

SOFTLINES WASTEWATER TESTING

TEST REPORT

Number: VNMT19046059

Date: 10 / 17 / 2019

Factory:
 Factory's name : TOP SPORTS TEXTILE LIMITED
 Address : MANHATTAN S.E.Z. (SVAY RIEING), BAVER COMMUNE BAVET CITY, SVAY REING PROVINCE, CAMBODIA
 On-site Wastewater treatment plant: Yes
 Type of wastewater discharge: Direct discharge
 Date of sampling : 10 / 02 / 2019
 Sample type:
 Sample / Incoming water [Clear, grab at 10:30]
 Sample / Raw wastewater N/A
 Sample / Wastewater (Treated) [Pale Yellow, composite sample at 10:45, 11:45, 12:45, 13:45, 14:45, 15:45]
 Sample / Sludge [Black, grab at 15:00]
 Local legal standard name: Sub-Decree On Water Pollution Control, Chapter 2, Annex 2, Effluent Standard For Pollution Sources Discharge Wastewater To Public Water Areas Or Sewer
 Local legal standard no.: No: 27 ANRK.BK
 Date received/Date test started: 10 / 04 / 2019

Tests conducted:

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

Summary of test results:

Wastewater / Conventional parameters - Test items	Wastewater		
	Foundational	Progressive	Aspirational
Temperature [°C]	x		
TSS			x
COD		x	
Total-N	x		
pH			x
Colour [m-1]	2.90;5.80;1.10 m ⁻¹		
BOD ₅	x		
Ammonium-N			x
Total-P		x	
AOX		x	
Oil and grease			x
Phenol			x
Coliform [bacterial/100 ml]	2.7x10 ⁴ CFU/100 mL		
Foam			x
Cyanide			x
Sulfide			x
Sulfite	x		

Wastewater / Heavy metals - Test items	Wastewater
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	Foundational	Progressive	Aspirational
Antimony, Sb		X	
Chromium, Cr (total)			X
Cobalt, Co			X
Copper, Cu			X
Nickel, Ni			X
Silver, Ag			X
Zinc, Zn			X
Arsenic, As			X
Cadmium, Cd			X
Chromium (VI), Cr VI			X
Lead, Pb			X
Mercury, Hg			X

Test items	Incoming Water	Wastewater	Sludge
Cyanide	N/A	ND	ND
Sulfide	N/A	ND	N/A
Sulfite	N/A	D	N/A
Heavy metals	N/A	D	D
Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	N/A	ND	ND
Chlorobenzenes and Chlorotoluenes	N/A	ND	ND
Chlorophenols	N/A	ND	ND
Azo dyes (Forming restricted amines)	N/A	ND	ND
Carcinogenic dyes	N/A	ND	ND
Disperse dyes	N/A	ND	ND
Flame retardants	N/A	ND	ND
Glycols	N/A	ND	ND
Halogenated solvents	N/A	ND	ND
Organotin compounds	N/A	ND	ND
Perfluorinated & Polyfluorinated chemicals (PFCs)	N/A	ND	ND
Phthalates (Ortho-phthalates)	N/A	ND	ND
Polycyclic aromatic hydrocarbons (PAHs)	N/A	ND	ND
Volatile organic compounds (VOCs)	N/A	ND	ND

Note :

ND = Not detected

D = Detected *[please specify actual result]*

N/A = Not applicable

= No comment

- = Did not perform

* = See Remark

For and on behalf of

Intertek Testing Services Vietnam Limited



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TEST REPORT

Phuong Le, Softlines General Manager

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Sample / Treated Wastewater

1. Conventional parameters

Parameters	Test method	Limit			Reporting limit	Result
		Foundational	Progressive	Aspirational		
Temperature	GB/T 13195 / EPA 170.1	35°C	30°C	25°C	N/A	34.75°C
TSS	GB/T 11901 / EPA 160.2	50 mg/L	15 mg/L	5 mg/L	5 mg/L	ND
COD	HJ 828 / ISO 6060	150 mg/L	80 mg/L	40 mg/L	16 mg/L	67.0 mg/L
Total-N	HJ 636 / ISO 5663	20 mg/L	10 mg/L	5 mg/L	1 mg/L	14.9 mg/L
pH	GB/T 6920 / EPA 150.1	6-9	6-9	6-9	N/A	7.95
Colour [m-1]	ISO 7887-B	7;5;3	5;3;2	2;1;1	N/A	2.90;5.80;1.10 m⁻¹
BOD ₅	HJ 505 / APHA 5210	30 mg/L	15 mg/L	5 mg/L	2.0 mg/L	18.0 mg/L
Ammonium-N	HJ 535 / ISO 11732	10 mg/L	1 mg/L	0.5 mg/L	0.2 mg/L	ND
Total-P	GB/T 11893 / ISO 11885	3 mg/L	0.5 mg/L	0.1 mg/L	0.04 mg/L	0.29 mg/L
AOX	HJ/T 83 / ISO 9562	5 mg/L	1 mg/L	0.1 mg/L	0.06 mg/L	0.45 mg/L
Oil and grease	HJ 637 / ISO 9377-2	10 mg/L	2 mg/L	0.5 mg/L	0.5 mg/L	ND
Phenol	HJ 503 / ISO 14402	0.5 mg/L	0.01 mg/L	0.001 mg/L	0.001 mg/L	ND
Coliform [bacterial/100 ml]	GB/T 5750.12 / ISO 9308-1	400	100	25	2 bacterial/ 100 mL	2.7x10⁴ CFU/100 mL
Foam	/	Not visible	Not visible	Not visible	N/A	Not visible
Cyanide	HJ484 / ISO 6703 / ISO 14403	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.02 mg/L	ND
Sulfide	GB/T 16489 / APHA 4500-S2-D	0.5 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	ND
Sulfite	ISO 10304-3 / USEPA 377.1 SM 4500 SO3	2 mg/L	0.5 mg/L	0.2 mg/L	0.2 mg/L	1.20 mg/L

Remark: ND = Not detected

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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, US EPA 3051A and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS) analysis, or by Colourimetric UV/VIS or Colourimetric IC analysis.

Chemical substances	CAS no.	Limit			Reporting limit	Wastewater (mg/L)
		Foundational	Progressive	Aspirational		
Antimony, Sb	7440-36-0	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.001 mg/L	0.0422
Chromium, Cr (total)	7440-47-3	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.0001 mg/L	0.0030
Cobalt, Co	7440-48-4	0.05 mg/L	0.02 mg/L	0.01 mg/L	0.001 mg/L	0.0011
Copper, Cu	7440-50-8	1 mg/L	0.5 mg/L	0.25 mg/L	0.001 mg/L	0.0102
Nickel, Ni	7440-02-0	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.001 mg/L	0.0036
Silver, Ag	7440-22-4	0.1 mg/L	0.05 mg/L	0.005 mg/L	0.001 mg/L	ND
Zinc, Zn	7440-66-6	5.0 mg/L	1.0 mg/L	0.5 mg/L	0.001 mg/L	0.1751
Arsenic, As	7440-38-2	0.05 mg/L	0.01 mg/L	0.005 mg/L	0.001 mg/L	ND
Cadmium, Cd	7440-43-9	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.0001 mg/L	ND
Chromium (VI), Cr VI	18540-29-9	0.05 mg/L	0.005 mg/L	0.001 mg/L	0.001 mg/L	ND
Lead, Pb	7439-92-1	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.001 mg/L	0.0030
Mercury, Hg	7439-97-6	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.00005 mg/L	0.00006

Remark: ND = Not detected

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 (µg/L)
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	5 µg/L	ND
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	5 µg/L	ND
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	5 µg/L	ND
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	5 µg/L	ND

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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 (µg/L)
Monochlorobenzene	108-90-7	0.2 µg/L	ND
4-Chlorotoluene	106-43-4	0.2 µg/L	ND
1,2-Dichlorobenzene	95-50-1	0.2 µg/L	ND
1,3-Dichlorobenzene	541-73-1	0.2 µg/L	ND
1,4-Dichlorobenzene	106-46-7	0.2 µg/L	ND
1,2,4-Trichlorobenzene	120-82-1	0.2 µg/L	ND
1,2,3-Trichlorobenzene	87-61-6	0.2 µg/L	ND
1,3,5-Trichlorobenzene	108-70-3	0.2 µg/L	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2 µg/L	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2 µg/L	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2 µg/L	ND
Pentachlorobenzene	608-93-5	0.2 µg/L	ND
Hexachlorobenzene	118-74-1	0.2 µg/L	ND
2-Chlorotoluene	95-49-8	0.2 µg/L	ND
3-Chlorotoluene	108-41-8	0.2 µg/L	ND
2,3-Dichlorotoluene	32768-54-0	0.2 µg/L	ND
2,4-Dichlorotoluene	95-73-8	0.2 µg/L	ND
2,5-Dichlorotoluene	19398-61-9	0.2 µg/L	ND
2,6-Dichlorotoluene	118-69-4	0.2 µg/L	ND
3,4-Dichlorotoluene	95-75-0	0.2 µg/L	ND
3,5-Dichlorotoluene	25186-47-4	0.2 µg/L	ND
2,3,4-Trichlorotoluene	7359-72-0	0.2 µg/L	ND
2,3,6-Trichlorotoluene	2077-46-5	0.2 µg/L	ND
2,4,6-Trichlorotoluene	23749-65-7	0.2 µg/L	ND
2,4,5-Trichlorotoluene	6639-30-1	0.2 µg/L	ND
3,4,5-Trichlorotoluene	21472-86-6	0.2 µg/L	ND
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2 µg/L	ND
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2 µg/L	ND
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2 µg/L	ND
Pentachlorotoluene	877-11-2	0.2 µg/L	ND

Remark: ND = Not detected

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5. Chlorophenols

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

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

Remark: ND = Not detected

6. Azo dyes (Forming restricted amines)

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 (µg/L)
2,4,5-Trimethylaniline	137-17-7	0.1 µg/L	ND
2,4-Diaminoanisole; 4-methoxy-m-phenyl- enediamine	615-05-4	0.1 µg/L	ND
2,4-Diaminotoluene; 4-methyl-m-phenylene- diamine	95-80-7	0.1 µg/L	ND
2,4-Xylidine	95-68-1	0.1 µg/L	ND
2,6-Xylidine	87-62-7	0.1 µg/L	ND
2-Naphthylamine	91-59-8	0.1 µg/L	ND
3,3'-Dichlorobenzidine	91-94-1	0.1 µg/L	ND

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3,3'-Dimethoxybenzidine	119-90-4	0.1 µg/L	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane; 4,4'-methylene- di-o-toluidine	838-88-0	0.1 µg/L	ND
3,3'-Dimethylbenzidine	119-93-7	0.1 µg/L	ND
4,4'-Diaminodiphenylmethane; 4,4'-methylenedianiline	101-77-9	0.1 µg/L	ND
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1 µg/L	ND
4,4'-Oxydianiline	101-80-4	0.1 µg/L	ND
4,4'-Thiodianiline	139-65-1	0.1 µg/L	ND
4-Aminobiphenyl	92-67-1	0.1 µg/L	ND
4-Chloroaniline	106-47-8	0.1 µg/L	ND
4-Chloro-o-toluidine	95-69-2	0.1 µg/L	ND
5-Nitro-o-toluidine	99-55-8	0.1 µg/L	ND
4-Aminoazobenzene	60-09-3	0.1 µg/L	ND
Benzidine	92-87-5	0.1 µg/L	ND
o-Aminoazotoluene	97-56-3	0.1 µg/L	ND
o-Anisidine	90-04-0	0.1 µg/L	ND
o-Toluidine	95-53-4	0.1 µg/L	ND
p-Cresidine; 6-methoxy-m-toluidine	120-71-8	0.1 µg/L	ND

Remark: ND = Not detected

7. Carcinogenic dyes

By Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

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

Remark: ND = Not detected

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8. Disperse dyes

By Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

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

Remark: ND = Not detected

9. 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 (µg/L)
Decabromodiphenyl ether (DecaBDE)	1163-19-5	5 µg/L	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	5 µg/L	ND
Octabromodiphenyl ether (OctaBDE)	32536-52-0	5 µg/L	ND
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	5 µg/L	ND
Polybromobiphenyls (PBBs)	59536-65-1	5 µg/L	ND
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	5 µg/L	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	5 µg/L	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	5 µg/L	ND
Bis(2,3-dibromopropyl) phosphate	5412-25-9	5 µg/L	ND

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Hexabromocyclododecane (HBCDD)	3194-55-6	5 µg/L	ND
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	5 µg/L	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	5 µg/L	ND
Short chain chlorinated paraffins (SCCP) (C10-C13)	85535-84-8	5 µg/L	ND

Remark: ND = Not detected

10. Glycols

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

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

Remark: ND = Not detected

11. Halogenated 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 (µg/L)
1,2-Dichloroethane	107-06-2	1 µg/L	ND
Methylene chloride	75-09-2	1 µg/L	ND
Tetrachloroethene	127-18-4	1 µg/L	ND
Trichloroethene	79-01-6	1 µg/L	ND

Remark: ND = Not detected

12. Organotin compounds

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

Chemical substances	CAS no.	Reporting limit	Wastewater (µg/L)
Mono-, di- and tri-butyltin derivatives	Multiple	0.01 µg/L	ND
Mono, di-, and tri-octyltin derivatives	Multiple	0.01 µg/L	ND
Mono, di-, and tri-methyltin derivatives	Multiple	0.01 µg/L	ND
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01 µg/L	ND

Remark: ND = Not detected

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13. Perfluorinated & polyfluorinated chemicals (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 (µg/L)
PFOA	335-67-1	0.01 µg/L	ND
PFOS	355-46-4; 432-50-7	0.01 µg/L	ND
PFBS	29420-49-3; 29420-43-3	0.01 µg/L	ND
PFHxA	307-24-4	0.01 µg/L	ND
8:2 FTOH	678-39-7	1 µg/L	ND
6:2 FTOH	647-42-7	1 µg/L	ND

Remark: ND = Not detected

14. Phthalates (Ortho-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 (µg/L)
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	10 µg/L	ND
Butyl benzyl phthalate (BBP)	85-68-7	10 µg/L	ND
Di-n-butyl phthalate (DBP)	84-74-2	10 µg/L	ND
Diethyl phthalate (DEP)	84-66-2	10 µg/L	ND
Di-n-octyl phthalate (DNOP)	117-84-0	10 µg/L	ND
Di-isononyl phthalate (DINP)	28553-12-0	10 µg/L	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0	10 µg/L	ND
Di-isobutyl phthalate (DIBP)	84-69-5	10 µg/L	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	10 µg/L	ND
Dimethoxyethyl phthalate (DMEP)	117-82-8	10 µg/L	ND
Di-n-propyl phthalate (DPRP)	131-16-8	10 µg/L	ND
Di-iso-octyl phthalate (DIOP)	27554-26-3	10 µg/L	ND
Di-cyclohexyl phthalate (DCHP)	84-61-7	10 µg/L	ND
Dinonyl phthalate (DNP)	84-76-4	10 µg/L	ND
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNU)	68515-42-4	10 µg/L	ND
1,2-benzenedicarboxylic acid, di-C6-11-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10 µg/L	ND

Remark: ND = Not detected

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15. 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 (µg/L)
Benzo[a]pyrene (BaP)	50-32-8	1 µg/L	ND
Anthracene	120-12-7	1 µg/L	ND
Pyrene	129-00-0	1 µg/L	ND
Benzo[ghi]perylene	191-24-2	1 µg/L	ND
Benzo[e]pyrene	192-97-2	1 µg/L	ND
Indeno[1,2,3-cd]pyrene	193-39-5	1 µg/L	ND
Benzo[j]fluoranthene	205-82-3	1 µg/L	ND
Benzo[b]fluoranthene	205-99-2	1 µg/L	ND
Fluoranthene	206-44-0	1 µg/L	ND
Benzo[k]fluoranthene	207-08-9	1 µg/L	ND
Acenaphthylene	208-96-8	1 µg/L	ND
Chrysene	218-01-9	1 µg/L	ND
Dibenz[a,h]anthracene	53-70-3	1 µg/L	ND
Benzo[a]anthracene	56-55-3	1 µg/L	ND
Acenaphthene	83-32-9	1 µg/L	ND
Phenanthrene	85-01-8	1 µg/L	ND
Fluorene	86-73-7	1 µg/L	ND
Naphthalene	91-20-3	1 µg/L	ND

Remark: ND = Not detected

16. Volatile organic compounds (VOCs)

With reference to ISO 11423-1, and by Headspace Gas Chromatography Mass Spectrometric (HS-GC/MS) analysis.
With reference to US EPA 8270D, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Wastewater (µg/L)
Benzene	71-43-2	1 µg/L	ND
Xylene	1330-20-7	1 µg/L	ND
o-cresol	95-48-7	1 µg/L	ND
p-cresol	106-44-5	1 µg/L	ND
m-cresol	108-39-4	1 µg/L	ND

Remark: ND = Not detected

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Sample / Sludge

1. Heavy metals

Other heavy metals: With reference to US EPA 3050, US EPA 6010D, US EPA 6020B, US EPA 7471B, US EPA 3051A, and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS).

Chromium (VI): With reference to US EPA 3060A, US EPA 7196, US EPA 7199, US EPA 3051A and by Colourimetric UV/VIS or Colourimetric IC analysis.

Cyanide: With reference to US EPA 9013, US EPA 9014, US EPA 9213, ISO 11262, HJ 745, and by Colourimetry or ISE analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight)	Sludge (mg/kg – Dry weight)
Lead, Pb	7439-92-1	2 mg/kg	14.9
Cadmium, Cd	7440-43-9	2 mg/kg	ND
Mercury, Hg	7439-97-6	0.2 mg/kg	ND
Arsenic, As	7440-38-2	2 mg/kg	3.4
Chromium (VI), Cr VI	18540-29-9	2 mg/kg	ND
Cyanide	NA	1 mg/kg	ND

Remark: ND = Not detected

2. Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)

With reference to US EPA 3540/3541, US EPA 3550, US EPA 3560, ISO 18857-2, ASTM D7065, ISO 18254-1, and by Gas Chromatography-Mass Spectrometry (GC-MS) and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

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

Remark: ND = Not detected

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3. Chlorobenzenes and Chlorotoluenes

With reference to US EPA 3540/3541, US EPA 3550, US EPA 3560, US EPA 3650, US EPA 8270, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight)	Sludge (mg/kg – Dry weight)
Monochlorobenzene	108-90-7	0.2 mg/kg	ND
4-Chlorotoluene	106-43-4	0.2 mg/kg	ND
1,2-Dichlorobenzene	95-50-1	0.2 mg/kg	ND
1,3-Dichlorobenzene	541-73-1	0.2 mg/kg	ND
1,4-Dichlorobenzene	106-46-7	0.2 mg/kg	ND
1,2,4-Trichlorobenzene	120-82-1	0.2 mg/kg	ND
1,2,3-Trichlorobenzene	87-61-6	0.2 mg/kg	ND
1,3,5-Trichlorobenzene	108-70-3	0.2 mg/kg	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2 mg/kg	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2 mg/kg	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2 mg/kg	ND
Pentachlorobenzene	608-93-5	0.2 mg/kg	ND
Hexachlorobenzene	118-74-1	0.2 mg/kg	ND
2-Chlorotoluene	95-49-8	0.2 mg/kg	ND
3-Chlorotoluene	108-41-8	0.2 mg/kg	ND
2,3-Dichlorotoluene	32768-54-0	0.2 mg/kg	ND
2,4-Dichlorotoluene	95-73-8	0.2 mg/kg	ND
2,5-Dichlorotoluene	19398-61-9	0.2 mg/kg	ND
2,6-Dichlorotoluene	118-69-4	0.2 mg/kg	ND
3,4-Dichlorotoluene	95-75-0	0.2 mg/kg	ND
3,5-Dichlorotoluene	25186-47-4	0.2 mg/kg	ND
2,3,4-Trichlorotoluene	7359-72-0	0.2 mg/kg	ND
2,3,6-Trichlorotoluene	2077-46-5	0.2 mg/kg	ND
2,4,6-Trichlorotoluene	23749-65-7	0.2 mg/kg	ND
2,4,5-Trichlorotoluene	6639-30-1	0.2 mg/kg	ND
3,4,5-Trichlorotoluene	21472-86-6	0.2 mg/kg	ND
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2 mg/kg	ND
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2 mg/kg	ND
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2 mg/kg	ND
Pentachlorotoluene	877-11-2	0.2 mg/kg	ND

Remark: ND = Not detected

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4. Chlorophenols

With reference to ISO 14154, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight)	Sludge (mg/kg – Dry weight)
2-Chlorophenol	95-57-8	0.05 mg/kg	ND
2,4-Dichlorophenol	120-83-2	0.05 mg/kg	ND
2,5-Dichlorophenol	583-78-8	0.05 mg/kg	ND
2,6-Dichlorophenol	87-65-0	0.05 mg/kg	ND
Pentachlorophenol (PCP)	87-86-5	0.05 mg/kg	ND
2,3,4,6-Tetrachlorophenol	58-90-2	0.05 mg/kg	ND
2,4,5-Trichlorophenol	95-95-4	0.05 mg/kg	ND
2,4,6-Trichlorophenol	88-06-2	0.05 mg/kg	ND
2,3,4,5-Tetrachlorophenol	4901-51-3	0.05 mg/kg	ND
2,3,5,6-Tetrachlorophenol	935-95-5	0.05 mg/kg	ND
2,3,6-Trichlorophenol	933-75-5	0.05 mg/kg	ND
2,3,4-Trichlorophenol	15950-66-0	0.05 mg/kg	ND
2,3,5-Trichlorophenol	933-78-8	0.05 mg/kg	ND
3,4,5-Trichlorophenol	609-19-8	0.05 mg/kg	ND
3,5- Dichlorophenol	591-35-5	0.05 mg/kg	ND
2,3-Dichlorophenol	576-24-9	0.05 mg/kg	ND
3,4-Dichlorophenol	95-77-2	0.05 mg/kg	ND
3-chlorophenol	108-43-0	0.05 mg/kg	ND
4-chlorophenol	106-48-9	0.05 mg/kg	ND

Remark: ND = Not detected

5. Azo dyes (Forming restricted amines)

With reference to ISO 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 (Dry weight)	Sludge (mg/kg – Dry weight)
2,4,5-Trimethylaniline	137-17-7	0.2 mg/kg	ND
2,4-Diaminoanisole; 4-methoxy-m-phenyl-enediamine	615-05-4	0.2 mg/kg	ND
2,4-Diaminotoluene; 4-methyl-m-phenylene-diamine	95-80-7	0.2 mg/kg	ND
2,4-Xylidine	95-68-1	0.2 mg/kg	ND
2,6-Xylidine	87-62-7	0.2 mg/kg	ND
2-Naphthylamine	91-59-8	0.2 mg/kg	ND
3,3'-Dichlorobenzidine	91-94-1	0.2 mg/kg	ND

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3,3'-Dimethoxybenzidine	119-90-4	0.2 mg/kg	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane; 4,4'-methylene-di-o-toluidine	838-88-0	0.2 mg/kg	ND
3,3'-Dimethylbenzidine	119-93-7	0.2 mg/kg	ND
4,4'-Diaminodiphenylmethane; 4,4'-methylenedianiline	101-77-9	0.2 mg/kg	ND
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.2 mg/kg	ND
4,4'-Oxydianiline	101-80-4	0.2 mg/kg	ND
4,4'-Thiodianiline	139-65-1	0.2 mg/kg	ND
4-Aminobiphenyl	92-67-1	0.2 mg/kg	ND
4-Chloroaniline	106-47-8	0.2 mg/kg	ND
4-Chloro-o-toluidine	95-69-2	0.2 mg/kg	ND
5-Nitro-o-toluidine	99-55-8	0.2 mg/kg	ND
4-Aminoazobenzene	60-09-3	0.2 mg/kg	ND
Benzidine	92-87-5	0.2 mg/kg	ND
o-Aminoazotoluene	97-56-3	0.2 mg/kg	ND
o-Anisidine	90-04-0	0.2 mg/kg	ND
o-Toluidine	95-53-4	0.2 mg/kg	ND
p-Cresidine; 6-methoxy-m-toluidine	120-71-8	0.2 mg/kg	ND

Remark: ND = Not detected

6. Carcinogenic dyes

With reference to ISO 16373, and by Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight)	Sludge (mg/kg – Dry weight)
C.I. Direct Black 38	1937-37-7	10 mg/kg	ND
C.I. Direct Blue 6	2602-46-2	10 mg/kg	ND
C.I. Acid Red 26	3761-53-3	10 mg/kg	ND
C.I. Basic Red 9	569-61-9	10 mg/kg	ND
C.I. Direct Red 28	573-58-0	10 mg/kg	ND
C.I. Basic Violet 14	632-99-5	10 mg/kg	ND
C.I. Disperse Blue 1	2475-45-8	10 mg/kg	ND
C.I. Disperse Blue 3	2475-46-9	10 mg/kg	ND
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	10 mg/kg	ND
C.I. Basic Green 4 (malachite green chloride)	569-64-2	10 mg/kg	ND
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	10 mg/kg	ND
C.I. Basic Green 4 (malachite green)	10309-95-2	10 mg/kg	ND
Disperse Orange 11	82-28-0	10 mg/kg	ND

Remark: ND = Not detected

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7. Disperse dyes

With reference to ISO 16373, and by Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

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

Remark: ND = Not detected

8. Flame retardants

With reference to ISO 22032, 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 (Dry weight)	Sludge (mg/kg – Dry weight)
Decabromodiphenyl ether (DecaBDE)	1163-19-5	1 mg/kg	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	1 mg/kg	ND
Octabromodiphenyl ether (OctaBDE)	32536-52-0	1 mg/kg	ND
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	1 mg/kg	ND
Polybromobiphenyls (PBBs)	59536-65-1	1 mg/kg	ND
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	1 mg/kg	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	1 mg/kg	ND

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Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	1 mg/kg	ND
Bis(2,3-dibromopropyl) phosphate	5412-25-9	1 mg/kg	ND
Hexabromocyclododecane (HBCDD)	3194-55-6	1 mg/kg	ND
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	1 mg/kg	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	1 mg/kg	ND
Short chain chlorinated paraffins (SCCP) (C10-C13)	85535-84-8	1 mg/kg	ND

Remark: ND = Not detected

9. Glycols

With reference to US EPA 8270D, ISO 22892, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis or Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight)	Sludge (mg/kg – Dry weight)
Bis(2-methoxyethyl)-ether	111-96-6	10 mg/kg	ND
2-ethoxyethanol	110-80-5	10 mg/kg	ND
2-ethoxyethyl acetate	111-15-9	10 mg/kg	ND
Ethylene glycol dimethyl ether	110-71-4	10 mg/kg	ND
2-methoxyethanol	109-86-4	10 mg/kg	ND
2-methoxyethylacetate	110-49-6	10 mg/kg	ND
2-methoxypropylacetate	70657-70-4	10 mg/kg	ND
Triethylene glycol dimethyl ether	112-49-2	10 mg/kg	ND

Remark: ND = Not detected

10. Halogenated solvents

With reference to US EPA 5035, US EPA 50211, US EPA 8010, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight)	Sludge (mg/kg – Dry weight)
1,2-Dichloroethane	107-06-2	2 mg/kg	ND
Methylene chloride	75-09-2	2 mg/kg	ND
Tetrachloroethene	127-18-4	2 mg/kg	ND
Trichloroethene	79-01-6	2 mg/kg	ND

Remark: ND = Not detected

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11. Organotin compounds

With reference to ISO 23161, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight)	Sludge (mg/kg – Dry weight)
Mono-, di- and tri-butyltin derivatives	Multiple	0.2 mg/kg	ND
Mono, di-, and tri-octyltin derivatives	Multiple	0.2 mg/kg	ND
Mono, di-, and tri-methyltin derivatives	Multiple	0.2 mg/kg	ND
Mono, di-, and tri-phenyltin derivatives	Multiple	0.2 mg/kg	ND

Remark: ND = Not detected

12. Perfluorinated & polyfluorinated Chemicals (PFCs)

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

Chemical substances	CAS no.	Reporting limit (Dry weight)	Sludge (mg/kg – Dry weight)
PFOA	335-67-1	0.10 mg/kg	ND
PFOS	355-46-4; 432-50-7	0.10 mg/kg	ND
PFBS	29420-49-3; 29420-43-3	0.10 mg/kg	ND
PFHxA	307-24-4	0.10 mg/kg	ND
8:2 FTOH	678-39-7	1 mg/kg	ND
6:2 FTOH	647-42-7	1 mg/kg	ND

Remark: ND = Not detected

13. Phthalates (Ortho-phthalates)

With reference to US EPA 3540/3541, US EPA 3550, US EPA 3560, ISO 18856, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight)	Sludge (mg/kg – Dry weight)
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	2 mg/kg	ND
Butyl benzyl phthalate (BBP)	85-68-7	2 mg/kg	ND
Di-n-butyl phthalate (DBP)	84-74-2	2 mg/kg	ND
Diethyl phthalate (DEP)	84-66-2	2 mg/kg	ND
Di-n-octyl phthalate (DNOP)	117-84-0	2 mg/kg	ND
Di-isononyl phthalate (DINP)	28553-12-0	2 mg/kg	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0	2 mg/kg	ND
Di-isobutyl phthalate (DIBP)	84-69-5	2 mg/kg	ND

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Di-n-hexyl phthalate (DnHP)	84-75-3	2 mg/kg	ND
Dimethoxyethyl phthalate (DMEP)	117-82-8	2 mg/kg	ND
Di-n-propyl phthalate (DPRP)	131-16-8	2 mg/kg	ND
Di-iso-octyl phthalate (DIOP)	27554-26-3	2 mg/kg	ND
Di-cyclohexyl phthalate (DCHP)	84-61-7	2 mg/kg	ND
Dinonyl phthalate (DNP)	84-76-4	2 mg/kg	ND
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	2 mg/kg	ND
1,2-benzenedicarboxylic acid, di-C6-11-branched alkyl esters, C7-rich (DIHP)	71888-89-6	2 mg/kg	ND

Remark: ND = Not detected

14. Polycyclic aromatic hydrocarbons (PAHs)

With reference to US EPA 3540/3541, US EPA 3550, US EPA 3560, US EPA 3650, US EPA 8270, and by Gas Chromatography - Mass Spectrometry (GC-MS) analysis.

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

Remark: ND = Not detected

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15. Volatile organic compounds (VOCs)

With reference to US EPA 5035, 5021, 8260, DIN 38407-43, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight)	Sludge (mg/kg – Dry weight)
Benzene	71-43-2	2 mg/kg	ND
Xylene	1330-20-7	2 mg/kg	ND
o-cresol	95-48-7	2 mg/kg	ND
p-cresol	106-44-5	2 mg/kg	ND
m-cresol	108-39-4	2 mg/kg	ND

Remark: ND = Not detected

Testing period: From 10 / 05 / 2019 to 10 / 17 / 2019

Photo of sampling points:



Incoming Water



Sludge



Treated Wastewater

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Photo of samples:



Incoming Water



Treated Wastewater



Sludge

End of report

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