

TEST REPORT

**SOFTLINES WASTEWATER TESTING**

Number : SHAT06929860

<b>Date</b>	09 Jun, 2021
<b>Date of sampling</b>	28 May, 2021

<b>Audit ID</b>	96862	<b>Audit firm</b>	INTERTEK - CHINA NORTH
<b>Company name</b>	SUZHOU NANHUA CO., LTD		
<b>Contact person</b>	CHUNHUI GU		
<b>Type of tax - tax ID no</b>	91320509796141035E		
<b>Address</b>	TONGLUOYANMU DEVELOPMENT ZONE,WUJIANG CITY,JIANGSU		
<b>Region state province</b>	JIANGSU		
<b>Town city / village</b>	WUJIANG		
<b>Zip/Post code</b>	215000		

<b>Type of wastewater discharge</b>	
Type of waste discharge	Indirect Discharge
Description of the discharge	The water is discharged into the sewage system for further treatment on External ETP (吴江市科欧污水处理有限公司)
(if Direct Discharge) Ambient temperature of receiving water body	-

<b>Samper accreditation certification number (ZDHC): 8F146506858</b>			
<b>Sample description</b>			
<b>Sample description</b>	<b>Simple</b>	<b>Comp</b>	<b>Comments</b>
(1) Wastewater before treatment –Fourteen hazardous chemicals		Brown, composite sample at 08:05, 09:05, 10:05, 11:05, 12:05, 13:05	Sample 1 pH : 6.7 Temperature: 50.0 °C
(2) Wastewater after treatment – Global effluent parameter & Heavy Metal	Red, grab sample at 11:40		Sample 2 pH : 6.5 Temperature: 35.2 °C

Prepared And Checked By:  
For Intertek Testing Services Ltd.,Shanghai



Jane Wu  
General Manager of Softlines

**Intertek Testing Services Ltd., Shanghai**

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Local Legal Data	
Local Legal Standard name (a)	Discharge standards of water pollutants for dyeing and finishing of textile industry GB 4287-2012 Discharge Standard of Antimony Pollutants in Wastewater for Textile Dyeing and Finishing DB 32/3432-2018
Parameters (ZDHC WWG V1.1, Table 1A-1B) exceeded local regulation	No exceeded
Discharge permit provided:	Yes
Discharge flow data	225.23 m <sup>3</sup> /h
Internal description	
Internal codification number	
Reference sample number	SHAT06929860
Received on	28 May, 2021 PM
Analysis carried out from	28 May, 2021 PM to 08 Jun, 2021
Arrival Temperature at Lab	5.5 °C
Comments	-
Reporting Date	Jun 09, 2021

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Summary of test results		
Test items	Sample 1 (Before Treatment)	Sample 2 (After Treatment)
Global effluent parameters ZDHC	-	<b>D</b>
Heavy metals	-	<b>D</b>
Alkylphenols (APs) & Alkylphenol ethoxylates (APEOs)	ND	-
Chlorobenzenes & Chlorotoluenes	ND	-
Chlorophenols	ND	-
Azo dyes	<b>D</b>	-
Carcinogenic dyes	ND	-
Disperse dyes	ND	-
Brominated flame retardants	ND	-
Chlorinated flame retardants	ND	-
Short chain chlorinated paraffins (SCCPs) (C10-C13)	ND	-
Glycols	ND	-
Chlorinated solvents	ND	-
Organotin compounds	ND	-
Phthalates	<b>D</b>	-
Perfluorinated chemicals (PFCs)	<b>D</b>	-
Polycyclic aromatic hydrocarbons (PAHs)	ND	-
VOCs	ND	-

Note: ND = Not detected

D = Detected

\* = See remark

(s) = The analysis was subcontracted to intertek (T) = handling temperature exceeded (XXXX) for testing

# = Non accredited parameter

(a) The local legal standard name and legal standard no. is referenced to discharge permit (or contractual agree by CETP) that provided by company.

N/A = Not applicable

- = Did not perform

(f) = parameter tested in field

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.

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Tests Conducted (As Requested By The Applicant)

**Test Results**

1 Global Effluent Parameters:

Parameters	Test method	Limit			Reporting Limit	Result Sample	Unit
		Foundatio nal	Progress ive	Aspiratio nal		After treatment	
Temperature	GB/T 13195-1991 / EPA 170.1	35°C	30°C	25°C	N/A	35.2 (f)	°C
TSS	GB/T 11901-1989 / EPA 160.2	50 mg/L	15 mg/L	5 mg/L	5 mg/L	9	mg/L
COD	HJ 828-2017 / ISO 6060	150 mg/L	80 mg/L	40 mg/L	16 mg/L	137	mg/L
Total-N	HJ 636-2012 / ISO 5663	20 mg/L	10 mg/L	5 mg/L	1 mg/L	10.8	mg/L
pH	GB/T 6920-1986 / EPA 150.1	6-9	6-9	6-9	N/A	6.5 (f)	
Colour [m-1]	ISO 7887-B	7;5;3	5;3;2	2;1;1	N/A	5.1;3.4;1.0	
BOD <sub>5</sub>	HJ 505-2009 / APHA 5210	30 mg/L	15 mg/L	5 mg/L	2 mg/L	54.0	mg/L
Ammonium-N	HJ 535-2009 / ISO 11732	10 mg/L	1 mg/L	0.5 mg/L	0.2 mg/L	2.04	mg/L
Total-P	GB/T 11893-1989 / ISO 11885	3 mg/L	0.5 mg/L	0.1 mg/L	0.04 mg/L	ND	mg/L
AOX	HJ/T 83-2001 / ISO 9562	5 mg/L	1 mg/L	0.1 mg/L	0.06 mg/L	ND	mg/L
Oil and grease	HJ 637-2018 / ISO 9377-2	10 mg/L	2 mg/L	0.5 mg/L	0.5 mg/L	ND	mg/L
Phenol	HJ 503-2009 / ISO 14402	0.5 mg/L	0.01 mg/L	0.001 mg/L	0.001 mg/L	ND	mg/L
Coliform	GB/T 5750.12-2006 / ISO 9308-1	400 [CFU/100 ml]	100 [CFU/100 ml]	25 [CFU/100 ml]	2 [CFU/100 ml]	3.7x10 <sup>4</sup>	[CFU/100 ml]
Foam	/	Not visible	Not visible	Not visible	N/A	Not visible (f)	
Cyanide	HJ484-2009 / ISO 6703 / ISO 14403	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.02 mg/L	ND	mg/L
Sulfide	GB/T 16489-1996 / APHA 4500-S2-D	0.5 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	ND	mg/L
Sulfite	HJ 84-2016 / USEPA 377.1 SM 4500 SO3	2 mg/L	0.5 mg/L	0.2 mg/L	0.2 mg/L	ND	mg/L
Conductivity	EPA 120.1	N/A	N/A	N/A	N/A	7.80x10 <sup>3</sup>	µS/cm

Remark : N/A = Not applicable

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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 and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS) analysis.

Heavy metals	CAS no.	Limit			Result Sample 2 (After treatment) (mg/L)	Detection Limit (mg/L)
		Foundational	Progressive	Aspirational		
		(mg/L)	(mg/L)	(mg/L)		
Total Arsenic (As)	Various	0.05	0.01	0.005	ND	0.001
Total Cadmium (Cd)	Various	0.1	0.05	0.01	0.0001	0.0001
Total Mercury (Hg)	Various	0.01	0.005	0.001	0.00096	0.00005
Total Lead (Pb)	Various	0.1	0.05	0.01	0.005	0.001
Total Antimony (Sb)	Various	0.1	0.05	0.01	0.026	0.001
Total Cobalt (Co)	Various	0.05	0.02	0.01	0.016	0.001
Total Nickel (Ni)	Various	0.2	0.1	0.05	0.013	0.001
Total Silver (Ag)	Various	0.1	0.05	0.005	ND	0.001
Total Copper (Cu)	Various	1.0	0.5	0.25	0.002	0.001
Total Zinc (Zn)	Various	5.0	1.0	0.5	0.048	0.001
Total Chromium (Cr)	Various	0.2	0.1	0.05	0.044	0.001
Total Manganese (Mn)	Various	N/A	N/A	N/A	4.81	0.001
Chromium VI (Cr VI)	Various	0.05	0.005	0.001	ND	0.001

Remark : ND=Not Detected  
N/A=Not Applicable

3 Alkylphenols (APs) & AlkylphenolEthoxylates (APEOs):

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.

Alkylphenols (APs) & Alkylphenolethoxylates (APEOs)	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
Octylphenol (OP)	Various	X		ppm	0.005
Nonylphenol (NP)	Various	X		ppm	0.005
Octylphenolethoxylates (OPEOs)	Various	X		ppm	0.005
Nonylphenolethoxylates (NPEOs)	Various	X		ppm	0.005

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4 Chlorobenzenes & Chlorotoluenes:

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

Chlorobenzenes & Chlorotoluenes	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
Chlorobenzene	108-90-7	X		ppm	0.0002
1,2-Dichlorobenzene	95-50-1	X		ppm	0.0002
1,3-Dichlorobenzene	541-73-1	X		ppm	0.0002
1,4-Dichlorobenzene	106-46-7	X		ppm	0.0002
1,2,3-Trichlorobenzene	87-61-6	X		ppm	0.0002
1,2,4-Trichlorobenzene	120-82-1	X		ppm	0.0002
1,3,5-Trichlorobenzene	108-70-3	X		ppm	0.0002
1,2,3,4-Tetrachlorobenzene	634-66-2	X		ppm	0.0002
1,2,3,5-Tetrachlorobenzene	634-90-2	X		ppm	0.0002
1,2,4,5-Tetrachlorobenzene	95-94-3	X		ppm	0.0002
Pentachlorobenzene	608-93-5	X		ppm	0.0002
Hexachlorobenzene	118-74-1	X		ppm	0.0002
2-Chlorotoluene	95-49-8	X		ppm	0.0002
3-Chlorotoluene	108-41-8	X		ppm	0.0002
4-Chlorotoluene	106-43-4	X		ppm	0.0002
2,3-Dichlorotoluene	32768-54-0	X		ppm	0.0002
3,4-Dichlorotoluene	95-75-0	X		ppm	0.0002
2,4-Dichlorotoluene	95-73-8	X		ppm	0.0002
2,5-Dichlorotoluene	19398-61-9	X		ppm	0.0002
2,6-Dichlorotoluene	118-69-4	X		ppm	0.0002
3,5-Dichlorotoluene	25186-47-4	X		ppm	0.0002
2,3,4-Trichlorotoluene	7359-72-0	X		ppm	0.0002
2,3,6-Trichlorotoluene	2077-46-5	X		ppm	0.0002
3,4,5-Trichlorotoluene	21472-86-6	X		ppm	0.0002
2,4,5-Trichlorotoluene	6639-30-1	X		ppm	0.0002
2,4,6-Trichlorotoluene	23749-65-7	X		ppm	0.0002
2,3,4,5-Tetrachlorotoluene	76057-12-0	X		ppm	0.0002
2,3,5,6-Tetrachlorotoluene	29733-70-8	X		ppm	0.0002
2,3,4,6-Tetrachlorotoluene	875-40-1	X		ppm	0.0002
Pentachlorotoluene	877-11-2	X		ppm	0.0002

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5 Chlorophenols:

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

Chlorophenols	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
2-Chlorophenol	95-57-8	X		ppm	0.0005
3-Chlorophenol	108-43-0	X		ppm	0.0005
4-Chlorophenol	106-48-9	X		ppm	0.0005
2,3-Dichlorophenol	576-24-9	X		ppm	0.0005
2,4-Dichlorophenol	120-83-2	X		ppm	0.0005
2,5-Dichlorophenol	583-78-8	X		ppm	0.0005
2,6-Dichlorophenol	87-65-0	X		ppm	0.0005
3,5- Dichlorophenol	591-35-5	X		ppm	0.0005
3,4-Dichlorophenol	95-77-2	X		ppm	0.0005
2,4,6-Trichlorophenol	88-06-2	X		ppm	0.0005
2,3,5-Trichlorophenol	933-78-8	X		ppm	0.0005
2,3,6-Trichlorophenol	933-75-5	X		ppm	0.0005
2,4,5-Trichlorophenol	95-95-4	X		ppm	0.0005
3,4,5-Trichlorophenol	609-19-8	X		ppm	0.0005
2,3,4-Trichlorophenol	15950-66-0	X		ppm	0.0005
2,3,4,5-Tetrachlorophenol	4901-51-3	X		ppm	0.0005
2,3,4,6-Tetrachlorophenol	58-90-2	X		ppm	0.0005
2,3,5,6-Tetrachlorophenol	935-95-5	X		ppm	0.0005
Pentachlorophenol (PCP)	87-86-5	X		ppm	0.0005

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6 Azo dyes:

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.

Azo Dyes	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	X		ppm	0.0001
4,4'-Diaminodiphenylmethane	101-77-9	X		ppm	0.0001
4,4'-Oxydianiline	101-80-4	X		ppm	0.0001
4-Chloroaniline	106-47-8	X		ppm	0.0001
3,3'-Dimethoxybenzidine	119-90-4	X		ppm	0.0001
3,3'-Dimethylbenzidine	119-93-7	X		ppm	0.0001
p-Cresidine	120-71-8	X		ppm	0.0001
2,4,5-Trimethylaniline	137-17-7	X		ppm	0.0001
4,4'-Thiodianiline	139-65-1	X		ppm	0.0001
4-Aminoazobenzene	60-09-3	X		ppm	0.0001
2,4-Diaminoanisole	615-05-4	X		ppm	0.0001
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	X		ppm	0.0001
2,6-Xylidine	87-62-7	X		ppm	0.0001
o-Anisidine	90-04-0	X		ppm	0.0001
2-Naphthylamine	91-59-8	X		ppm	0.0001
3,3'-Dichlorobenzidine	91-94-1	X		ppm	0.0001
4-Aminobiphenyl	92-67-1	X		ppm	0.0001
Benzidine	92-87-5	X		ppm	0.0001
o-Toluidine	95-53-4	X		ppm	0.0001
2,4-Xylidine	95-68-1	X		ppm	0.0001
4-Chloro-o-toluidine	95-69-2	X		ppm	0.0001
2,4-Diaminotoluene	95-80-7	X		ppm	0.0001
o-Aminoazotoluene	97-56-3	X		ppm	0.0001
5-Nitro-o-toluidine	99-55-8	X		ppm	0.0001
Aniline	62-53-3		0.0042	ppm	0.0001

Remark : Test Result For p-Aminoazobenzene (CAS no.: 60-09-3) Is Confirmed Based On EN 14362-3 method When Aniline And/Or 1,4-phenylenediamine Was Found.



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7 Carcinogenic dyes:

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

Carcinogenic dyes	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
C.I. Direct Black 38	1937-37-7	X		ppm	0.5
C.I. Direct Blue 6	2602-46-2	X		ppm	0.5
C.I. Acid Red 26	3761-53-3	X		ppm	0.5
C.I. Basic Red 9	569-61-9	X		ppm	0.5
C.I. Direct Red 28	573-58-0	X		ppm	0.5
C.I. Basic Violet 14	632-99-5	X		ppm	0.5
C.I. Disperse Blue 1	2475-45-8	X		ppm	0.5
C.I. Disperse Blue 3	2475-46-9	X		ppm	0.5
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	X		ppm	0.5
C.I. Basic Green 4 (malachite green chloride)	569-64-2	X		ppm	0.5
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	X		ppm	0.5
C.I. Basic Green 4 (malachite green)	10309-95-2	X		ppm	0.5
Disperse Orange 11	82-28-0	X		ppm	0.5

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8 Disperse dyes:

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

Disperse dyes	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
Disperse Yellow 1	119-15-3	X		ppm	0.05
Disperse Blue 102	12222-97-8	X		ppm	0.05
Disperse Blue 106	12223-01-7	X		ppm	0.05
Disperse Yellow 39	12236-29-2	X		ppm	0.05
Disperse Orange 37/59/76	13301-61-6	X		ppm	0.05
Disperse Brown 1	23355-64-8	X		ppm	0.05
Disperse Orange 1	2581-69-3	X		ppm	0.05
Disperse Yellow 3	2832-40-8	X		ppm	0.05
Disperse Red 11	2872-48-2	X		ppm	0.05
Disperse Red 1	2872-52-8	X		ppm	0.05
Disperse Red 17	3179-89-3	X		ppm	0.05
Disperse Blue 7	3179-90-6	X		ppm	0.05
Disperse Blue 26	3860-63-7	X		ppm	0.05
Disperse Yellow 49	54824-37-2	X		ppm	0.05
Disperse Blue 35	12222-75-2	X		ppm	0.05
Disperse Blue 124	61951-51-7	X		ppm	0.05
Disperse Yellow 9	6373-73-5	X		ppm	0.05
Disperse Orange 3	730-40-5	X		ppm	0.05
Disperse Blue 35	56524-77-7	X		ppm	0.05

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9 Brominated 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.

Brominated flame retardants	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
Decabromodiphenyl ether (DecaBDE)	1163-19-5	X		ppm	0.005
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	X		ppm	0.005
Octabromodiphenyl ether (OctaBDE)	32536-52-0	X		ppm	0.005
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	X		ppm	0.005
Polybromobiphenyls (PBBs)	Various	X		ppm	0.005
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	X		ppm	0.005
Polybromodiphenyl ethers (PBDEs)	Various	X		ppm	0.005
Tetrabromobisphenol A (TBBPA)	79-94-7	X		ppm	0.005
Bis(2,3-dibromopropyl) phosphate	5412-25-9	X		ppm	0.005
Hexabromocyclododecane (HBCDD)	3194-55-6	X		ppm	0.005
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	X		ppm	0.005

10 Chlorinated 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.

Chlorinated flame retardants	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	X		ppm	0.005
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	X		ppm	0.005

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11 Short chain chlorinated paraffins (SCCPs) (C10 – C13):

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.

Short chain chlorinated paraffins (SCCPs) (C10 – C13)	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
Short chain chlorinated paraffins (SCCPs)	85535-84-8	X		ppm	0.005

12 Glycols:

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

Glycols	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
Bis(2-methoxyethyl)-ether	111-96-6	X		ppm	0.05
2-ethoxyethanol	110-80-5	X		ppm	0.05
2-ethoxyethyl acetate	111-15-9	X		ppm	0.05
Ethylene glycol dimethyl ether	110-71-4	X		ppm	0.05
2-methoxyethanol	109-86-4	X		ppm	0.05
2-methoxyethylacetate	110-49-6	X		ppm	0.05
2-methoxypropylacetate	70657-70-4	X		ppm	0.05
Triethylene glycol dimethyl ether	112-49-2	X		ppm	0.05

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Tests Conducted (As Requested By The Applicant)

13 Chlorinated solvents:

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

Chlorinated solvents	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
1,2-Dichloroethane	107-06-2	X		ppm	0.001
Methylene chloride	75-09-2	X		ppm	0.001
Trichloroethene	79-01-6	X		ppm	0.001
Tetrachloroethene	127-18-4	X		ppm	0.001
1,1-Dichloroethylene	75-35-4	X		ppm	0.001
cis-1,2-Dichloroethylene	156-59-2	X		ppm	0.001
trans-1,2-Dichloroethylene	156-60-5	X		ppm	0.001
Chloroform	67-66-3	X		ppm	0.001
1,1,1-Trichloroethane	71-55-6	X		ppm	0.001
Carbon tetrachloride	56-23-5	X		ppm	0.001
1,1,2-Trichloroethane	79-00-5	X		ppm	0.001
1,1,1,2-Tetrachloroethane	630-20-6	X		ppm	0.001

14 Organotin compounds:

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

Organotin compounds	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
Mono-, di-and tri-octyltin derivatives	Various	X		ppm	0.00001
Dibutyltin (DBT)	Various	X		ppm	0.00001
Tricyclohexyltin (TCyHT)	Various	X		ppm	0.00001
Tripropyltin (TPT)	Various	X		ppm	0.00001
Mono-, di-and tri-methyltin derivatives	Various	X		ppm	0.00001
Mono-, di-and tri-butyltin derivatives	Various	X		ppm	0.00001
Mono-, di-and tri-phenyltin derivatives	Various	X		ppm	0.00001

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15 Phthalates:

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

Phthalates	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	X		ppm	0.01
Dimethoxyethyl phthalate (DMEP)	117-82-8	X		ppm	0.01
Di-n-octyl phthalate (DNOP)	117-84-0	X		ppm	0.01
Di-iso-decyl phthalate (DIDP)	26761-40-0/ 68515-49-1	X		ppm	0.01
Di-iso-nonyl phthalate (DINP)	28553-12-0/ 68515-48-0	X		ppm	0.01
Di-n-hexyl phthalate (DnHP)	84-75-3	X		ppm	0.01
Dibutyl phthalate (DBP)	84-74-2	X		ppm	0.01
Butyl benzyl phthalate (BBP)	85-68-7	X		ppm	0.01
Dinonyl phthalate (DNP)	84-76-4	X		ppm	0.01
Diethyl phthalate (DEP)	84-66-2	X		ppm	0.01
Di-n-propyl phthalate (DPRP)	131-16-8	X		ppm	0.01
Di-iso-butyl phthalate (DIBP)	84-69-5	X		ppm	0.01
Di-cyclohexyl phthalate (DCHP)	84-61-7	X		ppm	0.01
Di-iso-octyl phthalate (DIOP)	27554-26-3	X		ppm	0.01
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	X		ppm	0.01
1,2-benzenedicarboxylic acid, di-C6-11-branched alkyl esters, C7-rich (DIHP)	71888-89-6	X		ppm	0.01
Dimethyl phthalate (DMP)	131-11-3		0.43	ppm	0.01

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16 Perfluorinated 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.

Perfluorinated chemicals (PFCs)	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
Perfluoro-octane-sulfonic acid (PFOS)	432-50-7 1763-23-1 56773-72-3	X		ppm	0.00001
Perfluoro-hexane-sulfonic acid (PFHxS)	3871-99-6 355-46-41	X		ppm	0.00001
Perfluoro-octanoic acid (PFOA)	335-67-1		0.00008	ppm	0.00001
Perfluoro-butane-sulfonic acid (PFBS)	29420-43-3 29420-49-3 375-73-5	X		ppm	0.00001
Perfluoro-hexanoic acid (PFHxA)	307-24-4	X		ppm	0.00001
Perfluoro-heptane-sulfonate (PFHpS)	60270-55-5 375-92-8	X		ppm	0.00001
Perfluoro-decane-sulfonic acid (PFDS)	126105-34-8 335-77-3	X		ppm	0.00001
Perfluoro-octane-sulfon-amide (PFOSA)	754-91-6	X		ppm	0.00001
Perfluoro-butanoic acid (PFBA)	375-22-4	X		ppm	0.00001
Perfluoro-pentanoic acid (PFPeA)	2706-90-3	X		ppm	0.00001
Perfluoro-heptanoic acid (PFHpA)	375-85-9	X		ppm	0.00001
Perfluoro-nonanoic acid (PFNA)	375-95-1	X		ppm	0.00001
Perfluoro-undecanoic acid (PFUdA)	4234-23-5 2058-94-8	X		ppm	0.00001
Perfluoro-dodecanoic acid (PFDoA)	307-55-1	X		ppm	0.00001
Perfluoro-tridecanoic acid (PFTrDA)	72629-94-8	X		ppm	0.00001
Perfluoro-tetradecanoic acid (PFTeDA)	376-06-7	X		ppm	0.00001
Perfluoro-3-7-dimethyl octane carboxylate (PF-3,7-DMOA)	172155-07-6	X		ppm	0.00001
7H-Dodecafluoro heptane carboxylate (HPFHpA)	1546-95-8	X		ppm	0.00001

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Perfluorinated chemicals (PFCs)	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
2H,2H,-Perfluorodecanoic acid (H2PFDA)	-	X		ppm	0.00001
2H,2H,3H,3H-Perfluoro-undecanoic acid (4HPFUnA)	34598-33-9	X		ppm	0.00001
1H,1H,2H,2H-Perfluorooctyl acrylate (6:2 FTA)	17527-29-6	X		ppm	0.0001
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	X		ppm	0.0001
1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)	17741-60-5	X		ppm	0.0001
1H,1H,2H,2H-Perfluorohexanol (4:2 FTOH)	2043-47-2	X		ppm	0.001
1H,1H,2H,2H-Perfluorooctanol (6:2 FTOH)	647-42-7	X		ppm	0.001
1H,1H,2H,2H-Perfluorodecanol (8:2 FTOH)	678-39-7	X		ppm	0.001
1H,1H,2H,2H-Perfluorododecanol (10:2 FTOH)	865-86-1	X		ppm	0.001
N-Methyl-perfluoro-octane-sulfon-amido-ethanol (N-Me-FOSE alcohol)	24448-09-7	X		ppm	0.00001
N-Ethyl-Perfluoro-octane-sulfon-amido-ethanol (N-Et-FOSE alcohol)	1691-99-2	X		ppm	0.00001
N-Methyl-perfluoro-octane-sulfon-amide (N-Me-FOSA)	31506-32-8	X		ppm	0.00001
N-Ethyl-perfluoro-octane-sulfon-amide (N-Et-FOSA)	4151-50-2	X		ppm	0.00001
Perfluoro-decanoic acid (PFDA)	335-76-2	X		ppm	0.00001



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17 Polycyclic aromatic hydrocarbons (PAHs):

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

Polycyclic aromatic hydrocarbons (PAHs)	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
Benzo(a)pyrene (BaP)	50-32-8	X		ppm	0.001
Anthracene	120-12-7	X		ppm	0.001
Pyrene	129-00-0	X		ppm	0.001
Benzo(ghi)perylene	191-24-2	X		ppm	0.001
Benzo(e)pyrene	192-97-2	X		ppm	0.001
Indeno (1,2,3-cd)pyrene	193-39-5	X		ppm	0.001
Benzo(j)fluoranthene	205-82-3	X		ppm	0.001
Benzo(b)fluoranthene	205-99-2	X		ppm	0.001
Fluoranthene	206-44-0	X		ppm	0.001
Benzo(k)fluoranthene	207-08-09	X		ppm	0.001
Acenaphthylene	208-96-8	X		ppm	0.001
Chrysene	218-01-9	X		ppm	0.001
Dibenz(a,h)anthracene	53-70-3	X		ppm	0.001
Benzo(a)anthracene	56-55-3	X		ppm	0.001
Acenaphthene	83-32-9	X		ppm	0.001
Phenanthrene	85-01-8	X		ppm	0.001
Fluorene	86-73-7	X		ppm	0.001
Naphthalene	91-20-3	X		ppm	0.001

18 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.

Volatile organic compounds (VOCs)	CAS no.	Result Sample 1 (Before treatment)		Unit	Reporting limit
		No detection	Detected value		
Benzene	71-43-2	X		ppm	0.001
Xylene	1330-20-7	X		ppm	0.001
o-cresol	95-48-7	X		ppm	0.001
p-cresol	106-44-5	X		ppm	0.001
m-cresol	108-39-4	X		ppm	0.001

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Factory Entrance



Photo of ETP



Photo of Before Treatment Area



Photo of After Treatment Area

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Photo of Sampling Point (Before Treatment)



Photo of Sampling Point (After Treatment)



Photo of Sample (Before Treatment)



Photo of Sample (After Treatment)

End of Report

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