

# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:TURA240055169

Date of sampling	08/05/2024
Reporting Date	13/05/2024

Audit ID	171731	Audit firm	INTERTEK TURKEY
Company name	TRIKOTEK TEKSTIL SANVE TIC A.S.		
Contact person	RABIA BEKTAŞ		
Type of tax - tax ID no	8590060698		
Address	1 OSB MAH. 2. CAD. NO:52/1 IC KAPI NO:1		
Region state province	MALATYA		
Town city / village	YESILYURT		
Zip/Post code	-		
Country	TURKEY		

Type of wastewater discharge				
Type of wastewater discharge:	ZLD			
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"/> Coagulation/Flocculation	<input checked="" type="checkbox"/> Activated sludge process Aerobic reactor	<input checked="" type="checkbox"/> Absorption with activated carbon
	<input checked="" type="checkbox"/> Homogenization tank	<input checked="" type="checkbox"/> Dissolved air flotation (DAF)	<input type="checkbox"/> Biological Biofilm reactor (MBBR, SAF, RBC...)	<input type="checkbox"/> High rate filtration
	<input checked="" type="checkbox"/> pH correction	<input checked="" type="checkbox"/> Sedimentation tanks or Settler/Clarifier	<input type="checkbox"/> BSequencing batch reactor (SBR)	<input type="checkbox"/> Advanced oxidation techniques (Ozone, Fenton reaction, photo catalytic degradation...)
	<input type="checkbox"/> Other	<input type="checkbox"/> Other	<input type="checkbox"/> Other	
Description of discharge:	ZLD			
[If direct discharge] ambient temperature of receiving water body (°C):	N/A			
Average total industrial wastewater generated (m3/day):	210 m3/day			

Sludge Disposal Pathway	C
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Sampler accreditation certification number (ZDHC):		ZDHC-A-23-E-C001068-R33C6-82212	
Sample description	Simple	Composite	Comments
(1) Untreated wastewater (BT)	X	[Blue, composite sample at; 09:20, 10:20, 11:20, 12:20, 13:20, 14:20, 15:20] [Sampling location: Latitude 38.34331, Longitude 38.18138]	X
(2) Treated wastewater (AT)	X	X	X
(3) Sludge	[Blue, grab sample at 13:05] [Sampling location: Latitude 38.34298, Longitude 38.18158]	X	[pH; 5.7]



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	09/05/2024
Date and time of the beginning of sampling	08/05/2024,09:20
Date and time of the end of sampling	08/05/2024,15:20
Testing period	09/05/2024 to 13/05/2024
Reporting date	13/05/2024
Arrival Temperature at Lab	7.4°C
Internal codification number	N/A
Reference sample number	TURA240055169
Comments	Samples received within 17 hours.

# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:TURA240055169

Summary of test results		
Wastewater/ MRSL - Test items	Testing period	Sample 1 (untreated)
Alkylphenols (APs) & Alkylphenol ethoxylates (APEOs)	From 09/05/2024 to 13/05/2024	ND
Anti - Microbials & Biocides	From 09/05/2024 to 13/05/2024	ND
Chlorinated parafins	From 09/05/2024 to 13/05/2024	ND
Chlorobenzenes and Chlorotoluenes	From 09/05/2024 to 13/05/2024	D
Chlorophenols	From 09/05/2024 to 13/05/2024	ND
Dimethyl Formamide (DMFa) (*)	From 09/05/2024 to 13/05/2024	ND
Dyes – Carcinogenic or Equivalent Concern	From 09/05/2024 to 13/05/2024	ND
Dyes – Disperse (Allergenic)	From 09/05/2024 to 13/05/2024	ND
Dyes-Navy Blue Colourant	From 09/05/2024 to 13/05/2024	ND
Flame retardants	From 09/05/2024 to 13/05/2024	ND
Glycols	From 09/05/2024 to 13/05/2024	ND
Halogenated solvents	From 09/05/2024 to 13/05/2024	ND
Organotin compounds	From 09/05/2024 to 13/05/2024	ND
Other/Miscellaneous Chemicals (^)	From 09/05/2024 to 13/05/2024	ND
Perfluorinated chemicals (PFCs)	From 09/05/2024 to 13/05/2024	ND
Phthalates	From 09/05/2024 to 13/05/2024	ND
Polycyclic aromatic hydrocarbons (PAHs)	From 09/05/2024 to 13/05/2024	ND
Restricted Aromatic Amines (Cleavable from Azo- colourants) Azo dyes	From 09/05/2024 to 13/05/2024	ND
UV Absorbers	From 09/05/2024 to 13/05/2024	ND
Volatile organic compounds (VOCs)	From 09/05/2024 to 13/05/2024	ND



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:TURA240055169

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

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



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:TURA240055169

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 09/05/2024 to 13/05/2024	Meet	
Arsenic	From 09/05/2024 to 13/05/2024	Meet	
Barium	From 09/05/2024 to 13/05/2024	Meet	
Cadmium	From 09/05/2024 to 13/05/2024	Meet	
Cobalt	From 09/05/2024 to 13/05/2024	Meet	
Copper	From 09/05/2024 to 13/05/2024	Meet	
Lead	From 09/05/2024 to 13/05/2024	Meet	
Nickel	From 09/05/2024 to 13/05/2024	Meet	
Selenium	From 09/05/2024 to 13/05/2024	Meet	
Silver	From 09/05/2024 to 13/05/2024	Meet	
Chromium (total)	From 09/05/2024 to 13/05/2024	Meet	
Zinc	From 09/05/2024 to 13/05/2024	Meet	
Chromium VI	From 09/05/2024 to 13/05/2024	Meet	
Mercury	From 09/05/2024 to 13/05/2024	Meet	

Sludge / Anion - Test items	Testing period	Sample 3: Sludge
Cyanide	From 09/05/2024 to 09/05/2024	Meet

Sludge / Conventional parameters - Test items	Testing period	Sample 3: Sludge
pH	From 09/05/2024 to 09/05/2024	Meet
% Solids	From 09/05/2024 to 09/05/2024	72.8
Paint filter test	From 09/05/2024 to 09/05/2024	Meet
Faecal coliform	From 09/05/2024 to 13/05/2024	Meet



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:TURA240055169

Sludge / MRSL - Test items	Testing period	Sample 3: Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	From 09/05/2024 to 13/05/2024	ND
Polycyclic Aromatic Hydrocarbons (PAHs)	From 09/05/2024 to 13/05/2024	ND
Chlorotoluenes	From 09/05/2024 to 13/05/2024	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 WWSG 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.

<sup>[f]</sup> = 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

## Test results

## 1. Conventional parameters

Wastewater/ Conventional parameters - Test items	Test method	Limit			Lab Reporting Limit	Result	
		Foundational	Progressive	Aspirational		Sample 2 (After treatment)	Unit
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]

# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:TURA240055169

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.





**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	N/A	mg/L
Cadmium (Cd)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	N/A	mg/L
Mercury (Hg)	Various	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.001 mg/L	N/A	mg/L
Lead (Pb)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	N/A	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	N/A	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&amp;APEOs (n=1,2): modified from ISO 18857-1, ISO 18857-2, ASTM D7065) (GC-MS analysis)

APs&amp;APEOs (n&gt;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-Dichlorobenzene	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	0.5	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

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 Ketone	548-62-9	500	500	ND	µg/L

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



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:TURA240055169

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	ND	µg/L
Diboron trioxide**	1303-86-2	100 in Boron	100 in Boron	ND	µg/L
Disodium octaborate**	12008-41-2	100 in Boron	100 in Boron	ND	µg/L
Disodium tetraborate anhydrous**	1303-96-4 / 1330-43-4	100 in Boron	100 in Boron	ND	µg/L
Tetraboron disodium heptaoxide, hydrate**	12267-73-1	100 in Boron	100 in Boron	ND	µg/L

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



**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

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

**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

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	ND	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: C <sub>39</sub> H <sub>23</sub> Cl-CrN <sub>7</sub> O <sub>12</sub> S <sub>2</sub> 2Na	118685-33-9	500	500	ND	µg/L
Component 2: C <sub>46</sub> H-30CrN <sub>10</sub> O <sub>20</sub> S <sub>2</sub> 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:ND Zinc: 139.2	µg/L

^^ = Report total boron &amp; 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-tertbutylpheno	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	ND	mg/kg
Lead	5	5	ND	mg/kg
Nickel	20	20	22	mg/kg
Selenium	5	5	ND	mg/kg
Silver	50	50	ND	mg/kg
Total Chromium	50	50	ND	mg/kg
Zinc	400	400	ND	mg/kg
Chromium (VI)	20	20	ND	mg/kg
Mercury	1	1	ND	mg/kg

**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	5.7	N/A
% Solids	USEPA 160.3	N/A	72.8	%
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&gt;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

# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:TURA240055169

### 28. Sludge Parameters - Step 1 - MRSL – Chlorotoluenes

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

Sludge Parameters - 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



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:TURA240055169

### 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	N/A	mg/L
Selenium	0.1	N/A	mg/L
Silver	1	N/A	mg/L
Total Chromium	1	N/A	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		5 – 11 s.u.	5 – 11 s.u.	5 – 11 s.u.	6.5 – 9 s.u.	6.5 – 9 s.u.	
% Solids	Sample and report only	Sample and report only	Sample and report only	Sample and report only	Sample and report only	Sample and report only	
Fecal Coliform					< 1000 (MPN/g)		
Paint Filter Test			Pass Paint filter test				Sample and report only
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers			< 0.4 mg/kg				
Polycyclic Aromatic Hydrocarbons (PAHs)			< 0.2 mg/kg				
Chlorotoluenes							

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

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





Photo of sampling points:	
X	
Photo of Incoming water -	Photo of wastewater before treatment (untreated) 08/05/2024 & 09:10
X	
Photo of effluent -	Photo of sludge 08/05/2024 & 12:05

Photo of samples:	
X	
Photo of Incoming water -	Photo of untreated wastewater 09/05/2024 & 08:00
X	
Photo of effluent -	Photo of sludge 09/05/2024 & 08:00





## SAMPLING PROTOCOL (PAGE 1 OF 3)

Form LG.469/11.03.2024/Rev.2



## 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:	TRIKOTEX TEKS. SAN. VE TIC. A.Ş.					
Adres ve İlgili Address and Contact:	3.OSB. 2 CAD. No:5212 Yeşilyurt (Malatya).					
Firma Türü Facility Type:	<input type="checkbox"/> Boya & Apre Dyeing & Finishing	<input 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:	08.05.2024					
Genel Numune Kodu Sample General ID (Eğer Varsa / If Available):	<input type="checkbox"/> Direkt Deşarj / Direct Discharge Dolaylı Deşarj / Indirect Discharge		<input checked="" type="checkbox"/> Arıtmasız / Without Treatment Ön Arıtmalı / With Pre-treatment		Deşarj Yeri / Discharge to:	
Deşarj Tanımı Discharge Description:	<input checked="" type="checkbox"/> Sıfır Sıvı Deşarjı / Zero Liquid Discharge (ZLD)		<input checked="" type="checkbox"/> Arıtma Tesisi Var / With Own ETP		-	
Hava Durumu Weather Conditions:	Numune Alım Gününde / On Sampling Day:		Önceki Gün / On Day Before:			
	Güneşli		Parçalı Bulutlu			

## Numune Türü ve Detayları (ayrıca 2. Sayfaya bakın) / Sample Type and Details (also see page 2)

Atıksu Deşarjı / Effluent Discharge	<input type="radio"/> Direkt / Direct: veya / or <input type="radio"/> Dolaylı / Indirect	<input checked="" type="radio"/> AAT var / Facility has WWTP	<input checked="" type="checkbox"/> Dengeleme Tankı (DT) Mevcut / with Equalisation Tank (EQT) 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.	Ön Arıtma Tesisi / Pre-treatment / Plant is in operating condition	Hidrolik Bekleme Süresi (HBS) / Hydraulic Retention Time (HRT) : 6 saat h (= Tank Hacmi Volume of tank [m³] / Debi Flow Rate [m³/h]) HRT > 12 saat ise numune alımı yapılır. If HRT > 12h, grab sampling from EQT is allowed.
<input type="checkbox"/> Ön arıtmış Atıksu, Çamursuz / Pre-treated WW without sludge	<input checked="" type="checkbox"/> Arıtılmamış Atıksu / Untreated Wastewater	<input checked="" type="checkbox"/> DT Mevcut / with EQT: HBS / HRT : 6 saat HRT > 12 saat ise numune alımı yapılır. If HRT > 12h, grab sampling from EQT is allowed.	<input type="checkbox"/> Tesis Kullanım Suyu / Incoming Water
<input checked="" type="checkbox"/> Çamur seçilen bertaraf yoluyla* Sludge with below disposal pathway: Çamur Yaşı / Age of Sludge: 1 gün / hafta (days / weeks)			
<input type="radio"/> A	<input type="radio"/> B	<input checked="" type="radio"/> C	<input type="radio"/> D
>1000 °C Harici Yakma Tesisi >1000 °C Offsite Incineration	Kontrollü Düzenli Depolama Sahası Landfill with Significant Control	>1000 °C Yapı Malzemesi Üretim Prosesi Building products processed >1000 °C	Sınırlı Kontrollü Düzenli Depolama Sahası Landfill with Limited Control
		<input type="radio"/> E	<input type="radio"/> F
		<1000 °C Yapı Malzemesi Üretim Prosesi / Yakma Incineration / Building Products Processed <1000 °C	Düzensiz Depolama Sahası Landfill with No Control
			Arazi İslahı 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: 239 kg/sr Sludge Volume Produced	Om³/saat (m³/h) OL/saniye (L/sn) Diğer Birim (Belirtiniz) Other Unit (Specify):	<input type="radio"/> Firmadan Alınan Bilgi Per Facility Info	<input type="radio"/> Ölçülen Measured	<input type="radio"/> Tahmini Estimated					
<input type="checkbox"/> Proses Kimyasalları Process Chemical	<input type="radio"/> Sıvı Liquid	<input type="radio"/> Katı (Toz / Granül / Parçacıklı) Solid (Powder / Granulate / Pieces)	<input checked="" type="checkbox"/> İşlemden 'In Process'	<input checked="" 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: Sıcaklık = 30
	Dolaylı Deşarj / Indirect:	1	2	3	4	5	6	7	Veya Anlık or Grab:
	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: 13.05
Fotoğraf No. (veya Tarih & Saat / Aralık) Picture ID (or Date & Time / Interval):	Numune Alım Noktalarının GPS Koordinatları GPS Coordinates of Sampling Points:								
	Tesis Kullanım Suyu / Incoming W.:	Lat.: ON OS			Long.: OE OW				
	Arıtılmamış Atıksu / Untreated WW:	Lat.: ON OS 38.34331			Long.: OE OW 38.181582				
	Deşarj / Effluent:	Lat.: ON OS			Long.: OE OW				
	Çamur / Sludge:	Lat.: ON OS 38.34298			Long.: OE OW 38.181582				

Rev 10b-4 - use with Guideline CS009.TP (Issue 10b)

Page 1 of 3

Effective Date: 04-Sept-2023

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## SAMPLING PROTOCOL (PAGE 2 OF 3)



Form LG.469/11.03.2024/Rev.2

## ZDHC İzleme / Monitoring

Numune Detayları		Saha ölçüm parametreleri sadece <b>direkt deşarj</b> 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): <b>2000.0</b> 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
Debi Flow Rate:	m <sup>3</sup> /sa.(h)	m <sup>3</sup> /sa.(h)	m <sup>3</sup> /sa.(h)	m <sup>3</sup> /sa.(h)	m <sup>3</sup> /sa.(h)	m <sup>3</sup> /sa.(h)	m <sup>3</sup> /sa.(h)	<b>210</b> m <sup>3</sup> /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 type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input 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 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			
Aritılmamış Untreated	<b>19°</b>	<b>Yok</b>	<b>Mavi</b>	<input type="radio"/> Var / Yes <input checked="" type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input checked="" type="radio"/> Yok / No			
Deşarj Effluent				<input type="radio"/> Var / Yes <input type="radio"/> Yok / No	<input type="radio"/> Var / Yes <input type="radio"/> Yok / No			
Çamur Sludge	<b>19°</b>	<b>Yok</b>	<b>Mavi</b>					
Saha Kalite Kontrol Çalışması Field Testing QA/QC								
Parametre	Lab. Kontrol Numunesi Hedef Değer	Lab. Kontrol Numunesi Ölçülen Değer		Doğruluk [%]				
Parameter	Lab. Control Sample Target Value	Lab. Control Sample Measured Value		Accuracy				
pH								
Toplam Klor / Total Chlorine								
Diğer Gözlemler / Other Observations: <b>Firmada kimyasal biyolojik denetim ve dengeleme mevcuttur ileri arıtma sistemi ileri üttürme filtrasyon sistemi mevcut firma atık su 100% geri kazanım yapılmaktadır.</b>								
İlave Yorumlar (ör., kullanılan kısaltmalar, alternatif olarak ölçülen debi ve okumalar, vb.) Additional Comments (e.g., abbreviations used, alternatively measured flow and readings, etc.): <b>ilave yorum yoktur.</b>								





## SAMPLING PROTOCOL (PAGE 3 OF 3)



Form LG.469/11.03.2024/Rev.2

## 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-posta Adresi)**

Sampling Person (Name &amp; E-mail Address):

Sinan ALP ATLI  
detex.turkey@intertek.com

**Firma İsmi**

Facility Name:

Trikotek Tekstil San ve Tic. A.Ş.

**Numune Alım Personeli ZDHC Akreditasyon Numarası**

Sampler's ZDHC Accreditation No.:

ZOMC-A-23-E-C001068-R33C6-82212

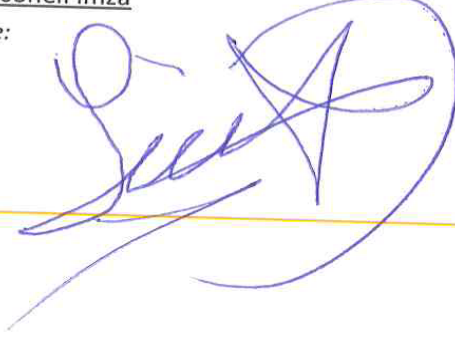
**Firma Temsilcisi Ad-Soyad**

Facility's Representative Name:

Rabia BEKTAŞ

**Numune Alım Personeli İmza**

Sampler's Signature:


**Firma Temsilcisi İmza ve Firma Kaşesi**

Facility's Representative Signature and Stamp:

