

Test Report

Number: SHAH01066193

Date: Mar 13, 2019

Application no. :

Factory:

Factory's name:

Address:

Wastewater treatment plant:

Off-site WWTP address:

WUJIANG YUNSHENG DYEING & WEAVING CO., LTD.

NO.9 PINGSHENG ROAD, PINGWANG TOWN, WUJIANG, SUZHOU, JIANGSU, CHINA

On-site WWTP

N/A

Sample description:

Date of sampling:

Mar 01, 2019

Sample type:

Sample / Wastewater

[Wastewater after treatment, light brown liquid, composite sample at 13:50;14:50;15:50;16:50.]

Sample / Sludge

[Grey, grab sample at 14:10.]

Date received/Date test started:

Mar 04, 2019

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Summary of test results:

Test items	Result
Wastewater - Phthalates (Ortho-phthalates)	ND
Wastewater - Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	ND
Wastewater - Perfluorinated chemicals (PFCs)	ND
Wastewater - Brominated and chlorinated flame retardants / subgroup - Other flame retardants	D
Wastewater - Azo dyes / subgroup - Carcinogenic dyes / subgroup -Allergenic Disperse dyes	ND
Wastewater - Organotin compounds	ND
Wastewater - Chlorinated benzenes / subgroup - Chlorinated toluenes	ND
Wastewater - Chlorinated solvents / subgroup - other VOCs	ND
Wastewater - Chlorophenols	ND
Wastewater - Short-chained chlorinated paraffins (SCCPs)	ND
Wastewater - Heavy metals	D

Authorized By:

For Intertek Testing Services Ltd., Shanghai

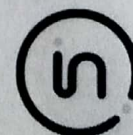
Peter Li

Peter Li

Environmental Laboratory Manager

李玉林
2019.3.19

王平副



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Test items	Result
Sludge - Phthalates (Ortho-phthalates)	ND
Sludge - Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	ND
Sludge - Perfluorinated chemicals (PFCs)	ND
Sludge - Brominated and chlorinated flame retardants / subgroup – Other flame retardants	D
Sludge - Azo dyes / subgroup – Carcinogenic dyes / subgroup – Disperse dyes	ND
Sludge - Organotin compounds	ND
Sludge - Chlorinated benzenes / subgroup - Chlorinated toluenes	ND
Sludge - Chlorinated solvents / subgroup – other VOCs	ND
Sludge - Chlorophenols	ND
Sludge - Short-chained chlorinated paraffins (SCCPs)	ND
Sludge - Heavy metals	D

Note: ND = Not detected
D = Detected
= No comment

N/A = Not applicable
- = Did not perform
* = See remark

Authorized By:
For Intertek Testing Services Ltd., Shanghai



Peter Li
Environmental Laboratory Manager



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Tests Conducted

Sample / Wastewater

1. Phthalates (ortho-phthalates)

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

Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
Di(2-ethyl hexyl) phthalate (DEHP)	117-81-7	1 µg/L	ND
Benzyl butyl phthalate (BBP)	85-68-7	1 µg/L	ND
Di-butyl phthalate (DBP)	84-74-2	1 µg/L	ND
Di-n-octyl phthalate (DNOP)	117-84-0	1 µg/L	ND
Di-isononyl phthalate (DINP)	28553-12-0	1 µg/L	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0	1 µg/L	ND
Di-isobutyl phthalate (DIBP)	84-69-5	1 µg/L	ND
Di-n-hexyl phthalate (DNHP)	84-75-3	1 µg/L	ND
Di-(2-methoxy ethyl) phthalate (DMEP)	117-82-8	1 µg/L	ND
DHNUP	68515-42-4	1 µg/L	ND
DIHP	71888-89-6	1 µg/L	ND
DPP	131-18-0	1 µg/L	ND

Remark: ND = Not detected

2. 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.	Detection limit	Wastewater (µg/L)
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	1 µg/L	ND
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	1 µg/L	ND
Nonylphenol ethoxylates (NPEO) 1-2	Various	5 µg/L	ND
Nonylphenol ethoxylates (NPEO) 3-18	Various	5 µg/L	ND
Octylphenol ethoxylates (OPEO) 1-2	Various	5 µg/L	ND
Octylphenol ethoxylates (OPEO) 3-18	Various	5 µg/L	ND

Remark: ND = Not detected

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3. 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.

Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
PFOA	335-67-1	0.01 µg/L	ND
PFHxA	307-24-4	0.01 µg/L	ND
PFHxS	355-46-4	0.01 µg/L	ND
PFBA	375-22-4	0.01 µg/L	ND
PFBS	375-73-5 / 59933-66-3	0.01 µg/L	ND
PFNA	375-95-1	0.01 µg/L	ND
PFPeA	2706-90-3	0.01 µg/L	ND
PFHpA	375-85-9	0.01 µg/L	ND
PFDA	335-76-2	0.01 µg/L	ND
PFUnA	2058-94-8	0.01 µg/L	ND
PFDoA	307-55-1	0.01 µg/L	ND
PFTTrA	72629-94-8	0.01 µg/L	ND
PfteA	376-06-7	0.01 µg/L	ND
PFHpS	375-92-8	0.01 µg/L	ND
PFDS	335-77-3	0.01 µg/L	ND
PF-3,7-DMOA	172155-07-6	0.01 µg/L	ND
HPFHpA	1546-95-8	0.01 µg/L	ND
4HPFUnA	34598-33-9	0.01 µg/L	ND
1H, 1H, 2H, 2H-PFOS	27619-97-2	0.01 µg/L	ND
PFOS	1763-23-1	0.01 µg/L	ND
POSF	307-35-7	0.01 µg/L	ND
PFOSA	754-91-6	0.01 µg/L	ND
N-Me-FOSA	31506-32-8	0.1 µg/L	ND
N-Et-FOSA	4151-50-2	0.1 µg/L	ND
N-Me-FOSE alcohol	24448-09-7	0.1 µg/L	ND
N-Et-FOSE alcohol	1691-99-2	0.1 µg/L	ND

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Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
4:2 FTOH	2043-47-2	0.1 µg/L	ND
6:2 FTOH	647-42-7	0.1 µg/L	ND
8:2 FTOH	678-39-7	0.1 µg/L	ND
10:2 FTOH	865-86-1	0.1 µg/L	ND
6:2 FTA	17527-29-6	0.1 µg/L	ND
8:2 FTA	27905-45-9	0.1 µg/L	ND
10:2 FTA	17741-60-5	0.1 µg/L	ND

Remark: ND = Not detected

4. Brominated and 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.

Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
Poly brominated biphenyls (PBBs)	59536-65-1 Various	0.05 µg/L	ND
Monobromo biphenyls (MonoBB)	-	0.05 µg/L	ND
Dibromo biphenyls (DiBB)	-	0.05 µg/L	ND
Tribromo biphenyls (TriBB)	-	0.05 µg/L	ND
Tetrabromo biphenyls (TetraBB)	-	0.05 µg/L	ND
Pentabromo biphenyls (PentaBB)	-	0.05 µg/L	ND
Hexabromo biphenyls (HexaBB)	-	0.05 µg/L	ND
Heptabromo biphenyls (HeptaBB)	-	0.05 µg/L	ND
Octabromo biphenyls (OctaBB)	-	0.05 µg/L	ND
Nonabromo biphenyls (NonaBB)	-	0.05 µg/L	ND
Decabromo biphenyls (DecaBB)	13654-09-6	0.05 µg/L	ND
Poly brominated diphenyl ethers (PBDEs)	Various	0.05 µg/L	ND
Monobromo diphenyl ethers (MonoBDE)	-	0.05 µg/L	ND
Dibromo diphenyl ethers (DiBDE)	-	0.05 µg/L	ND
Tribromo diphenyl ethers (TriBDE)	-	0.05 µg/L	ND
Tetrabromo diphenyl ethers (TetraBDE)	40088-47-9	0.05 µg/L	ND
Pentabromo diphenyl ethers (PentaBDE)	32534-81-9	0.05 µg/L	ND
Hexabromo diphenyl ethers (HexaBDE)	36483-60-0	0.05 µg/L	ND
Heptabromo diphenyl ethers (HeptaBDE)	68928-80-3	0.05 µg/L	ND
Octabromo diphenyl ethers (OctaBDE)	32536-52-0	0.05 µg/L	ND

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Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
Nonabromo diphenyl ethers (NonaBDE)	63936-56-1	0.05 µg/L	ND
Decabromo diphenyl ether (DecaBDE)	1163-19-5	0.05 µg/L	ND
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	0.5 µg/L	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	0.5 µg/L	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	0.05 µg/L	ND
Hexabromocyclododecane (HBCDD)	134237-50-6, 134237-51-7, 134237-52-8, 25637-99-4, 3194-55-6	0.5 µg/L	ND

Remark: ND = Not detected

4.1 Subgroup: Other Flame Retardants

Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
TEPA	545-55-1	0.5 µg/L	ND
Bis(2,3-dibromopropyl) phosphate	5412-25-9	0.5 µg/L	ND
Sodium tetraborate	1303-96-4, 1330-43-4, 12179-04-3, 215-540-4	10 µg/L in boron	201
Boron trioxide	1303-86-2	10 µg/L in boron	138
Boric acid	10043-35-3, 11113-50-1	10 µg/L in boron	246
Antimony trioxide	1309-64-4	0.5 µg/L in antimony	1.2
Tri-o-cresyl phosphate	78-30-8	0.5 µg/L	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	0.5 µg/L	ND

Remark: ND = Not detected



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5. Amines (associated with Azo dyes / colorants)

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.	Detection limit	Wastewater (µg/L)
2,4,5-Trimethylaniline	137-17-7	0.1 µg/L	ND
2,4-Diaminoanisole	615-05-4	0.1 µg/L	ND
2,4-Toluylenediamine	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
3,3'-Dimethoxybenzidine	119-90-4	0.1 µg/L	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.1 µg/L	ND
3,3'-Dimethylbenzidine	119-93-7	0.1 µg/L	ND
4,4'-Diaminodiphenylmethane	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
p-Chloroaniline	106-47-8	0.1 µg/L	ND
4-Chloro-o-toluidine	95-69-2	0.1 µg/L	ND
2-Amino-4-Nitrotoluene	99-55-8	0.1 µg/L	ND
p-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	120-71-8	0.1 µg/L	ND

Remark: ND = Not detected

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5.1 Subgroup: Carcinogenic dyes

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

Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
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. Basic Violet 14	632-99-5	500 µg/L	ND
C.I Direct Blue 6	2602-46-2	500 µg/L	ND
C.I Direct Red 28	573-58-0	500 µg/L	ND
C.I Direct Black 38	1937-37-7	500 µg/L	ND
C.I Disperse Blue 1	2475-45-8	500 µg/L	ND
C.I. Disperse Yellow 3	2832-40-8	500 µg/L	ND
C.I. Disperse Orange 11	82-28-0	500 µg/L	ND
C.I. Disperse Yellow 23	6250-23-3	50 µg/L	ND
C.I. Disperse Orange 149	85136-74-9	50 µg/L	ND
C.I. Solvent Yellow 1	60-09-3	500 µg/L	ND
C.I. Solvent Yellow 3	97-56-3	500 µg/L	ND
C.I. Solvent Yellow 14	842-07-9	500 µg/L	ND
C.I. Basic Blue 26	2580-56-5	500 µg/L	ND
C.I. Basic Violet 1	8004-87-3	500 µg/L	ND
C.I. Direct Brown 95	16071-86-6	500 µg/L	ND
C.I. Direct Blue 15	2429-74-5	500 µg/L	ND
C.I. Direct Blue 218	28407-37-6	500 µg/L	ND
C.I Acid Red 114	6459-94-5	500 µg/L	ND
C.I Acid Violet 49	1694-09-3	500 µg/L	ND

Remark: ND = Not detected

5.2 Subgroup: Allergenic Disperse Dyes

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

Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
C.I. Disperse Blue 1	2475-45-8	50 µg/L	ND
C.I. Disperse Blue 3	2475-46-9	50 µg/L	ND
C.I. Disperse Blue 7	3179-90-6	50 µg/L	ND
C.I. Disperse Blue 26	3860-63-7	50 µg/L	ND

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

Remark: ND = Not detected

6. Organotin compounds

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

Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
Monobutyltin (MBT)	1118-46-3	0.01 µg/L	ND
Dibutyltin (DBT)	1002-53-5	0.01 µg/L	ND
Tributyltin (TBT)	56573-85-4	0.01 µg/L	ND
Tetrabutyltin (TeBT)	1461-25-2	0.01 µg/L	ND
Monooctyltin (MOT)	15231-44-4	0.01 µg/L	ND
Diocetyl tin (DOT)	94410-05-6	0.01 µg/L	ND
Triphenyltin (TPhT)	892-20-6	0.01 µg/L	ND
Tricyclohexyltin (TCyHT)	6056-50-4	0.01 µg/L	ND
Tripropyltin (TPT)	668-34-8	0.01 µg/L	ND
Diphenyltin (DPhT)	1011-95-6	0.01 µg/L	ND
Tetraethyltin (TeET)	597-64-8	0.01 µg/L	ND

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Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
Tetrabutyltin oxide (TBTO)	56-35-9	0.01 in TBT	ND
Dibutyltin chloride (DBTC)	683-18-1	0.01 in TBT	ND
Dibutyltin hydrogen borate (DBB)	75113-37-0	0.01 in TBT	ND

Remark: ND = Not detected

7. Chlorinated benzenes

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

Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
Dichlorobenzenes	Various	0.02 µg/L	ND
1,2-Dichlorobenzene	95-50-1	0.02 µg/L	ND
1,3-Dichlorobenzene	541-73-1	0.02 µg/L	ND
1,4-Dichlorobenzene	106-46-7	0.02 µg/L	ND
Trichlorobenzenes	Various	0.02 µg/L	ND
1,2,4-Trichlorobenzene	120-82-1	0.02 µg/L	ND
1,2,3-Trichlorobenzene	87-61-6	0.02 µg/L	ND
1,3,5-Trichlorobenzene	108-70-3	0.02 µg/L	ND
Tetrachlorobenzene	12408-10-5	0.02 µg/L	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	0.02 µg/L	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	0.02 µg/L	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	0.02 µg/L	ND
Pentachlorobenzene	608-93-5	0.02 µg/L	ND
Hexachlorobenzene	118-74-1	0.02 µg/L	ND

Remark: ND = Not detected

7.1 Chlorinated toluenes

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

Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
2-chlorotoluene	95-49-8	0.02 µg/L	ND
3-chlorotoluene	108-41-8	0.02 µg/L	ND
4-chlorotoluene	106-43-4	0.02 µg/L	ND
2,3-dichlorotoluene	32768-54-0	0.02 µg/L	ND
2,4-dichlorotoluene	95-73-8	0.02 µg/L	ND

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Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
2,5-dichlorotoluene	19398-61-9	0.02 µg/L	ND
2,6-dichlorotoluene	118-69-4	0.02 µg/L	ND
3,4-dichlorotoluene	95-75-0	0.02 µg/L	ND
2,3,6-trichlorotoluene	2077-46-5	0.02 µg/L	ND
2,4,5-trichlorotoluene	6639-30-1	0.02 µg/L	ND
Benzotrachloride	98-07-7	0.1 µg/L	ND
alpha, 2,4-trichlorotoluene	94-99-5	0.1 µg/L	ND
alpha, 2,6-trichlorotoluene	2014-83-7	0.1 µg/L	ND
alpha, 3,4-trichlorotoluene	102-47-6	0.1 µg/L	ND
alpha, alpha, 2,6-tetrachlorotoluene	81-19-6	0.1 µg/L	ND
alpha, alpha, alpha, 2,-tetrachlorotoluene	2136-89-2	0.1 µg/L	ND
alpha, alpha, alpha, 4-tetrachlorotoluene	5216-25-1	0.1 µg/L	ND
2,3,4,5,6-pentachlorotoluene	877-11-2	0.02 µg/L	ND

Remark: ND = Not detected

8. Chlorinated solvents

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

Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
Tetrachloromethane	56-23-5	1 µg/L	ND
Chloroform	67-66-3	1 µg/L	ND
1,1-Dichloroethane	75-34-3	1 µg/L	ND
1,2-Dichloroethane	107-06-2	1 µg/L	ND
1,1-Dichloroethene	75-35-4	1 µg/L	ND
Dichloromethane	75-09-2	1 µg/L	ND
1,1,2,2-Tetrachloroethane	79-34-5	1 µg/L	ND
Perchloroethylene	127-18-4	1 µg/L	ND
1,1,1-Trichloroethane	71-55-6	1 µg/L	ND
Trichloroethylene	79-01-6	1 µg/L	ND
1,1,1,2-Tetrachloroethane	630-20-6	1 µg/L	ND
1,1,2-Trichloroethane	79-00-5	1 µg/L	ND
Pentachloroethane	76-01-7	1 µg/L	ND

Remark: ND = Not detected



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8.1 Other 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.	Detection limit	Wastewater (µg/L)
Xylene	1330-20-7	1 µg/L	ND
2-ethoxy ethyl acetate	111-15-9	50 µg/L	ND
Acetophenone	98-86-2	10 µg/L	ND
2-phenyl-2-propanol	617-94-7	10 µg/L	ND
Bis-(2-methoxy ethyl) ether	111-96-6	50 µg/L	ND
N,N-dimethyl acetamide	127-19-5	10 µg/L	ND
Benzene	71-43-2	1 µg/L	ND
Toluene	108-88-3	1 µg/L	ND
N,N-dimethyl formamide	68-12-2	10 µg/L	ND

Remark: ND = Not detected

9. Chlorophenols

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

Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
2,4-Dichlorophenol	120-83-2	0.5 µg/L	ND
2,5-Dichlorophenol	583-78-8	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
Tetrachlorophenols (TeCP)	25167-83-3	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

To be continued



Test Report

Number: SHAH01066193S1

Tests Conducted

Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
Trichlorophenol (TriCP)	25167-82-2	0.5 µg/L	ND
2,3,6-Trichlorophenol	933-75-5	0.5 µg/L	ND
Dichlorophenols (DiCP)	25167-81-1	0.5 µg/L	ND
Mono Chlorophenol	Various	0.5 µg/L	ND

Remark: ND = Not detected

10. Short-chained chlorinated paraffins (SCCPs)

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.	Detection limit	Wastewater (µg/L)
Short chain chlorinated paraffins (SCCPs)	85535-84-8	0.4 µg/L	ND

Remarks: ND = Not detected

11. 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, ISO 6703-1,2, ISO 14403-1,2, US EPA 335.2, APHA 4500 and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS) and Ultraviolet Spectrophotometer(UV) analysis.

Chemical substances	CAS no.	Detection limit	Wastewater (µg/L)
Lead, Pb	7439-92-1	1 µg/L	3
Cadmium, Cd	7440-43-9	0.1 µg/L	ND
Mercury, Hg	7439-97-6	0.05 µg/L	ND
Antimony, Sb	7440-36-0	1 µg/L	1
Arsenic, As	7440-38-2	1 µg/L	3
Chromium, Cr (total)	7440-47-3	1 µg/L	4
Cobalt, Co	7440-48-4	1 µg/L	ND
Copper, Cu	7440-50-8	1 µg/L	3
Nickel, Ni	7440-02-0	1 µg/L	2
Zinc, Zn	7440-66-6	1 µg/L	58
Total Manganese	7439-96-5	1 µg/L	4
Hexavalent Chromium(Cr-VI)	18540-29-9	1 µg/L	ND

Remark: ND = Not detected



Test Report

Number: SHAH01066193S1

Tests Conducted

Sample / Sludge

1. Phthalates (ortho-phthalates)

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

Chemical substances	CAS no.	Detection limit	Sludge (mg/kg)
Di(2-ethyl hexyl) phthalate (DEHP)	117-81-7	0.3 mg/kg	ND
Benzyl butyl phthalate (BBP)	85-68-7	0.3 mg/kg	ND
Di-butyl phthalate (DBP)	84-74-2	0.3 mg/kg	ND
Di-n-octyl phthalate (DNOP)	117-84-0	0.3 mg/kg	ND
Di-isononyl phthalate (DINP)	28553-12-0	0.3 mg/kg	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0	0.3 mg/kg	ND
Di-isobutyl phthalate (DIBP)	84-69-5	0.3 mg/kg	ND
Di-n-hexyl phthalate (DNHP)	84-75-3	0.3 mg/kg	ND
Di-(2-methoxy ethyl) phthalate (DMEP)	117-82-8	0.3 mg/kg	ND
DHNUP	68515-42-4	0.3 mg/kg	ND
DIHP	71888-89-6	0.3 mg/kg	ND
DPP	131-18-0	0.3 mg/kg	ND

Remark: ND = Not detected

2. Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)

With reference to 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.	Detection limit	Sludge (mg/kg)
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	0.2 mg/kg	ND
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	0.2 mg/kg	ND
Nonylphenol ethoxylates (NPEO) 1-2	Various	0.2 mg/kg	ND
Nonylphenol ethoxylates (NPEO) 3-18	Various	0.2 mg/kg	ND
Octylphenol ethoxylates (OPEO) 1-2	Various	0.2 mg/kg	ND
Octylphenol ethoxylates (OPEO) 3-18	Various	0.2 mg/kg	ND

Remark: ND = Not detected



Test Report

Number: SHAH01066193S1

Tests Conducted

3. 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.

Chemical substances	CAS no.	Detection limit	Sludge (mg/kg)
PFOA	335-67-1	0.02 mg/kg	ND
PFHxA	307-24-4	0.02 mg/kg	ND
PFHxS	355-46-4	0.02 mg/kg	ND
PFBA	375-22-4	0.02 mg/kg	ND
PFBS	375-73-5 / 59933-66-3	0.02 mg/kg	ND
PFNA	375-95-1	0.02 mg/kg	ND
PFPeA	2706-90-3	0.02 mg/kg	ND
PFHpA	375-85-9	0.02 mg/kg	ND
PFDA	335-76-2	0.02 mg/kg	ND
PFUnA	2058-94-8	0.02 mg/kg	ND
PFDoA	307-55-1	0.02 mg/kg	ND
PFTTrA	72629-94-8	0.02 mg/kg	ND
PfteA	376-06-7	0.02 mg/kg	ND
PFHpS	375-92-8	0.02 mg/kg	ND
PFDS	335-77-3	0.02 mg/kg	ND
PF-3,7-DMOA	172155-07-6	0.02 mg/kg	ND
HPFHpA	1546-95-8	0.02 mg/kg	ND
4HPFUnA	34598-33-9	0.02 mg/kg	ND
1H, 1H, 2H, 2H-PFOS	27619-97-2	0.02 mg/kg	ND
PFOS	1763-23-1	0.02 mg/kg	ND
POSF	307-35-7	0.02 mg/kg	ND
PFOSA	754-91-6	0.02 mg/kg	ND
N-Me-FOSA	31506-32-8	0.02 mg/kg	ND
N-Et-FOSA	4151-50-2	0.02 mg/kg	ND
N-Me-FOSE alcohol	24448-09-7	0.02 mg/kg	ND
N-Et-FOSE alcohol	1691-99-2	0.02 mg/kg	ND
4:2 FTOH	2043-47-2	0.5 mg/kg	ND

To be continued



Test Report

Number: SHAH01066193S1

Tests Conducted

Chemical substances	CAS no.	Detection limit	Sludge (mg/kg)
6:2 FTOH	647-42-7	0.5 mg/kg	ND
8:2 FTOH	678-39-7	0.5 mg/kg	ND
10:2 FTOH	865-86-1	0.5 mg/kg	ND
6:2 FTA	17527-29-6	0.5 mg/kg	ND
8:2 FTA	27905-45-9	0.5 mg/kg	ND
10:2 FTA	17741-60-5	0.5 mg/kg	ND

Remark: ND = Not detected

4. Brominated and chlorinated flame retardants

With reference to US EPA 8270, ISO 22032, US EPA 527, US 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.	Detection limit	Sludge (mg/kg)
Poly brominated biphenyls (PBBs)	59536-65-1 Various	0.3 mg/kg	ND
Monobromo biphenyls (MonoBB)	-	0.3 mg/kg	ND
Dibromo biphenyls (DiBB)	-	0.3 mg/kg	ND
Tribromo biphenyls (TriBB)	-	0.3 mg/kg	ND
Tetrabromo biphenyls (TetraBB)	-	0.3 mg/kg	ND
Pentabromo biphenyls (PentaBB)	-	0.3 mg/kg	ND
Hexabromo biphenyls (HexaBB)	-	0.3 mg/kg	ND
Heptabromo biphenyls (HeptaBB)	-	0.3 mg/kg	ND
Octabromo biphenyls (OctaBB)	-	0.3 mg/kg	ND
Nonabromo biphenyls (NonaBB)	-	0.3 mg/kg	ND
Decabromo biphenyls (DecaBB)	13654-09-6	0.3 mg/kg	ND
Poly brominated diphenyl ethers (PBDEs)	Various	0.3 mg/kg	ND
Monobromo diphenyl ethers (MonoBDE)	-	0.3 mg/kg	ND
Dibromo diphenyl ethers (DiBDE)	-	0.3 mg/kg	ND
Tribromo diphenyl ethers (TriBDE)	-	0.3 mg/kg	ND
Tetrabromo diphenyl ethers (TetraBDE)	40088-47-9	0.3 mg/kg	ND
Pentabromo diphenyl ethers (PentaBDE)	32534-81-9	0.3 mg/kg	ND
Hexabromo diphenyl ethers (HexaBDE)	36483-60-0	0.3 mg/kg	ND
Heptabromo diphenyl ethers (HeptaBDE)	68928-80-3	0.3 mg/kg	ND
Octabromo diphenyl ethers (OctaBDE)	32536-52-0	0.3 mg/kg	ND

To be continued



Test Report

Number: SHAH01066193S1

Tests Conducted

Chemical substances	CAS no.	Detection limit	Sludge (mg/kg)
Nonabromo diphenyl ethers (NonaBDE)	63936-56-1	0.3 mg/kg	ND
Decabromo diphenyl ether (DecaBDE)	1163-19-5	0.3 mg/kg	ND
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	0.25 mg/kg	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	0.25 mg/kg	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	0.25 mg/kg	ND
Hexabromocyclododecane (HBCDD)	134237-50-6, 134237-51-7, 134237-52-8, 25637-99-4, 3194-55-6	0.25 mg/kg	ND

Remark: ND = Not detected

4.1 Subgroup: Other Flame Retardants

Chemical substances	CAS no.	Detection limit	Sludge (mg/kg)
TEPA	545-55-1	1 mg/kg	ND
Bis(2,3-dibromopropyl) phosphate	5412-25-9	1 mg/kg	ND
Sodium tetraborate	1303-96-4, 1330-43-4, 12179-04-3, 215-540-4	1 mg/kg in Boron	126
Boron trioxide	1303-86-2	1 mg/kg in Boron	87
Boric acid	10043-35-3, 11113-50-1	1 mg/kg in Boron	154
Antimony trioxide	1309-64-4	1 mg/kg in Antimony	5
Tri-o-cresyl phosphate	78-30-8	1 mg/kg	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	1 mg/kg	ND

Remark: ND = Not detected



Test Report

Number: SHAH01066193S1

Tests Conducted

5. Amines (associated with Azo dyes/ colorants)

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.	Detection limit	Sludge (mg/kg)
2,4,5-Trimethylaniline	137-17-7	0.1 mg/kg	ND
2,4-Diaminoanisole	615-05-4	0.1 mg/kg	ND
2,4-Toluylenediamine	95-80-7	0.1 mg/kg	ND
2,4-Xylidine	95-68-1	0.1 mg/kg	ND
2,6-Xylidine	87-62-7	0.1 mg/kg	ND
2-Naphthylamine	91-59-8	0.1 mg/kg	ND
3,3'-Dichlorobenzidine	91-94-1	0.1 mg/kg	ND
3,3'-Dimethoxybenzidine	119-90-4	0.1 mg/kg	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.1 mg/kg	ND
3,3'-Dimethylbenzidine	119-93-7	0.1 mg/kg	ND
4,4'-Diaminodiphenylmethane	101-77-9	0.1 mg/kg	ND
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1 mg/kg	ND
4,4'-Oxydianiline	101-80-4	0.1 mg/kg	ND
4,4'-Thiodianiline	139-65-1	0.1 mg/kg	ND
4-Aminobiphenyl	92-67-1	0.1 mg/kg	ND
p-Chloroaniline	106-47-8	0.1 mg/kg	ND
4-Chloro-o-toluidine	95-69-2	0.1 mg/kg	ND
2-Amino-4-Nitrotoluene	99-55-8	0.1 mg/kg	ND
p-Aminoazobenzene	60-09-3	0.1 mg/kg	ND
Benzidine	92-87-5	0.1 mg/kg	ND
o-Aminoazotoluene	97-56-3	0.1 mg/kg	ND
o-Anisidine	90-04-0	0.1 mg/kg	ND
o-Toluidine	95-53-4	0.1 mg/kg	ND
p-Cresidine	120-71-8	0.1 mg/kg	ND

Remark: ND = Not detected



Test Report

Number: SHAH01066193S1

Tests Conducted

5.1 Subgroup: Carcinogenic dyes

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

Chemical substances	CAS no.	Detection limit	Sludge (mg/kg)
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. Basic Violet 14	632-99-5	10 mg/kg	ND
C.I. Direct Blue 6	2602-46-2	10 mg/kg	ND
C.I. Direct Red 28	573-58-0	10 mg/kg	ND
C.I. Direct Black 38	1937-37-7	10 mg/kg	ND
C.I. Disperse Blue 1	2475-45-8	10 mg/kg	ND
C.I. Disperse Yellow 3	2832-40-8	10 mg/kg	ND
C.I. Disperse Orange 11	82-28-0	10 mg/kg	ND
C.I. Disperse Yellow 23	6250-23-3	10 mg/kg	ND
C.I. Disperse Orange 149	85136-74-9	10 mg/kg	ND
C.I. Solvent Yellow 1	60-09-3	10 mg/kg	ND
C.I. Solvent Yellow 3	97-56-3	10 mg/kg	ND
C.I. Solvent Yellow 14	842-07-9	10 mg/kg	ND
C.I. Basic Blue 26	2580-56-5	10 mg/kg	ND
C.I. Basic Violet 1	8004-87-3	10 mg/kg	ND
C.I. Direct Brown 95	16071-86-6	10 mg/kg	ND
C.I. Direct Blue 15	2429-74-5	10 mg/kg	ND
C.I. Direct Blue 218	28407-37-6	10 mg/kg	ND
C.I. Acid Red 114	6459-94-5	10 mg/kg	ND
C.I. Acid Violet 49	1694-09-3	10 mg/kg	ND

Remark: ND = Not detected

5.2 Subgroup: Allergenic Disperse Dyes

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

Chemical substances	CAS no.	Detection limit	Sludge (mg/kg)
C.I. Disperse Blue 1	2475-45-8	1 mg/kg	ND
C.I. Disperse Blue 3	2475-46-9	1 mg/kg	ND

To be continued

Test Report

Number: SHAH01066193S1

Tests Conducted

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

Remark: ND = Not detected

6. Organotin compounds

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

Chemical substances	CAS no.	Detection limit	Sludge (mg/kg)
Monobutyltin (MBT)	1118-46-3	0.01 mg/kg	ND
Dibutyltin (DBT)	1002-53-5	0.01 mg/kg	ND
Tributyltin (TBT)	56573-85-4	0.01 mg/kg	ND
Tetrabutyltin (TeBT)	1461-25-2	0.01 mg/kg	ND
Monooctyltin (MOT)	15231-44-4	0.01 mg/kg	ND
Dioctyltin (DOT)	94410-05-6	0.01 mg/kg	ND
Triphenyltin (TPhT)	892-20-6	0.01 mg/kg	ND
Tricyclohexyltin (TCyHT)	6056-50-4	0.01 mg/kg	ND
Tripropyltin (TPT)	668-34-8	0.01 mg/kg	ND

To be continued



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Number: SHAH01066193S1

Tests Conducted

Chemical substances	CAS no.	Detection limit	Sludge (mg/kg)
Diphenyltin (DPhT)	1011-95-6	0.01 mg/kg	ND
Tetraethyltin (TeET)	597-64-8	0.01 mg/kg	ND
Tetrabutyltin oxide (TBTO)	56-35-9	0.01 mg/kg in TBT	ND
Dibutyltin chloride (DBTC)	683-18-1	0.01 mg/kg in DBT	ND
Dibutyltin hydrogen borate (DBB)	75113-37-0	0.01 mg/kg in DBT	ND

Remark: ND = Not detected

7. Chlorinated benzenes

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

Chemical substances	CAS no.	Detection limit	Sludge (mg/kg)
Dichlorobenzenes	Various	0.05 mg/kg	ND
1,2-Dichlorobenzene	95-50-1	0.05 mg/kg	ND
1,3-Dichlorobenzene	541-73-1	0.05 mg/kg	ND
1,4-Dichlorobenzene	106-46-7	0.05 mg/kg	ND
Trichlorobenzenes	Various	0.05 mg/kg	ND
1,2,4-Trichlorobenzene	120-82-1	0.05 mg/kg	ND
1,2,3-Trichlorobenzene	87-61-6	0.05 mg/kg	ND
1,3,5-Trichlorobenzene	108-70-3	0.05 mg/kg	ND
Tetrachlorobenzene	12408-10-5	0.05 mg/kg	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	0.05 mg/kg	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	0.05 mg/kg	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	0.05 mg/kg	ND
Pentachlorobenzene	608-93-5	0.05 mg/kg	ND
Hexachlorobenzene	118-74-1	0.05 mg/kg	ND

Remark: ND = Not detected



Test Report

Number: SHAH01066193S1

Tests Conducted

7.1 Chlorinated toluenes

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

Chemical substances	CAS no.	Detection limit	Sludge (mg/kg)
2-chlorotoluene	95-49-8	0.1 mg/kg	ND
3-chlorotoluene	108-41-8	0.1 mg/kg	ND
4-chlorotoluene	106-43-4	0.1 mg/kg	ND
2,3-dichlorotoluene	32768-54-0	0.1 mg/kg	ND
2,4-dichlorotoluene	95-73-8	0.1 mg/kg	ND
2,5-dichlorotoluene	19398-61-9	0.1 mg/kg	ND
2,6-dichlorotoluene	118-69-4	0.1 mg/kg	ND
3,4-dichlorotoluene	95-75-0	0.1 mg/kg	ND
2,3,6-trichlorotoluene	2077-46-5	0.1 mg/kg	ND
2,4,5-trichlorotoluene	6639-30-1	0.1 mg/kg	ND
Benzotrichloride	98-07-7	0.1 mg/kg	ND
alpha, 2,4-trichlorotoluene	94-99-5	0.1 mg/kg	ND
alpha, 2,6-trichlorotoluene	2014-83-7	0.1 mg/kg	ND
alpha, 3,4-trichlorotoluene	102-47-6	0.1 mg/kg	ND
alpha, alpha, 2,6-tetrachlorotoluene	81-19-6	0.1 mg/kg	ND
alpha, alpha, alpha, 2,-tetrachlorotoluene	2136-89-2	0.1 mg/kg	ND
alpha, alpha, alpha, 4-tetrachlorotoluene	5216-25-1	0.1 mg/kg	ND
2,3,4,5,6-pentachlorotoluene	877-11-2	0.1 mg/kg	ND

Remark: ND = Not detected

8. Chlorinated solvents

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

Chemical substances	CAS no.	Detection limit	Sludge (mg/kg)
Tetrachloromethane	56-23-5	0.3 mg/kg	ND
Chloroform	67-66-3	0.3 mg/kg	ND
1,1-Dichloroethane	75-34-3	0.3 mg/kg	ND
1,2-Dichloroethane	107-06-2	0.3 mg/kg	ND
1,1-Dichloroethene	75-35-4	0.3 mg/kg	ND
Dichloromethane	75-09-2	0.3 mg/kg	ND

To be continued



Test Report

Number: SHAH01066193S1

Tests Conducted

Chemical substances	CAS no.	Detection limit	Sludge (mg/kg)
1,1,2,2-Tetrachloroethane	79-34-5	0.3 mg/kg	ND
Perchloroethylene	127-18-4	0.3 mg/kg	ND
1,1,1-Trichloroethane	71-55-6	0.3 mg/kg	ND
Trichloroethylene	79-01-6	0.3 mg/kg	ND
1,1,1,2-Tetrachloroethane	630-20-6	0.3 mg/kg	ND
1,1,2-Trichloroethane	79-00-5	0.3 mg/kg	ND
Pentachloroethane	76-01-7	0.3 mg/kg	ND

Remark: ND = Not detected

8.1 Other 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.	Detection limit	Sludge (mg/kg)
Xylene	1330-20-7	0.1 mg/kg	ND
2-ethoxy ethyl acetate	111-15-9	5 mg/kg	ND
Acetophenone	98-86-2	10 mg/kg	ND
2-phenyl-2-propanole	617-94-7	10 mg/kg	ND
Bis-(2-methoxy ethyl) ether	111-96-6	5 mg/kg	ND
N,N-dimethyl acetamide	127-19-5	10 mg/kg	ND
Benzene	71-43-2	0.1 mg/kg	ND
Toluene	108-88-3	0.1 mg/kg	ND
N,N-dimethyl formamide	68-12-2	10 mg/kg	ND

Remark: ND = Not detected



Test Report

Number: SHAH01066193S1

Tests Conducted

9. Chlorophenols

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

Chemical substances	CAS no.	Detection limit	Sludge (mg/kg)
2,4-Dichlorophenol	120-83-2	0.025 mg/kg	ND
2,5-Dichlorophenol	583-78-8	0.025 mg/kg	ND
Pentachlorophenol (PCP)	87-86-5	0.025 mg/kg	ND
2,3,4,6-Tetrachlorophenol	58-90-2	0.025 mg/kg	ND
2,4,5-Trichlorophenol	95-95-4	0.025 mg/kg	ND
2,4,6-Trichlorophenol	88-06-2	0.025 mg/kg	ND
2,3,4,5-Tetrachlorophenol	4901-51-3	0.025 mg/kg	ND
2,3,5,6-Tetrachlorophenol	935-95-5	0.025 mg/kg	ND
Tetrachlorophenols (TeCP)	25167-83-3	0.025 mg/kg	ND
2,3,4-Trichlorophenol	15950-66-0	0.025 mg/kg	ND
2,3,5-Trichlorophenol	933-78-8	0.025 mg/kg	ND
3,4,5-Trichlorophenol	609-19-8	0.025 mg/kg	ND
3,5- Dichlorophenol	591-35-5	0.025 mg/kg	ND
2,3-Dichlorophenol	576-24-9	0.025 mg/kg	ND
3,4-Dichlorophenol	95-77-2	0.025 mg/kg	ND
Trichlorophenol (TriCP)	25167-82-2	0.025 mg/kg	ND
2,3,6-Trichlorophenol	933-75-5	0.025 mg/kg	ND
Dichlorophenols (DiCP)	25167-81-1	0.025 mg/kg	ND
Mono Chlorophenol	Various	0.025 mg/kg	ND

Remark: ND = Not detected

10. Short-chained chlorinated paraffins (SCCPs)

With reference to US EPA 8270, ISO 22032, US EPA 527, US 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.	Detection limit	Sludge (mg/kg)
Short chain chlorinated paraffins (SCCPs)	85535-84-8	0.5 mg/kg	ND

Remarks: ND = Not detected



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Tests Conducted

11. 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, ISO 14403-1,-2, and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS) and Ultraviolet Spectrophotometer(UV) analysis.

Chemical substances	CAS no.	Detection limit	Sludge (mg/kg)
Lead, Pb	7439-92-1	1 mg/kg	32
Cadmium, Cd	7440-43-9	1 mg/kg	ND
Mercury, Hg	7439-97-6	0.02 mg/kg	0.19
Antimony, Sb	7440-36-0	1 mg/kg	4
Arsenic, As	7440-38-2	1 mg/kg	9
Chromium, Cr (total)	7440-47-3	1 mg/kg	52
Cobalt, Co	7440-48-4	1 mg/kg	12
Copper, Cu	7440-50-8	1 mg/kg	25
Nickel, Ni	7440-02-0	1 mg/kg	25
Zinc, Zn	7440-66-6	4 mg/kg	66
Total Manganese	7439-96-5	1 mg/kg	278
Hexavalent Chromium(Cr-VI)	18540-29-9	1 mg/kg	ND

Remark: ND = Not detected

The moisture percentage of the sludge is 11.2 % (w/w)

Testing period: From Mar 04, 2019 to Mar 13, 2019



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Number: SHAH01066193S1

Tests Conducted

Photo of sampling points:



Wastewater after treatment



Sludge

Photo of samples:



Wastewater after treatment



Sludge

End of report

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To: WUJIANG YUNSHENG DYEING & WEAVING CO., LTD.

Attention: SHEN QING

Date: Mar 19, 2019

Re: Report Revision Notification

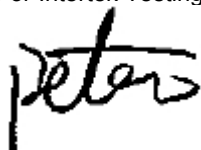
Intertek Testing Services Report Number SHAH01066193 Dated Mar 13, 2019.

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services Report Number SHAH01066193S1.

Please return the original captioned report to us immediately.

Thank you for your attention.

Authorized By:
For Intertek Testing Services Ltd., Shanghai



Peter Li
Environmental Laboratory Manager

