

SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)

Number: BRA20241017-1 R1

Report Date: 23/10/2024

Factory's name:	Vicunha Textil S.A. (Vicunha - Unidade Maracanaú)
Factory's address:	Av. Dr. Mendel Steinbruch, Km 9 - Pajuçara, Maracanaú-CE - Brazil
Type of wastewater discharge:	Indirect discharge with Pretreatment
On-site Wastewater treatment plant:	With wastewater treatment plant
Average total industrial wastewater generated:	1840.02 m ³ /d
Date and time of the beginning of sampling:	12/09/2024, 13:30
Date and time of the end of sampling:	12/09/2024, 19:40
Date received sample ^A :	13/09/2024
Testing period:	From 13/09/2024 to 15/10/2024
Arrival temperature at laboratory:	8 °C
Sample type:	Composite Sample
Sample / Incoming water	Not Applicable
Sample / Untreated wastewater	Dark blue sample colour, composite sample at 13:40,14:40,15:40,16:40,17:40,18:40,19:40 Sampling location: Latitude -3°52'22"S, Longitude -38°35'.56"W
Sample / Effluent	Light green sample colour, composite sample at 13:30,14:30,15:30,16:30,17:30,18:30,19:30 Sampling location: Latitude -3°52'24"S, Longitude -38°35'.57"W
Sample / Sludge	Black sample colour, composite sample at 19:00 Sampling location: Latitude -3°53'00"S, Longitude -38°35'.57"W
Sampling laboratory:	Controle Analítico Análises Técnicas Ltda. (Intertek Group)
Testing laboratory:	Controle Analítico Análises Técnicas Ltda. (Intertek Group) / Intertek de Guatemala, S.A.
ZDHC sampler accreditation certification number:	ZDHC-A-23-E-C001068-R324A-69F41
Local legal standard name ^[a] :	Not Provided



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Local legal standard no. ^[a] :	Not Provided
Parameters (ZDHC WWSG V2.1, Table 2-3) exceeded local regulation:	No exceeded
Discharge permit provided:	Yes

Tests conducted:

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

Summary of test results:

Wastewater / MRSL – Test items	Testing period	Untreated Wastewater
Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	From 08/10/2024 to 14/10/2024	ND ^(S)
Anti-Microbials & Biocides	From 08/10/2024 to 14/10/2024	ND ^(S)
Chlorinated Parafins	From 08/10/2024 to 14/10/2024	ND ^(S)
Chlorobenzenes and Chlorotoluenes	From 08/10/2024 to 14/10/2024	ND ^(S)
Chlorophenols	From 08/10/2024 to 14/10/2024	ND ^(S)
Dimethyl Formamide (DMFa) (*)	From 08/10/2024 to 14/10/2024	ND ^(S)
Dyes – Carcinogenic or Equivalent Concern	From 08/10/2024 to 14/10/2024	ND ^(S)
Dyes – Disperse (Allergenic)	From 08/10/2024 to 14/10/2024	ND ^(S)
Dyes – Navy Blue Colourant	From 08/10/2024 to 14/10/2024	ND ^(S)
Flame Retardants	From 08/10/2024 to 14/10/2024	D ^(S)
Glycols / Glycol Ethers	From 08/10/2024 to 14/10/2024	ND ^(S)
Halogenated solvents	From 08/10/2024 to 14/10/2024	ND ^(S)
Organotin compounds	From 08/10/2024 to 14/10/2024	ND ^(S)
Other/Miscellaneous Chemicals (^)	From 08/10/2024 to 14/10/2024	ND ^(S)
Perfluorinated & Polyfluorinated chemicals (PFCs)	From 08/10/2024 to 14/10/2024	ND ^(S)
Phthalates (Ortho-phthalates)	From 08/10/2024 to 14/10/2024	ND ^(S)
Polycyclic aromatic hydrocarbons (PAHs)	From 08/10/2024 to 14/10/2024	ND ^(S)
Restricted Aromatic Amines (Cleavable from Azo- colourants)	From 08/10/2024 to 14/10/2024	ND ^(S)
UV Absorbers	From 08/10/2024 to 14/10/2024	ND ^(S)
Volatile Organic Compounds (VOC)	From 08/10/2024 to 14/10/2024	ND ^(S)



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Wastewater / Heavy metals - Test items	Testing period	Effluent		
		Foundational	Progressive	Aspirational
Chromium (VI)	From 04/10/2024 to 04/10/2024			Meet ⁽⁵⁾
Arsenic	From 13/09/2024 to 24/09/2024			Meet
Cadmium	From 13/09/2024 to 24/09/2024			Meet
Lead	From 13/09/2024 to 24/09/2024			Meet
Mercury	From 10/10/2024 to 10/10/2024			Meet ⁽⁵⁾

Sludge – Disposal Pathways
B

Sludge / Heavy metals - Test items	Testing period	Sludge (Total)	Sludge (Leachate)
Antimony	From 13/09/2024 to 27/09/2024	Report only, refer data	
Arsenic	From 13/09/2024 to 27/09/2024	Report only, refer data	
Barium	From 13/09/2024 to 27/09/2024	Report only, refer data	
Cadmium	From 13/09/2024 to 27/09/2024	Report only, refer data	
Cobalt	From 13/09/2024 to 27/09/2024	Report only, refer data	
Copper	From 13/09/2024 to 27/09/2024	Report only, refer data	
Lead	From 13/09/2024 to 27/09/2024	Report only, refer data	
Nickel	From 13/09/2024 to 27/09/2024	Report only, refer data	
Selenium	From 13/09/2024 to 27/09/2024	Report only, refer data	
Silver	From 13/09/2024 to 27/09/2024	Report only, refer data	
Chromium (total)	From 13/09/2024 to 27/09/2024	Report only, refer data	
Zinc	From 13/09/2024 to 27/09/2024	Report only, refer data	
Chromium VI	From 13/09/2024 to 27/09/2024	Report only, refer data	
Mercury	From 13/09/2024 to 27/09/2024	Report only, refer data	

Sludge / Anion - Test items	Testing period	Sludge
Cyanide	From 13/09/2024 to 16/09/2024	Report only, refer data

Sludge / Conventional parameters - Test items	Testing period	Sludge
pH	From 13/09/2024 to 24/09/2024	Report only, refer data
% Solids	From 13/09/2024 to 23/09/2024	Report only, refer data
Paint filter test	From 13/09/2024 to 24/09/2024	Report only, refer data
Faecal coliform	From 13/09/2024 to 13/09/2024	Report only, refer data



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Sludge / MRSL - Test items	Testing period	Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	From 08/10/2024 to 14/10/2024	Report only, refer data ^(S)
Polycyclic Aromatic Hydrocarbons (PAHs)	From 08/10/2024 to 14/10/2024	Report only, refer data ^(S)
Chlorotoluenes	From 08/10/2024 to 14/10/2024	Report only, refer data ^(S)

Remark:
ND = Not detected (less than ZDHC reporting limit for MRSL parameters) / Not detected (less than lab reporting limit for other parameters)
D = Detected
N/A = Not applicable (Out of scope according to ZDHC WWWSG v2.1)
NT = Not tested (Did not test according to applicant's request)
^(S) = The samples were subcontracted to Intertek de Guatemala, S.A. for testing.
^(T) = If sample temperature is greater than 8°C and less than 10°C when received from the laboratory.
^(TT) = If sample temperature is exceeded 10°C when received from the laboratory.
@ = Maximum holding time exceeded.
A = Sample received at Controle Analítico Análises Técnicas Ltda. (Intertek Group) laboratory.
(*) = Sample and report for mock leather.
(^)= Borate, zinc salt would report ND when total boron or total zinc less than 100 µg/L.
^(f) = On-site test by sampler.
^(a) = The local legal standard name and legal standard no. is referenced to discharge permit (or contractual agree by CETP) that provided by applicant.
This report shown the test result of the environment samples of above factory which collected on specific date and time. The results of this report shall not be used for any regulatory compliance purposes.

For and on behalf of
 Controle Analítico Análises Técnicas Ltda. (Intertek Group)



Erica Garcia, Softlines Manager



Sample / Wastewater

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

Test method information:

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

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Nonylphenol ethoxylates (NPEO)	127087-87-0	5	ND	µg/L
Nonylphenol (NP), mixed isomers	104-40-5	5	ND	µg/L
Octylphenol ethoxylates (OPEO)	68987-90-6	5	ND	µg/L
Octylphenol (OP), mixed isomers	140-66-9	5	ND	µg/L

2. Anti- Microbials & Biocides

Test method information:

OPP, Triclosan: With reference to USEPA 8270E Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS analysis; with reference to BS EN 12673-1999 an alternative method of solvent extraction and derivatization are included.

Permethrin: With reference to USEPA 8270E Solvent extraction, followed by GC-MS analysis; With reference to ISO 14154:2005 without derivatization and determination by LC-MS or LC-MS-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
o-Phenylphenol (+salts)	90-43-7	100	ND	µg/L
Triclosan	3380-34-5	100	ND	µg/L
Permethrin	Multiple	500	ND	µg/L

3. Chlorinated Paraffins

Test method information:

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

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

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



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4. Chlorobenzenes and Chlorotoluenes

Test method information:

1,2-Dichlorobenzene, other isomers of mono-, di-, tri-, tetra-, penta- and hexa- Chlorobenzene and mono-, di-, tri-, tetra- and penta- chlorotoluene: With reference to USEPA 8260D, USEPA 8270E, Purge and Trap, Head Space, Dichloromethane extraction followed by GC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
1,2-Dichlorobenzene	95-50-1	0.2	ND	µg/L
Other isomers of mono-, di-, tri-, tetra-, penta- and hexa- Chlorobenzene and mono-, di-, tri-, tetra- and penta- chlorotoluene	Multiple	0.2	ND	µg/L

5. Chlorophenols

Test method information:

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

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
2-Chlorophenol	95-57-8	0.5	ND	µg/L
3-Chlorophenol	108-43-0	0.5	ND	µg/L
4-Chlorophenol	106-48-9	0.5	ND	µg/L
2,3-Dichlorophenol	576-24-9	0.5	ND	µg/L
2,4-Dichlorophenol	120-83-2	0.5	ND	µg/L
2,5-Dichlorophenol	583-78-8	0.5	ND	µg/L
2,6-Dichlorophenol	87-65-0	0.5	ND	µg/L
3,4-Dichlorophenol	95-77-2	0.5	ND	µg/L
3,5- Dichlorophenol	591-35-5	0.5	ND	µg/L
2,3,4-Trichlorophenol	15950-66-0	0.5	ND	µg/L
2,3,5-Trichlorophenol	933-78-8	0.5	ND	µg/L
2,3,6-Trichlorophenol	933-75-5	0.5	ND	µg/L
2,4,5-Trichlorophenol	95-95-4	0.5	ND	µg/L
2,4,6-Trichlorophenol	88-06-2	0.5	ND	µg/L
3,4,5-Trichlorophenol	609-19-8	0.5	ND	µg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND	µg/L
Pentachlorophenol (PCP)	87-86-5	0.5	ND	µg/L



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6. Dimethyl Formamide (DMFa)

Test method information:

Dimethyl formamide; N,N-di-methylformamide (DMFa): With reference to EPA 8015, EPA 8270E.

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

(*) = Sample and report for mock leather.

7. Dyes – Carcinogenic or Equivalent Concern

Test method information:

All testes: By Liquid extraction, LC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Basic violet 3 with >0.1% of Michler's Ketone	548-62-9	500	ND	µg/L
C.I. Acid Red 26	3761-53-3	500	ND	µg/L
C.I. Acid Violet 49	1694-09-3	500	ND	µg/L
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	ND	µg/L
C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	ND	µg/L
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	ND	µg/L
C.I. Basic Green 4 (malachite green)	10309-95-2	500	ND	µg/L
C.I. Basic Red 9	569-61-9	500	ND	µg/L
C.I. Basic Violet 14	632-99-5	500	ND	µg/L
C.I. Direct Black 38	1937-37-7	500	ND	µg/L
C.I. Direct Blue 6	2602-46-2	500	ND	µg/L
C.I. Direct Red 28	573-58-0	500	ND	µg/L
C.I. Disperse Blue 1	2475-45-8	500	ND	µg/L
C.I. Disperse Blue 3	2475-46-9	500	ND	µg/L
Disperse Orange 11	82-28-0	500	ND	µg/L



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8. Dyes – Disperse (Allergenic)

Test method information:

All tests: By Liquid extraction, LC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Disperse Blue 102	12222-97-8	50	ND	µg/L
Disperse Blue 106	12223-01-7	50	ND	µg/L
Disperse Blue 124	61951-51-7	50	ND	µg/L
Disperse Blue 26	3860-63-7	50	ND	µg/L
Disperse Blue 35	12222-75-2 56524-77-7	50	ND	µg/L
Disperse Blue 7	3179-90-6	50	ND	µg/L
Disperse Brown 1	23355-64-8	50	ND	µg/L
Disperse Orange 1	2581-69-3	50	ND	µg/L
Disperse Orange 3	730-40-5	50	ND	µg/L
Disperse Orange 37/59/76	13301-61-6	50	ND	µg/L
Disperse Red 1	2872-52-8	50	ND	µg/L
Disperse Red 11	2872-48-2	50	ND	µg/L
Disperse Red 17	3179-89-3	50	ND	µg/L
Disperse Yellow 1	119-15-3	50	ND	µg/L
Disperse Yellow 3	2832-40-8	50	ND	µg/L
Disperse Yellow 39	12236-29-2	50	ND	µg/L
Disperse Yellow 49	54824-37-2	50	ND	µg/L
Disperse Yellow 9	6373-73-5	50	ND	µg/L

9. Dyes – Navy Blue Colourant

Test method information:

All tests: By Liquid extraction, LC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Component 1: C ₃₉ H ₂₃ Cl-CrN ₇ O ₁₂ S ₂ Na	118685-33-9	500	ND	µg/L
Component 2: C ₄₆ H-30CrN ₁₀ O ₂₀ S ₂ 3Na	Not Allocated	500	ND	µg/L



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10. Flame retardants

Test method information:

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

Borate salt: determined as total boron via ICP analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	25	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	ND	µg/L
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	ND	µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	ND	µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	25	ND	µg/L
Octabromobiphenyls (OctaBB)	Multiple	25	ND	µg/L
Dibromopropylether	21850-44-2	25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	ND	µg/L
Monobromobiphenyls (MonoBB)	Multiple	25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Multiple	25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	25	ND	µg/L
Boric acid **	10043-35-3 11113-50-1	100 in Boron	ND	µg/L
Diboron trioxide **	1303-86-2	100 in Boron	119.06	µg/L
Disodium octaborate **	12008-41-2	100 in Boron	119.06	µg/L



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Disodium tetraborate anhydrous **	1303-96-4 1330-43-4	100 in Boron	119.06	µg/L
Tetraboron disodium heptaoxide, hydrate **	12267-73-1	100 in Boron	119.06	µg/L

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

11. Glycols / Glycol Ethers

Test method information:

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

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
2-ethoxyethanol	110-80-5	50	ND	µg/L
2-ethoxyethyl acetate	111-15-9	50	ND	µg/L
2-methoxyethanol	109-86-4	50	ND	µg/L
2-methoxyethylacetate	110-49-6	50	ND	µg/L
2-methoxypropylacetate	70657-70-4	50	ND	µg/L
Bis(2-methoxyethyl)-ether	111-96-6	50	ND	µg/L
Ethylene glycol dimethyl ether	110-71-4	50	ND	µg/L
Triethylene glycol dimethyl ether	112-49-2	50	ND	µg/L

12. Halogenated solvents

Test method information:

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

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
1,2-Dichloroethane	107-06-2	1	ND	µg/L
Methylene chloride	75-09-2	1	ND	µg/L
Tetrachloroethylene	127-18-4	1	ND	µg/L
Trichloroethylene	79-01-6	1	ND	µg/L



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13. Organotin compounds

Test method information:

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

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Dipropyltin compounds (DPT)	Multiple	0.01	ND	µg/L
Mono-, di- and tri-butyltin derivatives	Multiple	0.01	ND	µg/L
Mono, di-, and tri-methyltin derivatives	Multiple	0.01	ND	µg/L
Mono, di-, and tri-octyltin derivatives	Multiple	0.01	ND	µg/L
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01	ND	µg/L
Tetrabutyltin compounds (TeBT)	Multiple	0.01	ND	µg/L
Tripropyltin Compounds (TPT)	Multiple	0.01	ND	µg/L
Tetraoctyltin compounds (TeOT)	Multiple	0.01	ND	µg/L
Tricyclohexyltin (TCyHT)	Multiple	0.01	ND	µg/L
Tetraethyltin Compounds (TeET)	Multiple	0.01	ND	µg/L

14. Other/Miscellaneous Chemicals

Test method information:

Others: With reference to Liquid extraction, LC-MS-MS analysis.

Borate salt: determined as total boron and total zinc via ICP analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	ND	µg/L
Bisphenol A	80-05-7	10	ND	µg/L
Thiourea	62-56-6	50	ND	µg/L
Quinoline	91-22-5	50	ND	µg/L
Borate, zinc salt ^^	12767-90-7	100 in Boron	Boron: 119.06	µg/L
		100 in Zinc	Zinc: ND	µg/L

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



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15. Perfluorinated & polyfluorinated chemicals (PFCs)

Test method information:

PFCs PFOA: With reference to EPA 537:2020 with LC-MSMS with acetic anhydride followed by GC-MS

PFOA: With reference to BS EN 12673-1999, EPA 8270, GC-MS, Derivatization with acetic anhydride followed by GCMS

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

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

Test method information:

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

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters (DHNUP)	68515-42-4	10	ND	µg/L
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	10	ND	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	ND	µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND	µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND	µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND	µg/L
Di-isobutyl phthalate (DIBP)	84-69-5	10	ND	µg/L
Di-isononyl phthalate (DINP)	28553-12-0	10	ND	µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	ND	µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND	µg/L
Di-n-pentylphthalates	131-18-0	10	ND	µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND	µg/L
Di(ethylhexyl) phthalate (DEHP)	117-81-7	10	ND	µg/L
Dibutyl phthalate (DBP)	84-74-2	10	ND	µg/L
Diethyl phthalate (DEP)	84-66-2	10	ND	µg/L
Diisopentylphthalates	605-50-5	10	ND	µg/L
Dinonyl phthalate (DNP)	84-76-4	10	ND	µg/L



SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)

Number: BRA20241017-1 R1

17. Polycyclic aromatic hydrocarbons (PAHs)

Test method information:

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

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Acenaphthene	83-32-9	1	ND	µg/L
Acenaphthylene	208-96-8	1	ND	µg/L
Anthracene	120-12-7	1	ND	µg/L
Benzo[a]anthracene	56-55-3	1	ND	µg/L
Benzo[a]pyrene (BaP)	50-32-8	1	ND	µg/L
Benzo[b]fluoranthene	205-99-2	1	ND	µg/L
Benzo[e]pyrene	192-97-2	1	ND	µg/L
Benzo[ghi]perylene	191-24-2	1	ND	µg/L
Benzo[j]fluoranthene	205-82-3	1	ND	µg/L
Benzo[k]fluoranthene	207-08-9	1	ND	µg/L
Chrysene	218-01-9	1	ND	µg/L
Dibenz[a,h]anthracene	53-70-3	1	ND	µg/L
Fluoranthene	206-44-0	1	ND	µg/L
Fluorene	86-73-7	1	ND	µg/L
Indeno[1,2,3-cd]pyrene	193-39-5	1	ND	µg/L
Naphthalene	91-20-3	1	ND	µg/L
Phenanthrene	85-01-8	1	ND	µg/L
Pyrene	129-00-0	1	ND	µg/L

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

Test method information:

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

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
2-Naphthylamine	91-59-8	0.1	ND	µg/L
2-Naphthylammoniumacetate	553-00-4	0.1	ND	µg/L
2,4-Xylidine	95-68-1	0.1	ND	µg/L
2,4,5-Trimethylaniline	137-17-7	0.1	ND	µg/L
2,4,5-Trimethylaniline hydrochloride	21436-97-5	0.1	ND	µg/L
2,6-Xylidine	87-62-7	0.1	ND	µg/L
3,3'-Dichlorobenzidine	91-94-1	0.1	ND	µg/L



SOFTLINES WASTEWATER TESTING
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3,3'-Dimethoxybenzidine	119-90-4	0.1	ND	µg/L
3,3'-Dimethylbenzidine	119-93-7	0.1	ND	µg/L
4-Aminoazobenzene	60-09-3	0.1	ND	µg/L
4-Aminodiphenyl	92-67-1	0.1	ND	µg/L
4-Chloro-o-toluidine	95-69-2	0.1	ND	µg/L
4-Chloro-o-toluidinium chloride	3165-93-3	0.1	ND	µg/L
4-Chloroaniline	106-47-8	0.1	ND	µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisoole sulphate	39156-41-7	0.1	ND	µg/L
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND	µg/L
4-methyl-m-phenylenediamine	95-80-7	0.1	ND	µg/L
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	ND	µg/L
4,4'-methylenedi-o-toluidine	838-88-0	0.1	ND	µg/L
4,4'-methylenedianiline	101-77-9	0.1	ND	µg/L
4,4'-Oxydianiline	101-80-4	0.1	ND	µg/L
4,4'-Thiodianiline	139-65-1	0.1	ND	µg/L
5-Nitro-o-toluidine	99-55-8	0.1	ND	µg/L
6-methoxy-m-toluidine	120-71-8	0.1	ND	µg/L
Benzidine	92-87-5	0.1	ND	µg/L
o-Aminoazotoluene	97-56-3	0.1	ND	µg/L
o-Anisidine	90-04-0	0.1	ND	µg/L
o-Toluidine	95-53-4	0.1	ND	µg/L

19. UV Absorbers

Test method information:

All tests: With reference to USEPA 8270, ISO 22032, USEPA 527 and USEPA 8321B, dichloromethane extraction GC-MS or LC-MS-MS analysis.

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



SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)

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20. Volatile organic compounds (VOCs)

Test method information:

Benzene: ISO 11423-1, Headspace or Purge and trap, GC-MS analysis.

m-cresol: USEPA 8270, Headspace or Purge and trap, GC-MS analysis.

o-cresol: USEPA 8270, Headspace or Purge and trap, GC-MS analysis.

p-cresol: USEPA 8270, Headspace or Purge and trap, GC-MS analysis.

Xylene: USEPA 8270, Headspace or Purge and trap, GC-MS analysis.

Toluene: ISO 11423-1, Headspace or Purge and trap, GC-MS analysis.

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

(*) = Sample and report for mock leather.

21. Heavy metals

Test method information:

All heavy metals, except Chromium (VI): ISO 17294

Chromium (VI): ISO 18412

Chemical substances	Limit			Legal * Requirement	Lab reporting limit (mg/L)	Effluent	Unit
	Foundational	Progressive	Aspirational				
Chromium (VI)	0.05 mg/L	0.005 mg/L	0.001 mg/L	N/A	0.001	ND	mg/L
Arsenic	0.05 mg/L	0.01 mg/L	0.005 mg/L	N/A	0.005	ND	mg/L
Cadmium	0.1 mg/L	0.05 mg/L	0.01 mg/L	N/A	0.01	ND	mg/L
Lead	0.1 mg/L	0.05 mg/L	0.01 mg/L	N/A	0.01	ND	mg/L
Mercury	0.01 mg/L	0.005 mg/L	0.001 mg/L	N/A	0.001	ND	mg/L



SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)

Number: BRA20241017-1 R1

Sample / Sludge

Sludge flux (weight/time) and / or flow data volume/time: 4.72 hg/hr

1. Heavy metals

Test method information:

Other heavy metals: USEPA 3050 + USEPA 6020B

Chromium VI: USEPA 3060A + USEPA 7196

Mercury: USEPA 3051A + USEPA 6020B

Chemical substances	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Antimony	5	0.001	ND	mg/kg
Arsenic	5	0.001	ND	mg/kg
Barium	200	0.001	13.68	mg/kg
Cadmium	1	0.001	ND	mg/kg
Cobalt	400	0.001	ND	mg/kg
Copper	50	0.001	8.82	mg/kg
Lead	5	0.001	4.16	mg/kg
Nickel	20	0.001	31.23	mg/kg
Selenium	5	0.001	ND	mg/kg
Silver	50	0.001	ND	mg/kg
Total Chromium	50	0.001	17.35	mg/kg
Zinc	400	0.001	16.75	mg/kg
Chromium (VI)	20	0.001	ND	mg/kg
Mercury	1	0.001	ND	mg/kg

2. Anions

Test method information:

Cyanide: USEPA 9013 + USEPA 9213

Chemical substances	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Cyanide	20	0.001	ND	mg/kg



SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)

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3. Conventional parameters

Test method information:

pH: USEPA SW 9045D

% Solids: USEPA 160.3

Paint Filter Test: USEPA 9095B

Fecal Coliform: USEPA 1681

Chemical substances	Lab reporting limit (Dry weight)	Sludge (Dry weight)	Unit
pH	N/A	8.47	N/A
% Solids	N/A	17.15	%
Paint Filter Test ^	N/A	Pass	N/A
Fecal Coliform	N/A	7,6 x 10 ³	MPN/g

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

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

Test method information:

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

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	0.4	ND	mg/kg
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	0.4	ND	mg/kg
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	0.4	ND	mg/kg
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	0.4	ND	mg/kg



5. Polycyclic aromatic hydrocarbons (PAHs)

Test method information:

All tests: With reference to US EPA 3540/3541, US EPA 3550, US EPA 3640, US EPA 827, with GC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Acenaphthene	83-32-9	0.2	ND	mg/kg
Acenaphthylene	208-96-8	0.2	ND	mg/kg
Anthracene	120-12-7	0.2	ND	mg/kg
Benzo[a]anthracene	56-55-3	0.2	ND	mg/kg
Benzo[a]pyrene (BaP)	50-32-8	0.2	ND	mg/kg
Benzo[b]fluoranthene	205-99-2	0.2	ND	mg/kg
Benzo[e]pyrene	192-97-2	0.2	ND	mg/kg
Benzo[ghi]perylene	191-24-2	0.2	ND	mg/kg
Benzo[j]fluoranthene	205-82-3	0.2	ND	mg/kg
Benzo[k]fluoranthene	207-08-9	0.2	ND	mg/kg
Chrysene	218-01-9	0.2	ND	mg/kg
Dibenz[a,h]anthracene	53-70-3	0.2	ND	mg/kg
Fluoranthene	206-44-0	0.2	ND	mg/kg
Fluorene	86-73-7	0.2	ND	mg/kg
Indeno[1,2,3-cd]pyrene	193-39-5	0.2	ND	mg/kg
Naphthalene	91-20-3	0.2	ND	mg/kg
Phenanthrene	85-01-8	0.2	ND	mg/kg
Pyrene	129-00-0	0.2	ND	mg/kg

6. Chlorotoluenes

Test method information:

Other isomers of mono-, di-, tri-, tetra- and penta- chlorotoluene: With reference to US EPA 3540/3541, US EPA 3550, US EPA 3650, US EPA 827, with GC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Other isomers of mono-, di-, tri-, tetra- and penta- chlorotoluene	Multiple	0.2	ND	mg/kg



7. Leachate heavy metals

Test method information:

Other metals: EPA 1311 followed by Acid digestion EPA 3051A, with ICP-OES, ICP-MS or , ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010c, USEPA 6020a analysis.

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

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

Chemical substances	Lab reporting limit (mg/L)	Sludge	Unit
Arsenic	0.5	N/A	mg/L
Cadmium	0.15	N/A	mg/L
Total Chromium	5	N/A	mg/L
Lead	0.5	N/A	mg/L
Antimony	0.6	N/A	mg/L
Barium	35	N/A	mg/L
Cobalt	80	N/A	mg/L
Copper	10	N/A	mg/L
Nickel	3.5	N/A	mg/L
Selenium	0.5	N/A	mg/L
Silver	5	N/A	mg/L
Zinc	50	N/A	mg/L
Chromium (VI)	2.5	N/A	mg/L
Mercury	0.05	N/A	mg/L

SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)

Number: BRA20241017-1 R1

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

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



SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)

Number: BRA20241017-1 R1

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

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

Appendix 3: reference to ZDHC WWSG v2.1 Table 4D

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



SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number: BRA20241017-1 R1

Photo of sampling points:

Untreated wastewater

Date & Time: 12/09/24, 13:40 p.m



Effluent

Date & Time: 12/09/24, 13:30 p.m



Sludge

Date & Time: 12/09/24, 19:00 p.m



SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number: BRA20241017-1 R1

Photo of samples:

Untreated wastewater

Date & Time: 13/09/24, 14:00 p.m



Effluent

Date & Time: 13/09/24, 14:00 p.m



Sludge

Date & Time: 13/09/24, 14:00 p.m



Intertek ZDHC Monitoring
Total Quality. Assured.

Sampling Protocol for Wastewater and Sludge acc. ZDHC SAP 2.1 incl. Apdx. E
(Protocolo de Amostragem para Águas Residuais e Lodo)

Facility Name (Nome da instalação): VICUNHA TEXTIL S/A - UNIDADE DE MARRA E NAU - CE

Address and Contact (Endereço e contato): ROD. DE MENDEL STEIN BRUCH, S/N, KM 01, SETOR SI, DISTRITO INDUSTRIAL, MARACANAÚ - CE
CEP 61431-210, CONTATO CARLOS EDUARDO SANTAS, TELEFONE: (85) 4008-1578

Facility type (tick all applicable) (Tipo de instalação):
 Dyeing and Finishing (Tingimento e Acabamento) Fabric Mill (Fábrica de tecidos) Laundry, Washing and Finishing (Lavanderia, lavagem e acabamento) Natural Leather processing (Couro natural em processamento) Printing (Estamparia) Synthetic Leather processing (Processamento de couro sintético)

Date of sampling (Data da coleta): 12.09.2024

Sample General ID (if applicable) (ID geral da amostra se aplicável):

Discharge description (Descrição da descarga): APÓS AS ETAPAS DE TRATAMENTO O EFLUENTE É ENVIADO A REDE COLETORA DA CONCESSIONÁRIA (CAGECE)

Weather conditions (Condições do tempo): on sampling day: ENSOLARADO on day before: ENSOLARADO

Fill in all above information as applicable. (Preencha todas as informações acima, se aplicável)

Sample Type and Details (see also page 2) (Tipo de amostra e detalhes)

Effluent Discharge (Descarga do efluente)
 direct (direta) or indirect (indireta)
 Enter sampling time(s) for indirect discharge. Field parameters are not required, except on client's request. (Insira o(s) tempo(s) de amostragem para descarga indireta. Parâmetros de campo não são obrigatórios, exceto a pedido do cliente)

Pre-treated WW without sludge (Águas residuais pré tratada sem lodo)

Sludge with below disposal pathway* (Lodo, abaixo os tipos de destinação*):
 A >1000 °C offsite incineration (Incineração fora do local)
 B Landfill with significant control (Aterro com controle significativo)
 C Building products processed >1000 °C (Produtos de construção processados > 1000°C)
 D Landfill with limited control (Aterro com controle limitado)
 E Incineration / Building products processed <1000 °C (Incineração/ Produtos de construção processados)
 F Landfill with no control (Aterro sem controle)
 G Land application (Aplicação de terra)

* if supplier cannot provide information, pathway "F" shall be assumed. (caso o fornecedor não possa fornecer as informações, o item "F" será considerado)

Facility has WWTP (A instalação tem WWTP)
 Plant is in operating condition (A planta está em condições operacionais)

with Equalization Tank (HT) present (com Tanque de Equalização (HT) presente)
Hydraulic Retention Time (HRT): 17.78 h
 (= Volume of tank [m³] / Flow rate [m³/h])
 (= Volume do tanque [m³] / Vazão [m³/h])
 If HRT > 12h, grab sampling from EQT is allowed. (Se HRT > 12h, amostra única do tanque de equalização é permitida)

Incoming Water (Água de entrada) **MMCF (fibras celulósicas sintéticas)**

age of sludge: 4 days / weeks (idade do lodo) (dias / semanas)


Sludge volume generated: 4.72 m³/h OL/sec other unit (specify): kg/hr per facility info (informado pela instalação) measured (medido) estimated (estimado)

Process Chemical (Processo químico) Liquid (Líquido) solid (powder / granulate / pieces) (sólido (pó/ granulada/ pedaços)) from running in process (processo em execução) from warehouse/storage (do depósito/armazenamento)

Rev 10b-4b - use with Guideline CS009.TP (Issue 10b) Page 1 of 4 Effective Date: 04-Sept-2023

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ZDHC Monitoring

Total Quality Assured

Times of sampling (horário de amostragem)	Untreated: (Não tratado)							or Grab (HRT>12h) (Amostra única)
	1	2	3	4	5	6	7	
	13:40	14:40	15:40	16:30	17:40	18:40	19:40	
*Effluent (indirect): (if applicable) (se aplicável)								or Grab (HRT>12h) (Amostra única)
	13:30	14:30	15:30	16:40	17:30	18:30	19:30	
Incoming:** (Entrada)								or Grab (HRT>12h) (Amostra única)
Sludge (liquid): (Lodo (líquido))								Solid sludge: (lodo sólido) 19.00

**(take grab sample for tap water, river water, and industrial treated river water without EQT; recycled water from EQT < 12h must be composite)
(coletar amostras únicas de água de torneira, água de rio com tratamento industrial sem EQT; água reciclada do EQT < 12, deve ser composta)

Picture ID (or Date & Time / Interval):
ID da foto (ou data e hora/intervalo)

BRA20240712-1330T0430

GPS coordinates of sampling points:
(coordenadas do GPS dos pontos de amostragem)

Incoming W.: Lat.: ON OS Long.: OE OW
(Água de entrada)

Untreated WW.: Lat.: ON OS 3°52'22" S Long.: OE OW 38°35'56" W
(Efluente não tratado)

Effluent: Lat.: ON OS 3°52'24" S Long.: OE OW 38°35'57" W
(Efluente)

Sludge: Lat.: ON OS 3°52'24" S Long.: OE OW 38°35'57" W
(Lodo)

Sample Details (Detalhes da amostra)

* Field parameters usually are required only for direct discharge. If client requests also for indirect discharge, use below fields.
(Parâmetros de campo geralmente são necessários apenas para descarga direta. Se o cliente solicitar também descarga indireta, use os campos abaixo)

Composite Sample (Amostra composta) Grab Sample (only allowed from EQT of Effluent with HRT>12h) (Amostra única) (somente permitido a partir da EQT de efluentes com HRT>12) (enter data in column for Averaged Readings and in field at right) (insira os dados na coluna para leitura médias e o campo a direita)

Volume of aliquot(s): 3000 mL

Time of discrete effluent sample ** (horário da coleta da amostra de efluente)	1	2	3	4	5	6	7	Averaged Readings or Grab Sample: (leitura médias ou amostra única)
pH:	8.00	7.97	8.13	7.80	7.74	7.64	7.70	7.85
Temp. WW discharge of (Descarga do efluente)	29.1 °C	29.6 °C	29.5 °C	28.4 °C	29.1 °C	28.9 °C	28.6 °C	29.1
Temp. receiving water de (água não tratada)	38.4 °C	37.4 °C	36.1 °C	37.4 °C	37.7 °C	38.1 °C	37.1 °C	37.50
Flow rate: (quociente de vazão)	11.5 L/s	11.5 L/s	11.5 L/s	11.5 L/s	11.5 L/s	11.5 L/s	11.5 L/s	1080 m ³ /d avg.
Dissolved Oxygen: (Oxigênio dissolvido)	2.90 mg/L	3.21 mg/L	2.86 mg/L	2.75 mg/L	3.60 mg/L	3.52 mg/L	3.47 mg/L	3.11 mg
Total Chlorine: (Cloro Total)	0.0 mg/L	0.0 mg/L	0.0 mg/L	0.0 mg/L	0.0 mg/L	0.0 mg/L	0.0 mg/L	0.0 mg
Persistent foam: (Espuma persistente)	<input type="radio"/> yes <input checked="" type="radio"/> no (sim/não)	<input type="radio"/> yes <input checked="" type="radio"/> no (sim/não)	<input type="radio"/> yes <input checked="" type="radio"/> no (sim/não)	<input type="radio"/> yes <input checked="" type="radio"/> no (sim/não)	<input type="radio"/> yes <input checked="" type="radio"/> no (sim/não)	<input type="radio"/> yes <input checked="" type="radio"/> no (sim/não)	<input type="radio"/> yes <input checked="" type="radio"/> no (sim/não)	

** time when discrete sample for composite was taken. Use comment field if number of samples is greater than seven, or if above fields are otherwise not sufficient.
(tempo quando a amostra composta foi coletada. Use o campo de comentário se o número de amostras for maior que sete, ou se os campos acima não forem suficientes)

Note: 1.0 m³/h = 0.27 L/s; 1.0 L/s = 86.4 m³/d; 1 m³/h = 0.042 m³/d; multiply the flow rate in m³/h by the daily operation time of the ETP to get flow rate in m³/d
(Nota: 1.0 m³/h = 0.27 L/s; 1.0 L/s = 86.4 m³/d; 1 m³/h = 0.042 m³/d; multiplique pela vazão em m³/h pelo tempo diário de operação da ETE para obter a vazão em m³/d)

Sampling procedure: (Procedimento de amostragem)

automated sampling (amostragem automatizada) with beaker/bowl (com copo/recipiente) other: (outro)

Wastewater Flow Data (Effluent/Discharge) (Dados de fluxos de águas residuais- Efluente/Descarga)

System: (Sistema) Flow meter (in facility) (medidor de vazão, na instalação) Pipe (O) (tubo) Flume (U) (calha) Wier (V) (barragem)

Diameter [cm] (Diâmetro)

Water Depth [cm] (Profundidade da água)

Flow Speed [cm/sec] (Velocidade do fluxo)


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SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number: BRA20241017-1 R1



ZDHC Monitoring

Total Quality Assured

General Field Parameters and Sensory Data (enter as far as applicable)
(Parâmetros gerais de campo e dados sensoriais, inserir caso seja aplicável)

Type	T ambient air [°C] (Temp. ambiente do ar)	Odour (Odor)	Colour (Cor)	Foaming (Formação de espuma)	Floating matter (Material flutuante)
Incoming (Entrada)				<input type="checkbox"/> yes <input type="checkbox"/> no (sim/não)	<input type="checkbox"/> yes <input type="checkbox"/> no (sim/não)
Untreated (Não tratado)				<input type="checkbox"/> yes <input checked="" type="checkbox"/> no (sim/não)	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no (sim/não)
Effluent (Efluente)	26.7	CARACTERISTICO	AZUL ESCURO	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no (sim/não)	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no (sim/não)
Sludge (Lodo)	26.7	CARACTERISTICO	VERDE CLARO	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no (sim/não)	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no (sim/não)
	26.7	CARACTERISTICO	PRETO		


Field Testing QA/QC
(Teste de campo QA/QC)

Parameter (Parâmetro)	Lab Control Sample target value (Valor alvo da amostra de controle de laboratório)	Lab Control Sample measured value (Valor medido da amostra de controle de laboratório)	Accuracy [%] (Exatidão)
pH	4.0, 7.0, 10.0	4.04, 7.02, 10.08	101, 100.2, 100.8
Total Chlorine (Cloro total)	0.1, 1.50	0.09, 1.40	90.0, 93.3

Other observations:
(outras observações)

Additional notes (e.g., alternatively measured flow and readings, abbreviations used, etc):
(Notas adicionais, por exemplo, vazão e leituras medidas alternativamente, abreviações usadas etc.)

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SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)

Number: BRA20241017-1 R1

intertek ZDHC Monitoring
Total Quality. Assured.

ZDHC Wastewater Sampling - Facility Confirmation
(Amostragem de efluentes ZDHC - Confirmação da instalação)

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.
(As amostras de águas residuais foram coletadas na escala de produção e fluxo de águas residuais normais da instalação. O amostrador listado abaixo esteve no local e coletou as amostras)

<p><u>Sampling person (name & email address):</u> (Amostrador, nome e endereço de e-mail)</p> <p>Alexandre de Jesus Santos</p> <p>Alexandre.Santos@INTERTEK.COM</p>	<p><u>Facility Name:</u> (Nome da instalação)</p> <p>VICUNHA TEXTIL S/A UNIDADE DE MARA CANAU. CE</p>
<p><u>Sampler's ZDHC accreditation no.:</u> (Número do certificado do amostrador no ZDHC)</p> <p>ZDHC-A-23E-C 00068-R324A-69F4L</p>	<p><u>Facility's Representative name:</u> (Nome do representante da instalação)</p> <p><i>[Signature]</i></p>
<p><u>Sampler's Signature:</u> (Assinatura do amostrador)</p> <p>Alexandre J. Santos</p>	<p><u>Facility's Representative Signature and Stamp:</u> (Assinatura e carimbo do representante da instalação)</p> <p>Carlos Eduardo Dantas Superior de Atividades ET/ETE</p>

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*****End of Report*****

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