

TEST REPORT

FACTORY INFORMATION	
Name	: MERKOTEKS TEKSTİL SAN. VE TİC.A. Ş.
Address	: 15 TEMMUZ MAH. HALKALI CAD. NO:113 GÜNEŞLİ BAĞCILAR / İSTANBUL
Telephone / Fax	: 02126579747/ 02126579754
VAT Office / Number	: MARMARA KURUMLAR/6170365240
Application Date	: 28.02.2022
Application Number	: T-86400-2022-01

SAMPLE INFORMATION	
Sample Type	: Wastewater Discharge
Sample Name	: -
No. of Samples	: 1
Sampling Date	: 15.03.2022
Sampling Location	: Discharge Wastewater
Sampling Method	: 6 Hours Composite
Sample Arrival Type	: Sampling by our Laboratory
Sample Volume	: 21 L water in total
Sample Received Date	: 15.03.2022
Sample ID	: AS-15032022-002
Test Performing Period	: 15.03.2022-05.04.2022
Report Date	: 21.04.2022
Report No	: R-86400-2022-01

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Factory Name: MERKOTEKS TEKSTİL SAN.VE TİC.A. Ş.			Sample ID		AS-15032022-002	ZDHC Limits		
			Date of sampling		15.03.2022			
Factory Address: 15 TEMMUZ MAH. HALKALI CAD. NO:113 GÜNEŞLİ BAĞCILAR / İSTANBUL			Sampling Location		Discharge Wastewater			
			Sampling start time		10:45			
			Sampling end time		16:45			
			Date of sample received		15.03.2022			
			Sample Description		Wastewater			
ITEMS	CAS No.	Methods	Reporting Limit	Unit	Discharge Wastewater Results	Foundational Limit	Progressive Limit	Aspirational Limit
						mg/L	mg/L	mg/L
1. Conventional Parameters								
Temperature	-	SM 2550 B	-	°C	16,8	Δ15 / max.35	Δ10 or 30	Δ5 or 25
BOD (5-day)	-	SM 5210 B	2	n.d	9,74	30	10	5
COD	-	SM 5220 B	5	mg/L	31	150	80	40
TSS	-	SM 2540 D	5	mg/L	n.d	50	15	5
pH Value	-	SM 4500 H+ B	-	-	8,55	6-9		
Color (RES 436 nm)	-	TS EN ISO 7887	1	m ⁻¹	1	7	5	2
Color (RES 525 nm)	-	TS EN ISO 7887	0,3	m ⁻¹	0,6	5	3	1
Color (RES 620 nm)	-	TS EN ISO 7887	0,3	m ⁻¹	0,5	3	2	1
Oil and Grease	-	TS EN ISO 9377-2	0,1	mg/L	n.d	10	2	1
Total phenolics	-	SM 5530 B SM 5530 C	0,001	mg/L	n.d	0,5	0,01	0,001
AOX	-	TS EN ISO 9562	0,1	mg/L	n.d	5	1	0,1
Total Nitrogen (Total-N)	-	TS EN 12260	0,25	mg/L	2,681	20	10	5
Ammonium Nitrogen (Ammonium-N)	-	SM 4500 NH ₃ F	0,01	mg/L	n.d	10	1	0,5
Total Phosphorus (Total-P)	-	SM 4500 P B SM 4500 P E	0,01	mg/L	0,023	3	0,5	0,1
Coliform	-	SM 9222 B	-	UFC /100ml	92	400	100	25
Foam	-	N/A	Not visible	-	Not visible	Not visible	Not visible	Not visible
1. Anions								
Cyanide	-	SM 4500 CN- C, SM 4500 CN- E	0,02	mg/L	n.d.	0,2	0,1	0,05
Sulfide	-	SM 4500 S2- D	0,1	mg/L	n.d.	0,5	0,05	0,01
Sulfite	-	SM 4500 SO ₃ ²⁻ C	0,1	mg/L	n.d.	2	0,5	0,2
1. Metals								
Total Antimony (Sb)	7440-36-0	With reference to USEPA 200.7 or Acid Digestion followed by ICP/OES analysis	0,005	mg/L	n.d.	0,1	0,05	0,01
Total Arsenic (As)	7440-38-2	USEPA 200.7	0,01	mg/L	n.d.	0,05	0,01	0,005
Total Cadmium (Cd)	7440-43-9	USEPA 200.7	0,003	mg/L	n.d.	0,1	0,05	0,01
Total Chromium (Cr)	7440-47-3	USEPA 200.7	0,01	mg/L	n.d.	0,2	0,1	0,05
Total Hexavalent Chromium (Cr- VI)	7440-47 3, 18540-29-9	SM 3500 Cr B	0,001	mg/L	n.d.	0,05	0,005	0,001
Total Cobalt (Co)	7440-48-4	USEPA 200.7	0,01	mg/L	n.d.	0,05	0,02	0,01

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						mg/L	mg/L	mg/L
Total Copper (Cu)	7440-50-8	USEPA 200.7	0,01	mg/L	0,015	1	0,5	0,25
Total Lead (Pb)	7439-92-1	USEPA 200.7	0,01	mg/L	n.d.	0,1	0,05	0,01
Total Mercury (Hg)	7439-97-6	USEPA 200.7	0,001	mg/L	n.d.	0,01	0,005	0,001
Total Nickel (Ni)	7440-02-0	USEPA 200.7	0,01	mg/L	0,027	0,2	0,1	0,05
Total Silver (Ag)	7440-22-4	USEPA 200.7	0,005	mg/L	n.d.	0,1	0,05	0,005
Total Zinc (Zn)	7440-66-6	USEPA 200.7	0,01	mg/L	0,103	5	1	0,5
2A. Alkylphenols (APs) and Alkylphenol Ethoxylates (APEOs)								
Octylphenol (OP), mixed isomers	Multiple, including 140-66-9, 1806-26-4, 27193-28-8	With reference to ASTM D7065 followed by GC/MS	0,2	µg/L	n.d.	-	-	-
Nonylphenol (NP), mixed isomers	Multiple, including 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3,	With reference to ASTM D7065 followed by GC/MS	0,2	µg/L	n.d.	-	-	-
Octylphenol ethoxylates (OPEO)	Multiple, including 9002-93-1, 9036-19-5, 68987-90-6	With reference to ASTM D7065 followed by GC/MS	0,2	µg/L	n.d.	-	-	-
Nonylphenol ethoxylates (NPEO)	Multiple, including 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4,	With reference to ASTM D7065 followed by GC/MS	0,2	µg/L	n.d.	-	-	-
2B. Chlorobenzenes and Chlorotoluenes (COCs)								
Monochlorobenzene	108-90-7	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
1,2-Dichlorobenzene	95-50-1	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
1,3-Dichlorobenzene	541-73-1	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
1,4-Dichlorobenzene	106-46-7	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
1,2,3-Trichlorobenzene	87-61-6	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
1,2,4-Trichlorobenzene	120-82-1	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-

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						mg/L	mg/L	mg/L
1,3,5-Trichlorobenzene	108-70-3	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
1,2,3,4-Tetrachlorobenzene	634-66-2	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
1,2,3,5-Tetrachlorobenzene	634-90-2	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
1,2,4,5-Tetrachlorobenzene	95-94-3	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
Pentachlorobenzene	608-93-5	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
Hexachlorobenzene	118-74-1	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
2-Chlorotoluene	95-49-8	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
3-Chlorotoluene	108-41-8	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
4-Chlorotoluene	106-43-4	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
2,3-Dichlorotoluene	32768-54-0	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
2,4-Dichlorotoluene	95-73-8	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
2,5-Dichlorotoluene	19398-61-9	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
2,6-Dichlorotoluene	118-69-4	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
3,4-Dichlorotoluene	95-75-0	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
3,5-Dichlorotoluene	25186-47-4	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-

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ITEMS	CAS No.	Methods	Reporting Limit	Unit	Discharge Wastewater Results	Foundational Limit	Progressive Limit	Aspirational Limit
						mg/L	mg/L	mg/L
2,3,4-Trichlorotoluene	7359-72-0	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
2,3,6-Trichlorotoluene	2077-46-5	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
2,4,5-Trichlorotoluene	6639-30-1	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
2,4,6-Trichlorotoluene	23749-65-7	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
3,4,5-Trichlorotoluene	21472-86-6	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
2,3,4,5-Tetrachlorotoluene	76057-12-0	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
2,3,5,6-Tetrachlorotoluene	875-40-1	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
2,3,4,6-Tetrachlorotoluene	29733-70-8	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
Pentachlorotoluene	877-11-2	With reference to EPA 8121 or solvent extraction followed by GC/ECD analysis	0,2	µg/L	n.d.	-	-	-
2C. Chlorophenols								
2-Chlorophenol	95-57-8	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
3-Chlorophenol	108-43-0	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis.	0,5	µg/L	n.d.	-	-	-
4-Chlorophenol	106-48-9	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
2,3-Dichlorophenol	576-24-9	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
2,4-Dichlorophenol	120-83-2	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
2,5-Dichlorophenol	583-78-8	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-

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ITEMS	CAS No.	Methods	Reporting Limit	Unit	Discharge Wastewater Results	Foundational Limit	Progressive Limit	Aspirational Limit
						mg/L	mg/L	mg/L
2,6-Dichlorophenol	87-65-0	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
3,4-Dichlorophenol	95-77-2	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
3,5-Dichlorophenol	591-35-5	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
2,3,4-Trichlorophenol	15950-66-0	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
2,3,5-Trichlorophenol	933-78-8	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
2,3,6-Trichlorophenol	933-75-5	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
2,4,5-Trichlorophenol	95-95-4	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
2,4,6-Trichlorophenol	88-06-2	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
3,4,5-Trichlorophenol	609-19-8	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
2,3,4,5-Tetrachlorophenol	4901-51-3	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
2,3,4,6-Tetrachlorophenol	58-90-2	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
2,3,5,6-Tetrachlorophenol	935-95-5	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
Pentachlorophenol	87-86-5	With reference to USEPA 8041A solvent extraction followed by GC/FID analysis	0,5	µg/L	n.d.	-	-	-
2D. Azo Dyes								

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						mg/L	mg/L	mg/L
4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithionite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
4,4'-Diaminodiphenylmethane	101-77-9	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithionite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
4,4'-Oxydianiline	101-80-4	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithionite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
p-Chloroaniline	106-47-8	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithionite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
3,3'-Dimethoxybenzidine	119-90-4	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithionite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
3,3'-Dimethylbenzidine	119-93-7	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithionite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
p-Cresidine	120-71-8	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithionite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
2,4,5-Trimethylaniline	137-17-7	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithionite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-

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						mg/L	mg/L	mg/L
4,4'-Thiodianiline	139-65-1	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithionite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
p-Aminoazobenzene	60-09-3	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithionite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
2,4-Diaminoanisole	615-05-4	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithionite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithionite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
2,6-Xylidine	87-62-7	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithionite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
o-Anisidine	90-04-0	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithionite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
2-Naphthylamine	91-59-8	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithionite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
3,3'-Dichlorobenzidine	91-94-1	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithionite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
4-Aminodiphenyl	92-67-1	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium	0,1	µg/L	n.d.	-	-	-

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			Sampling Location		Discharge Wastewater			
			Sampling start time		10:45			
			Sampling end time		16:45			
			Date of sample received		15.03.2022			
			Sample Description		Wastewater			
ITEMS	CAS No.	Methods	Reporting Limit	Unit	Discharge Wastewater Results	Foundational Limit	Progressive Limit	Aspirational Limit
						mg/L	mg/L	mg/L
		dithonite reduction followed by GC/MS or LC/MS analysis						
Benzidine	92-87-5	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithonite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
o-Toluidine	95-53-4	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithonite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
2,4-Xylidine	95-68-1	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithonite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
4-Chloro-o-Toluidine	95-69-2	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithonite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
2,4-Toluylenediamine	95-80-7	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithonite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
o-Aminoazotoluene	97-56-3	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithonite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
2-Amino-4-Nitrotoluene	99-55-8	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or solvent extraction with sodium dithonite reduction followed by GC/MS or LC/MS analysis	0,1	µg/L	n.d.	-	-	-
2E. Carcinogenic Dyes								
Direct Black 38	1937-37-7	Solvent extraction followed by LC/MS analysis	500	µg/L	n.d.	-	-	-
Direct Blue 6	2602-46-2	Solvent extraction followed by LC/MS analysis	500	µg/L	n.d.	-	-	-

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ITEMS	CAS No.	Methods	Reporting Limit	Unit	Discharge Wastewater Results	Foundational Limit	Progressive Limit	Aspirational Limit
						mg/L	mg/L	mg/L
Acid Red 26	3761-53-3	Solvent extraction followed by LC/MS analysis	500	µg/L	n.d.	-	-	-
Basic Red 9	569-61-9	Solvent extraction followed by LC/MS analysis	500	µg/L	n.d.	-	-	-
Direct Red 28	573-58-0	Solvent extraction followed by LC/MS analysis	500	µg/L	n.d.	-	-	-
Basic Violet 14	632-99-5	Solvent extraction followed by LC/MS analysis	500	µg/L	n.d.	-	-	-
Disperse Blue 1	2475-45-8	Solvent extraction followed by LC/MS analysis	500	µg/L	n.d.	-	-	-
Disperse Blue 3	2475-46-9	Solvent extraction followed by LC/MS analysis	500	µg/L	n.d.	-	-	-
Basic Blue 26	2580-56-5	Solvent extraction followed by LC/MS analysis	500	µg/L	n.d.	-	-	-
Basic Green 4 (malachite green chloride)^	569-64-2	Solvent extraction followed by LC/MS analysis	500	µg/L	n.d.	-	-	-
Basic Green 4 (malachite green oxalate)^	2437-29-8	Solvent extraction followed by LC/MS analysis	500	µg/L	n.d.	-	-	-
Basic Green 4 (malachite green)	10309-95-2	Solvent extraction followed by LC/MS analysis	500	µg/L	n.d.	-	-	-
Disperse Orange 11	82-28-0	Solvent extraction followed by LC/MS analysis	500	µg/L	n.d.	-	-	-
2F. Disperse dyes								
Disperse Yellow 1	119-15-3	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
Disperse Blue 102	12222-97-8	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
Disperse Blue 106	12223-01-7	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
Disperse Yellow 39	12236-29-2	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
Disperse Orange 37/59/76	13301-61-6	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
Disperse Brown 1	23355-64-8	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
Disperse Orange 1	2581-69-3	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
Disperse Yellow 3	2832-40-8	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
Disperse Red 11	2872-48-2	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
Disperse Red 1	2872-52-8	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
Disperse Red 17	3179-89-3	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
Disperse Blue 7	3179-90-6	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
Disperse Blue 26	3860-63-7	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-

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						mg/L	mg/L	mg/L
Disperse Yellow 49	54824-37-2	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
Disperse Blue 35	12222-75-2, 56524-77-7	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
Disperse Blue 124	61951-51-7	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
Disperse Yellow 9	6373-73-5	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
Disperse Orange 3	730-40-5	Solvent extraction followed by LC/MS analysis.	50	µg/L	n.d.	-	-	-
2G. Flame retardants								
Polybrominated biphenyls (PBBs)	59536-65-1	With reference to USEPA 527 solvent extraction followed by GC/MS	50	µg/L	n.d.	-	-	-
Pentabromodiphenyl ethers (PentaBDE)	32534-81-9	With reference to USEPA 527 solvent extraction followed by GC/MS	50	µg/L	n.d.	-	-	-
Octabromodiphenyl ethers (OctaBDE)	32536-52-0	With reference to USEPA 527 solvent extraction followed by GC/MS	50	µg/L	n.d.	-	-	-
Decabromodiphenyl ethers (DecaBDE)	1163-19-5	With reference to USEPA 527 solvent extraction followed by GC/MS	50	µg/L	n.d.	-	-	-
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	With reference to USEPA 527 solvent extraction followed by GC/MS	50	µg/L	n.d.	-	-	-
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	With reference to USEPA 527 solvent extraction followed by GC/MS	50	µg/L	n.d.	-	-	-
Tetrabromobisphenol A (TBBPA)	79-94-7	With reference to USEPA 527 solvent extraction followed by GC/MS	50	µg/L	n.d.	-	-	-
Hexabromocyclododecane (HBCDD)	134237-50-6, 134237-51-7, 134237-52-8, 25637-99-4, 3194-	With reference to USEPA 527 solvent extraction followed by GC/MS	50	µg/L	n.d.	-	-	-
Bis(2,3-dibromopropyl)phosphate (BIS)	5412-25-9	With reference to USEPA 527 solvent extraction followed by GC/MS	50	µg/L	n.d.	-	-	-
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	With reference to USEPA 527 solvent extraction followed by GC/MS	50	µg/L	n.d.	-	-	-
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	With reference to USEPA 527 solvent extraction followed by GC/MS	50	µg/L	n.d.	-	-	-
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	13674-87-8	With reference to USEPA 527 solvent extraction followed by GC/MS	50	µg/L	n.d.	-	-	-
Short Chain Chlorinated Paraffins (SCCP), C10-C13	85535-84-8	With reference to USEPA 527 solvent extraction followed by GC/MS	50	µg/L	n.d.	-	-	-
2H. Glycols								
Bis(2-methoxyethyl)-ether	111-96-6	With reference to USEPA 8270 or solvent extraction followed by GC/MS or LC/MS analysis	50	µg/L	n.d.	-	-	-

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ITEMS	CAS No.	Methods	Reporting Limit	Unit	Discharge Wastewater Results	Foundational Limit	Progressive Limit	Aspirational Limit
						mg/L	mg/L	mg/L
2-Ethoxyethanol	110-80-5	With reference to USEPA 8270 or solvent extraction followed by GC/MS or LC/MS analysis	50	µg/L	n.d.	-	-	-
2-Ethoxyethyl acetate	111-15-9	With reference to USEPA 8270 or solvent extraction followed by GC/MS or LC/MS analysis	50	µg/L	n.d.	-	-	-
Ethylene glycol dimethyl ether	110-71-4	With reference to USEPA 8270 or solvent extraction followed by GC/MS or LC/MS analysis	50	µg/L	n.d.	-	-	-
2-Methoxyethanol	109-86-4	With reference to USEPA 8270 or solvent extraction followed by GC/MS or LC/MS analysis	50	µg/L	n.d.	-	-	-
2-Methoxyethylacetate	110-49-6	With reference to USEPA 8270 or solvent extraction followed by GC/MS or LC/MS analysis	50	µg/L	n.d.	-	-	-
2-Methoxypropylacetate	70657-70-4	With reference to USEPA 8270 or solvent extraction followed by GC/MS or LC/MS analysis	50	µg/L	n.d.	-	-	-
Triethylene glycol dimethyl ether	112-49-2	With reference to USEPA 8270 or solvent extraction followed by GC/MS or LC/MS analysis	50	µg/L	n.d.	-	-	-
2I. Halogenated solvents								
1,2-Dichloroethane	107-06-2	With reference to USEPA 8260B, Purge&Trap, followed by GC/MS analysis	1	µg/L	n.d.	-	-	-
Methylene chloride	75-09-2	With reference to USEPA 8260B, Purge&Trap, followed by GC/MS analysis	1	µg/L	n.d.	-	-	-
Trichloroethylene	79-01-6	With reference to USEPA 8260B, Purge&Trap, followed by GC/MS analysis	1	µg/L	n.d.	-	-	-
Tetrachloroethylene	127-18-4	With reference to USEPA 8260B, Purge&Trap, followed by GC/MS analysis	1	µg/L	n.d.	-	-	-
2J. Organotin Compounds								
Mono-, di- and tri-methyltin derivatives	Multiple	With reference to ISO17353 and derivatisation with sodium tetraethyl borate followed by GC/MS analysis	0,01	µg/L	n.d.	-	-	-

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ITEMS	CAS No.	Methods	Reporting Limit	Unit	Discharge Wastewater Results	Foundational Limit	Progressive Limit	Aspirational Limit
						mg/L	mg/L	mg/L
Mono-, di- and tri-butyltin derivatives	Multiple	With reference to ISO17353 and derivatisation with sodium tetraethyl borate followed by GC/MS analysis	0,01	µg/L	n.d.	-	-	-
Mono-, di- and tri-octyltin derivatives	Multiple	With reference to ISO17353 and derivatisation with sodium tetraethyl borate followed by GC/MS analysis	0,01	µg/L	n.d.	-	-	-
Mono-, di- and tri-phenyltin derivatives	Multiple	With reference to ISO17353 and derivatisation with sodium tetraethyl borate followed by GC/MS analysis	0,01	µg/L	n.d.	-	-	-
2K. Perfluorinated / Polyfluorinated Chemicals (PFCs)								
PFOS	1763-23-1	With reference to DIN38407-42 or CEN/TS 15968 followed by LCMS or LC/MS(-MS) analysis	0,01	µg/L	n.d.	-	-	-
PFOA	335-67-1	With reference to DIN38407-42 or CEN/TS 15968 followed by LCMS or LC/MS(-MS) analysis	0,01	µg/L	n.d.	-	-	-
PFBS	375-73-5, 59933-66-3, 29420-49-3, 29420-43-3	With reference to DIN38407-42 or CEN/TS 15968 followed by LCMS or LC/MS(-MS) analysis	0,01	µg/L	n.d.	-	-	-
PFHxA	307-24-4	With reference to DIN38407-42 or CEN/TS 15968 followed by LCMS or LC/MS(-MS) analysis	0,01	µg/L	n.d.	-	-	-
8:2 FTOH	678-39-7	With reference to DIN38407-42 or CEN/TS 15968 followed by LCMS or LC/MS(-MS) analysis	1	µg/L	n.d.	-	-	-
6:2 FTOH	647-42-7	With reference to DIN38407-42 or CEN/TS 15968 followed by LCMS or LC/MS(-MS) analysis	1	µg/L	n.d.	-	-	-
2L. Phthalates								
Di(2-Ethyl Hexyl) Phthalate (DEHP)	117-81-7	With reference to USEPA 8270D solvent extraction followed by GC/MS analysis	0,3	µg/L	n.d.	-	-	-
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8	With reference to USEPA 8270D solvent extraction followed by GC/MS analysis	0,3	µg/L	n.d.	-	-	-
Di-N-Octyl Phthalate (DNOP)	117-84-0	With reference to USEPA 8270D solvent extraction followed by GC/MS analysis	0,3	µg/L	n.d.	-	-	-
Di-Iso-Decyl Phthalate (DIDP)	26761-40-0, 68515-49-1	With reference to USEPA 8270D solvent extraction followed by GC/MS analysis	0,3	µg/L	n.d.	-	-	-

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						mg/L	mg/L	mg/L
Di-Iso-Nonyl Phthalate (DINP)	28553-12-0, 68515-48-0	With reference to USEPA 8270D solvent extraction followed by GC/MS analysis	0,3	µg/L	n.d.	-	-	-
Di-N-Hexyl Phthalate (DNHP)	84-75-3	With reference to USEPA 8270D solvent extraction followed by GC/MS analysis	0,3	µg/L	n.d.	-	-	-
Dibutyl Phthalate (DBP)	84-74-2	With reference to USEPA 8270D solvent extraction followed by GC/MS analysis	0,3	µg/L	n.d.	-	-	-
Benzyl Butyl Phthalate (BBP)	85-68-7	With reference to USEPA 8270D solvent extraction followed by GC/MS analysis	0,3	µg/L	n.d.	-	-	-
Dinonyl phthalate (DNP)	84-76-4	With reference to USEPA 8270D solvent extraction followed by GC/MS analysis	0,3	µg/L	n.d.	-	-	-
Diethyl Phthalate (DEP)	84-66-2	With reference to USEPA 8270D solvent extraction followed by GC/MS analysis	0,3	µg/L	n.d.	-	-	-
Di-n-Propyl Phthalate (DPRP)	131-16-8	With reference to USEPA 8270D solvent extraction followed by GC/MS analysis	0,3	µg/L	n.d.	-	-	-
Di-Iso-Butyl Phthalate (DIBP)	84-69-5	With reference to USEPA 8270D solvent extraction followed by GC/MS analysis	0,3	µg/L	n.d.	-	-	-
Dicyclohexyl Phthalate (DCHP)	84-61-7	With reference to USEPA 8270D solvent extraction followed by GC/MS analysis	0,3	µg/L	n.d.	-	-	-
Di-Iso-Octyl Phthalate (DIOP)	27554-26-3	With reference to USEPA 8270D solvent extraction followed by GC/MS analysis	0,3	µg/L	n.d.	-	-	-
1,2-Benzenedicarboxylic acid, Di- C7-11 Branched and Linear Alkyl Esters (DHNUP)	68515-42-4	With reference to USEPA 8270D solvent extraction followed by GC/MS analysis	0,3	µg/L	n.d.	-	-	-
1,2-Benzenedicarboxylic acid, Di- C6-8 Branched Alkyl Esters, C7- rich (DHP)	71888-89-6	With reference to USEPA 8270D solvent extraction followed by GC/MS analysis	0,3	µg/L	n.d.	-	-	-
2M. Polycyclic Aromatic Hydrocarbons (PAHs)								
Benzo[a]pyrene	50-32-8	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-
Anthracene	120-12-7	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-
Pyrene	129-00-0	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-

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						mg/L	mg/L	mg/L
Benzo[ghi]perylene	191-24-2	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-
Benzo[e]pyrene	192-97-2	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-
Indeno[1,2,3-cd]pyrene	193-39-5	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-
Benzo[j]fluoranthene	205-82-3	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-
Benzo[b]fluoranthene	205-99-2	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-
Fluoranthene	206-44-0	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-
Benzo[k]fluoranthene	207-08-9	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-
Acenaphthylene	208-96-8	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-
Chrysene	218-01-9	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-
Dibenz[a,h]anthracene	53-70-3	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-
Benzo[a]anthracene	56-55-3	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-
Acenaphthene	83-32-9	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-

REMARKS

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- 2) Analysis of certain parameters contained in this report was carried out by SGS Turkey.

Factory Name: MERKOTEKS TEKSTİL SAN.VE TİC.A. Ş. Factory Address: 15 TEMMUZ MAH. HALKALI CAD. NO:113 GÜNEŞLİ BAĞCILAR / İSTANBUL			Sample ID		AS-15032022-002	ZDHC Limits		
			Date of sampling		15.03.2022			
			Sampling Location		Discharge Wastewater			
			Sampling start time		10:45			
			Sampling end time		16:45			
			Date of sample received		15.03.2022			
			Sample Description		Wastewater			
ITEMS	CAS No.	Methods	Reporting Limit	Unit	Discharge Wastewater Results	Foundational Limit	Progressive Limit	Aspirational Limit
						mg/L	mg/L	mg/L
Phenanthrene	85-01-8	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-
Fluorene	86-73-7	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-
Naphthalene	91-20-3	With reference to SM 6410B or solvent extraction followed by GC/MS analysis	0,02	µg/L	n.d.	-	-	-
2N. Volatile Organic Compounds(VOC)								
Benzene	71-43-2	With reference to USEPA 8260B, USEPA 8041A, Purge&Trap or Solvent extraction followed by GC/MS to GC/FID analysis	1	µg/L	n.d.	-	-	-
Xylene	1330-20-7	With reference to USEPA 8260B, USEPA 8041A, Purge&Trap or Solvent extraction followed by GC/MS to GC/FID analysis	1	µg/L	n.d.	-	-	-
o-cresol	95-48-7	With reference to USEPA 8260B, USEPA 8041A, Purge&Trap or Solvent extraction followed by GC/MS to GC/FID analysis	1	µg/L	n.d.	-	-	-
p-cresol	106-44-5	With reference to USEPA 8260B, USEPA 8041A, Purge&Trap or Solvent extraction followed by GC/MS to GC/FID analysis	1	µg/L	n.d.	-	-	-
m-cresol	108-39-4	With reference to USEPA 8260B, USEPA 8041A, Purge&Trap or Solvent extraction followed by GC/MS to GC/FID analysis	1	µg/L	n.d.	-	-	-

Remarks:

n.d. = Not Detected,
N.A. = Not applicable

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PREPARED Murat FAAL Report Responsible 	APPROVED Resul ÖZDEŞ Laboratory Manager 	SEAL 
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