

## TEST REPORT

### CLIENT DETAILS

**Client Name:** VICUNHA TEXTIL S.A.  
**Client Contact:** Carolina Silveira  
**Telephone:** (85) 40081714  
**E-mail:** carol.aparecida@vicunha.com.br  
**Address:** Av. Dr. Mendel Steinbruch, s/n Km 9 - Distrito Industrial, Maracanaú - CE

### LABORATORY DETAILS

**SGS Affiliate:** SGS do Brasil  
**SGS Contact:** Alessandra Shimizu  
**Telephone:** (11) 2664 9595  
**E-mail:** alessandra.shimizu@sgs.com  
**Address:** Av Piracema 1341 - G1 - Barueri - SP

### FACTORY DETAILS

**Factory Name:** Vicunha Textil S.A.  
**Factory Contact:** Carolina Silveira  
**Telephone:** (85) 40081714  
**E-mail:** carol.aparecida@vicunha.com.br  
**Address:** Av. Dr. Mendel Steinbruch, s/n Km 9 - Distrito Industrial, Maracanaú - CE  
**Types of Mills:** (1) Spinning / (2) Yarn Dyeing / (3) Fabric Dyeing Finishing Washing / (5) Washing  
**On-Site ETP:** Yes  
**Discharge Destination:** Municipal/Centralized ETP:  
**Name of Municipal/Centralized ETP:** CAGECE  
**Address of Municipal/Centralized ETP:** CE

### SAMPLE AND TESTING DETAILS

**Sampling Country:** SGS do Brasil  
**ZDHC Sampler's Certification No.:** Leandro (8F146507896)  
**Sampling Date:** 26-09-2023  
**Sample Received Date:** 26-09-2023  
**Test Performing Period:** 26-09-2023 - 30-10-2023  
**No. of Samples:** Water (2), Sludge (1)  
**Sample Descriptions:** Untreated wastewater  
 Effluent  
 Sludge  
**Sample Volume:** 18000 mL  
**Sampling Method:** Six-hour composite sample / Single grab  
**Testing Institute:** SGS do Brasil  
**Discharge Method:** Indirect Discharge

### OVERALL RESULTS

	Untreated Wastewater	Effluent	Sludge	Leachate
<b>Conventional Parameters / Anions / Metals:</b>	Not Tested	Fulfill Aspirational Limit	Sample and Report Only	Not Tested
<b>MRSL Parameters:</b>	Not Detected	Not Tested	Not Detected	Not Tested

### REMARKS

1. This test document cannot be reproduced in any way, except in full content, without prior approval in writing by the laboratory.
2. The results shown in this test report refer only to the sampling and the sample(s) tested unless otherwise stated.
3. Sample temperature was measured upon receiving and was within acceptance criteria.
4. All tests were performed within expected holding times.

Signed for and on behalf of SGS do Brasil

**Alessandra Shimizu**  
**Technical Manager**  
 SGS do Brasil Ltda.

### RESULT SUMMARY

Factory Name: VICUNHA TEXTIL S.A.

Factory Address:v.Dr. Mendel Steinbruch,s/n Km 9 - Distrito Industrial, Maracanaú - CE

TEST ITEMS	Untreated Wastewater	Effluent	Sludge	Leachate
Conventional Parameters	N/A	Please refer to the information in TEST RESULTS	Please refer to the information in TEST RESULTS	N/A
Anions	N/A	N/A	O	N/A
Metals	N/A	O	O	N/A
Alkylphenol (AP) & Alkylphenol Ethoxylates (APEOs)	O	N/A	O	N/A
Anti-Microbials & Biocides	O	N/A	N/A	N/A
Chlorinated Paraffins	O	N/A	N/A	N/A
Chlorobenzenes and Chlorotoluenes	O	N/A	O	N/A
Chlorophenols	O	N/A	N/A	N/A
Dimethyl Formamide (DMFa)	O	N/A	N/A	N/A
Dyes - Carcinogenic or Equivalent Concern	O	N/A	N/A	N/A
Dyes - Disperse (Allergenic)	O	N/A	N/A	N/A
Dyes - Navy Blue Colourant	O	N/A	N/A	N/A
Flame Retardants	O	N/A	N/A	N/A
Glycols / Glycol Ethers	O	N/A	N/A	N/A
Halogenated Solvents	O	N/A	N/A	N/A
Organotin Compounds	O	N/A	N/A	N/A
Other / Miscellaneous Chemicals	O	N/A	N/A	N/A
Perfluorinated and Polyfluorinated Chemicals (PFCs)	O	N/A	N/A	N/A
Phthalates	O	O	N/A	N/A
Polycyclic Aromatic Hydrocarbons (PAHs)	O	O	O	N/A
Restricted Aromatic Amines	O	O	N/A	N/A
UV Absorbers	O	N/A	N/A	N/A
Volatile Organic Compounds (VOCs)	O	N/A	N/A	N/A

Note:

X - Detected

O - Not Detected

N/A - Not Tested / Not Applicable

### TEST RESULTS

Factory Name: VICUNHA TEXTIL S.A.

Factory Address:v.Dr. Mendel Steinbruch,s/n Km 9 - Distrito Industrial, Maracanaú - CE

	Sample ID						Factory Performances					
	002		003		-		-		004			
	Date of Sampling		26/09/2023		26/09/2023		-		-		26/09/2023	
	Sampling Location		Effluent Treatment St		Effluent Treatment St		-		-		Effluent Treatment St	
	Sampling Start Time		11:20		11:10		-		-		16:20	
	Sampling End Time		17:20		17:10		-		-		16:30	
Date of Sample Received		26/09/2023		26/09/2023		-		-		26/09/2023		
Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Effluent	Reporting Limit	Units	SludgeΦ	Untreated Wastewater	Effluent	Sludge	
<b>Conventional Parameters</b>												
pH	-	-	-	-	N/A	-	-	6,7	-	N/A	Sample and Report Only	
Temp-Difference	-	-	°C	-	N/A	-	-	-	-	-	N/A	
Temp-Discharge Pipe	-	-	°C	-	N/A	-	-	-	-	N/A	N/A	
Temp-Receiving Water	-	-	°C	-	N/A	-	-	-	-	-	N/A	
E. Coli	-	-	CFU/100mL	-	N/A	-	-	-	-	N/A	N/A	
Colour (436nm)	-	2	m <sup>-1</sup>	-	N/A	-	-	-	-	N/A	N/A	
Colour (525nm)	-	1	m <sup>-1</sup>	-	N/A	-	-	-	-	N/A	N/A	
Colour (620nm)	-	1	m <sup>-1</sup>	-	N/A	-	-	-	-	-	N/A	
Persistent Foam	-	Not Visible	-	-	N/A	-	-	-	-	N/A	N/A	
Ammonium-N	-	0.5	mg/L	-	N/A	-	-	-	-	N/A	N/A	
AOX	-	0.1	mg/L	-	N/A	-	-	-	-	N/A	N/A	
5-Days Biochemical Oxygen Demand (BOD <sub>5</sub> )	-	5	mg/L	-	N/A	-	-	-	-	N/A	N/A	
Chemical Oxygen Demand (COD)	-	40	mg/L	-	N/A	-	-	-	-	N/A	N/A	
Dissolved Oxygen (DO)	-	0,5	mg/L	-	N/A	-	-	-	-	N/A	N/A	
Oil & Grease	-	0.5	mg/L	-	N/A	-	-	-	-	N/A	N/A	
Total Phenols / Phenol Index	-	0.001	mg/L	-	N/A	-	-	-	-	N/A	N/A	
Total Chlorine	-	0,5	mg/L	-	N/A	-	-	-	-	N/A	N/A	

Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Effluent	Reporting Limit	Units	SludgeΦ	Untreated Wastewater	Effluent	Sludge
Total Dissolved Solids (TDS)	-	50	mg/L	-	N/A	-	-	-	-	N/A	N/A
Total Nitrogen	-	5	mg/L	-	N/A	-	-	-	-	N/A	N/A
Total Phosphorus	-	0.1	mg/L	-	N/A	-	-	-	-	N/A	N/A
Total Suspended Solids (TSS)	-	5	mg/L	-	N/A	-	-	-	-	N/A	N/A
Paint Filter Test	-	-	-	-	-	-	-	Not present	-	-	Sample and Report Only
Fecal Coliform	-	-	-	-	-	0,018	MPN/g	490	-	-	Sample and Report Only
<b>Anions</b>											
Chloride	-	1	mg/L	-	N/A	-	-	-	-	N/A	N/A
Cyanide, Total	-	0.05	mg/L	-	N/A	1	mg/kg	n.d.	-	N/A	Not Detected
Sulfate	-	5	mg/L	-	N/A	-	-	-	-	N/A	N/A
Sulfide	-	0.01	mg/L	-	N/A	-	-	-	-	N/A	N/A
Sulfite	-	0.2	mg/L	-	N/A	-	-	-	-	N/A	N/A
<b>Metals</b>											
Total Antimony (Sb)**	7440-36-0	0,01	mg/L	N/A	n.d.	5	mg/kg	n.d.	N/A	Fulfill Aspirational Limit	Not Detected
Chromium (VI)	7440-47-3, 18540-29-9	0,001	mg/L	N/A	n.d.	20	mg/kg	n.d.	N/A	Fulfill Aspirational Limit	Not Detected
Total Barium (Ba)	7440-39-3	35	mg/L	N/A	n.d.	200	mg/kg	n.d.	N/A	Sample and Report Only	Not Detected
Total Selenium (Se)	7782-49-2	0,5	mg/L	N/A	n.d.	5	mg/kg	n.d.	N/A	Sample and Report Only	Not Detected
Total Tin (Sn)	7440-31-5	0,1	mg/L	N/A	n.d.	-	-	-	N/A	Sample and Report Only	N/A
Total Arsenic (As)	7440-38-2	0,005	mg/L	N/A	n.d.	5	mg/kg	n.d.	N/A	Fulfill Aspirational Limit	Not Detected
Total Chromium (Cr)	7440-47-3	0,05	mg/L	N/A	n.d.	50	mg/kg	n.d.	N/A	Fulfill Aspirational Limit	Not Detected
Total Cobalt (Co)	7440-48-4	0,01	mg/L	N/A	n.d.	400	mg/kg	n.d.	N/A	Fulfill Aspirational Limit	Not Detected
Total Cadmium (Cd)	7440-43-9	0,01	mg/L	N/A	n.d.	1	mg/kg	n.d.	N/A	Fulfill Aspirational Limit	Not Detected
Total Copper (Cu)	7440-50-8	0,25	mg/L	N/A	n.d.	50	mg/kg	n.d.	N/A	Fulfill Aspirational Limit	Not Detected
Total Lead (Pb)	7439-92-1	0,01	mg/L	N/A	n.d.	5	mg/kg	n.d.	N/A	Fulfill Aspirational Limit	Not Detected

Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Effluent	Reporting Limit	Units	Sludge $\Phi$	Untreated Wastewater	Effluent	Sludge
Total Nickel (Ni)	7440-02-0	0,05	mg/L	N/A	n.d.	20	mg/kg	n.d.	N/A	Fulfill Aspirational Limit	Not Detected
Total Silver (Ag)	7440-22-4	0,005	mg/L	N/A	n.d.	50	mg/kg	n.d.	N/A	Fulfill Aspirational Limit	Not Detected
Total Zinc (Zn)	7440-66-6	0,1	mg/L	N/A	n.d.	400	mg/kg	n.d.	N/A	Fulfill Aspirational Limit	Not Detected
Total Mercury (Hg)	7439-97-6	0,001	mg/L	N/A	n.d.	1	mg/kg	n.d.	N/A	Fulfill Aspirational Limit	Not Detected
Total Boron (B)	7440-42-8	0,1	mg/L	N/A	n.d.	-	-	-	N/A	Fulfill Aspirational Limit	N/A
<b>Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers</b>											
Nonylphenol ethoxylates (NPEO)	9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	5	$\mu\text{g/L}$	n.d.	N/A	0,4	mg/kg	n.d.	Not Detected	N/A	Not Detected
Nonylphenol (NP), mixed isomers	104-40-5, 11066-49-2, 25154-52-3, 84852-15-3	5	$\mu\text{g/L}$	n.d.	N/A	0,4	mg/kg	n.d.	Not Detected	N/A	Not Detected
Octylphenol ethoxylates (OPEO)	9002-93-1, 9036-19-5, 68987-90-6	5	$\mu\text{g/L}$	n.d.	N/A	0,4	mg/kg	n.d.	Not Detected	N/A	Not Detected
Octylphenol (OP), mixed isomers	140-66-9, 1806-26-4, 27193-28-8	5	$\mu\text{g/L}$	n.d.	N/A	0,4	mg/kg	n.d.	Not Detected	N/A	Not Detected
<b>Anti- Microbials &amp; Biocides</b>											
o-Phenylphenol (+salts)	90-43-7	100	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Triclosan	3380-34-5	100	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Permethrin	Multiple	500	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
<b>Chlorinated Parafins</b>											
Medium-chain Chlorinated Paraffins (MCCPs) (C14-C17)	85535-85-9	500	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Short-chain Chlorinated Paraffin (SCCPs) (C10-C13)	85535-84-8	25	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
<b>Chlorobenzenes and Chlorotoluenes</b>											
Monochlorobenzenes	108-90-7	0,2	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
1,2-Dichlorobenzene	95-50-1	0,2	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
1,3-Dichlorobenzene	541-73-1	0,2	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
1,4-Dichlorobenzene	106-46-7	0,2	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
1,2,3-Trichlorobenzene	87-61-6	0,2	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
1,2,4-Trichlorobenzene	120-82-1	0,2	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A

Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Effluent	Reporting Limit	Units	SludgeΦ	Untreated Wastewater	Effluent	Sludge
1,3,5-Trichlorobenzene	108-70-3	0.2	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Pentachlorobenzene	608-93-5	0.2	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Hexachlorobenzene	118-74-1	0.2	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2-Chlorotoluene	95-49-8	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
3-Chlorotoluene	108-41-8	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
4-Chlorotoluene	106-43-4	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
2,3-Dichlorotoluene	32768-54-0	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
2,4-Dichlorotoluene	95-73-8	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
2,5-Dichlorotoluene	19398-61-9	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
2,6-Dichlorotoluene	118-69-4	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
3,4-Dichlorotoluene	95-75-0	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
3,5-Dichlorotoluene	25186-47-4	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
2,3,4-Trichlorotoluene	7359-72-0	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
2,3,6-Trichlorotoluene	2077-46-5	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
2,4,5-Trichlorotoluene	6639-30-1	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
2,4,6-Trichlorotoluene	23749-65-7	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
3,4,5-Trichlorotoluene	21472-86-6	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Pentachlorotoluene	877-11-2	0.2	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected

Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Effluent	Reporting Limit	Units	SludgeΦ	Untreated Wastewater	Effluent	Sludge
<b>Chlorophenols</b>											
2-Chlorophenol	95-57-8	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
3-Chlorophenol	108-43-0	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
4-Chlorophenol	106-48-9	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2,3-Dichlorophenol	576-24-9	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2,4-Dichlorophenol	120-83-2	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2,5-Dichlorophenol	583-78-8	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2,6-Dichlorophenol	87-65-0	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
3,4-Dichlorophenol	95-77-2	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
3,5-Dichlorophenol	591-35-5	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2,3,4-Trichlorophenol	15950-66-0	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2,3,5-Trichlorophenol	933-78-8	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2,3,6-Trichlorophenol	933-75-5	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2,4,5-Trichlorophenol	95-95-4	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2,4,6-Trichlorophenol	88-06-2	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
3,4,5-Trichlorophenol	609-19-8	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Pentachlorophenol (PCP)	87-86-5	0.5	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
<b>Dimethyl Formamide (DMFa)</b>											
Dimethyl formamide; N,N-dimethylformamide (DMFa)	68-12-2	1000	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
<b>Dyes - Carcinogenic or Equivalent Concern</b>											
Basic Violet 3 with >0.1% of Michler's Ketoneb	548-62-9	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
C.I. Acid Red 26	3761-53-3	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A

Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Effluent	Reporting Limit	Units	SludgeΦ	Untreated Wastewater	Effluent	Sludge
C.I. Acid Violet 49	1694-09-3	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
C.I. Basic Blue 26 with Michler's Ketone >0.1%	2580-56-5	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
C.I. Basic Green 4 (Malachite Green Chloride)^	569-64-2	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
C.I. Basic Green 4 (Malachite Green Oxalate)^	2437-29-8	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
C.I. Basic Green 4 (Malachite Green)	10309-95-2	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
C.I. Basic Red 9	569-61-9	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
C.I. Basic Violet 14	632-99-5	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
C.I. Direct Black 38	1937-37-7	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
C.I. Direct Blue 6	2602-46-2	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
C.I. Direct Red 28	573-58-0	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
C.I. Disperse Blue 1	2475-45-8	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
C.I. Disperse Blue 3	2475-46-9	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Orange 11	82-28-0	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
<b>Dyes - Disperse (Allergenic)</b>											
Disperse Blue 102	12222-97-8	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Blue 106	12223-01-7	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Blue 124	61951-51-7	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Blue 26	3860-63-7	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Blue 35	12222-75-2, 56524-77-7	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Blue 7	3179-90-6	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Brown 1	23355-64-8	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Orange 1	2581-69-3	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Orange 3	730-40-5	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A



Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Effluent	Reporting Limit	Units	SludgeΦ	Untreated Wastewater	Effluent	Sludge
Disperse Orange 37/59/76	13301-61-6	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Red 1	2872-52-8	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Red 11	2872-48-2	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Red 17	3179-89-3	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Yellow 1	119-15-3	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Yellow 3	2832-40-8	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Yellow 39	12236-29-2	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Yellow 49	54824-37-2	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Disperse Yellow 9	6373-73-5	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
<b>Dyes - Navy Blue Colourant</b>											
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
<b>Flame Retardants</b>											
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Hexabromocyclodecane (HBCDD)	3194-55-6	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Polybromobiphenyls (PBB)	59536-65-1	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Tetrabromobisphenol A (TBBPA)	79-94-7	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A

Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Effluent	Reporting Limit	Units	SludgeΦ	Untreated Wastewater	Effluent	Sludge
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Tris(2,3,-dibromopropyl)-phosphate (TRIS)	126-72-7	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Decabromobiphenyl (DecaBB)	13654-09-6	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Dibromobiphenyls (DiBB)	Multiple	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Octabromobiphenyls (OctaBB)	Multiple	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Dibromopropylether	21850-44-2	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Monobromobiphenyls (MonoBB)	Multiple	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Monobromodiphenylethers (MonoBDEs)	Multiple	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Nonabromobiphenyls (NonaBB)	Multiple	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Tribromodiphenylethers (TriBDEs)	Multiple	25	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Boric acid	10043-35-3, 11113-50-1	100	µg/L	See Total Boron (B) Result	N/A	-	-	-	Not Detected	N/A	N/A
Diboron trioxide	1303-86-2	100	µg/L	See Total Boron (B) Result	N/A	-	-	-	Not Detected	N/A	N/A
Disodium octaborate	12008-41-2	100	µg/L	See Total Boron (B) Result	N/A	-	-	-	Not Detected	N/A	N/A
Disodium tetraborate anhydrous	1303-96-4, 1330-43-4	100	µg/L	See Total Boron (B) Result	N/A	-	-	-	Not Detected	N/A	N/A
Tetraboron disodium heptaoxide, hydrate	12267-73-1	100	µg/L	See Total Boron (B) Result	N/A	-	-	-	Not Detected	N/A	N/A
<b>Glycols / Glycol Ethers</b>											
2-ethoxyethanol	110-80-5	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2-ethoxyethyl acetate	111-15-9	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2-methoxyethanol	109-86-4	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2-methoxyethylacetate	110-49-6	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A

Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Effluent	Reporting Limit	Units	SludgeΦ	Untreated Wastewater	Effluent	Sludge
2-methoxypropylacetate	70657-70-4	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Bis(2-methoxyethyl)-ether	111-96-6	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Ethylene glycol dimethyl ether	110-71-4	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Triethylene glycol dimethyl ether	112-49-2	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
<b>Halogenated Solvents</b>											
1,2-Dichloroethane	107-06-2	1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Methylene chloride	75-09-2	1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Tetrachloroethylene	127-18-4	1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Trichloroethylene	79-01-6	1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
<b>Organotin Compounds</b>											
Dipropyltin compounds (DPT)	Multiple	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Mono-, di- and tri-butyltin derivatives	Multiple	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Monobutyltin (MBT)	1118-46-3, 78763-54-9	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Dibutyltin (DBT)	1002-53-5	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Tributyltin (TBT)	56573-85-4	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Mono-, di- and tri-methyltin derivatives	Multiple	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Monomethyltin (MMT)	Multiple	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Dimethyltin (DMT)	Multiple	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Trimethyltin (TMT)	Multiple	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Mono-, di- and tri-octyltin derivatives	Multiple	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Monooctyltin (MOT)	15231-57-9	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Diocetyl tin (DOT)	94410-05-6, 12531-44-4	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Triocetyl tin (TOT)	Multiple	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Mono-, di- and tri-phenyltin derivatives	Multiple	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A

Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Effluent	Reporting Limit	Units	SludgeΦ	Untreated Wastewater	Effluent	Sludge
Monophenyltin (MPhT)	Multiple	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Diphenyltin (DPhT)	Multiple	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Triphenyltin (TPhT)	892-20-6, 668-34-8	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Tetrabutyltin compounds (TeBT)	Multiple	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Tripropyltin Compounds (TPT)	Multiple	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Tetraoctyltin compounds (TeOT)	Multiple	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Tricyclohexyltin (TCyHT)	Multiple	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Tetraethyltin Compounds (TeET)	Multiple	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
<b>Other/Miscellaneous Chemicals</b>											
AEEA [2-(2-aminoethylamino) ethanol]	111-41-1	500	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Bisphenol A	80-05-7	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Thiourea	62-56-6	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Quinoline	91-22-5	50	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Borate, zinc salt	12767-90-7	100	µg/L	See Total Zinc (Zn) & Total Boron (B) Results	N/A	-	-	-	Not Detected	N/A	N/A
<b>Perfluorinated and Polyfluorinated Chemicals (PFCs)</b>											
Perfluorooctane sulfonate (PFOS)****	1763-23-1	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
N-ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
N-methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Perfluorooctane sulfonamide (PFOSA)	754-91-6	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Perfluorooctanoic acid (PFOA)*****	335-67-1	0,01	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Methyl Perfluorooctanoate (Me-PFOA)	376-27-2	1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A

Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Effluent	Reporting Limit	Units	SludgeΦ	Untreated Wastewater	Effluent	Sludge
Ethyl Perfluorooctanoate (Et-PFOA)	3108-24-5	1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	27905-45-9	1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
8:2 Fluorotelomer methacrylate (8:2 FTMA)	1996-88-9	1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
<b>Phthalates - including all other esters of ortho-phthalic acid</b>											
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP)	71888-89-6, 84777-06-0	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)	68515-42-4, 68515-50-4	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Butyl benzyl phthalate (BBP)	85-68-7	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Di-isobutyl phthalate (DIBP)	84-69-5	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Di-isononyl phthalate (DINP)	28553-12-0	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Di-n-hexyl phthalate (DnHP)	84-75-3	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Di-n-octyl phthalate (DNOP)	117-84-0	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Di-n-pentylphthalates	131-18-0	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Di-n-propyl phthalate (DPRP)	131-16-8	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Di(ethylhexyl) phthalate (DEHP)	117-81-7	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Dibutyl phthalate (DBP)	84-74-2	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Diethyl phthalate (DEP)	84-66-2	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Diisopentylphthalates	605-50-5	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Dinonyl phthalate (DNP)	84-76-4	10	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A

Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Effluent	Reporting Limit	Units	SludgeΦ	Untreated Wastewater	Effluent	Sludge
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>											
Acenaphthene	83-32-9	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Acenaphthylene	208-96-8	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Anthracene	120-12-7	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Benzo[a]anthracene	56-55-3	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Benzo[a]pyrene (BaP)	50-32-8	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Benzo[b]fluoranthene	205-99-2	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Benzo[e]pyrene	192-97-2	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Benzo[ghi]perylene	191-24-2	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Benzo[j]fluoranthene	205-82-3	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Benzo[k]fluoranthene	207-08-9	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Chrysene	218-01-9	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Dibenz[a,h]anthracene	53-70-3	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Fluoranthene	206-44-0	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Fluorene	86-73-7	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Indeno[1,2,3-cd]pyrene	193-39-5	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Naphthalene	91-20-3	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Phenanthrene	85-01-8	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
Pyrene	129-00-0	1	µg/L	n.d.	N/A	0,2	mg/kg	n.d.	Not Detected	N/A	Not Detected
<b>Restricted Aromatic Amines (Cleavable from Azo-colourants)</b>											
2-naphthylamine	91-59-8	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2-Naphthylammoniumacetate ^	553-00-4	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2,4-xylidine	95-68-1	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2,4,5-trimethylaniline	137-17-7	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A

Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Effluent	Reporting Limit	Units	SludgeΦ	Untreated Wastewater	Effluent	Sludge
2,4,5-trimethylaniline hydrochloride <sup>^</sup>	21436-97-5	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2,6-xylydine	87-62-7	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
3,3'-dichlorobenzidine	91-94-1	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
3,3-dimethoxybenzidine	119-90-4	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
3,3-dimethylbenzidine	119-93-7	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
4-aminoazobenzene	60-09-3	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
4-aminodiphenyl	92-67-1	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
4-chloro-o-toluidine	95-69-2	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
4-chloro-o-toluidinium chloride <sup>^</sup>	3165-93-3	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
4-chloroaniline	106-47-8	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate <sup>^</sup>	39156-41-7	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
4-methoxy-m-phenylenediamine	615-05-4	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
4-methyl-m-phenylenediamine	95-80-7	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
4,4-methylenebis-(2-chloro-aniline)	101-14-4	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
4,4-methylenedi-o-toluidine	838-88-0	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
4,4-methylenedianiline	101-77-9	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
4,4-oxydianiline	101-80-4	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
4,4-thiodianiline	139-65-1	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
5-nitro-o-toluidine	99-55-8	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
6-methoxy-m-toluidine	120-71-8	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Benzidine	92-87-5	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
o-aminoazotoluene	97-56-3	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
o-anisidine	90-04-0	0,1	µg/L	n.d.	N/A	-	-	-	Not Detected	N/A	N/A

Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Effluent	Reporting Limit	Units	Sludge $\Phi$	Untreated Wastewater	Effluent	Sludge
o-toluidine	95-53-4	0,1	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
<b>UV Absorbers</b>											
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	100	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320)	3846-71-7	100	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
<b>Volatile Organic Compounds (VOC)</b>											
Benzene	71-43-2	1	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
m-cresol	108-39-4	1	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
o-cresol	95-48-7	1	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
p-cresol	106-44-5	1	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Xylene	1330-20-7	1	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A
Toluene	108-88-3	1	$\mu\text{g/L}$	n.d.	N/A	-	-	-	Not Detected	N/A	N/A

**Remarks:**

"n.d." = Not Detected

"N/A" = Not Tested / Not Applicable

"-" = Not Required to be Test

$\Phi$ Sludge results are reported based on dry mass

The tests Conventional Parameters and Anions were subcontracted to SGS do Brasil affiliate located in São Bernardo do Campo – SP.

Revision 01: Correction of Name of Municipal/Centralized ETP.

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**TEST PARAMETERS - TEST METHODS**

ITEMS	CAS No.	METHODS
<b>Conventional Parameters</b>		
pH	-	<u>Wastewater:</u> SM 4500 H <sup>+</sup> <u>Sludge:</u> USEPA 9045
Temperature	-	USEPA 170.1
E. Coli	-	SM 9221 B presumptive, confirm positive with SM 9221 F or G
Colour (436nm; 525nm; 620nm)	-	ISO 7887 B
Persistent Foam	-	-
Wastewater Flowrate	-	-
Ammonium-N	-	SM 4500 NH <sub>3</sub>
AOX	-	ISO 9562
5-Days Biochemical Oxygen Demand (BOD5)	-	SM 5210 B
Chemical Oxygen Demand (COD)	-	SM 5220 D
Dissolved Oxygen (DO)	-	SM 4500 O
Oil & Grease	-	USEPA 1664 Revision B
Total Phenols / Phenol Index	-	SM 5530 B
Total Chlorine	-	SM 4500 Cl <sup>-</sup>
Total Dissolved Solids (TDS)	-	SM 2540 C
Total Nitrogen	-	SM 4500 N B
Total Phosphorus	-	SM 4500 P J
Total Suspended Solids (TSS)	-	SM 2540 D
% Solids	-	USEPA 160.3
Paint Filter Test	-	USEPA SW-846
Fecal Coliform	-	USEPA 1681
<b>Anions</b>		
Chloride	-	SM 4500 Cl D
Cyanide	-	<u>Wastewater:</u> SM 4500 CN <u>Sludge:</u> Preparation: USEPA 9013 Analysis: USEPA 9213
Sulfate	-	SM 4500 SO <sub>4</sub> <sup>2-</sup> E
Sulfide	-	SM 4500 S <sup>2-</sup> D
Sulfite	-	SM 4500 SO <sub>3</sub> <sup>2-</sup> C



ITEMS	CAS No.	METHODS
Total Lead (Pb)	7439-92-1	<u>Wastewater:</u> USEPA 6010 C <u>Sludge:</u> Preparation: USEPA 3050 Analysis: USEPA 6010 D <u>Leachate:</u> Leachate Extraction: USEPA 1311 Analysis: USEPA 6010 C
Total Nickel (Ni)	7440-02-0	<u>Wastewater:</u> USEPA 6010 C <u>Sludge:</u> Preparation: USEPA 3050 Analysis: USEPA 6010 D <u>Leachate:</u> Leachate Extraction: USEPA 1311 Analysis: USEPA 6010 C
Total Silver (Ag)	7440-22-4	<u>Wastewater:</u> USEPA 6010 C <u>Sludge:</u> Preparation: USEPA 3050 Analysis: USEPA 6010 D <u>Leachate:</u> Leachate Extraction: USEPA 1311 Analysis: USEPA 6010 C
Total Zinc (Zn)	7440-66-6	<u>Wastewater:</u> USEPA 6010 C <u>Sludge:</u> Preparation: USEPA 3050 Analysis: USEPA 6010 D <u>Leachate:</u> Leachate Extraction: USEPA 1311 Analysis: USEPA 6010 C
Total Mercury (Hg)	7439-97-6	<u>Wastewater:</u> USEPA 6020 A - SIM <u>Sludge:</u> Preparation: USEPA 7471 B Analysis: USEPA 7471 B <u>Leachate:</u> Leachate Extraction: USEPA 1311 Analysis: USEPA 7471 B
Total Boron (B)	7440-42-8	USEPA 6010 C
<b>Alkylphenol (AP) &amp; Alkylphenol Ethoxylates (APEOs)</b>		
NP / OP	-	<u>Wastewater:</u> With reference to ISO 18857-2 (Modified dichloromethane extraction) <u>Sludge:</u> Preparation: With reference to USEPA 3550 - Ultrasonic Analysis: With reference to ISO 18857-2
NPEO / OPEO	-	<u>Wastewater:</u> With reference to ISO 18857-2 <u>Sludge:</u> Preparation: With reference to USEPA 3550 - Ultrasonic Analysis: With reference to ISO 18857-2
<b>Anti-Microbials &amp; Biocides</b>		
o-Phenylphenol (+salts)	90-43-7	With reference to USEPA 8270 E
Triclosan	3380-34-5	With reference to USEPA 8270 E
Permethrin	Multiple	With reference to USEPA 8270 E
<b>Chlorinated Paraffins</b>		
Medium-chain Chlorinated Paraffins (MCCPs) (C14-C17)	85535-85-9	Preparation: With reference to USEPA 3510 Analysis: With reference to ISO 18219-2:2021
Short-chain Chlorinated Paraffin (SCCPs) (C10-C13)	85535-84-8	Preparation: With reference to USEPA 3510 Analysis: With reference to ISO 18219-1:2021

ITEMS	CAS No.	METHODS
<b>Chlorobenzenes &amp; Chlorotoluenes</b>		<u>Wastewater:</u> With reference to USEPA 8260 D, USEPA 8270 E <u>Sludge:</u> Preparation: With reference to USEPA 3550 - Ultrasonic Clean-up: With reference to USEPA 3640 Analysis: With reference to USEPA 8270 E
<b>Chlorophenols</b>		With reference to USEPA 8270 E
<b>Dimethyl Formamide (DMFa)</b>	68-12-2	With reference to USEPA 8270 E
<b>Dyes - Carcinogenic or Equivalent Concern</b>		With reference to Liquid extraction followed by LC-MS
<b>Dyes - Disperse (Allergenic)</b>		With reference to Liquid extraction followed by LC-MS
<b>Dyes - Navy Blue Colourant</b>		With reference to Liquid extraction followed by LC-MS
<b>Flame Retardants</b>		<u>Boric acid, Diboron trioxide, Disodium octaborate, Disodium tetraborate anhydrous, Tetraboron disodium heptaoxide hydrate:</u> USEPA 6010 C <u>Others:</u> With reference to USEPA 8270 E
<b>Glycols / Glycol Ethers</b>		With reference to USEPA 8270 E
<b>Halogenated Solvents</b>		With reference to USEPA 8260 D
<b>Organotin Compounds</b>		<u>TeET:</u> With reference to ISO 17353 <u>Others:</u> With reference to ISO 17353
<b>Other/Miscellaneous Chemicals</b>		
AEEA [2-(2-aminoethylamino) ethanol]	111-41-1	With reference to Liquid extraction followed by LC-MS/MS
Bisphenol A	80-05-7	With reference to Liquid extraction followed by LC-MS
Thiourea	62-56-6	With reference to Liquid extraction followed by LC-MS
Quinoline	91-22-5	With reference to Liquid extraction followed by LC-MS
Borate, zinc salt	12767-90-7	USEPA 6010 C
<b>Perfluorinated and Polyfluorinated Chemicals (PFCs)</b>		<u>PFCs:</u> With reference to USEPA 537:2020 followed by LC-MS(-MS) <u>FTOH:</u> With reference to USEPA 8270 E
<b>Phthalates</b>		With reference to USEPA 8270 E
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>		<u>Wastewater:</u> With reference to USEPA 8270 E <u>Sludge:</u> Preparation: With reference to USEPA 3550 - Ultrasonic Clean-up: With reference to USEPA 3640 Analysis: With reference to USEPA 8270 E

ITEMS	CAS No.	METHODS
<b>Restricted Aromatic Amines (Cleavable from Azo-colourants)</b>		With reference to Reduction step with sodium dithionite, solvent extraction followed by GC-MS
<b>UV Absorbers</b>		With reference to USEPA 8270 E
<b>Volatile Organic Compounds (VOCs)</b>		
Benzene	71-43-2	With reference to USEPA 8260 D
m-cresol / o-cresol / p-cresol	108-39-4 / 94-48-7 / 106-44-5	With reference to USEPA 8270 E
Xylene	1330-20-7	With reference to USEPA 8260 D
Toluene	108-88-3	With reference to USEPA 8260 D

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**TEST PARAMETERS - LIMITS**

ITEMS	CAS No.	WASTEWATER			SLUDGE						
		Foundational	Progressive	Aspirational	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G
<b>Conventional Parameters</b>											
pH	-	6-9			Sample and Report Only	Sample and Report Only	5-11	5-11	5-11	6.5-9	6.5-9
Temperature	-	Δ+15°C	Δ+10°C	Δ+5°C				-			
E. Coli	-	126cfu/100mL						-			
Colour (436nm; 525nm; 620nm)	-	7;5;3m <sup>-1</sup>	5;3;2m <sup>-1</sup>	2;1;1m <sup>-1</sup>				-			
Persistent Foam	-	No indication of Persistent Foam in receiving water						-			
Wastewater Flowrate	-	15m <sup>3</sup> per day						-			
Ammonium-N	-	10mg/L	1mg/L	0.5mg/L				-			
AOX	-	3mg/L	0.5mg/L	0.1mg/L				-			
5-Days Biochemical Oxygen Demand (BOD5)	-	30mg/L	15mg/L	8mg/L				-			
Chemical Oxygen Demand (COD)	-	150mg/L	80mg/L	40mg/L				-			
Dissolved Oxygen (DO)	-	Sample and Report Only						-			
Oil & Grease	-	10mg/L	2mg/L	0.5mg/L				-			
Total Phenols / Phenol Index	-	0.5mg/L	0.01mg/L	0.001mg/L				-			
Total Chlorine	-	Sample and Report Only						-			
Total Dissolved Solids (TDS)	-	Sample and Report Only						-			
Total Nitrogen	-	20mg/L	10mg/L	5mg/L				-			
Total Phosphorus	-	3mg/L	0.5mg/L	0.1mg/L				-			
Total Suspended Solids (TSS)	-	50mg/L	15mg/L	5mg/L				-			
% 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
Paint Filter Test	-	-			Sample and Report Only	Sample and Report Only	Sample and Report Only	Pass	Pass	Pass	Sample and Report Only
Fecal Coliform	-	-			Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	1000MPN/g	1000MPN/g
<b>Anions</b>											
Chloride	-	Sample and Report Only						-			
Cyanide	-	0.2mg/L	0.1mg/L	0.05mg/L	Sample and Report Only	Sample and Report Only	100mg/kg	85mg/kg	70mg/kg	70mg/kg	70mg/kg
Sulfate	-	Sample and Report Only						-			
Sulfide	-	0.5mg/L	0.05mg/L	0.01mg/L				-			
Sulfite	-	2mg/L	0.5mg/L	0.2mg/L				-			
<b>Metals</b>											
Total Antimony (Sb)	7440-36-0	0.1mg/L	0.05mg/L	0.01mg/L	-	-	-	-	-	-	Sample and Report Only
Chromium (VI)	7440-47-3, 18540-29-9	0.05mg/L	0.005mg/L	0.001mg/L	-	-	-	-	-	-	50mg/kg
Total Barium (Ba)	7440-39-3	Sample and Report Only			-	-	-	-	-	-	Sample and Report Only
Total Selenium (Se)	7782-49-2	Sample and Report Only			-	-	-	-	-	-	100mg/kg

ITEMS	CAS No.	WASTEWATER			SLUDGE							
		Foundational	Progressive	Aspirational	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	
Total Tin (Sn)	7440-31-5	Sample and Report Only						-				
Total Arsenic (As)	7440-38-2	0.05mg/L	0.01mg/L	0.005mg/L	-	-	-	-	-	-	-	75mg/kg
Total Chromium (Cr)	7440-47-3	0.2mg/L	0.1mg/L	0.05mg/L	-	-	-	-	-	-	-	3000mg/kg
Total Cobalt (Co)	7440-48-4	0.05mg/L	0.02mg/L	0.01mg/L	-	-	-	-	-	-	-	Sample and Report Only
Total Cadmium (Cd)	7440-43-9	0.1mg/L	0.05mg/L	0.01mg/L	-	-	-	-	-	-	-	85mg/kg
Total Copper (Cu)	7440-50-8	1mg/L	0.5mg/L	0.25mg/L	-	-	-	-	-	-	-	4300mg/kg
Total Lead (Pb)	7439-92-1	0.1mg/L	0.05mg/L	0.01mg/L	-	-	-	-	-	-	-	840mg/kg
Total Nickel (Ni)	7440-02-0	0.2mg/L	0.1mg/L	0.05mg/L	-	-	-	-	-	-	-	420mg/kg
Total Silver (Ag)	7440-22-4	0.1mg/L	0.05mg/L	0.005mg/L	-	-	-	-	-	-	-	Sample and Report Only
Total Zinc (Zn)	7440-66-6	5mg/L	1mg/L	0.5mg/L	-	-	-	-	-	-	-	7500mg/kg
Total Mercury (Hg)	7439-97-6	0.01mg/L	0.005mg/L	0.001mg/L	-	-	-	-	-	-	-	57mg/kg
Total Boron (B)	7440-42-8		-					-				
<b>Alkylphenol (AP) &amp; Alkylphenol Ethoxylates (APEOs)</b>												
NP / OP	-		5µg/L		Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4mg/kg	0.4mg/kg	0.4mg/kg	0.4mg/kg	
NPEO / OPEO	-		5µg/L		Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4mg/kg	0.4mg/kg	0.4mg/kg	0.4mg/kg	
<b>Anti-Microbials &amp; Biocides</b>												
o-Phenylphenol (+salts)	90-43-7		100µg/L					-				
Triclosan	3380-34-5		100µg/L					-				
Permethrin	Multiple		500µg/L					-				
<b>Chlorinated Paraffins</b>												
Medium-chain Chlorinated Paraffins (MCCPs) (C14-C17)	85535-85-9		500µg/L					-				
Short-chain Chlorinated Paraffin (SCCPs) (C10-C13)	85535-84-8		25µg/L					-				
<b>Chlorobenzenes &amp; Chlorotoluenes</b>												
			0.2µg/L		Chlorotoluenes: Sample and Report Only	Chlorotoluenes: Sample and Report Only	Chlorotoluenes: Sample and Report Only	Chlorotoluenes: 0.2mg/kg	Chlorotoluenes: 0.2mg/kg	Chlorotoluenes: 0.2mg/kg	Chlorotoluenes: 0.2mg/kg	
<b>Chlorophenols</b>												
			0.5µg/L					-				
<b>Dimethyl Formamide (DMFa)</b>												
	68-12-2		1000µg/L					-				
<b>Dyes - Carcinogenic or Equivalent Concern</b>												
			500µg/L					-				

ITEMS	CAS No.	WASTEWATER			SLUDGE							
		Foundational	Progressive	Aspirational	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	
Dyes - Disperse (Allergenic)			50µg/L					-				
Dyes - Navy Blue Colourant			500µg/L					-				
Flame Retardants			Boric acid, Diboron trioxide, Disodium octaborate, Disodium tetraborate					-				
Glycols / Glycol Ethers			50µg/L					-				
Halogenated Solvents			1µg/L					-				
Organotin Compounds			0.01µg/L					-				
<b>Other/Miscellaneous Chemicals</b>												
AEEA [2-(2-aminoethylamino) ethanol]	111-41-1		500µg/L					-				
Bisphenol A	80-05-7		10µg/L					-				
Thiourea	62-56-6		50µg/L					-				
Quinoline	91-22-5		50µg/L					-				
Borate, zinc salt	12767-90-7		100µg/L					-				
<b>Perfluorinated and Polyfluorinated Chemicals (PFCs)</b>			PFCs: 0.01µg/L FTOH: 1µg/L					-				
Phthalates			10µg/L					-				
Polycyclic Aromatic Hydrocarbons (PAHs)			1µg/L			Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2mg/kg	0.2mg/kg	0.2mg/kg	0.2mg/kg
Restricted Aromatic Amines (Cleavable from Azo-colourants)			0.1µg/L					-				
UV Absorbers			100µg/L					-				
<b>Volatile Organic Compounds (VOCs)</b>												
Benzene	71-43-2		1µg/L					-				
m-cresol / o-cresol / p-cresol	108-39-4 / 94-48-7 / 106-44-5		1µg/L					-				
Xylene	1330-20-7		1µg/L					-				
Toluene	108-88-3		1µg/L					-				

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