acid	ND	-	-	-
Polycyclic Aromatic Hydrocarbons (PAHs)	ND	-	ND	-
Restricted Aromatic Amines (Cleavable from Azo-colourants)	ND	-	-	-
UV Absorbers	ND	-	-	-
VOCs	ND	-	-	-

Remark (Indicated in each parameter)

- ND = Not detected
- D = Detected
- NA = Not applicable
- NC = Not conducted
- = Not required to be tested
- @ = Maximum holding time exceed

Per pro SGS India Private Ltd



P.SHANMUGAM
SENIOR EXECUTIVE

Authorized Signatory-Hazardous & Restricted Substances

Email your Test Report Related Enquiries at Feedback.SLT@sgs.com



Test results

Wastewater

1. Conventional Parameters and Anions

Test Items	Test method	Limit			Reporting Limit	Result	Unit
		Foundational	Progressive	Aspirational		Effluent	
pH	SM 4500 H+	Textile and Leather: 6-9			NA	-	-
Temperature Difference	SM 2550	Textile and Leather: Δ+15	Textile and Leather: Δ+10	Textile and Leather: Δ+5	NA	-	°C
E. Coli	SM 9221 B fermentation with LTB for presumptive followed by SM 9221 F (fluorogenic substrate)	Textile and Leather: 126			126	-	MPN/100mL
Colour (436nm; 525nm; 620nm)	ISO 7887 B	Textile and Leather: 7;5;3	Textile and Leather: 5;3;2	Textile and Leather: 2;1;1	2;1;1	-	m-1
Persistent Foam	-	Textile and Leather: Not visible			NA	-	-
Wastewater Flowrate	-	-			NA	18.6 (f)	m ³ /day
Ammonium-Nitrogen	SM 4500 NH3 F	Textile: 10 Leather: 15	Textile: 1 Leather: 10	Textile: 0.5 Leather: 1	0.5	-	mg/L
AOX	ISO 9562	Textile: 3	Textile: 0.5	Textile: 0.1	0.1	-	mg/L
Biochemical Oxygen Demand 5-days concentration (BOD ₅)	SM 5210 B	Textile: 30 Leather: 50	Textile: 15 Leather: 30	Textile: 8 Leather: 20	5	-	mg/L
Chemical Oxygen Demand (COD)	SM 5220 D	Textile: 150 Leather: 250	Textile: 80 Leather: 150	Textile: 40 Leather: 100	40	-	mg/L
Dissolved Oxygen (DO)	SM 4500 - O	Textile and Leather: Sample and report only			0.5	-	mg/L
Oil and grease	SM 5520 B or C	Textile: 10 Leather: 20	Textile: 2 Leather: 10	Textile: 0.5 Leather: 5	0.5	-	mg/L
Total Phenols / Phenol Index	SM 5530 B/C	Textile and Leather: 0.5	Textile:0.01 Leather: 0.3	Textile: 0.001 Leather: 0.1	0.001	-	mg/L
Total Chlorine	SM 4500 - Cl-G	Textile and Leather: Sample and report only			0.5	-	mg/L
Total Dissolved Solids (TDS)	SM 2540 C	Textile and Leather: Sample and report only			50	-	mg/L
Total Nitrogen	SM 4500 N B, C	Textile: 20 Leather: 35	Textile: 10 Leather: 20	Textile: 5 Leather: 10	5	-	mg/L



Total Phosphorus	ISO 6878	Textile and Leather: 3	Textile: 0.5 Leather: 1	Textile: 0.1 Leather: 0.5	0.1	-	mg/L
Total Suspended Solids (TSS)	SM 2540 D	Textile: 50 Leather: 70	Textile: 15 Leather: 50	Textile: 5 Leather: 20	5	-	mg/L
Chloride	SM 4500 Cl-D	Textile and Leather: Sample and report only			1	-	mg/L
Cyanide	SM 4500 CN	Textile: 0.2	Textile: 0.1	Textile: 0.05	0.05	-	mg/L
Sulfate	SM 4500 SO ₄ ²⁻ E	Textile and Leather: Sample and report only			5	-	mg/L
Sulfide	SM 4500 S ²⁻ D	Textile: 0.5 Leather: 1	Textile: 0.05 Leather: 0.5	Textile: 0.01 Leather: 0.2	0.01	-	mg/L
Sulfite	SM 4500 SO ₃ ²⁻ C	Textile: 2	Textile: 0.5	Textile: 0.2	0.2	-	mg/L

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- (f) = Parameter tested in field
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2.Heavy Metals

Cr (VI): ISO 18412

Ba, Se, Sn, Sb, As, Cr, Co, Cd, Cu, Pb, Ni, Ag, Zn, Hg: USEPA 200.8, acid digestion followed by ICP/ ICP-MS analysis(SO-IN-C&P-TE-051)

Test items	CAS no.	Limit			Reporting Limit	Result	Unit
		Foundational	Progressive	Aspirational		Effluent	
Antimony (Sb)*	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	-	mg/L
Chromium VI (Cr VI)	Various	Textile: 0.05 Leather: 0.15	Textile: 0.005 Leather: 0.05	Textile: 0.001 Leather: 0.02	0.001	ND	mg/L
Barium (Ba)	Various	Textile: Sample and report only			35	-	mg/L
Selenium (Se)	Various	Textile: Sample and report only			0.5	-	mg/L
Tin (Sn)	Various	Textile: Sample and report only			0.1	-	mg/L
Arsenic (As)	Various	Textile and Leather: 0.05	Textile and Leather: 0.01	Textile and Leather: 0.005	0.005	ND	mg/L
Total Chromium (Cr)	Various	Textile: 0.2 Leather: 1.5	Textile: 0.1 Leather: 0.8	Textile: 0.05 Leather: 0.3	0.05	-	mg/L
Cobalt (Co)	Various	Textile and Leather: 0.05	Textile and Leather: 0.02	Textile and Leather: 0.01	0.01	-	mg/L
Cadmium (Cd)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	ND	mg/L
Copper (Cu)	Various	Textile and Leather: 1	Textile and Leather: 0.5	Textile and Leather: 0.25	0.25	-	mg/L
Lead (Pb)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	ND	mg/L
Nickel (Ni)	Various	Textile and Leather: 0.2	Textile and Leather: 0.1	Textile and Leather: 0.05	0.05	-	mg/L
Silver (Ag)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.005	0.005	-	mg/L
Zinc (Zn)	Various	Textile and Leather: 5	Textile and Leather: 1	Textile and Leather: 0.5	0.1	-	mg/L
Mercury (Hg)	Various	Textile and Leather: 0.01	Textile and Leather: 0.005	Textile and Leather: 0.001	0.001	ND	mg/L

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3. Alkylphenol (AP) & Alkylphenol Ethoxylates (APEOs): including all isomers

NP/OP: With reference to ISO 18857-2 (Modified dichloromethane extraction) (GC-MS or LC-MS(-MS))

NPEO / OPEO: With reference to ISO 18857-2 (Modified dichloromethane extraction) (GC-MS or LC-MS(-MS)) (SO-IN-C&P-TE-052)

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated Wastewater	
Nonylphenoethoxylates (NPEOs)	9016-45-9 / 26027-38-3 / 37205-87-1 / 68412-54-4 / 127087-87-0	5	ND	µg/L
Nonylphenol (NP)	104-40-5 / 11066-49-2 / 25154-52-3 / 84852-15-3	5	ND	µg/L
Octylphenoethoxylates (OPEOs)	9002-93-1 / 9036-19-5 / 68987-90-6	5	ND	µg/L
Octylphenol (OP)	140-66-9 / 1806-26-4 / 27193-28-8	5	ND	µg/L

Remark

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4. Anti- Microbials & Biocides

o-Phenylphenol (+salts): With reference to USEPA 8270 E. Determination by LC-MS(-MS)

Triclosan: With reference to USEPA 8270 E. Determination by LC-MS(-MS)

Permethrin: With reference to ISO 14154:2005. Determination by LC-MS(-MS) or GC-MS (SO-IN-C&P-TE-147)

Test items	CAS no.	Reporting Limit	Result	Unit
			Untreated Wastewater	
o-Phenylphenol (+salts)	90-43-7	Textile: 100	ND	µg/L
Triclosan	3380-34-5	Textile and Leather: 100	ND	µg/L
Permethrin	Various	Textile and Leather: 500	ND	µg/L

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5.Chlorinated Paraffins

MCCPs: Preparation: With reference to USEPA 3510 Analysis: With reference to ISO 18219-2:2021 with GC-MS(NCI)

SCCPs: Preparation: With reference to USEPA 3510 Analysis: With reference to ISO 18219-1:2021 with GC-MS(NCI)
(SO-IN-C&P-TE-065)

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated Wastewater	
Medium-chain Chlorinated Paraffins (MCCPs) (C14-C17)	85535-85-9	500	ND	µg/L
Short-chain Chlorinated Paraffins (C10-C13)	85535-84-8	25	ND	µg/L

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6.Chlorobenzenes & Chlorotoluenes

With reference to USEPA 8260 D, Dichloromethane extraction followed by GC-MS(SO-IN-C&P-TE-053)

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated Wastewater	
Monochlorobenzenes	108-90-7	0.2	ND	µg/L
1,2-Dichlorobenzene	95-50-1	0.2	ND	µg/L
1,3-Dichlorobenzene	541-73-1	0.2	ND	µg/L
1,4-Dichlorobezene	106-46-7	0.2	ND	µg/L
1,2,3-Trichlorobenzene	87-61-6	0.2	ND	µg/L
1,2,4-Trichlorobenzene	120-82-1	0.2	ND	µg/L
1,3,5-Trichlorobenzene	108-70-3	0.2	ND	µg/L
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	ND	µg/L
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	ND	µg/L
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	ND	µg/L
Pentachlorobenzene	608-93-5	0.2	ND	µg/L
Hexachlorobenzene	118-74-1	0.2	ND	µg/L
2-Chlorotoluene	95-49-8	0.2	ND	µg/L
3-Chlorotoluene	108-41-8	0.2	ND	µg/L
4-Chlorotoluene	106-43-4	0.2	ND	µg/L
2,3-Dichlorotoluene	32768-54-0	0.2	ND	µg/L

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2,4-Dichlorotoluene	95-73-8	0.2	ND	µg/L
2,5-Dichlorotoluene	19398-61-9	0.2	ND	µg/L
2,6-Dichlorotoluene	118-69-4	0.2	ND	µg/L
3,4-Dichlorotoluene	95-75-0	0.2	ND	µg/L
3,5-Dichlorotoluene	25186-47-4	0.2	ND	µg/L
2,3,4-Trichlorotoluene	7359-72-0	0.2	ND	µg/L
2,3,6-Trichlorotoluene	2077-46-5	0.2	ND	µg/L
2,4,5-Trichlorotoluene	6639-30-1	0.2	ND	µg/L
2,4,6-Trichlorotoluene	23749-65-7	0.2	ND	µg/L
3,4,5-Trichlorotoluene	21472-86-6	0.2	ND	µg/L
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	ND	µg/L
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	ND	µg/L
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	ND	µg/L
Pentachlorotoluene	877-11-2	0.2	ND	µg/L

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7.Chlorophenols

With reference to USEPA 8270 E, Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS(SO-IN-C&P-TE-054)

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
2-Chlorophenol	95-57-8	0.5	ND	µg/L
3-Chlorophenol	108-43-0	0.5	ND	µg/L
4-Chlorophenol	106-48-9	0.5	ND	µg/L
2,3-Dichlorophenol	576-24-9	0.5	ND	µg/L
2,4-Dichlorophenol	120-83-2	0.5	ND	µg/L
2,5-Dichlorophenol	583-78-8	0.5	ND	µg/L
2,6-Dichlorophenol	87-65-0	0.5	ND	µg/L
3,4-Dichlorophenol	95-77-2	0.5	ND	µg/L
3,5-Dichlorophenol	591-35-5	0.5	ND	µg/L
2,3,4-Trichlorophenol	15950-66-0	0.5	ND	µg/L



2,3,5-Trichlorophenol	933-78-8	0.5	ND	µg/L
2,3,6-Trichlorophenol	933-75-5	0.5	ND	µg/L
2,4,5-Trichlorophenol	95-95-4	0.5	ND	µg/L
2,4,6-Trichlorophenol	88-06-2	0.5	ND	µg/L
3,4,5-Trichlorophenol	609-19-8	0.5	ND	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND	µg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND	µg/L
Pentachlorophenol PCP	87-86-5	0.5	ND	µg/L

Remark

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8.N,N-di-methylformamide (DMFa)

With reference to USEPA 8270 E(SO-IN-C&P-TE-146)

Test item	CAS no.	Reporting Limit (Textile)	Result	Unit
			Untreated Wastewater	
N,N-di-methylformamide (DMFa)*	68-12-2	1000	ND	µg/L

Remark

1 µg/L = 0.001ppm
 ND = Not detected
 NA = Not applicable
 NC = Not conducted
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 * = Sample and report only for mock leather



9.Dyes - Carcinogenic or Equivalent Concern

With reference to Liquid extraction followed by LC-MS(SO-IN-C&P-TE-056)

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated Wastewater	
Basic violet 3 with >0.1% of Michler's Ketone*	548-62-9	500	ND	µg/L
C.I. Acid Red 26	3761-53-3	500	ND	µg/L
C.I. Acid Violet 49	1694-09-3	500	ND	µg/L
C.I. Basic Blue 26 (with Michler's Ketone > 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	Textile: 500	ND	µg/L
C.I. Disperse Blue 3	2475-46-9	Textile: 500	ND	µg/L
Disperse Orange 11	82-28-0	Textile: 500	ND	µg/L

Remark

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- # = Non accredited parameter
- * = Reported concentration refers to the dye part only



10.Dyes - Disperse (Allergenic)

With reference to Liquid extraction followed by LC-MS(SO-IN-C&P-TE-056)

Test Items	CAS no.	Reporting Limit (Textile)	Result	
			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	50	ND	µg/L
Disperse Blue 35	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

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11.Dyes - Navy Blue Colourant

With reference to Liquid extraction followed by LC-MS(SO-IN-C&P-TE-056)

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated Wastewater	
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	ND	µg/L
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	ND	µg/L

Remark

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- = Not required to be tested
- (S) = The analysis was performed by a subcontracted laboratory assessed as competent
- # = Non accredited parameter

12.Flame retardants

Boric acid, Diboron trioxide, Disodium octaborate, Disodium tetraborate anhydrous, Tetraboron disodium heptaoxide, hydrate: With reference to USEPA 200.8 - Acid digestion followed by ICP/ ICP-MS analysis

Others: With reference to USEPA 8270 E, ISO 22032 - Dichloromethane extraction followed by GC-MS or LC-MS(-MS) (SO-IN-C&P-TE-057)

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated Wastewater	
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	Textile: 25 Leather: 5	ND	µg/L
Bis(2,3-dibromopropyl) phosphate	5412-25-9	Textile: 25 Leather: 5	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	Textile: 25 Leather: 5	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	Textile: 25 Leather: 5	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	Textile: 25 Leather: 5	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	Textile: 25 Leather: 5	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	Textile: 25 Leather: 5	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	Textile: 25 Leather: 5	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	Textile: 25 Leather: 5	ND	µg/L



Tris(1-aziridinylphosphine oxide) (TEPA)	545-55-1	Textile: 25 Leather: 5	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	Textile: 25 Leather: 5	ND	µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Textile: 25 Leather: 5	ND	µg/L
Tris(2,3-dibromopropyl phosphate) (TRIS)	126-72-7	Textile: 25 Leather: 5	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	Textile: 25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	Textile: 25	ND	µg/L
Octabromobiphenyls (OctaBB)	Multiple	Textile: 25	ND	µg/L
Dibromopropylether	21850-44-2	Textile: 25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	Textile: 25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	Textile: 25	ND	µg/L
Monobromobiphenyls (MonoBB)	Multiple	Textile: 25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	Textile: 25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Multiple	Textile: 25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	Textile: 25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	Textile: 25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	Textile: 25	ND	µg/L
Boric acid	10043-35-3 / 11113-50-1	Textile: 100*	ND (ND)**	µg/L
Diboron trioxide	1303-86-2	Textile: 100*	ND (ND)**	µg/L
Disodium octaborate	12008-41-2	Textile: 100*	ND (ND)**	µg/L
Disodium tetraborate anhydrous	1303-96-4 / 1330-43-4	Textile: 100*	ND (ND)**	µg/L
Tetraboron disodium heptaoxide, hydrate	12267-73-1	Textile: 100*	ND (ND)**	µg/L

Remark

1 µg/L = 0.001ppm
 ND = Not detected
 NA = Not applicable
 NC = Not conducted
 - = Not required to be tested
 (S) = The analysis was performed by a subcontracted laboratory assessed as competent
 # = Non accredited parameter
 * = Limit refers to elemental boron, not the salt.
 ** = Result in term of elemental boron (Result in term of the corresponding boron salt)



13. Glycols/Glycol Ethers

With reference to USEPA 8270 E followed by GC-MS(SO-IN-C&P-TE-058)

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
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

1 µg/L = 0.001ppm
 ND = Not detected
 NA = Not applicable
 NC = Not conducted
 - = Not required to be tested
 (S) = The analysis was performed by a subcontracted laboratory assessed as competent
 # = Non accredited parameter

14. Halogenated solvents

With reference to USEPA 8260 D, followed by GC-MS(SO-IN-C&P-TE-059)

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
1,2-Dichloroethane	107-06-2	1	ND	µg/L
Methylene chloride	75-09-2	1	ND	µg/L
Tetrachloroethene	127-18-4	1	ND	µg/L
Trichloroethene	79-01-6	1	ND	µg/L

Remark

1 µg/L = 0.001ppm
 ND = Not detected
 NA = Not applicable
 NC = Not conducted
 - = Not required to be tested
 (S) = The analysis was performed by a subcontracted laboratory assessed as competent
 # = Non accredited parameter



15. Organotin compounds

TeET: With reference to ISO 17353

Others: With reference to ISO 17353 - Derivatization with NaB(C₂H₅)₄ followed by GC-MS(SO-IN-C&P-TE-060)

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated Wastewater	
Dipropyltin compounds (DPT)	Various	0.01	ND	µg/L
Mono-, di- and tri-butyltin derivatives	Various	0.01	ND	µg/L
Monobutyltin (MBT)	1118-46-3 / 78763-54-9	0.01	ND	µg/L
Dibutyltin (DBT)	1002-53-5	0.01	ND	µg/L
Tributyltin (TBT)	56573-85-4	0.01	ND	µg/L
Mono-, di- and tri-methyltin derivatives	Various	0.01	ND	µg/L
Monomethyltin (MMT)	Various	0.01	ND	µg/L
Dimethyltin (DMT)	Various	0.01	ND	µg/L
Trimethyltin (TMT)	Various	0.01	ND	µg/L
Mono-, di- and tri-octyltin derivatives	Various	0.01	ND	µg/L
Monooctyltin (MOT)	15231-57-9	0.01	ND	µg/L
Diocetyl tin (DOT)	94410-05-6 / 12531-44-4	0.01	ND	µg/L
Triocetyl tin (TOT)	Various	0.01	ND	µg/L
Mono-, di- and tri-phenyltin derivatives	Various	0.01	ND	µg/L
Monophenyltin (MPHT)	Various	0.01	ND	µg/L
Diphenyltin (DPHT)	Various	0.01	ND	µg/L
Triphenyltin (TPHT)	892-20-6 / 668-34-8	0.01	ND	µg/L
Tetrabutyltin compounds (TeBT)	Various	0.01	ND	µg/L
Tripropyltin (TPT)	Various	0.01	ND	µg/L
Tetraoctyltin compounds (TeOT)	Various	0.01	ND	µg/L
Tricyclohexyltin (TCyHT)	Various	0.01	ND	µg/L
Tetraethyltin Compounds (TeET)	Various	0.01	ND	µg/L

Remark

- 1 µg/L = 0.001ppm
- ND = Not detected
- NA = Not applicable
- NC = Not conducted
- = Not required to be tested
- (S) = The analysis was performed by a subcontracted laboratory assessed as competent
- # = Non accredited parameter



16.Other/Miscellaneous Chemicals

AEEA : With reference to Liquid extraction followed by LC-MS/MS
 Bisphenol A: With reference to Liquid extraction followed by LC-MS
 Thiourea: With reference to Liquid extraction followed by LC-MS
 Quinoline: With reference to Liquid extraction followed by LC-MS
 Borate, zinc salt: USEPA 200.8, acid digestion followed by ICP/ ICP-MS analysis
 (SO-IN-C&P-TE-148A & SO-IN-C&P-TE-148B)

Test Items	CAS no.	Reporting Limit (Textile)	Result	Unit
			Untreated Wastewater	
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*	ND	µg/L

Remark

1 µg/L = 0.001ppm
 ND = Not detected
 NA = Not applicable
 NC = Not conducted
 - = Not required to be tested
 (S) = The analysis was performed by a subcontracted laboratory assessed as competent
 # = Non accredited parameter
 * = Limit refers to boron and zinc individually, not the salt.
 ** = Result in term of elemental boron / zinc (Result in term of the corresponding boron / zinc salt)



17. Perfluorinated and Polyfluorinated Chemicals (PFCs)

PFCs: With reference to solvent extraction followed by LC-MSMS

FTOH: With reference to solvent extraction followed by GC-MSMS

(SO-IN-C&P-TE-061)

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
Perfluoro-octane-sulfonic acid (PFOS)*	1763-23-1	0.01	ND	µg/L
N-Ethyl-perfluoro-octane-sulfon-amide (N-Et-FOSA)	4151-50-2	0.01	ND	µg/L
N-Methyl-perfluoro-octane-sulfon-amide (N-Me-FOSA)	31506-32-8	0.01	ND	µg/L
N-Ethyl-Perfluoro-octane-sulfon-amido-ethanol (N-Et-FOSE)	1691-99-2	0.01	ND	µg/L
N-Methyl-perfluoro-octane-sulfon-amido-ethanol (N-Me-FOSE)	24448-09-7	0.01	ND	µg/L
Perfluoro-octane-sulfon-amide (PFOSA)	754-91-6	0.01	ND	µg/L
Perfluoro-octanoic acid (PFOA)**	335-67-1	0.01	ND	µg/L
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	1	ND	µg/L
Methyl Perfluorooctanoate (Me-PFOA)	376-27-2	1	ND	µg/L
Ethyl Perfluorooctanoate (Et-PFOA)	3108-24-5	1	ND	µg/L
1H,1H,2H,2H-Perfluorodecanol (8:2 FTOH)	678-39-7	1	ND	µg/L
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	1	ND	µg/L
8:2 Fluorotelomer methacrylate (8:2 FTMA)	1996-88-9	1	ND	µg/L

Remark

1 µg/L = 0.001ppm

ND = Not detected

NA = Not applicable

NC = Not conducted

- = Not required to be tested

(S) = The analysis was performed by a subcontracted laboratory assessed as competent

= Non accredited parameter

* = PFOS refer to its salts/derivative including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3) and POSF (CAS No.: 307-35-7)

** = PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1)



18.Phtalates – including all other esters of ortho-phthalic acid

With reference to Dichloromethane extraction followed by GC-MS(SO-IN-C&P-TE-062)

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated Wastewater	
1,2-benzenedicarboxylic acid, di-C6-8 branched and linearalkyl esters, C7-rich (DIHP)	71888-89-6 / 84777-06-0	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUF)	68515-42-4 / 68515-50-4	10	ND	µg/L
Dimethoxyethyl phthalate (DMEP)	117-82-8	10	ND	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	ND	µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND	µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND	µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND	µg/L
Di-iso-butyl phthalate (DIBP)	84-69-5	10	ND	µg/L
Di-iso-nonyl 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-2-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

- 1 µg/L = 0.001ppm
- ND = Not detected
- NA = Not applicable
- NC = Not conducted
- = Not required to be tested
- (S) = The analysis was performed by a subcontracted laboratory assessed as competent
- # = Non accredited parameter



19.Polycyclic aromatic hydrocarbons (PAHs)

With reference to USEPA 8270 E - Solvent extraction followed by GC-MS(SO-IN-C&P-TE-063)

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
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	207-08-09	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

1 µg/L = 0.001ppm
 ND = Not detected
 NA = Not applicable
 NC = Not conducted
 - = Not required to be tested
 (S) = The analysis was performed by a subcontracted laboratory assessed as competent
 # = Non accredited parameter



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

With reference to ISO 14362-1, USEPA 8270 E - Reduction step with sodium dithionite, solvent extraction followed by GC-MS or LC-MS/MS (SO-IN-C&P-TE-055)

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
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-Aminobiphenyl	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
2,4-Diaminoanisole	615-05-4	0.1	ND	µg/L
2,4-Diaminotoluene	95-80-7	0.1	ND	µg/L
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	ND	µg/L
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.1	ND	µg/L
4,4'-Diaminodiphenylmethane	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
p-Cresidine	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

1 µg/L = 0.001ppm
 ND = Not detected
 NA = Not applicable
 NC = Not conducted
 - = Not required to be tested
 (S) = The analysis was performed by a subcontracted laboratory assessed as competent
 # = Non accredited parameter
 @ = The amine was detected according to ISO 14362-1:2017 with the reducing agent. A similar result was obtained from the procedure carried out without the reducing agent. According to ISO 14362-1:2017 Annex C.2.1.2.2, the amine originated from a source other than azo colorants
 # = The amine was detected according to ISO 14362-1:2017 with the reducing agent. Confirmation procedure was carried out without reducing agent, according to ISO 14362-1:2017 Annex C.2.1.2.2, the amine originated from azo colorants

21.UV Absorbers

With reference to USEPA 8270 E - Dichloromethane extraction followed by GC-MS(SO-IN-C&P-TE-149)

Test Items	CAS no.	Reporting Limit (Textile)	Result	Unit
			Untreated wastewater	
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

1 µg/L = 0.001ppm
 ND = Not detected
 NA = Not applicable
 NC = Not conducted
 - = Not required to be tested
 (S) = The analysis was performed by a subcontracted laboratory assessed as competent
 # = Non accredited parameter



22.Volatile organic compounds (VOCs)

Benzene, m-cresol/o-cresol/p-cresol/ Xylene/Toluene :With reference to ISO 11423-1 - Headspace followed by GC-MS(SO-IN-C&P-TE-064)

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
Benzene	71-43-2	Textile and Leather: 1	ND	µg/L
m-cresol	108-39-4	Textile and Leather: 1	ND	µg/L
o-cresol	95-48-7	Textile and Leather: 1	ND	µg/L
p-cresol	106-44-5	Textile and Leather: 1	ND	µg/L
Xylene	1330-20-7	Textile: 1	ND	µg/L
Toluene*	108-88-3	Textile: 1 (Sample and Report only for mock leather)	ND	µg/L

Remark

- 1 µg/L = 0.001ppm
- ND = Not detected
- NA = Not applicable
- NC = Not conducted
- = Not required to be tested
- (S) = The analysis was performed by a subcontracted laboratory assessed as competent
- # = Non accredited parameter
- * = Sample and report only for mock leather

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No decision rule is applied, when comparing the measurement result(s) with the applicable limit(s) according to the specification in the respective standard or as shared by the customer



SLUDGE

23.Sludge Parameters - Step 1 – Conventional

pH: USEPA 9045 D

% Solids: USEPA 160.3

Paint Filter Test: USEPA 9095 B

Fecal Coliform: USEPA 1681/ APHA 23rd Edition Chapter 9221E

Test Items	CAS no.	Limit							Reporting Limit (Textile and Leather)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
pH	-	Sample and Report Only	Sample and Report Only	5-11	5-11	5-11	6.5-9	6.5-9	-	7.9	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	Sample and Report Only	-	49.6	%
Paint Filter Test	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Pass	Pass	Pass	Sample and Report Only	-	Pass	-
Fecal Coliform	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	1000	1000	1000	ND	MPN/g

Remark

- ND = Not detected
- NA = Not applicable
- NC = Not conducted
- = Not required to be tested
- (S) = The analysis was performed by a subcontracted laboratory assessed as competent
- # = Non accredited parameter



24.Sludge Parameters – Step 1 – Anions

Preparation: USEPA 9013

Analysis: USEPA 9213

Test Items	CAS no.	Limit - Dry Weight							Reporting Limit (Textile)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Cyanide	-	Sample and Report Only	Sample and Report Only	100	85	70	70	70	20	ND	mg/kg

Remark

- ND = Not detected
- NA = Not applicable
- NC = Not conducted
- = Not required to be tested
- (S) = The analysis was performed by a subcontracted laboratory assessed as competent
- # = Non accredited parameter



25.Sludge Parameters – Step 1 – Metals

Sb, As, Cr, Co, Cd, Cu, Pb, Ni, Zn: Preparation: USEPA 3050; Analysis: USEPA 6020 B -acid/peroxide digestion followed by ICP/ICP-MS analysis

Cr VI: Preparation: USEPA 3060 A; Analysis: USEPA 7196 - Analysis using UV-VIS Spectrophotometer

Ba, Se, Ag: Preparation: Preparation: USEPA 3050; Analysis: USEPA 6020 B -acid/peroxide digestion followed by ICP/ICP-MS analysis

Hg: Preparation: USEPA 3050; Analysis: USEPA 6020 B -acid/peroxide digestion followed by ICP/ICP-MS analysis
(SO-IN-C&P-TE-051)

Test Items	CAS no.	Limit - Dry Weight		Reporting Limit	Result	Unit
		Total Metals Threshold Values*	Max Total Metals limit for Pathway G		Sludge	
Antimony (Sb)	Various	12	Sample and Report Only	Textile: 5	ND	mg/kg
Arsenic (As)	Various	10	75	Textile: 5 Leather: 2	ND	mg/kg
Barium (Ba)	Various	700	Sample and Report Only	Textile: 200	ND	mg/kg
Cadmium (Cd)	Various	3	85	Textile: 1 Leather: 2	ND	mg/kg
Cobalt (Co)	Various	1600	Sample and Report Only	Textile: 400	ND	mg/kg
Copper (Cu)	Various	200	4300	Textile: 50	437	mg/kg
Lead (Pb)	Various	10	840	Textile: 5 Leather: 2	ND	mg/kg
Nickel (Ni)	Various	70	420	Textile: 20	ND	mg/kg
Selenium (Se)	Various	10	100	Textile: 5	ND	mg/kg
Silver (Ag)	Various	100	Sample and Report Only	Textile: 50	ND	mg/kg
Total Chromium (Cr)	Various	100	3000	Textile: 50	ND	mg/kg
Zinc (Zn)	Various	1000	7500	Textile: 400	ND	mg/kg
Chromium VI (Cr VI)	Various	50	50	Textile: 20 Leather: 2	ND	mg/kg
Mercury (Hg)	Various	1	57	Textile: 1 Leather: 0.2	ND	mg/kg

Remark

- ND = Not detected
- NA = Not applicable
- NC = Not conducted
- = Not required to be tested
- (S) = The analysis was performed by a subcontracted laboratory assessed as competent
- # = Non accredited parameter
- * = Leachate should be tested if Total Metals Threshold Values is exceeded in sludge



26.Sludge Parameters - Step 1 - MRSL - Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers

NP/OP: Preparation: Preparation: With reference to USEPA 3550 – Ultrasonic Analysis: With reference to ISO 18857-2 (GC-MS or LC-MS(-MS))

NPEO/OPEO: Preparation: With reference to USEPA 3550 – Ultrasonic Analysis: With reference to ISO 18254-1, ISO 18857-2 (LC-MS(-MS))
(SO-IN-C&P-TE-052)

Test Items	CAS no.	Limit - Dry Weight							Reporting Limit (Textile and Leather)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Nonylphenoethoxylates (NPEOs)	9016-45-9 / 26027-38-3 / 37205-87-1 / 68412-54-4 / 127087-87-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg
Nonylphenol (NP)	104-40-5 / 11066-49-2 / 25154-52-3 / 84852-15-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	1.1	mg/kg
Octylphenoethoxylates (OPEOs)	9002-93-1 / 9036-19-5 / 68987-90-6	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg
Octylphenol (OP)	140-66-9 / 1806-26-4 / 27193-28-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg

Remark

- ND = Not detected
- NA = Not applicable
- NC = Not conducted
- = Not required to be tested
- (S) = The analysis was performed by a subcontracted laboratory assessed as competent
- # = Non accredited parameter



27.Sludge Parameters - Step 1 - MRSL – Polycyclic Aromatic Hydrocarbons (PAHs)

Preparation: With reference to USEPA 3550 - Ultrasonic

Clean-up: With reference to USEPA 3650

Analysis: With reference to USEPA 8270 E

(SO-IN-C&P-TE-063)

Test Items	CAS no.	Limit - Dry Weight							Reporting Limit (Textile)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Acenaphthene	83-32-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Acenaphthylene	208-96-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Anthracene	120-12-7	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(a)anthracene	56-55-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(a)pyrene (BaP)	50-32-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(b)fluoranthene	205-99-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(e)pyrene	192-97-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(ghi)perylene	191-24-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg



Benzo(j)fluoranthene	205-82-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(k)fluoranthene	207-08-09	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Chrysene	218-01-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Dibenz(a,h)anthracene	53-70-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Fluoranthene	206-44-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Fluorene	86-73-7	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Indeno (1,2,3-cd)pyrene	193-39-5	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Naphthalene	91-20-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Phenanthrene	85-01-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Pyrene	129-00-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

Remark

ND = Not detected
 NA = Not applicable
 NC = Not conducted
 - = Not required to be tested
 (S) = The analysis was performed by a subcontracted laboratory assessed as competent
 # = Non accredited parameter



28.Sludge Parameters - Step 1 - MRSL – Chlorotoluenes

Preparation: USEPA 3550 - Ultrasonic

Clean-up: With reference to USEPA 3650B

Analysis: With reference to USEPA 8270 E

(SO-IN-C&P-TE-053)

Test Items	CAS no.	Limit - Dry Weight							Reporting Limit (Textile and Leather)	Result	
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	Unit
2-Chlorotoluene	95-49-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3-Chlorotoluene	108-41-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
4-Chlorotoluene	106-43-4	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3-Dichlorotoluene	32768-54-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,4-Dichlorotoluene	95-73-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,5-Dichlorotoluene	19398-61-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,6-Dichlorotoluene	118-69-4	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3,4-Dichlorotoluene	95-75-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3,5-Dichlorotoluene	25186-47-4	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg



2,3,4-Trichlorotoluene	7359-72-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,6-Trichlorotoluene	2077-46-5	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,4,5-Trichlorotoluene	6639-30-1	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,4,6-Trichlorotoluene	23749-65-7	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3,4,5-Trichlorotoluene	21472-86-6	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,4,5-Tetrachlorotoluene	76057-12-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,5,6-Tetrachlorotoluene	29733-70-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,4,6-Tetrachlorotoluene	875-40-1	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Pentachlorotoluene	877-11-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

Remark

ND = Not detected
 NA = Not applicable
 NC = Not conducted
 - = Not required to be tested
 (S) = The analysis was performed by a subcontracted laboratory assessed as competent
 # = Non accredited parameter



LEACHATE

29. Leachate Parameters - Step 2 – Metals

As, Cd, Cr, Pb, Sb, Ba, Co, Cu, Ni, Se, Ag, Zn: Leachate Extraction: USEPA 1311

Cr (VI): Leachate Extraction: USEPA 1311; Analysis: ISO 18412

Hg: Leachate Extraction: USEPA 1311; Analysis: USEPA 6020 B

(SO-IN-C&P-TE-163)

Test Items	CAS no.	Limit							Reporting Limit	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Leachate	
Arsenic (As)	Various	Sample and Report Only	Sample and Report Only	5	2.75	0.5	0.5	0.5	0.005	-	mg/L
Cadmium (Cd)	Various	Sample and Report Only	Sample and Report Only	1	0.58	0.15	0.15	0.15	0.01	-	mg/L
Total Chromium (Cr)	Various	Sample and Report Only	Sample and Report Only	15	10	5	5	5	0.05	-	mg/L
Lead (Pb)	Various	Sample and Report Only	Sample and Report Only	5	2.75	0.5	0.5	0.5	0.01	-	mg/L
Antimony (Sb)	Various	Sample and Report Only	Sample and Report Only	15	7.8	0.6	0.6	0.6	0.01	-	mg/L
Barium (Ba)	Various	Sample and Report Only	Sample and Report Only	100	67.5	35	35	35	35	-	mg/L
Cobalt (Co)	Various	Sample and Report Only	Sample and Report Only	80	80	80	80	80	0.01	-	mg/L
Copper (Cu)	Various	Sample and Report Only	Sample and Report Only	25	17.5	10	10	10	0.25	ND	mg/L



Nickel (Ni)	Various	Sample and Report Only	Sample and Report Only	20	11.75	3.5	3.5	3.5	0.05	-	mg/L
Selenium (Se)	Various	Sample and Report Only	Sample and Report Only	1	0.75	0.5	0.5	0.5	0.5	-	mg/L
Silver (Ag)	Various	Sample and Report Only	Sample and Report Only	5	5	5	5	5	0.005	-	mg/L
Zinc (Zn)	Various	Sample and Report Only	Sample and Report Only	250	150	50	50	50	0.1	-	mg/L
Chromium VI (Cr VI)	Various	Sample and Report Only	Sample and Report Only	5	3.75	2.5	2.5	2.5	0.001	-	mg/L
Mercury (Hg)	Various	Sample and Report Only	Sample and Report Only	0.2	0.125	0.05	0.05	0.05	0.001	-	mg/L

Remark

ND = Not detected
 NA = Not applicable
 NC = Not conducted
 - = Not required to be tested
 (S) = The analysis was performed by a subcontracted laboratory assessed as competent
 # = Non accredited parameter



ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

ZDHC Wastewater Sampling Information:

Factory Name: Vivek Textile Processing
 Factory Address: NO.324/1, Hosur Main Road, Madhuvada, Bangalore-560068
 Sampling Location: Treated Wastewater Effluent Sludge
 GPS Data: Latitude: 12.91945 Longitude: 77.6225
 Sampling Date: 16.05.2024
 Sampling Time: 10:40 AM TO 02:40 PM
 Sample ID: _____

Sampler Information:

Sampler Name: Manikandan G
 Sampler E-mail: manikandan.g.2008@gmail.com
 ZDHC Sampler Accreditation Cert. No.: ZDHC-A-24-E-C001068-P3882-E21E2

Sampling Method:

Grab Hour Composite Others, please specify _____
 Autosampler Manual

Discharge Method:

Direct Indirect (w/pretreatment) Indirect (w/o pretreatment) Zero Liquid Discharge (ZLD)

ZDHC Wastewater Sampling Field Testing QA/QC

Parameter	ZDHC Wastewater Sampling Field Testing QA/QC		Accuracy %
	LCS Known	LCS Measured	
pH			
Total Chlorine			

ZDHC Wastewater Flow Device Dimensions

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

ZDHC Wastewater Sample Collection Field Test Measurements

Sampling Time (Hour)	Temp (°C)		pH	Visible Colour	Particulate Foam (YES/NO)	Dissolved Oxygen (mg/L)	Total Chlorine (mg/L)	Wastewater Flow Meter (L/min)	Alternate Measured Flow	
	Wastewater Discharge	Receiving Water							Depth (cm)	Velocity (m/s)
	0	33°C								
1	33°C		9.5	Light Blue	NO					
2	34°C		7.7	Grey	NO					
3	40°C		10.0	Black	NO					
4	35°C		9.0	Blue	NO					
5	34°C		6.7	Light Green	NO					
6	35°C		9.5	Black	NO					
Average	35°C		8.7	Black	NO					

ZDHC Wastewater Sampling - Facility Confirmation

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

Factory Name: Vivek Textile Processing Sampler Name: Manikandan G
 Factory Representative Name: _____ ZDHC Sampler Accreditation Cert. No.: ZDHC-A-24-E-C001068-P3882-E21E2
 Factory Representative Signature and Stamp: _____ Sampler Signature: _____



Issue 1 / Dec 2023
RBT5-WW-D-065



ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

ZDHC Wastewater Sampling Information:

Factory Name: Vivek Textile Processing
 Factory Address: No. 324/1, Hosur Main Road, Madhavala, Bangalore - 560062
 Sampling Location: Untreated Wastewater Effluent Sludge Discharge Water
 GPS Data: Latitude: 12.91929 Longitude: 77.62248
 Sampling Date: 16.05.2024
 Sampling Time: 03:45 PM
 Sample ID: _____

Sampler Information:

Sampler Name: Manikandan G
 Sampler E-mail: manigandharaj2008@gmail.com
 ZDHC Sampler Accreditation Cert. No.: ZDHC-A-24-E-C001068-P3882-F21E2

Sampling Method:

Grab 6-hour Composite Others, please specify: _____
 Autosampler Manual

Discharge Method:

Direct Indirect (w/o pretreatment) Indirect (w/ pretreatment) Zero Liquid Discharge (ZLD)

ZDHC Wastewater Sampling Field Testing QA/QC

ZDHC Wastewater Sampling Field Testing QA/QC			
Parameter	LCS Known	LCS Measured	Accuracy %
pH			
Total Chlorine			

ZDHC Wastewater Flow Device Dimensions

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

ZDHC Wastewater Sample Collection Field Test Measurements

Sampling Time (Hours)	Temp (°C)		pH	Visible Color	Persistent Foam (Yashak)	Dissolved Oxygen (mg/L)	Total Chlorine (mg/L)	Wastewater Flow Meter (L/min)	Alternate Measured Flow	
	Wastewater Discharge	Receiving Water							Depth (cm)	Velocity (cm/s)
0	29.6		8.9	Light green	Nil					
1										
2										
3										
4										
5										
6										
Average										

ZDHC Wastewater Sampling - Facility Confirmation

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

Factory Name: Vivek Textile Processing Sampler Name: Manikandan G
 Factory Representative Name: _____ ZDHC Sampler Accreditation Cert. No.: ZDHC-A-24-E-C001068-P3882-F21E2
 Factory Representative Signature and Stamp: _____ Sampler Signature: _____



Issue 1 / Dec 2023
RST5-WW-D-055



ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

ZDHC Wastewater Sampling Information:

Factory Name: VIVEK Textile Processing
Factory Address: NO. 32/1, HOSUR MAIN ROAD, MADIWALA, BANGALORE - 560088
 Untreated Wastewater Effluent Effluents
Sampling Location: Latitude: 12.91986 Longitude: 77.62247
GPS Date: 16.05.2024
Sampling Date: 03:53 PM
Sampling Time:
Sample ID:

Sampler Information:

Sampler Name: Manikandan G
Sampler E-mail: manigavindaraj2000@gmail.com
ZDHC Sampler Accreditation Cert. No.: ZDHC-A-24-E-C001068-R3B82-F21E2

Sampling Method:

Grab 8-hour Composite Others, please specify _____
 Autosampler Manual

Discharge Method:

Direct Indirect (w/pretreatment) Indirect (w/o pretreatment) Zero Liquid Discharge (ZLD)

ZDHC Wastewater Sampling Field Testing QA/QC

ZDHC Wastewater Sampling Field Testing QA/QC			
Parameter	LCS Known	LCS Measured	Accuracy %
pH			
Total Chlorine			

ZDHC Wastewater Flow Device Dimensions

Measurement (cm)	ZDHC Wastewater Flow Device Dimensions			
	Meter	Pipe (D)	Flume (W)	Wier (W)
Diameter	NA	NA	NA	NA
Depth	NA	NA	NA	NA

ZDHC Wastewater Sample Collection Field Test Measurements

Sampling Time (Hours)	ZDHC Wastewater Sample Collection Field Test Measurements									
	Temp (°C)		pH	Visible Colour	Persistent Foam (Yes/No)	Dissolved Oxygen (mg/L)	Total Chlorine (mg/L)	Wastewater Flow Meter (L/min)	Alternate Measured Flow	
	Wastewater Discharge	Roaching Water							Depth (cm)	Velocity (m/s)
0										
1										
2										
3										
4										
5										
6										
Average										

ZDHC Wastewater Sampling - Facility Confirmation

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

Factory Name: VIVEK Textile Processing **Sampler Name:** Manikandan G
Factory Representative Name: [Signature] **ZDHC Sampler Accreditation Cert. No.:** ZDHC-A-24-E-C001068-R3B82-F21E2
Factory Representative Signature and Stamp: [Signature] **Sampler Signature:** [Signature]



Issue 1 / Dec 2023
RST9-WW-0-065



Chain of Custody (ZDHC WW Test Program)

Page _____ of _____

Factory Name Yivek Textile Processing
 Factory Address NO. 324/1 Hosur Main road, Madivala, Bangalore 560062
 Nature of Sample Incoming Water (Inlet) / Untreated Wastewater (Before Treatment) / Effluent (After Treatment) / Sludge
 Sampling Date 16.05.2024

Section A : Sample Information

Sample ID	Sampling Time	Sampling Location	Sample Containers and Preservatives													Testing Parameters	Storage Conditions			
			1L Bottle (PET/PP)*	500mL Bottle (PET/PP)*	100mL Bottle (PET/PP)*	1L Bottle (PET/PP)*	500mL Bottle (PET/PP)*	100mL Bottle (PET/PP)*	1L Bottle (PET/PP)*	500mL Bottle (PET/PP)*	100mL Bottle (PET/PP)*	1L Bottle (PET/PP)*	500mL Bottle (PET/PP)*	100mL Bottle (PET/PP)*	1L Bottle (PET/PP)*			500mL Bottle (PET/PP)*	100mL Bottle (PET/PP)*	Other
Water	10:40 AM	Near BOT screening																		
Water		Chlorine Chamber																		
Discharge	03:40 PM	BWSSB Pipeline Chamber																		
Water																				
Sludge	01:30 PM	Sludge drying bed																		
Incoming	04:00 PM	Chemical room tap																		
Water																				

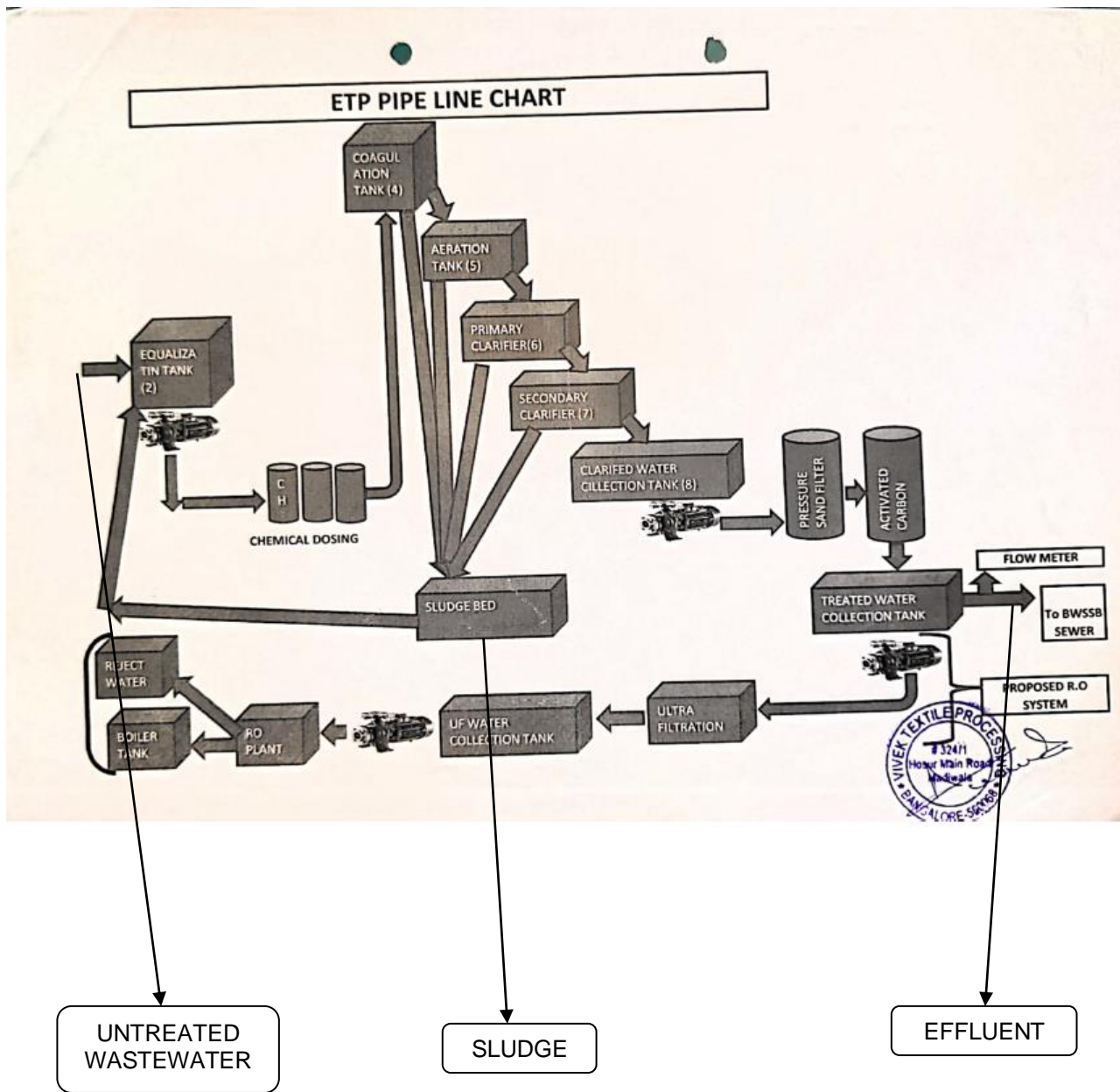
*Please delete the inappropriate one (i.e. * - Plastic, G = Glass (Amber), FP = Fluoropolymer, PTFE = Teflon)
 Sampling Conducted By: SGS / Applicant / Other Signature and Company Chop:

Section B : Sample Delivery
 Duration: _____ am / pm to _____ am / pm
 Storage Condition: { Cool in ice box } { Ambient } { Other }
 Sample Delivery Conducted By: SGS / Applicant / Other Name and Signature of Sample Deliverer: _____

Section C : Sample Received (For Laboratory Personnel Only)
 Sample Received Date, Time and Condition: _____
 Special Observations or Non-compliance with Sample Handling Requirements: _____



PIPING PLAN





SAMPLING PHOTOS

<u>UNTREATED WASTEWATER</u>	<u>EFFLUENT</u>
GPS Data: 12.91945 N, 77.6225 E	GPS Data: 12.91929 N, 77.62248 E
SAMPLING LOCATION, CLOSE-UP VIEW	SAMPLING LOCATION, CLOSE-UP VIEW
	
SAMPLING LOCATION, FAR VIEW	SAMPLING LOCATION, FAR VIEW
	



SLUDGE

GPS Data: 12.91936 N, 77.62247 E

SAMPLING LOCATION, CLOSE-UP VIEW



SAMPLING LOCATION, FAR VIEW

