

SOFTLINES WASTEWATER TESTING

TEST REPORT

Number:TURA240014835

Date of sampling	30/01/2024
Reporting Date	01/02/2024

Audit ID	163382	Audit firm	INTERTEK TURKEY
Company name	JNR MENSUCAT TEKSTIL SAN. VE TIC. A.S.		
Contact person	HULUSİ KARAHANLI		
Type of tax - tax ID no	4840905343		
Address	KADIRLI OSB CADDE 2 (2. ETAP) NO:14		
Region state province	OSMANIYE		
Town city / village	KADIRLI		
Zip/Post code	80752		
Country	TURKEY		

Type of wastewater discharge				
Type of wastewater discharge:	Indirect discharge			
On-site effluent treatment plant (ETP):	YES			
Pre - treatment:	YES			
	Preliminary	Primary	Secondary/Biological	Tertiary
	<input checked="" type="checkbox"/> Screening/ Sieving/Grit Remover <input checked="" type="checkbox"/> Homogenization tank <input checked="" type="checkbox"/> pH correction <input type="checkbox"/> Other <input type="checkbox"/> None	<input checked="" type="checkbox"/> Coagulation/Flocculation <input type="checkbox"/> Dissolved air flotation (DAF) <input checked="" type="checkbox"/> Sedimentation tanks or Settler/Clarifier <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Activated sludge process Aerobic reactor <input type="checkbox"/> Biological Biofilm reactor (MBBR, SAF, RBC...) <input type="checkbox"/> BSequencing batch reactor (SBR) <input type="checkbox"/> Other	<input type="checkbox"/> Absorption with activated carbon <input type="checkbox"/> High rate filtration <input type="checkbox"/> Advanced oxidation techniques (Ozone, Fenton reaction, photo catalytic degradation...) <input type="checkbox"/> Other
Description of discharge:	Discharges to Kadirli Municipality Wastewater Treatment Plant through sewage system.			
[If direct discharge] ambient temperature of receiving water body (°C):	N/A			
Average total industrial wastewater generated (m3/day):	1300 m3/day			

Sludge Disposal Pathway	B
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Sampler accreditation certification number (ZDHC):		ZDHC -A-22-E-C001068-R21DE-56D90	
Sample description	Simple	Composite	Comments
(1) Untreated wastewater (BT)	[Dark blue, grab sample at 14:00] [Sampling location: Latitude 37.25451, Longitude 36.44589]	X	Hydraulic Retention Time: >12h
(2) Treated wastewater (AT)	X	[Transparent, composite sample at; 12:55, 13:10, 13:25, 13:40, 13:55, 14:10, 14:25] [Sampling location: Latitude 37.25427, Longitude 36.40592]	
(3) Sludge	[Black, grab sample at 13:35] [Sampling location: Latitude 37.25445, Longitude 36.4138]	X	[pH; 7.12]

Local Legal Data	
Local Legal Standard name [a]	N/A
Local legal standard no. [a]:	N/A
Parameters (ZDHC WWSG V2.1, Table 2-3) exceeded local regulation:	N/A
Discharge permit provided:	Yes

Internal description – Intertek Lab Issuing Final Test Report	
Sampling laboratory	INTERTEK TURKEY
Testing laboratory	INTERTEK TURKEY
Date received sample	31/01/2024
Date and time of the beginning of sampling	30/01/2024, 12:55
Date and time of the end of sampling	30/01/2024, 14:25
Testing period	31/01/2024 to 01/02/2024
Reporting date	01/02/2024
Arrival Temperature at Lab	7°C
Internal codification number	N/A
Reference sample number	TURA240014835
Comments	Samples received within 18 hours.

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Summary of test results		
Wastewater/ MRSL - Test items	Testing period	Sample 1 (untreated)
Alkylphenols (APs) & Alkylphenol ethoxylates (APEOs)	From 31/01/2024 to 01/02/2024	ND
Anti - Microbials & Biocides	From 31/01/2024 to 01/02/2024	ND
Chlorinated parafins	From 31/01/2024 to 01/02/2024	ND
Chlorobenzenes and Chlorotoluenes	From 31/01/2024 to 01/02/2024	ND
Chlorophenols	From 31/01/2024 to 01/02/2024	ND
Dimethyl Formamide (DMFa) (*)	From 31/01/2024 to 01/02/2024	ND
Dyes – Carcinogenic or Equivalent Concern	From 31/01/2024 to 01/02/2024	ND
Dyes – Disperse (Allergenic)	From 31/01/2024 to 01/02/2024	ND
Dyes-Navy Blue Colourant	From 31/01/2024 to 01/02/2024	ND
Flame retardants	From 31/01/2024 to 01/02/2024	D
Glycols	From 31/01/2024 to 01/02/2024	ND
Halogenated solvents	From 31/01/2024 to 01/02/2024	ND
Organotin compounds	From 31/01/2024 to 01/02/2024	ND
Other/Miscellaneous Chemicals (^)	From 31/01/2024 to 01/02/2024	D
Perfluorinated chemicals (PFCs)	From 31/01/2024 to 01/02/2024	ND
Phthalates	From 31/01/2024 to 01/02/2024	ND
Polycyclic aromatic hydrocarbons (PAHs)	From 31/01/2024 to 01/02/2024	ND
Restricted Aromatic Amines (Cleavable from Azo- colourants) Azo dyes	From 31/01/2024 to 01/02/2024	ND
UV Absorbers	From 31/01/2024 to 01/02/2024	ND
Volatile organic compounds (VOCs)	From 31/01/2024 to 01/02/2024	D



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Wastewater / Heavy metals - Test items	Testing period	Sample 2 (effluent)		
		Foundational	Progressive	Aspirational
Antimony	N/A			
Chromium (VI)	From 31/01/2024 to 01/02/2024			Meet
Barium	N/A			
Selenium	N/A			
Tin	N/A			
Arsenic	From 31/01/2024 to 01/02/2024			Meet
Chromium (total)	N/A			
Cobalt	N/A			
Cadmium	From 31/01/2024 to 01/02/2024			Meet
Copper	N/A			
Lead	From 31/01/2024 to 01/02/2024			Meet
Nickel	N/A			
Silver	N/A			
Zinc	N/A			
Mercury	From 31/01/2024 to 01/02/2024			Meet

Wastewater / Conventional parameters - Test items	Testing period	Sample 2 (effluent)		
		Foundational	Progressive	Aspirational
pH ^[f]	N/A	N/A		
Temperature difference ^[f]	N/A			
E.coli	N/A	N/A		
Colour	N/A			N/A
Persistent foam ^[f]	N/A	N/A		
Wastewater flowrate ^[f]	N/A	N/A		
Ammonium-Nitrogen	N/A			N/A
AOX	N/A			N/A
Biochemical Oxygen Demand (BOD ₅)	N/A			N/A
Chemical Oxygen Demand (COD)	N/A			N/A
Dissolved Oxygen (DO) ^[f]	N/A	N/A		
Oil & Grease	N/A			N/A
Total Phenols / Phenol Index	N/A			N/A
Total Chlorine ^[f]	N/A	N/A		
Total Dissolved Solids (TDS)	N/A	N/A		
Total Nitrogen	N/A			N/A



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Total Phosphorus	N/A			N/A
Total Suspended Solids (TSS)	N/A			N/A

Wastewater / Anions - Test items	Testing period	Sample 2 (effluent)		
		Foundational	Progressive	Aspirational
Chloride	N/A	N/A		
Cyanide, total	N/A			N/A
Sulfate	N/A	N/A		
Sulfide	N/A			N/A
Sulfite	N/A			N/A

Sludge / Heavy metals - Test items	Testing period	Sample 3: Sludge (Total)	Sample 3: Sludge (Leachate)
Antimony	From 31/01/2024 to 01/02/2024	Meet	
Arsenic	From 31/01/2024 to 01/02/2024	Meet	
Barium	From 31/01/2024 to 01/02/2024	Meet	
Cadmium	From 31/01/2024 to 01/02/2024	Meet	
Cobalt	From 31/01/2024 to 01/02/2024	Meet	
Copper	From 31/01/2024 to 01/02/2024	Meet	
Lead	From 31/01/2024 to 01/02/2024	Meet	
Nickel	From 31/01/2024 to 01/02/2024		Meet
Selenium	From 31/01/2024 to 01/02/2024	Meet	
Silver	From 31/01/2024 to 01/02/2024	Meet	
Chromium (total)	From 31/01/2024 to 01/02/2024		Meet
Zinc	From 31/01/2024 to 01/02/2024	Meet	
Chromium VI	From 31/01/2024 to 01/02/2024	Meet	
Mercury	From 31/01/2024 to 01/02/2024	Meet	

Sludge / Anion - Test items	Testing period	Sample 3: Sludge
Cyanide	From 31/01/2024 to 01/02/2024	ND

Sludge / Conventional parameters - Test items	Testing period	Sample 3: Sludge
pH	From 31/01/2024 to 31/01/2024	7.1
% Solids	From 31/01/2024 to 31/01/2024	23.9
Paint filter test	From 31/01/2024 to 31/01/2024	Pass
Faecal coliform	From 31/01/2024 to 01/02/2024	ND



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Sludge / MRSL - Test items	Testing period	Sample 3: Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	From 31/01/2024 to 01/02/2024	ND
Polycyclic Aromatic Hydrocarbons (PAHs)	From 31/01/2024 to 01/02/2024	ND
Chlorotoluenes	From 31/01/2024 to 01/02/2024	ND

Remark (Indicated in each parameter)

ND = Not detected (less than lab reporting limit)

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 [xxxxx] 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.

(*) = 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
Intertek Testing Service Turkey Limited

Prepared and Checked By:



Eralp Anil
Environmental Engineer
For Intertek Testing Services Turkey

Authorized By:



Kerem Can
Consumer Products Operational Excellence Director
For Intertek Testing Services Turkey

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Test results

1. Conventional parameters

Wastewater/ Conventional parameters - Test items	Test method	Limit			Lab Reporting Limit	Result		Unit
		Foundational	Progressive	Aspirational		Sample 2 (After treatment)		
Temperature	SM 2550 B	35°C	30°C	25°C	N/A	N/A	°C	
Temperature difference [°C]	SM 2550 B	Δ+15°C	Δ+10°C	Δ+5°C	N/A	N/A	[f] °C	
TSS	SM 2540 D	50 mg/L	15 mg/L	5 mg/L	5 mg/L	N/A	mg/L	
Chemical Oxygen Demand (COD)	SM 5220 D	150 mg/L	80 mg/L	40 mg/L	40 mg/L	N/A	mg/L	
Total-N	IS 3025 (Sum of SM4500- Norg B, SM4500-NO2- B, SM4500-NO3- E)	20 mg/L	10 mg/L	5 mg/L	5 mg/L	N/A	mg/L	
pH	SM 4500-H+	6-9			N/A	N/A	[f] pH	
Colour (436 nm ; 525 nm ; 620nm)	ISO 7887-B	7;5;3	5;3;2	2;1;1	N/A	N/A	[m-1]	
Biochemical Oxygen Demand (BOD5)	SM 5210-B	30 mg/L	15 mg/L	8 mg/L	5 mg/L	N/A	mg/L	
Ammonium- Nitrogen	SM 4500 NH3 B& F	10 mg/L	1 mg/L	0.5 mg/L	0.5 mg/L	N/A	mg/L	
Total-P	EPA3015 A& ISO11885	3 mg/L	0.5 mg/L	0.1 mg/L	0.1 mg/L	N/A	mg/L	
AOX	ISO 9562	3 mg/L	0.5 mg/L	0.1 mg/L	0.1 mg/L	N/A	mg/L	
Oil and grease	USEPA 1664	10 mg/L	2 mg/L	0.5 mg/L	0.5 mg/L	N/A	mg/L	
Phenol	SM 5530-B& C	0.5 mg/L	0.01 mg/L	0.001 mg/L	0.001 mg/L	N/A	mg/L	
E. Coli	ISO 9308-1	126 [MPN/100-ml]			126 [MPN/100-ml]	N/A	[MPN/100- ml]	
Foam	N/A	Not visible	Not visible	Not visible	N/A	N/A	[f]	



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Cyanide	SM 4500-CN-C&E	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.05 mg/L	N/A	mg/L
Sulfide	SM 4500-S2-D	0.5 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	N/A	mg/L
Sulphite	SM 4500 SO32 C	2 mg/L	0.5 mg/L	0.2 mg/L	0.2 mg/L	N/A	mg/L
Dissolved Oxygen (DO)	SM 4500-O-G	Sample and report only			N/A	N/A	[f] mg/L
Total Chlorine	ISO 7393-2	Sample and report only			0.2 mg/L	N/A	[f] mg/L
Total Dissolved Solids (TDS)	SM 2540-C	Sample and report only			10 mg/L	N/A	mg/L
Chloride	SM 4500-Cl C	Sample and report only			10 mg/L	N/A	mg/L
Sulfate	SM 4500 SO4 E	Sample and report only			10 mg/L	N/A	mg/L
Wastewater Flowrate	N/A	Report only			N/A	N/A	[f] m3/day

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



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2. Heavy metals

Others; Modified from EPA 3015A, EPA 6020B (ICP-MS analysis)

Chromium (VI); ISO 18412 (UV/VIS analysis)

Heavy metals	CAS no.	Limit			Lab Reporting limit (mg/L)	Result	Unit
		Foundational	Progressive	Aspirational		Sample 2 (After treatment)	
Arsenic (As)	Various	0.05 mg/L	0.01 mg/L	0.005 mg/L	0.005 mg/L	ND	mg/L
Cadmium (Cd)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	ND	mg/L
Mercury (Hg)	Various	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.001 mg/L	ND	mg/L
Lead (Pb)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	ND	mg/L
Antimony (Sb)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	N/A	mg/L
Cobalt (Co)	Various	0.05 mg/L	0.02 mg/L	0.01 mg/L	0.01 mg/L	N/A	mg/L
Nickel (Ni)	Various	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.05 mg/L	N/A	mg/L
Silver (Ag)	Various	0.1 mg/L	0.05 mg/L	0.005 mg/L	0.005 mg/L	N/A	mg/L
Copper (Cu)	Various	1 mg/L	0.5 mg/L	0.25 mg/L	0.25 mg/L	N/A	mg/L
Zinc (Zn)	Various	5.0 mg/L	1.0 mg/L	0.5 mg/L	0.5 mg/L	N/A	mg/L
Total Chromium (Cr)	Various	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.05 mg/L	N/A	mg/L
Chromium VI (Cr VI)	Various	0.05 mg/L	0.005 mg/L	0.001 mg/L	0.001 mg/L	ND	mg/L
Barium	Various	Sample and Report only			0.001 mg/L	N/A	mg/L
Selenium	Various	Sample and Report only			0.001 mg/L	N/A	mg/L
Tin	Various	Sample and Report only			0.001 mg/L	N/A	mg/L



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

APs&APEOs (n=1,2): modified from ISO 18857-1, ISO 18857-2, ASTM D7065) (GC-MS analysis)

APs&APEOs (n>2): modified from ISO 18254-1) (LC-MS-MS analysis)

Alkylphenols (APs) & Alkylphenoethoxylates (APEOs)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Octylphenol (OP), mixed isomers	140-66-9/ 1806-26-4/ 27193-28-8	5	5	ND	µg/L
Nonylphenol (NP), mixed isomers	104-40-5/ 11066-49-2/ 25154-52-3/84852-15-3	5	5	ND	µg/L
Octylphenoethoxylates (OPEOs)	9002-93-1; 9036-19-5; 68987-90-6	5	5	ND	µg/L
Nonylphenoethoxylates (NPEOs)	9016-45-9/26027-38-3/ 37205-87-1/68412-54-4/127087-87-0	5	5	ND	µg/L

4. Chlorobenzenes & Chlorotoluenes

Modified from EPA 3510C, EPA 8260D, EPA 8270E (GC-MS analysis)

Chlorobenzenes & Chlorotoluenes	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Chlorobenzene	108-90-7	0.2	0.2	ND	µg/L
1,2-Dichlorobenzene	95-50-1	0.2	0.2	ND	µg/L
1,3-Dichlorobenzene	541-73-1	0.2	0.2	ND	µg/L
1,4-Dichlorobezene	106-46-7	0.2	0.2	ND	µg/L
1,2,3-Trichlorobenzene	87-61-6	0.2	0.2	ND	µg/L
1,2,4-Trichlorobenzene	120-82-1	0.2	0.2	ND	µg/L
1,3,5-Trichlorobenzene	108-70-3	0.2	0.2	ND	µg/L
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	0.2	ND	µg/L
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	0.2	ND	µg/L
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	0.2	ND	µg/L
Pentachlorobenzene	608-93-5	0.2	0.2	ND	µg/L
Hexachlorobenzene	118-74-1	0.2	0.2	ND	µg/L
2-Chlorotoluene	95-49-8	0.2	0.2	ND	µg/L
3-Chlorotoluene	108-41-8	0.2	0.2	ND	µg/L
4-Chlorotoluene	106-43-4	0.2	0.2	ND	µg/L
2,3-Dichlorotoluene	32768-54-0	0.2	0.2	ND	µg/L

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

5. Chlorophenols

Modified from EPA 3510C, EPA 8270E (GC-MS analysis)

Chlorophenols	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
2-Chlorophenol	95-57-8	0.5	0.5	ND	µg/L
3-Chlorophenol	108-43-0	0.5	0.5	ND	µg/L
4-Chlorophenol	106-48-9	0.5	0.5	ND	µg/L
2,3-Dichlorophenol	576-24-9	0.5	0.5	ND	µg/L
2,4-Dichlorophenol	120-83-2	0.5	0.5	ND	µg/L
2,5-Dichlorophenol	583-78-8	0.5	0.5	ND	µg/L
2,6-Dichlorophenol	87-65-0	0.5	0.5	ND	µg/L
3,4-Dichlorophenol	95-77-2	0.5	0.5	ND	µg/L



3,5-Dichlorophenol	591-35-5	0.5	0.5	ND	µg/L
2,3,4-Trichlorophenol	15950-66-0	0.5	0.5	ND	µg/L
2,3,5-Trichlorophenol	933-78-8	0.5	0.5	ND	µg/L
2,3,6-Trichlorophenol	933-75-5	0.5	0.5	ND	µg/L
2,4,5-Trichlorophenol	95-95-4	0.5	0.5	ND	µg/L
2,4,6-Trichlorophenol	88-06-2	0.5	0.5	ND	µg/L
3,4,5-Trichlorophenol	609-19-8	0.5	0.5	ND	µg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	0.5	ND	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	0.5	ND	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	0.5	ND	µg/L
Pentachlorophenol (PCP)	87-86-5	0.5	0.5	ND	µg/L

6. Restricted Aromatic Amines (Cleavable from Azo- colourants)
Modified from EPA 3510C, ISO 14362-1 (GC-MS analysis)

Azo Dyes	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	0.1	ND	µg/L
4,4'-Diaminodiphenylmethane	101-77-9	0.1	0.1	ND	µg/L
4,4'-Oxydianiline	101-80-4	0.1	0.1	ND	µg/L
4-Chloroaniline	106-47-8	0.1	0.1	ND	µg/L
3,3'-Dimethoxybenzidine	119-90-4	0.1	0.1	ND	µg/L
3,3'-Dimethylbenzidine	119-93-7	0.1	0.1	ND	µg/L
p-Cresidine	120-71-8	0.1	0.1	ND	µg/L
2,4,5-Trimethylaniline	137-17-7	0.1	0.1	ND	µg/L
4,4'-Thiodianiline	139-65-1	0.1	0.1	ND	µg/L
4-Aminoazobenzene	60-09-3	0.1	0.1	ND	µg/L
4-methoxy-m-phenylenediamine	615-05-4	0.1	0.1	ND	µg/L
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.1	0.1	ND	µg/L
2,6-Xylidine	87-62-7	0.1	0.1	ND	µg/L
o-Anisidine	90-04-0	0.1	0.1	ND	µg/L
2-Naphthylamine	91-59-8	0.1	0.1	ND	µg/L
3,3'-Dichlorobenzidine	91-94-1	0.1	0.1	ND	µg/L
4-Aminobiphenyl	92-67-1	0.1	0.1	ND	µg/L
Benzidine	92-87-5	0.1	0.1	ND	µg/L
o-Toluidine	95-53-4	0.1	0.1	ND	µg/L
2,4-Xylidine	95-68-1	0.1	0.1	ND	µg/L
4-Chloro-o-toluidine	95-69-2	0.1	0.1	ND	µg/L
4-Methyl-m-phenylenediamine	95-80-7	0.1	0.1	ND	µg/L

o-Aminoazotoluene	97-56-3	0.1	0.1	ND	µg/L
5-Nitro-o-toluidine	99-55-8	0.1	0.1	ND	µg/L
2-Naphthylammoniumacetate	553-00-4	0.1	0.1	ND	µg/L
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	0.1	ND	µg/L
4-chloro-o-toluidinium chloride	3165-93-3	0.1	0.1	ND	µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	0.1	ND	µg/L

7. Dyes – Carcinogenic or Equivalent Concern

Modified from DIN 54231 (LC-MS analysis)

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

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C.I. Acid Violet 49	1694-09-3	500	500	ND	µg/L
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8. Dyes – Disperse (Allergenic)
Modified from DIN 54231 (LC-MS analysis)

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



9. Flame retardants

Brominated substances: Modified from EPA 3510C, EPA 527, ISO 22032 (GC-MS and ICP-MS analysis)

Brominated/Phosphorus substances: Modified from EPA 3510C, EPA 8321B (LC-MS-MS analysis)

Flame retardants	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	25	ND	µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate	5412-25-9	25	25	ND	µg/L
Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	25	25	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	25	25	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	25	25	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	25	25	ND	µg/L
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	25	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	25	25	ND	µg/L
Dibromobiphenyls (DiBB)	Various	25	25	ND	µg/L
Octabromobiphenyls (OctaBB)	Various	25	25	ND	µg/L
Dibromopropylether	21850-44-2	25	25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	25	ND	µg/L

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Monobromobiphenyls (MonoBB)	Various	25	25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Various	25	25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Various	25	25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Various	25	25	ND	µg/L
Boric acid**	10043-35-3 / 11113-50-1	100 in Boron	100 in Boron	531.7	µg/L
Diboron trioxide**	1303-86-2	100 in Boron	100 in Boron	531.7	µg/L
Disodium octaborate**	12008-41-2	100 in Boron	100 in Boron	531.7	µg/L
Disodium tetraborate anhydrous**	1303-96-4 / 1330-43-4	100 in Boron	100 in Boron	531.7	µg/L
Tetraboron disodium heptaoxide, hydrate**	12267-73-1	100 in Boron	100 in Boron	531.7	µg/L

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



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10. Glycols

Modified from EPA 3510C (GC-MS analysis)

Glycols	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Bis(2-methoxyethyl)-ether	111-96-6	50	50	ND	µg/L
2-ethoxyethanol	110-80-5	50	50	ND	µg/L
2-ethoxyethyl acetate	111-15-9	50	50	ND	µg/L
Ethylene glycol dimethyl ether	110-71-4	50	50	ND	µg/L
2-methoxyethanol	109-86-4	50	50	ND	µg/L
2-methoxyethylacetate	110-49-6	50	50	ND	µg/L
2-methoxypropylacetate	70657-70-4	50	50	ND	µg/L
Triethylene glycol dimethyl ether	112-49-2	50	50	ND	µg/L

11. Halogenated solvents

Modified from EPA 8260D, EPA 5021A (GC-MS analysis)

Chlorinated solvents	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
1,2-Dichloroethane	107-06-2	1	1	ND	µg/L
Methylene chloride	75-09-2	1	1	ND	µg/L
Trichloroethene	79-01-6	1	1	ND	µg/L
Tetrachloroethene	127-18-4	1	1	ND	µg/L

12. Organotin compounds

Modified from EPA 3510C, ISO 17353 (GC-MS analysis)

Organotin compounds	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Mono-, di-and tri-methyltin derivatives	Various	0.01	0.01	ND	µg/L
Mono-, di-and tri-butyltin derivatives	Various	0.01	0.01	ND	µg/L
Mono-, di-and tri-phenyltin derivatives	Various	0.01	0.01	ND	µg/L
Mono-, di-and tri-octyltin derivatives	Various	0.01	0.01	ND	µg/L
Tricyclohexyltin (TCyHT)	Various	0.01	0.01	ND	µg/L
Dipropyltin compounds (DPT)	Various	0.01	0.01	ND	µg/L
Tetrabutyltin compounds (TeBT)	Various	0.01	0.01	ND	µg/L
Tripropyltin Compounds (TPT)	Various	0.01	0.01	ND	µg/L

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Tetraoctyltin compounds (TeOT)	Various	0.01	0.01	ND	µg/L
Tetraethyltin Compounds (TeET)	Various	0.01	0.01	ND	µg/L

13. Phthalates

Modified from EPA 3510C, EPA 8270E, ISO 18856, ISO 14389 (GC-MS analysis)

Phthalates	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	10	ND	µg/L
Dimethoxyethyl phthalate (DMEP)	117-82-8	10	10	ND	µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	10	ND	µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0/68515-49-1	10	10	ND	µg/L
Di-iso-nonyl phthalate (DINP)	28553-12-0/68515-48-0	10	10	ND	µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	10	ND	µg/L
Dibutyl phthalate (DBP)	84-74-2	10	10	ND	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	10	ND	µg/L
Diethyl phthalate (DEP)	84-66-2	10	10	ND	µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	10	ND	µg/L
Di-iso-butyl phthalate (DIBP)	84-69-5	10	10	ND	µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	10	ND	µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	10	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C6-11-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	10	ND	µg/L
Di-n-pentylphthalates	131-18-0	10	10	ND	µg/L
Diisopentylphthalates	605-50-5	10	10	ND	µg/L
Dinonyl phthalate (DNP)	84-76-4	10	10	ND	µg/L

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14. Perfluorinated chemicals (PFCs)

PFCs: Modified from DIN 38407-42, CEN/TS 15968 (LC-MS-MS analysis)

FTOH: Modified from EPA 3510C, CEN/TS 15968, Journal of Chromatography A, 1178 (2008) 199-205 (GC-MS analysis)

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

15. Polycyclic aromatic hydrocarbons (PAHs)

Modified from EPA 3510C, EPA 8270E, DIN 38407-39 (GC-MS analysis).

Polycyclic aromatic hydrocarbons (PAHs)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Benzo(a)pyrene (BaP)	50-32-8	1	1	ND	µg/L
Anthracene	120-12-7	1	1	ND	µg/L
Pyrene	129-00-0	1	1	ND	µg/L
Benzo(ghi)perylene	191-24-2	1	1	ND	µg/L
Benzo(e)pyrene	192-97-2	1	1	ND	µg/L
Indeno (1,2,3-cd)pyrene	193-39-5	1	1	ND	µg/L
Benzo(j)fluoranthene	205-82-3	1	1	ND	µg/L
Benzo(b)fluoranthene	205-99-2	1	1	ND	µg/L
Fluoranthene	206-44-0	1	1	ND	µg/L
Benzo(k)fluoranthene	207-08-09	1	1	ND	µg/L
Acenaphthylene	208-96-8	1	1	ND	µg/L



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Chrysene	218-01-9	1	1	ND	µg/L
Dibenz(a,h)anthracene	53-70-3	1	1	ND	µg/L
Benzo(a)anthracene	56-55-3	1	1	ND	µg/L
Acenaphthene	83-32-9	1	1	ND	µg/L
Phenanthrene	85-01-8	1	1	ND	µg/L
Fluorene	86-73-7	1	1	ND	µg/L
Naphthalene	91-20-3	1	1	ND	µg/L

16. Volatile organic compounds (VOCs)

Modified from EPA 8260D, EPA 5021A (GC-MS analysis)

Volatile organic compounds (VOCs)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Benzene	71-43-2	1	1	4	µg/L
Xylene	1330-20-7	1	1	ND	µg/L
o-cresol	95-48-7	1	1	ND	µg/L
p-cresol	106-44-5	1	1	ND	µg/L
m-cresol	108-39-4	1	1	ND	µg/L
Toluene*	108-88-3	1	1	ND	µg/L

(*) = Sample and report for mock leather.

17. Anti - Microbials & Biocides

Modified from EPA 3510C, EPA 8270E (GC-MS analysis)

Anti - Microbials & Biocides	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
o-Phenylphenol (+salts)	90-43-7	100	100	ND	µg/L
Triclosan	3380-34-5	100	100	ND	µg/L
Permethrin	Multiple	500	500	ND	µg/L

18. Chlorinated paraffins

Modified from EPA 3510C, ISO 1201 (GC-ECNI-MS analysis)

Chlorinated paraffins	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Short-chain Chlorinated paraffin (C10 – C13)	85535-84-8	25	25	ND	µg/L
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	500	ND	µg/L

19. Dimethyl Formamide (DMFa) (*)

Modified from DIN 54439 (GC-MS analysis)

N,N-di-methylformamide (DMFa)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Dimethyl formamide; N,N-dimethylformamide	68-12-2	1000	1000	ND	µg/L

(*) = Sample and report for mock leather.

20. Dyes-Navy Blue Colourant

Modified from DIN 54231 (LC-MS analysis)

Dyes-Navy Blue Colourant	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	500	ND	µg/L
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	500	ND	µg/L

21. Other/Miscellaneous Chemicals (^)

Others: Micro filtration method (LC-MS-MS analysis)

AEAA: Liquid-liquid extraction (LC-MS-MS analysis)

Quinoline: Modified from DIN 54231 (LC-MS-MS analysis)

Borate salt: Modified from EPA 3015A ve EPA 6020B (ICP-MS analysis)

Other/Miscellaneous Chemicals	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
AEAA [2-(2-aminoethylamino)ethanol]	111-41-1	500	500	ND	µg/L
Bisphenol A	80-05-7	10	10	ND	µg/L
Thiourea	62-56-6	50	50	ND	µg/L
Quinoline	91-22-5	50	50	ND	µg/L
Borate, zinc salt (^)	12767-90-7	100 in Boron & 100 in Zinc	100 in Boron & 100 in Zinc	Boron:531.7 Zinc: 157.2	µg/L

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

22. UV Absorbers

Liquid-Liquid extraction (GC-MS analysis)

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

23. Sludge Parameters – Step 1 - Metals

Others: Modified from EPA 3051A, ISO 17294-2, EPA 6020B (ICP-MS analysis)

Chromium VI: Modified from ISO 18412, TS EN ISO 18412 (UV/VIS analysis)

Sludge Parameters – Step 1 - Metals	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
Antimony	5	5	ND	mg/kg
Arsenic	5	5	ND	mg/kg
Barium	200	200	ND	mg/kg
Cadmium	1	1	ND	mg/kg
Cobalt	400	400	ND	mg/kg
Copper	50	50	59.7	mg/kg
Lead	5	5	ND	mg/kg
Nickel	20	20	220	mg/kg
Selenium	5	5	ND	mg/kg
Silver	50	50	ND	mg/kg
Total Chromium	50	50	479	mg/kg
Zinc	400	400	ND	mg/kg
Chromium (VI)	20	20	ND	mg/kg
Mercury	1	1	ND	mg/kg

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24. Sludge Parameters – Step 1 - Anions

USEPA 9013 A, USEPA 9014 (UV/VIS analysis)

Sludge Parameters – Step 1 - Anions	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
Cyanide	20	20	ND	mg/kg

25. Sludge Parameters - Step 1 – Conventional

Sludge Parameters – Step 1 - Conventio	Test method	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
pH	USEPA SW 9045D	N/A	7.12	N/A
% Solids	USEPA 160.3	N/A	23.9	%
Paint Filter Test	USEPA 9095B	N/A	Pass	N/A
Fecal Coliform	ISO 7899-2	10 MPN/g	ND	MPN/g

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

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

APs/APEOs (n=1,2): Modified from EPA 3540C, ISO 18857-2 (GC-MS analysis)

APs/APEOs (n>2): Modified from EPA 3550C, ISO 18254-1 (LC-MS-MS analysis)

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



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

Modified from EPA 3540C, EPA 8270E, DIN 38407-39 (GC-MS analysis)

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

28. Sludge Parameteres - Step 1 - MRSL – Chlorotoluenes

Modified from EPA 3510C, EPA 8260D, EPA 8270E (GC-MS analysis)

Sludge Parameteres - Step 1 - MRSL – Chlorotoluenes	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight))	Unit
2-Chlorotoluene	95-49-8	0.2	0.2	ND	mg/kg
3-Chlorotoluene	108-41-8	0.2	0.2	ND	mg/kg
4-Chlorotoluene	106-43-4	0.2	0.2	ND	mg/kg
2,3-Dichlorotoluene	32768-54-0	0.2	0.2	ND	mg/kg
2,4-Dichlorotoluene	95-73-8	0.2	0.2	ND	mg/kg
2,5-Dichlorotoluene	19398-61-9	0.2	0.2	ND	mg/kg
2,6-Dichlorotoluene	118-69-4	0.2	0.2	ND	mg/kg
3,4-Dichlorotoluene	95-75-0	0.2	0.2	ND	mg/kg
3,5-Dichlorotoluene	25186-47-4	0.2	0.2	ND	mg/kg
2,3,4-Trichlorotoluene	7359-72-0	0.2	0.2	ND	mg/kg
2,3,6-Trichlorotoluene	2077-46-5	0.2	0.2	ND	mg/kg
2,4,5-Trichlorotoluene	6639-30-1	0.2	0.2	ND	mg/kg
2,4,6-Trichlorotoluene	23749-65-7	0.2	0.2	ND	mg/kg
3,4,5-Trichlorotoluene	21472-86-6	0.2	0.2	ND	mg/kg
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.2	ND	mg/kg
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2	ND	mg/kg
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2	ND	mg/kg
Pentachlorotoluene	877-11-2	0.2	0.2	ND	mg/kg



29. Sludge Parameteres - Step 2 – Metals

Others: EPA 1311, ISO 17294-2(ICP-MS analysis)

Chromium VI: EPA 1311, ISO 18412 (UV/VIS analysis)

Sludge Parameteres - Step 2 – Metals	Lab Reporting limit (mg/L)	Result Sample 3 (Sludge)	Unit
Antimony	0.12	N/A	mg/L
Arsenic	0.1	N/A	mg/L
Barium	7	N/A	mg/L
Cadmium	0.03	N/A	mg/L
Cobalt	16	N/A	mg/L
Copper	2	N/A	mg/L
Lead	0.1	N/A	mg/L
Nickel	0.7	ND	mg/L
Selenium	0.1	N/A	mg/L
Silver	1	N/A	mg/L
Total Chromium	1	ND	mg/L
Zinc	10	N/A	mg/L
Chromium (VI)	0.5	N/A	mg/L
Mercury	0.01	N/A	mg/L

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

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



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

Parameters	Disposal pathways						
	A and B	C	D	E	F	G	
pH	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	
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		Sample and report only		< 0.4 mg/kg			
Polycyclic Aromatic Hydrocarbons (PAHs)				< 0.2 mg/kg			
Chlorotoluenes							

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

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



SOFTLINES WASTEWATER TESTING

TEST REPORT

Number:TURA240014835

Photo of sampling points:







<p style="text-align: center;">X</p>	
<p>Photo of Incoming water [Insert photo date & time]</p>	<p>Photo of wastewater before treatment (untreated) [Insert photo date & time]</p>
	
<p>Photo of effluent [Insert photo date & time]</p>	<p>Photo of sludge [Insert photo date & time]</p>

Photo of samples:

<p style="text-align: center;">X</p>	
<p>Photo of Incoming water [Insert photo date & time]</p>	<p>Photo of untreated wastewater [Insert photo date & time]</p>
	
<p>Photo of effluent [Insert photo date & time]</p>	<p>Photo of sludge [Insert photo date & time]</p>



ZDHC İzleme / Monitoring

Atıksu ve Çamur Numune Alım Tutanağı, ZDHC SAP 2.1'e göre Ek-E dahil. Sampling Protocol for Wastewater and Sludge acc. ZDHC SAP 2.1 incl. Apdx. E									
Firma Adı Facility Name:		JNR MENSUCAT Tekstil San. ve Tic. A.Ş.							
Adres ve İlgili Address and Contact:		Kadirli OSB Mevki 2. etap 2. cad no:14 Kadirli/OSMANIYE Hulusi KARAHANLI							
Firma Türü Facility Type:		<input checked="" type="checkbox"/> Boya & Apre Dyeing & Finishing	<input checked="" type="checkbox"/> Kumaş Fabrikası Fabric Mill	<input checked="" type="checkbox"/> Yıkama & Apre Washing & Finishing	<input type="checkbox"/> Doğal Deri İşleme Natural Leather proc.	<input type="checkbox"/> Baskı Printing	<input type="checkbox"/> Yapay Deri İşleme Synthetic Leather proc.		
Numune Alım Tarihi Date of sampling:		30.01.2024							
Genel Numune Kodu Sample General ID (Eğer Varsa / If Available):		<input type="checkbox"/> Direkt Deşarj / Direct Discharge	<input checked="" type="checkbox"/> Dolaylı Deşarj / Indirect Discharge	<input type="checkbox"/> Sıfır Sıvı Deşarjı / Zero Liquid Discharge (ZLD)	<input type="checkbox"/> Sentetik Selülozik Elyaf / MMCF	<input type="checkbox"/> Arıtmasız / Without Treatment	<input type="checkbox"/> Ön Arıtmalı / With Pre-treatment		
Deşarj Tanımı Discharge Description:		Boyahane + Terbiye (Islak işletmeler)							
Hava Durumu Weather Conditions:		Numune Alım Gününde / On Sampling Day: Bulutlu			Önceki Gün / On Day Before: Bulutlu				
Numune Türü ve Detayları (ayrıca 2. Sayfaya bakın) / Sample Type and Details (also see page 2)									
<input checked="" type="checkbox"/> Atıksu Deşarjı / Effluent Discharge		<input type="checkbox"/> Direkt / Direct:		Veya / or <input checked="" type="checkbox"/> Dolaylı / Indirect		<input checked="" type="checkbox"/> Homojenizasyon / Dengeleme Tankı Mevcut with Homogenisation / Equalisation Tank (HT) Present:			
Numune alım zamanlarını ve saha ölçümlerini sayfa 2'deki numune detaylarına yazınız. Enter sampling times in sample details (page 2), and measure field parameters.		Numune alım zamanlarını yazınız. Talep harici saha ölçümleri gerekli değildir. Enter sampling time(s) for indirect discharge. Field parameters are not required, except on client's request.		Hidrolik Bekleme Süresi / Hydraulic Retention Time (HRT): 18 saat h (= Tank Hacmi Volume of tank [m³] / Debi Flow Rate [m³/h]) HRT >12 saat ise, arıtma öncesi ve sonrası anlık numune alımı yapılır. If HRT > 12h, grab sampling for both untreated and treated wastewater from a point after the HT could be applied.					
<input type="checkbox"/> Ön arıtmış Atıksu, Çamursuz / Pre-treated WW without sludge		<input checked="" type="checkbox"/> Arıtılmamış Atıksu / Untreated Wastewater		<input type="checkbox"/> Proses-Kullanım Suyu / Incoming Water		<input type="checkbox"/> Sentetik Selülozik Elyaf / MMCF			
<input checked="" type="checkbox"/> Çamur seçilen bertaraf yoluyla* Sludge with below disposal pathway: Çamur Yaşı / Age of Sludge: 5 gün/ hafta (days/ weeks)									
<input type="checkbox"/> A	<input checked="" type="checkbox"/> B	<input type="checkbox"/> C	<input type="checkbox"/> D	<input type="checkbox"/> E	<input type="checkbox"/> F	<input type="checkbox"/> G			
>1000 °C Harici Yakma Tesisi >1000 °C Offsite Incineration)	Kontrollü Düzenli Depolama Sahası Landfill with Significant Control	Kontrollü Düzenli Depolama Sahası Building products processed >1000 °C	Sınırlı Kontrollü Düzenli Depolama Sahası Landfill with Limited Control	<1000 °C Yapı Malzemesi Üretim Prosesi / Yakma Incineration / Building Products Processed <1000 °C	Düzensiz Depolama Sahası Landfill with No Control	Arazi Islahı Land Application			
*Eğer bertaraf yolu bilgisi sağlanmazsa, bertaraf yolu 'F' olarak kabul edilir. If supplier cannot provide information, pathway "F" shall be assumed.									
Üretilen Çamur Hacmi: 10 Om³/saat (m³/h) O L/saniye (L/sn) Sludge Volume Produced		O Diğer Birim (Belirtiniz) Other Unit (Specify):		O Firmadan Alınan Bilgi Per Facility Info		O Ölçülen O Tahmini Measured Estimated			
<input type="checkbox"/> Proses Kimyasalları Process Chemical		<input type="checkbox"/> Sıvı Liquid		<input type="checkbox"/> Katı (Toz / Granül / Parçacıklı) Solid (Powder / Granulate / Pieces)		<input checked="" type="checkbox"/> İşlemden 'In Process'			
<input type="checkbox"/> Depo / Stoktan From Warehouse / Storage									
Numune Alım Zamanları Times of Sampling	Arıtılmamış Atıksu Untreated	1	2	3	4	5	6	7	Veya Anlık or Grab: 14:00
	Dolaylı Deşarj Effluent Indirect:	1	2	3	4	5	6	7	Veya Anlık or Grab: 14:25
	Kullanım Suyu Incoming:	1	2	3	4	5	6	7	Veya Anlık or Grab:
	Sıvı Çamur Liquid Sludge:	1	2	3	4	5	6	7	Kuru Çamur Solid Sludge: 13:35
Fotoğraf No. (veya Tarih & Saat / Aralık) Picture ID (or Date & Time / Interval):	Numune Alım Noktalarının GPS Koordinatları GPS Coordinates of Sampling Points:								
	Kullanım Suyu/ Incoming W.:			Lat.: ON OS			Long.: OE OW		
	Arıtılmamış Atıksu/ Untreated WW:			Lat.: ON OS 37°25'45.1810"			Long.: OE OW 36°4'4.58970"		
	Deşarj/ Effluent:			Lat.: ON OS 37°25'42.7740"			Long.: OE OW 36°4'0.59200"		
Çamur/ Sludge:			Lat.: ON OS 37°25'44.58790"			Long.: OE OW 36°4'1.38170"			

SAMPLING PROTOCOL (PAGE 2 OF 3)



Form LG.469/30.05.2023/Rev.1

ZDHC İzleme / Monitoring

Numune Detayları		Saha ölçüm parametreleri sadece direkt deşarj için gereklidir. Ancak dolaylı deşarj için talep varsa bu alan kullanılmalıdır.						
Sample Details		Field parameters usually are required only for direct discharge . If client requests also for indirect discharge, use below fields.						
<input checked="" type="checkbox"/> Kompozit Numune Alım Composite Sample	<input type="checkbox"/> Anlık Numune Alım (Ortalama değer kolonunu kullanın) Grab Sample (Use column for Averaged Readings and fields at right)	Alınan Numunelerin Hacmi Volume of Aliquot(s): <u>20.000</u> mL						
Numune Alma Zamanları Time of Taking Discrete Sample	1	2	3	4	5	6	7	Ortalama Değerler veya Anlık Numune Ölçümleri Ava. Readings or Grab Sample:
pH:								
Sıcaklık Temp. of	Atıksu Deşarj WW Discharge	°C	°C	°C	°C	°C	°C	°C
Alıcı Ortam Receiving Water	°C	°C	°C	°C	°C	°C	°C	°C
Debi Flow Rate:	<u>54</u> m ³ /sa.(h)	<u>55</u> m ³ /sa.(h)	<u>54</u> m ³ /sa.(h)	<u>55</u> m ³ /sa.(h)	<u>54</u> m ³ /sa.(h)	<u>55</u> m ³ /sa.(h)	<u>55</u> m ³ /sa.(h)	<u>1300</u> m ³ /gün(d)
Çözülmüş Oksijen Dissolved Oxygen:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Toplam Klor Total Chlorine:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Kalıcı Köpük Persistent Foam:	<input type="radio"/> Var / Yes <input checked="" type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input checked="" type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input checked="" type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input checked="" type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input checked="" type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input checked="" type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input checked="" type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input checked="" type="radio"/> Yok / No
Numune adedi yedi'den fazla ve eğer yukarıdaki alan yeterli gelmezse, yorumlar kısmını kullanın. Use comment field if number of samples is greater than seven, or if above fields are otherwise not sufficient.								
Numune Alım Metodu Sampling Technique:	<input type="radio"/> Otomatik Numune Alım Automated Sampling							
	<input checked="" type="radio"/> Beher ile With Beaker							
	<input type="radio"/> Diğer Other: ..							
Atıksu Debi Bilgisi (Deşarj) Wastewater Flow Data (Effluent / Discharge)								
Ölçüm Sistemi System:	<input checked="" type="checkbox"/> Debi Metre (Firmanın) Flow Meter (In Facility)	<input type="checkbox"/> Boru (O) Pipe	<input type="checkbox"/> Su yolu (U) Flume	<input type="checkbox"/> V Çentikli Savak (V) Wier				
Çap [cm] Diameter								
Su Derinliği [cm] Water Depth								
Akış Hızı [cm/sec] Flow Speed								
Genel Saha Parametreleri ve Duyusal Veriler (mümkün olduğu kadar) General Field Parameters and Sensory Data (as far as applicable)								
Type	Ortam Sıcaklığı / T ambient air [°C]	Koku / Odour	Colour / Renk	Köpük / Foam	Yüzer Madde / Floating Matter			
Kullanım Incoming				<input type="radio"/> Var / Yes <input type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input type="radio"/> Yok / No			
Artılmamış Untreated	<u>12°C</u>	<u>Yok</u>	<u>Kayıp lacivert</u>	<input type="radio"/> Var / Yes <input checked="" type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input checked="" type="radio"/> Yok / No			
Deşarj Effluent	<u>12°C</u>	<u>Yok</u>	<u>Reffof</u>	<input type="radio"/> Var / Yes <input checked="" type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input checked="" type="radio"/> Yok / No			
Saha Kalite Kontrol Çalışması Field Testing QA/QC								
Parametre Parameter	Lab. Kontrol Numunesi Hedef Değer Lab. Control Sample Target Value	Lab. Kontrol Numunesi Ölçülen Değer Lab. Control Sample Measured Value	Doğruluk [%] Accuracy					
pH								
Toplam Klor / Total Chlorine								
Diğer Gözlemler / Other Observations: İşletmede fiziksel, kimyasal ve biyolojik artma mevcut 24 saat faaliyet mevcuttur. 1500m ³ dengeleme havuzu vardır. Günlük atıksu debisi 1300 m ³ civarındadır.								
İlave Yorumlar (ör., kullanılan kısaltmalar, alternatif olarak ölçülen debi ve okumalar, vb.) Additional Comments (e.g., abbreviations used, alternatively measured flow and readings, etc.): <u>İlave yorum mevcut değildir.</u>								

JNR MENSUCAT
Tekstil Sanayi ve Ticaret A.Ş.
Kadirli OSB Mevkii (2.Etaz) Cad. 14 201
Yusufzade Köyü Merkez Bünye / KADIRLI / OSMANIYE
Kadirli Y.D. 481 090 5543 Ticaret Sicil No: 2961
Mersis No: 0484 0905 3430 0011

Rev 10b-3 - use with Guideline CS009.TP (Issue 10b)

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ZDHC İzleme / Monitoring

ZDHC Atıksu Numune Alımı - Firma Onayı ZDHC Wastewater Sampling - Facility Confirmation

Atıksu numuneleri firmanın normal üretim düzeni ve atıksu deşarjı kapsamında alınmıştır. Aşağıda belirtilen numune alım personeli sahada bulunarak numuneleri toplamıştır.

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.

Numune Alım Personeli (Ad-Soyad & E-mail Adresi)

Sampling Person (Name & E-mail Address):

Ersin AYDOĞAN
ektax.turkey@intertek.com

Firma İsmi

Facility Name:

JNR Mensucat Tekstil San.ve Tic.A.Ş.

Numune Alım Personeli ZDHC Akreditasyon Numarası

Sampler's ZDHC Accreditation No.:

ZDHC-A-22-E-C001068-R21DE-56D9D

Firma Temsilcisi Ad-Soyad

Facility's Representative Name:

Hulusi KAHANLI

Numune Alım Personeli İmza

Sampler's Signature:



Firma Temsilcisi İmza ve Firma Kaşesi

Facility's Representative Signature and Stamp:


JNR MENSUCAT
Tekstil Sanayi ve Ticaret A.Ş.
Kadirli OSB/Mevkii /2.Etap/ Cad. 14 201
Yusufozattin Köyü Merkez/Bucağı Kadirli / OSMANIYE
Kadirli V.D. 46 / 090 / 5843 Ticaret Sicil No: 2961
Merkezi No: 0124 0905 3430 0011

SOFTLINES WASTEWATER TESTING
TEST REPORT

Number:TURA240014835

Document on sludge disposal or licensed third-party waste contractor for sludge disposal. (If factory cannot provide it, please mark "Not provided")

Not provided

