

SOFTLINES WASTEWATER TESTING
TEST REPORT

Number: TURA180111515

Date: 27 / 06 / 2018

Factory
Factory's name : UTENOS TRIKOTAZAS
Address : J. Basanavičiaus g. 122, Utena 28214, Lithuania

Sampling Lab : Performed by UTENOS TRIKOTAZAS
Testing Lab : Performed by Intertek Turkey

Sample type:
Sample / Wastewater [Wastewater, End of Pipe]
Sample / Sludge [N/A]

Date received/Date test started: 11 / 06 / 2018

Tests conducted:

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

Summary of test results:

Wastewater / Conventional parameters - Test items	Detection
Temperature	N/A
TSS	D
COD	D
pH	D
Colour [m ⁻¹] (436nm, 525nm, 620nm)	ND ND D
BOD ₅	D
Ammonium-N	ND
Total-P	ND
AOX	D
Sulfide	ND



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Wastewater / Heavy metals - Test items	Detection
Antimony, Sb	D
Chromium, Cr (total)	D
Cobalt, Co	ND
Copper, Cu	D
Nickel, Ni	D
Zinc, Zn	D
Arsenic, As	ND
Cadmium, Cd	D
Chromium (VI), Cr VI	ND
Lead, Pb	D
Mercury, Hg	ND
Manganese, Mn	D

Test items	Detection
Heavy metals	D
Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	ND
Chlorobenzenes and Chlorotoluenes	ND
Chlorophenols	ND
Hazardous Dyes (Banned Azo, Allergenic, Carcinogenic)	ND
Brominated, Chlorinated and other Flame Retardants	ND
SCCP	ND
Chlorinated And Other Solvents	ND
Organotin compounds	ND
Perfluorinated Compounds (PFCs)	ND
Phthalates	ND
Polycyclic aromatic hydrocarbons (PAHs)	ND

Note :	
ND = Not detected or result less than limit	
D = Detected [<i>please specify actual result</i>] or result above limit	
N/A = Not applicable	- = Did not perform
# = No comment	* = See Remark

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Sample / Wastewater and Sludge

1. Conventional parameters

Parameters		Test method	Reporting Limit (Wastewater)	Wastewater
Temperature		EPA 170.1	40°C	N/A °C
TSS		SM 2540 D	50 mg/L	86 mg/L
COD		SM 5220 B, D	200 mg/L	1363 mg/L
pH		EPA 150.1	6.0-9.0	9.65
Colour [m ⁻¹]	436nm	ISO 7887-B	10 m ⁻¹	ND m ⁻¹
	525nm		7 m ⁻¹	ND m ⁻¹
	620nm		5 m ⁻¹	6.1 m ⁻¹
BOD5		SM 5210 B,D	50 mg/L	650 mg/L
Ammonium-N		SM 4500 NH3-N	10 mg/L	ND mg/L
Total-P		ISO 11885	5 mg/L	ND mg/L
AOX		ISO 9562	1 mg/L	1.44 mg/L
Sulfide		SM 4500-S2-D	2 mg/L	ND mg/L

Remark: ND = Not detected or result less than limit

2. Heavy metals

With reference to ISO 11885, ISO 18412, ISO 12846, ISO 17852, US EPA 200.7, US EPA 200.8, US EPA 6010c, US EPA 6020a, US EPA 218.6 and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS) analysis.

Chemical substances	CAS no.	Detection Limit (Wastewater)	Detection Limit (Sludge)	Wastewater (µg/L)	Sludge (mg/kg)
Antimony, Sb	7440-36-0	1 µg/l	1 mg/kg	1.519	N/A
Chromium, Cr (total)	7440-47-3	1 µg/l	1 mg/kg	15.455	N/A
Cobalt, Co	7440-48-4	1 µg/l	1 mg/kg	ND	N/A
Copper, Cu	7440-50-8	1 µg/l	1 mg/kg	85.235	N/A
Nickel, Ni	7440-02-0	1 µg/l	1 mg/kg	3.982	N/A
Zinc, Zn	7440-66-6	1 µg/l	4 mg/kg	154.439	N/A
Arsenic, As	7440-38-2	1 µg/l	1 mg/kg	ND	N/A
Cadmium, Cd	7440-43-9	0.1 µg/l	1 mg/kg	0.162	N/A
Chromium (VI), Cr VI	7440-47-3	1 µg/l	1 mg/kg	ND	N/A
Lead, Pb	7439-92-1	1 µg/l	1 mg/kg	3.953	N/A
Mercury, Hg	7439-97-6	0.05 µg/l	0.006 mg/kg	ND	N/A
Manganese, Mn	7439-96-5	1 µg/l	1 mg/kg	74.8	N/A



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3. Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)

With reference to ISO 18857-2/ASTM D7065, ISO 18254-1/2, and by Gas Chromatography-Mass Spectrometry (GC-MS) and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Wastewater)	Reporting Limit (Sludge)	Wastewater (µg/L)	Sludge (mg/kg)
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	1 µg/L	0.2 mg/kg	ND	N/A
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	1 µg/L	0.2 mg/kg	ND	N/A
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	1 µg/L	0.2 mg/kg	ND	N/A
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	1 µg/L	0.2 mg/kg	ND	N/A

Remark: ND = Not detected or result less than limit

4. Chlorobenzenes and Chlorotoluenes

With reference to US EPA 8260B, US EPA 8270D, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Wastewater)	Reporting Limit (Sludge)	Wastewater (µg/L)	Sludge (mg/kg)
Chlorobenzene	108-90-7	0.02 µg/l	0.01 mg/kg	ND	N/A
1,2-Dichlorobenzene	95-50-1	0.02 µg/l	0.01 mg/kg	ND	N/A
1,3-Dichlorobenzene	541-73-1	0.02 µg/l	0.01 mg/kg	ND	N/A
1,4-Dichlorobenzene	106-46-7	0.02 µg/l	0.01 mg/kg	ND	N/A
1,2,4-Trichlorobenzene	120-82-1	0.02 µg/l	0.01 mg/kg	ND	N/A
1,2,3-Trichlorobenzene	87-61-6	0.02 µg/l	0.01 mg/kg	ND	N/A
1,3,5-Trichlorobenzene	108-70-3	0.02 µg/l	0.01 mg/kg	ND	N/A
Tetrachlorobenzene	12408-10-5	0.02 µg/l	0.01 mg/kg	ND	N/A
1,2,3,4-Tetrachlorobenzene	634-66-2	0.02 µg/l	0.01 mg/kg	ND	N/A
1,2,3,5-Tetrachlorobenzene	634-90-2	0.02 µg/l	0.01 mg/kg	ND	N/A



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1,2,4,5-Tetrachlorobenzene	95-94-3	0.02 µg/l	0.01 mg/kg	ND	N/A
Pentachlorobenzene	608-93-5	0.02 µg/l	0.01 mg/kg	ND	N/A
Hexachlorobenzene	118-74-1	0.02 µg/l	0.01 mg/kg	ND	N/A
Chlorotoluene	Various	0.02 µg/l	0.01 mg/kg	ND	N/A
2-Chlorotoluene	95-49-8	0.02 µg/l	0.01 mg/kg	ND	N/A
3-Chlorotoluene	108-41-8	0.02 µg/l	0.01 mg/kg	ND	N/A
4-Chlorotoluene	106-43-4	0.02 µg/l	0.01 mg/kg	ND	N/A
Dichlorotoluene	Various	0.02 µg/l	0.01 mg/kg	ND	N/A
2,3-Dichlorotoluene	32768-54-0	0.02 µg/l	0.01 mg/kg	ND	N/A
2,4-Dichlorotoluene	95-73-8	0.02 µg/l	0.01 mg/kg	ND	N/A
2,5-Dichlorotoluene	19398-61-9	0.02 µg/l	0.01 mg/kg	ND	N/A
2,6-Dichlorotoluene	118-69-4	0.02 µg/l	0.01 mg/kg	ND	N/A
3,4-Dichlorotoluene	95-75-0	0.02 µg/l	0.01 mg/kg	ND	N/A
Trichlorotoluene	Various	0.02 µg/l	0.01 mg/kg	ND	N/A
2,3,6-Trichlorotoluene	2077-46-5	0.02 µg/l	0.01 mg/kg	ND	N/A
2,4,5-Trichlorotoluene	6639-30-1	0.02 µg/l	0.01 mg/kg	ND	N/A
alpha, alpha, alpha-Trichlorotoluene	98-07-7	0.02 µg/l	0.01 mg/kg	ND	N/A
alpha,2,4-Trichlorotoluene	94-99-5	0.02 µg/l	0.01 mg/kg	ND	N/A
alpha,2,6-trichlorotouene	2014-83-7	0.02 µg/l	0.01 mg/kg	ND	N/A
Tetrachlorotoluene	Various	0.02 µg/l	0.01 mg/kg	ND	N/A
alpha,3,4-Trichlorotoluene	102-47-6	0.02 µg/l	0.01 mg/kg	ND	N/A
alpha,alpha,2,6-Tetrachlorotoluene	81-19-6	0.02 µg/l	0.01 mg/kg	ND	N/A
alpha,alpha,alpha,2-Tetrachlorotoluene	2136-89-2	0.02 µg/l	0.01 mg/kg	ND	N/A
alpha,alpha,alpha,4-Tetrachlorotoluene	5216-25-1	0.02 µg/l	0.01 mg/kg	ND	N/A
2,3,4,5,6-Pentachlorotoluene	877-11-2	0.02 µg/l	0.01 mg/kg	ND	N/A

Remark: ND = Not detected or result less than limit

5. Chlorophenols

With reference to US EPA 8270D and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Wastewater)	Reporting Limit (Sludge)	Wastewater (µg/L)	Sludge (mg/kg)
Dichlorophenols (DiCP)	25167-81-1	0.5 µg/L	0.025 mg/kg	ND	N/A
2,4-Dichlorophenol	120-83-2	0.5 µg/L	0.025 mg/kg	ND	N/A
2,5-Dichlorophenol	583-78-8	0.5 µg/L	0.025 mg/kg	ND	N/A
2,6-Dichlorophenol	87-65-0	0.5 µg/L	0.025 mg/kg	ND	N/A
Pentachlorophenol (PCP)	87-86-5	0.5 µg/L	0.025 mg/kg	ND	N/A
2,3,4,6-Tetrachlorophenol	58-90-2	0.5 µg/L	0.025 mg/kg	ND	N/A

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Trichlorophenol	25167-82-2	0.5 µg/L	0.025 mg/kg	ND	N/A
2,4,5-Trichlorophenol	95-95-4	0.5 µg/L	0.025 mg/kg	ND	N/A
2,4,6-Trichlorophenol	88-06-2	0.5 µg/L	0.025 mg/kg	ND	N/A
Tetrachlorophenol	25167-83-3	0.5 µg/L	0.025 mg/kg	ND	N/A
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5 µg/L	0.025 mg/kg	ND	N/A
2,3,5,6-Tetrachlorophenol	935-95-5	0.5 µg/L	0.025 mg/kg	ND	N/A
2,3,6-Trichlorophenol	933-75-5	0.5 µg/L	0.025 mg/kg	ND	N/A
2,3,4-Trichlorophenol	15950-66-0	0.5 µg/L	0.025 mg/kg	ND	N/A
2,3,5-Trichlorophenol	933-78-8	0.5 µg/L	0.025 mg/kg	ND	N/A
3,4,5-Trichlorophenol	609-19-8	0.5 µg/L	0.025 mg/kg	ND	N/A
3,5- Dichlorophenol	591-35-5	0.5 µg/L	0.025 mg/kg	ND	N/A
2,3-Dichlorophenol	576-24-9	0.5 µg/L	0.025 mg/kg	ND	N/A
3,4-Dichlorophenol	95-77-2	0.5 µg/L	0.025 mg/kg	ND	N/A
3-chlorophenol	108-43-0	0.5 µg/L	0.025 mg/kg	ND	N/A
4-chlorophenol	106-48-9	0.5 µg/L	0.025 mg/kg	ND	N/A
Monochlorophenols	Various 95-57-8 108-43-0 106-48-9	0.5 µg/L	0.025 mg/kg	ND	N/A
Salts and Esters from the above mentioned Chlorophenols	Various	0.5 µg/L	0.025 mg/kg	ND	N/A

Remark: ND = Not detected or result less than limit

6. Hazardous Dyes (Banned Azo, Allergenic, Carcinogenic)

With reference to EN 14362-1/3, and by Gas Chromatographic - Mass Spectrometric (GC-MS) or and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Wastewater)	Reporting Limit (Sludge)	Wastewater (µg/L)	Sludge (mg/kg)
2,4,5-Trimethylaniline	137-17-7	0.1 µg/L	0.01 mg/kg	ND	N/A
2,4-Diaminoanisole	615-05-4	0.1 µg/L	0.01 mg/kg	ND	N/A
2,4-Diaminotoluene	95-80-7	0.1 µg/L	0.01 mg/kg	ND	N/A
2,4-Xylidine	95-68-1	0.1 µg/L	0.01 mg/kg	ND	N/A
2,6-Xylidine	87-62-7	0.1 µg/L	0.01 mg/kg	ND	N/A
2-Naphthylamine	91-59-8	0.1 µg/L	0.01 mg/kg	ND	N/A
3,3'-Dichlorobenzidine	91-94-1	0.1 µg/L	0.01 mg/kg	ND	N/A
3,3'-Dimethoxybenzidine	119-90-4	0.1 µg/L	0.01 mg/kg	ND	N/A
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.1 µg/L	0.01 mg/kg	ND	N/A
3,3'-Dimethylbenzidine	119-93-7	0.1 µg/L	0.01 mg/kg	ND	N/A
4,4'-Diaminodiphenylmethane	101-77-9	0.1 µg/L	0.01 mg/kg	ND	N/A
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1 µg/L	0.01 mg/kg	ND	N/A

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4,4'-Oxydianiline	101-80-4	0.1 µg/L	0.01 mg/kg	ND	N/A
4,4'-Thiodianiline	139-65-1	0.1 µg/L	0.01 mg/kg	ND	N/A
4-Aminobiphenyl	92-67-1	0.1 µg/L	0.01 mg/kg	ND	N/A
4-Chloroaniline	106-47-8	0.1 µg/L	0.01 mg/kg	ND	N/A
4-Chloro-o-toluidine	95-69-2	0.1 µg/L	0.01 mg/kg	ND	N/A
5-Nitro-o-toluidine	99-55-8	0.1 µg/L	0.01 mg/kg	ND	N/A
4-Aminoazobenzene	60-09-3	0.1 µg/L	0.01 mg/kg	ND	N/A
Benzidine	92-87-5	0.1 µg/L	0.01 mg/kg	ND	N/A
o-Aminoazotoluene	97-56-3	0.1 µg/L	0.01 mg/kg	ND	N/A
o-Anisidine	90-04-0	0.1 µg/L	0.01 mg/kg	ND	N/A
o-Toluidine	95-53-4	0.1 µg/L	0.01 mg/kg	ND	N/A
p-Cresidine	120-71-8	0.1 µg/L	0.01 mg/kg	ND	N/A
Carcinogenic dyes					
C.I. Acid Red 26 (C.I. 16150)	3761-53-3	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Acid Red 114	6459-94-5	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Acid Violet 49	1694-09-3	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Basic Blue 26	2580-56-5	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Basic Red 9 (C.I. 42500)	569-61-9	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Basic Violet 1	8004-87-3	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Basic Violet 14 (C.I. 42510)	632-99-5	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Direct Black 38 (C.I. 30235)	1937-37-7	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Direct Blue 6 (C.I. 22610)	2602-46-2	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Direct Blue 15	2429-74-5	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Direct Blue 218	28407-37-6	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Direct Brown 95	16071-86-6	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Direct Red 28 (C.I. 22120)	573-58-0	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Blue 1 (C.I. 64500)	2475-45-8	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Orange 11 (C.I. 60700)	82-28-0	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Orange 149	85136-74-9	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Yellow 3 (C.I. 11855)	2832-40-8	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Solvent Yellow 1 (p-Aminoazobenzol (pure))	60-09-3	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Solvent Yellow 2 (C.I. 11020)	60-11-7	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Solvent Yellow 14	842-07-9	0.1 µg/L	0.01 mg/kg	ND	N/A
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	1 µg/l	1 mg/kg	ND	N/A
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	1 µg/l	1 mg/kg	ND	N/A
Allergenic Disperse dyes					
C.I. Disperse Blue 1 (C.I. 64500)	2475-45-8	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Blue 3 (C.I. 61505)	2475-46-9	0.1 µg/L	0.01 mg/kg	ND	N/A



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C.I. Disperse Blue 7 (C.I. 62500)	3179-90-6	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Blue 26 (C.I. 63305)	3860-63-7	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Blue 35 (mixture)	12222-75-2	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Blue 35 (Component 1)	56524-77-7	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Blue 35 (Component 2)	56524-76-6	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Blue 102	12222-97-8	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Blue 106	12223-01-7	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Blue 124	61951-51-7	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Brown 1	23355-64-8	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Orange 1 (C.I. 11080)	2581-69-3	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Orange 3 (C.I. 11005)	730-40-5	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Orange 37 / 59 / 76 (C.I. 11132)	13301-61-6	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Orange 149	85136-74-9	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Red 1 (C.I. 11110)	2872-52-8	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Red 11 (C.I. 62015)	2872-48-2	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Red 17 (C.I. 11210)	3179-89-3	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Yellow 1 (C.I. 10345)	119-15-3	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Yellow 3 (C.I. 11855)	2832-40-8	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Yellow 9 (C.I. 10375)	6373-73-5	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Yellow 23 (C.I. 26070)	6250-23-3	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Yellow 39	12236-29-2	0.1 µg/L	0.01 mg/kg	ND	N/A
C.I. Disperse Yellow 49	54824-37-2	0.1 µg/L	0.01 mg/kg	ND	N/A

Remark: ND = Not detected or result less than limit

7. Brominated, Chlorinated and other Flame Retardants

With reference to US EPA 8270, ISO 22032, US EPA 527, EPA 8321B, and by Gas Chromatography - Mass Spectrometry (GC-MS) analysis and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Wastewater)	Reporting Limit (Sludge)	Wastewater (µg/L)	Sludge (mg/kg)
Polybromobiphenyles (PBBs)	59536-65-1	0.05 µg/L	0.03 mg/kg	ND	N/A
Monobromobiphenyls (MonoBB)	Various	0.05 µg/L	0.03 mg/kg	ND	N/A
Dibromobiphenyls (DiBB)	Various	0.05 µg/L	0.03 mg/kg	ND	N/A
Tribromobiphenyls (TriBB)	Various	0.05 µg/L	0.03 mg/kg	ND	N/A
Tetrabromobiphenyls (TetraBB)	Various	0.05 µg/L	0.03 mg/kg	ND	N/A
Pentabromobiphenyls (PentaBB)	Various	0.05 µg/L	0.03 mg/kg	ND	N/A
Hexabromobiphenyls (HexaBB)	Various	0.05 µg/L	0.03 mg/kg	ND	N/A



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Heptabromobiphenyls (HeptaBB)	Various	0.05 µg/L	0.03 mg/kg	ND	N/A
Octabromobiphenyls (OctaBB)	Various	0.05 µg/L	0.03 mg/kg	ND	N/A
Nonabromobiphenyls (NonaBB)	Various	0.05 µg/L	0.03 mg/kg	ND	N/A
Decabromobiphenyl (DecaBB)	13654-09-6	0.05 µg/L	0.03 mg/kg	ND	N/A
Polybrominated diphenyl ethers (PBDEs)	Various	0.05 µg/L	0.03 mg/kg	ND	N/A
Monobromodiphenylethers (MonoBDEs)	Various	0.05 µg/L	0.03 mg/kg	ND	N/A
Dibromodiphenylethers (DiBDEs)	Various	0.05 µg/L	0.03 mg/kg	ND	N/A
Tribromodiphenylethers (TriBDEs)	Various	0.05 µg/L	0.03 mg/kg	ND	N/A
Tetrabromodiphenylethers (TetraBDEs)	Various 40088-47-9	0.05 µg/L	0.03 mg/kg	ND	N/A
Pentabromodiphenylethers (PentaBDEs)	Various 32534-81-9	0.05 µg/L	0.03 mg/kg	ND	N/A
Hexabromodiphenylethers (HexaBDEs)	Various 36483-60-0	0.05 µg/L	0.03 mg/kg	ND	N/A
Heptabromodiphenylethers (HeptaBDEs)	Various 68928-80-3	0.05 µg/L	0.03 mg/kg	ND	N/A
Octabromodiphenylethers (OctaBDEs)	Various 32536-52-0	0.05 µg/L	0.03 mg/kg	ND	N/A
Nonabromodiphenylethers (NonaBDEs)	Various 63936-56-1	0.05 µg/L	0.03 mg/kg	ND	N/A
Decabromodiphenylether (DecaBDE)	1163-19-5	0.05 µg/L	0.03 mg/kg	ND	N/A
Tri-(2,3-dibromopropyl)phosphate (TRIS)	126-72-7	0.5 µg/L	0.25 mg/kg	ND	N/A
Tris(2-chlorethyl)phosphate (TCEP)	115-96-8	0.05 µg/L	0.25 mg/kg	ND	N/A
Hexabromocyclododecane (HBCDD) and all main diastereomeres identified (alpha-, beta-, gamma-)	3194-55-6 134237-50-6 134237-51-7 134237-52-8 25637-99-4	0.5 µg/L	0.25 mg/kg	ND	N/A
3,5,3',5'-Tetrabromo-bisphenol A (TBBA)	79-94-7	0.5 µg/L	0.25 mg/kg	ND	N/A
Bis(2,3-dibromopropyl)phosphate (BIS)	5412-25-9	0.5 µg/L	0.25 mg/kg	ND	N/A
Other Flame retardants					
Tris(1,3-dichlorisopropyl)phosphat (TDCPP)	13674-87-8	0.5 µg/L	0.25 mg/kg	ND	N/A

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Tris-(aziridinyl)-phosphin oxide (TEPA)	545-55-1	0.5 µg/L	0.25 mg/kg	ND	N/A
Flame retardants which contain toxic metals like antimony or arsenic	Various	0.5 µg/L	0.25 mg/kg	ND	N/A
Boric acid	10043-35-3 11113-50-1	0.5 µg/L	0.25 mg/kg	ND	N/A
Diboron trioxide	1303-86-2	0.5 µg/L	0.25 mg/kg	ND	N/A
Disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12179-04-3	0.5 µg/L	0.25 mg/kg	ND	N/A
Tetraboron disodium heptaoxide, hydrate	12267-73-1	0.5 µg/L	0.25 mg/kg	ND	N/A
Antimony trioxide	1309-64-4	0.5 µg/L	0.25 mg/kg	ND	N/A
Tri-o-cresyl phosphate	78-30-8	0.5 µg/L	0.25 mg/kg	ND	N/A
Trixylyl phosphate	25155-23-1	0.5 µg/L	0.25 mg/kg	ND	N/A

Remark: ND = Not detected or result less than limit

8. SCCP

With reference to US EPA 8270 and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Wastewater)	Reporting Limit (Sludge)	Wastewater (µg/L)	Sludge (mg/kg)
Short chained chlorinated paraffins (SCCP), C10-13	85535-84-8	0.4 µg/	0.03 mg/kg	ND	N/A
Middle chained chlorinated paraffines (MCCP)	85535-85-9	0.4 µg/L	0.03 mg/kg	ND	N/A

Remark: ND = Not detected or result less than limit

9. Chlorinated And Other Solvents

With reference to US EPA 8260B, and by Headspace Gas Chromatography Mass Spectrometric (HS-GC/MS) analysis.

Chemical substances	CAS no.	Reporting limit (Wastewater)	Reporting Limit (Sludge)	Wastewater (µg/L)	Sludge (mg/kg)
Dichloromethane	75-09-2	1 µg/L	0.3 mg/kg	ND	N/A
Trichloromethane	67-66-3	1 µg/L	0.3 mg/kg	ND	N/A
Tetrachloromethane (Carbontetrachloride) (C/M, S)	56-23-5	1 µg/L	0.3 mg/kg	ND	N/A

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Chlorinated ethanes and ethenes	Various	1 µg/L	0.3 mg/kg	ND	N/A
1,2-Dichloroethane (C/M, S)	107-06-2	1 µg/L	0.3 mg/kg	ND	N/A
Trichloroethylene (C/M, S)	79-01-6	1 µg/L	0.3 mg/kg	ND	N/A
Tetrachloroethylene (C/M, S)	127-18-4	1 µg/L	0.3 mg/kg	ND	N/A
1,1,1-Trichloroethane (C/M, S)	71-55-6	1 µg/L	0.3 mg/kg	ND	N/A
1,1,1,2-Tetrachloroethane (C/M, S)	630-20-6	1 µg/L	0.3 mg/kg	ND	N/A
1,1,2,2-Tetrachloroethane (C/M, S)	79-34-5	1 µg/L	0.3 mg/kg	ND	N/A
Pentachloroethane (C/M, S)	76-01-7	1 µg/L	0.3 mg/kg	ND	N/A
1,1-Dichloroethylene (C/M, S)	75-35-4	1 µg/L	0.3 mg/kg	ND	N/A
1,2,3-Trichloropropane (C/M, S)	96-18-4	1 µg/L	0.3 mg/kg	ND	N/A
Hexachlorobutadiene (C/M, S)	87-68-3	1 µg/L	0.3 mg/kg	ND	N/A
Other VOC's					
Methyl-ethyl ketone	78-93-3	1 µg/L	0.1 mg/kg	ND	N/A
Benzene	71-43-2	1 µg/L	0.1 mg/kg	ND	N/A
Toluene	108-88-3	1 µg/L	0.1 mg/kg	ND	N/A
Ethylbenzene	100-41-4	1 µg/L	0.1 mg/kg	ND	N/A
Xylene (Co)	1330-20-7	1 µg/L	0.1 mg/kg	ND	N/A
Styrene	100-42-5	1 µg/L	0.1 mg/kg	ND	N/A
Cyclohexanone	108-94-1	1 µg/L	2 mg/kg	ND	N/A
2-Ethoxyethyl acetate	111-15-9	1 µg/L	10 mg/kg	ND	N/A
Acetophenone	98-86-2	1 µg/L	0.1 mg/kg	ND	N/A
N,N-dimethylformamide	68-12-2	1 µg/L	0.1 mg/kg	ND	N/A
1-Methyl-2-pyrrolidone (NMP)	872-50-4	1 µg/L	50 mg/kg	ND	N/A
2-phenyl-2-propanole	617-94-7	1 µg/L	0.1 mg/kg	ND	N/A
Bis(2-methoxyethyl) ether	111-96-6	1 µg/L	20 mg/kg	ND	N/A
N,N-dimethylacetamide	127-19-5	1 µg/L	20 mg/kg	ND	N/A
2-Ethoxyethanol	110-80-5	50 µg/L	-	ND	N/A
2-Methoxyethanol	109-86-4	50 µg/L	-	ND	N/A
2-methoxyethylacetate	110-49-6	50 µg/L	-	ND	N/A
2-methoxypropylacetate	70657-70-4	50 µg/L	-	ND	N/A
Phenol	108-95-2	50 µg/L	-	ND	N/A
Ethylene glycol dimethyl ether (EGDME)	110-71-4	50 µg/L	-	ND	N/A
Formamide	75-12-7	1 µg/L	20 mg/kg	ND	N/A
o-Xylene	95-47-6	1 µg/L	0.1 mg/kg	ND	N/A
m-Xylene	108-38-3	1 µg/L	0.1 mg/kg	ND	N/A

Remark: ND = Not detected or result less than limit

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10. Organotin compounds

With reference to ISO 17353, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Wastewater)	Reporting Limit (Sludge)	Wastewater (µg/L)	Sludge (mg/kg)
Tetrabutyltin (TeBT)	1461-25-2	0.1 µg/L	0.1 mg/kg	ND	N/A
Tributyltin (TBT)	Various	0.1 µg/L	0.1 mg/kg	ND	N/A
Dibutyltin (DBT)	Various 683-18-1	0.1 µg/L	0.1 mg/kg	ND	N/A
Monobutyltin (MBT)	Various	0.1 µg/L	0.1 mg/kg	ND	N/A
Triphenyltin (TPhT)	Various 668-34-8	0.1 µg/L	0.1 mg/kg	ND	N/A
Diphenyltin (DPhT)	Various 1011-95-6	0.1 µg/L	0.1 mg/kg	ND	N/A
Diocetyl tin (DOT)	Various	0.1 µg/L	0.1 mg/kg	ND	N/A
Monooctyltin (MOT)	Various	0.1 µg/L	0.1 mg/kg	ND	N/A
Tricyclohexyltin (TCyHT)	Various	0.1 µg/L	0.1 mg/kg	ND	N/A
Tripropyltin (TPrT)	Various	0.1 µg/L	0.1 mg/kg	ND	N/A
Tetraethyltin (TeET)	597-64-8	0.1 µg/L	0.1 mg/kg	ND	N/A
Bis(tributyltin) oxide (TBTO)	56-35-9	0.1 µg/L	0.1 mg/kg	ND	N/A
Dibutyltin hydrogen borate	75113-37-0	0.1 µg/L	0.1 mg/kg	ND	N/A

Remark: ND = Not detected or result less than limit

11. Perfluorinated Compounds (PFCs)

With reference to DIN 38407-42 (modified), and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis and Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Wastewater)	Reporting Limit (Sludge)	Wastewater (µg/L)	Sludge (mg/kg)
Perfluorobutanoic Acid (PFBA) and salts	Various 375-22-4	0.01 µg/L	0.001 mg/kg	ND	N/A
Perfluoropentanoic Acid (PFPeA) and salts	Various 2706-90-3	0.01 µg/L	0.001 mg/kg	ND	N/A
Perfluorohexanoic Acid (PFHxA) and salts	Various 307-24-4	0.01 µg/L	0.001 mg/kg	ND	N/A
Perfluoroheptanoic Acid (PFHpA) and salts	Various 375-85-9	0.01 µg/L	0.001 mg/kg	ND	N/A



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HPFHpA, and salts	Various 1546-95-8	0.01 µg/L	0.001 mg/kg	ND	N/A
Perfluorooctanoic Acid (PFOA),salts	Various 335-67-1	0.01 µg/L	0.001 mg/kg	ND	N/A
PF-3,7-DMOA, and salts	Various 172155-07-6	0.01 µg/L	0.001 mg/kg	ND	N/A
Perfluorononanoic Acid (PFNA) and salts	Various 375-95-1	0.01 µg/L	0.001 mg/kg	ND	N/A
Perfluorodecanoic Acid (PFDA) and salts	Various 335-76-2	0.01 µg/L	0.001 mg/kg	ND	N/A
Perfluoroundecanoic Acid (PFUnDA) and salts	Various 2058-94-8	0.01 µg/L	0.001 mg/kg	ND	N/A
4HPFUnA, and salts	Various 34598-33-9	0.01 µg/L	0.001 mg/kg	ND	N/A
Perfluorododecanoic Acid (PFDoA) and salts	Various 307-55-1	0.01 µg/L	0.001 mg/kg	ND	N/A
Perfluorotridecanoic Acid (PFTrDA) and salts	Various 72629-94-8	0.01 µg/L	0.001 mg/kg	ND	N/A
Perfluorotetradecanoic Acid (PFTeDA) and salts	Various 376-06-7	0.01 µg/L	0.001 mg/kg	ND	N/A
Perfluorobutansulfonate (PFBS) and salts	Various 375-73-5 59933-66-3	0.01 µg/L	0.001 mg/kg	ND	N/A
Perfluorohexansulfonate (PFHxS) and salts	Various 355-46-4	0.01 µg/L	0.001 mg/kg	ND	N/A
Perfluoroheptansulfonate (PFHpS) and salts	Various 375-92-8	0.01 µg/L	0.001 mg/kg	ND	N/A
Perfluorooctansulfonate (PFOS) and salts	Various 1763-23-1	0.01 µg/L	0.001 mg/kg	ND	N/A
1H,1H,2H,2H-PFOS, and salts	Various 27619-97-2	0.01 µg/L	0.001 mg/kg	ND	N/A
Perfluoroectansulfonylfluorid (PFOSF)	307-35-7	0.01 µg/L	0.001 mg/kg	ND	N/A
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	0.1 µg/L	0.01 mg/kg	ND	N/A
N-methylperfluoro-1- octanesulfonamide (N-MeFOSA)	31506-32-8	0.1 µg/L	0.01 mg/kg	ND	N/A
N-ethylperfluoro-1- octanesulfonamide (N-EtFOSA)	4151-50-2	0.1 µg/L	0.01 mg/kg	ND	N/A



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2-(N-methylperfluoro-1-octansulfonamido)-ethanol (N-MeFOSE)	24448-09-7	0.1 µg/L	0.01 mg/kg	ND	N/A
2-(N-ethylperfluoro-1-octansulfonamido)-ethanol	1691-99-2	0.1 µg/L	0.01 mg/kg	ND	N/A
Perfluorodecansulfonate (PFDS) and salts	Various 335-77-3	0.01 µg/L	0.001 mg/kg	ND	N/A
1H,1H,2H,2H-perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	0.1 µg/L	0.01 mg/kg	ND	N/A
1H,1H,2H,2H-perfluoro-1-octanol (6:2 FTOH)	647-42-7	0.1 µg/L	0.01 mg/kg	ND	N/A
1H,1H,2H,2H-perfluoro-1-decanol (8:2 FTOH)	678-39-7	0.1 µg/L	0.01 mg/kg	ND	N/A
1H,1H,2H,2H-perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	0.1 µg/L	0.01 mg/kg	ND	N/A
1H,1H,2H,2H-perfluorooctylacrylate (6:2 FTAC)	17527-29-6	0.1 µg/L	0.01 mg/kg	ND	N/A
1H,1H,2H,2H-perfluorodecylacrylate (8:2 FTAC)	27905-45-9	0.1 µg/L	0.01 mg/kg	ND	N/A
1H,1H,2H,2H-perfluorododecylacrylate (10:2 FTAC)	17741-60-5	0.1 µg/L	0.01 mg/kg	ND	N/A

Remark: ND = Not detected or result less than limit

12. Phthalates

With reference to US EPA 8270D, ISO 18856 and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Wastewater)	Reporting Limit (Sludge)	Wastewater (µg/L)	Sludge (mg/kg)
Dibutylphthalate (DBP)	84-74-2	1 µg/L	0.3 mg/kg	ND	N/A
Di-(2-ethylhexyl)phthalate (DEHP)	117-81-7	1 µg/L	0.3 mg/kg	ND	N/A
Benzylbutylphthalate (BBP)	85-68-7	1 µg/L	0.3 mg/kg	ND	N/A
Di-iso-nonylphthalate (DINP)	28553-12-0 68515-48-0	1 µg/L	0.3 mg/kg	ND	N/A
Di-n-octylphthalate (DNOP)	117-84-0	1 µg/L	0.3 mg/kg	ND	N/A
Di-iso-decyl phthalate (DiDP)	26761-40-0 68515-49-1	1 µg/L	0.3 mg/kg	ND	N/A



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Di-iso-butylphthalate (DIBP)	84-69-5	1 µg/L	0.3 mg/kg	ND	N/A
Di-n-hexylphthalate (DHP)	84-75-3	1 µg/L	0.3 mg/kg	ND	N/A
Di-(2-methoxyethyl)phthalate (DMEP)	117-82-8	1 µg/L	0.3 mg/kg	ND	N/A
Di-C7-11-branched alkylphthalates (DHNUP)	68515-42-4	1 µg/L	0.3 mg/kg	ND	N/A
Dipentylphthalate (DPP)	131-18-0	1 µg/L	0.3 mg/kg	ND	N/A
Di-iso-pentylphthalate	605-50-5	1 µg/L	0.3 mg/kg	ND	N/A
Dipentylphthalate, branched and linear	84777-06-0	1 µg/L	0.3 mg/kg	ND	N/A
iso-pentyl-n-pentylphthalate	776297-69-9	1 µg/L	0.3 mg/kg	ND	N/A
Di-C6-8-branched alkylphthalates (DIHP)	71888-89-6	1 µg/L	0.3 mg/kg	ND	N/A
Di-n-propylphthalate (DPP)	131-16-8	1 µg/L	0.3 mg/kg	ND	N/A
Di-iso-octylphthalate (DIOP)	27554-26-3	1 µg/L	0.3 mg/kg	ND	N/A
Di-iso-hexylphthalate (DIHxP)	71850-09-4	1 µg/L	0.3 mg/kg	ND	N/A
Dicyclohexylphthalate (DCHP)	84-61-7	1 µg/L	0.3 mg/kg	ND	N/A
Diethylphthalate (DEP)	84-66-2	1 µg/L	0.3 mg/kg	ND	N/A
Dinonylphthalate (DNP)	84-76-4	1 µg/L	0.3 mg/kg	ND	N/A

Remark: ND = Not detected or result less than limit

13. Polycyclic aromatic hydrocarbons (PAHs)

With reference to US EPA 8270, DIN 38407-39 and by Gas Chromatography - Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Wastewater)	Reporting Limit (Sludge)	Wastewater (µg/L)	Sludge (mg/kg)
Acenaphthene	83-32-9	1 ug/L	0.6 mg/kg	ND	N/A
Acenaphthylene	208-96-8	1 ug/L	0.6 mg/kg	ND	N/A
Anthracene	120-12-7	1 ug/L	0.6 mg/kg	ND	N/A
Benza[a]anthracene	56-55-3	1 ug/L	0.6 mg/kg	ND	N/A
Benza[a]pyrene	50-32-8	1 ug/L	0.6 mg/kg	ND	N/A
Benzo[b]fluoranthene	205-99-2	1 ug/L	0.6 mg/kg	ND	N/A
Benzo[ghi]perylene	191-24-2	1 ug/L	0.6 mg/kg	ND	N/A
Benzo[k]fluoranthene	207-08-9	1 ug/L	0.6 mg/kg	ND	N/A



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Chrysene	218-01-9	1 ug/L	0.6 mg/kg	ND	N/A
Dibenzo[a,h]anthracene	53-70-3	1 ug/L	0.6 mg/kg	ND	N/A
Fluoranthene	206-44-0	1 ug/L	0.6 mg/kg	ND	N/A
Fluorene	86-73-7	1 ug/L	0.6 mg/kg	ND	N/A
Indeno[1,2,3-cd]pyrene	193-39-5	1 ug/L	0.6 mg/kg	ND	N/A
Naphthalene	91-20-3	1 ug/L	0.1 mg/kg	ND	N/A
Phenanthrene	85-01-8	1 ug/L	0.6 mg/kg	ND	N/A
Pyrene	129-00-0	1 ug/L	0.6 mg/kg	ND	N/A

Remark: ND = Not detected or result less than limit

Testing period: From 11 / 06 / 2018 to 27 / 06 / 2018

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Photo of Samples;



End of report

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