



# Test Report

Report No.: SEPSHXW24805

Report Date: Sep 11, 2024

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Factory Company Name:	Xuzhou Wool Crown High Tech Day Geopolitical Textile Co.,Ltd
Factory Address:	Qingshanquan Town Industrial Park, Jiawang District, Xuzhou City, Jiangsu Province,China

The following samples were submitted and identified by/on behalf of the client as:			
Sampling Method & Description:	Untreated wastewater	Approved Single Grab Method	Black liquid
	Effluent	Approved Single Grab Method	Transparency liquid
	Sludge	Approved Single Grab Method	Black and white solid
	Leachate	Approved Single Grab Method	Black liquid
	Incoming water	Approved Single Grab Method	Not tested
Discharge Type:	Indirect Discharge with Pretreatment		
On-site ETP / Pretreatment:	Yes	Homogenization Tank & Holding Time:	Yes, >12h
Discharge Destination:	Centralized ETP		
Permit Validation Date:	2023/12/11 to 2028/12/10		
ZDHC Conventional & Anions :	Not detected	ZDHC MRSL & Heavy Metals:	Not detected
Sludge Parameters:	Exceed ZDHC Threshold Value		
Sample Pick Up Date:	Aug 30, 2024		
Testing Period:	Aug 30, 2024 to Sep 11, 2024		
Parameter(s) exceeded maximum holding time / temperature:	Not exceeded		
Type of Process:	Textile		
Sludge Disposal Pathway:	Disposal Pathway A		
Average total industrial wastewater generated:	Equal or more than 15m <sup>3</sup> /day		

Report reviewed by:

*Kang kang*

Test Engineer (康宗祥 Kang kang)

Report approved by:

*Lily Ma*



Project Manager (马祖丽 Lily Ma)

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## Result Summary - ZDHC MRS� Wastewater Parameters

Test Items	Untreated wastewater	Effluent	Incoming water
1A:Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)	ND	NR	NR
1B:Anti- Microbials & Biocides	ND	NR	NR
1C:Chlorinated Parafins	ND	NR	NR
1D:Chlorobenzenes and Chlorotoluenes	ND	NR	NR
1E:Chlorophenols	ND	NR	NR
1F:N,N-di-methylformamide (DMFa)	ND	NR	NR
1G:Dyes – Carcinogenic or Equivalent Concern	ND	NR	NR
1H:Dyes – Disperse (Allergenic)	ND	NR	NR
1I:Dyes – Navy Blue Colourant	ND	NR	NR
1J:Flame Retardants	ND	NR	NR
1K:Glycols / Glycol Ethers	ND	NR	NR
1L:Halogenated Solvents	ND	NR	NR
1M:Organotin Compounds	ND	NR	NR
1N:Other/Miscellaneous Chemicals	ND	NR	NR
1O:Perfluorinated and Polyfluorinated Chemicals (PFCs)	ND	NR	NR
1P:Phthalates – including all other esters of ortho-phthalic acid	ND	NR	NR
1Q:Polycyclic Aromatic Hydrocarbons (PAHs)	ND	NR	NR
1R:Restricted Aromatic Amines	ND	NR	NR
1S:UV Absorbers	ND	NR	NR
1T:Volatile Organic Compounds (VOC)	ND	NR	NR

Remark: NR :Not requested

ND :Not detected

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## Result Summary - ZDHC Heavy Metals, Conventional and Anions Wastewater Parameters

Test Items	Untreated wastewater	Effluent	Incoming water
Chromium (VI)	NR	ND	NR
Arsenic	NR	ND	NR
Cadmium	NR	ND	NR
Lead	NR	ND	NR
Mercury	NR	ND	NR

## Result Summary - ZDHC Sludge Parameters

Test Items	Sludge	Leachate
Antimony	D	ND
Arsenic	D	NR
Barium	ND	NR
Cadmium	ND	NR
Cobalt	ND	NR
Copper	D	ND
Lead	D	NR
Nickel	ND	NR
Selenium	ND	NR
Silver	ND	NR
Chromium (total)	ND	NR
Zinc	ND	NR
Chromium VI	ND	NR
Mercury	D	ND
pH	Refer to result	NR
% Solids	Refer to result	NR
Paint filter test	Refer to result	NR
Faecal coliform	Refer to result	NR
Cyanide, total	Refer to result	NR
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	ND	NR
Polycyclic Aromatic Hydrocarbons (PAHs)	ND	NR
Chlorotoluenes	ND	NR

Remark: NR :Not requested  
D :Detected  
ND :Not detected  
Refer to result:Legal parameter(s) and/or parameter(s) requested by factory, please refer to test result

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## Test Result - ZDHC MRSL Wastewater Parameters

### 1A. 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	Results (µg/L)
			001
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

### 1B: Anti-Microbials & Biocides

OPP, Triclosan: With reference to USEPA 8270E Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS analysis; with reference to BS EN 12673-1999 an alternative method of solvent extraction and derivatization are included.

Permethrin: With reference to USEPA 8270E Solvent extraction, followed by GC-MS analysis; With reference to ISO 14154:2005 without derivatization and determination by LC-MS or LC-MS-MS analysis.

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
o-Phenylphenol (+salts)	90-43-7	100ug/L	ND
Triclosan	3380-34-5	100ug/L	ND
Permethrin	Multiple	100ug/L	ND

### 1C: Chlorinated Paraffins

For MCCP: With reference to EPA 3510, analysis by ISO18219-2:2021 with GC-MS-NCI or LC-MS-MS analysis.

For SCCP: With reference to EPA 3510, analysis by ISO18219-1:2021, ISO 12010:2019 with GC-MS-NCI or LC-MS-MS analysis.

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500ug/L	ND
Short-chain Chlorinated paraffin (C10 – C13)	85535-84-8	25ug/L	ND

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## 1D: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	Results (µg/L)
			001
Monochlorobenzene	108-90-7	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
4-Chlorotoluene	106-43-4	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

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## 1E:Chlorophenols

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

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
2-Chlorophenol	95-57-8	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
2,4&2,5-Dichlorophenol	120-83-2&583-78-8	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
2,6-Dichlorophenol	87-65-0	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
2,3,6-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
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
2,3,4,6-Tetrachlorophenol	58-90-2	0.5 µg/L	ND
Pentachlorophenol (PCP)	87-86-5	0.5 µg/L	ND

## 1F:N,N-di-methylformamide (DMFa)

With reference to EPA 8015, EPA 8270E , by Gas Chromatography-Mass Spectrometry (GC-MS) analysis

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
Dimethylformamide; N,N-dimethylformamide(DMFa) (*)	68-12-2	1000µg/L	ND

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## 1G:Dyes – Carcinogenic or Equivalent Concern

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

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
C.I. Direct Black 38	1937-37-7	500 ug/L	ND
C.I. Direct Blue 6	2602-46-2	500 ug/L	ND
C.I. Acid Violet 49	1694-09-3	500 ug/L	ND
C.I. Acid Red 26	3761-53-3	500 ug/L	ND
C.I. Basic Red 9	569-61-9	500 ug/L	ND
C.I. Direct Red 28	573-58-0	500 ug/L	ND
C.I. Basic Violet 14	632-99-5	500 ug/L	ND
C.I. Disperse Blue 1	2475-45-8	500 ug/L	ND
C.I. Disperse Blue 3	2475-46-9	500 ug/L	ND
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500 ug/L	ND
C.I. Basic Green 4 (malachite green chloride)	569-64-2	500 ug/L	ND
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500 ug/L	ND
C.I. Basic Green 4 (malachite green)	10309-95-2	500 ug/L	ND
Disperse Orange 11	82-28-0	500 ug/L	ND
Basic violet 3 with >0.1% of Michler's Ketone	548-62-9	500 ug/L	ND

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## 1H:Dyes – Disperse (Allergenic)

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

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
Disperse Yellow 1	119-15-3	50 ug/L	ND
Disperse Blue 102	12222-97-8	50 ug/L	ND
Disperse Blue 106	12223-01-7	50 ug/L	ND
Disperse Yellow 39	12236-29-2	50 ug/L	ND
Disperse Orange 37/59/76	13301-61-6	50 ug/L	ND
Disperse Brown 1	23355-64-8	50 ug/L	ND
Disperse Orange 1	2581-69-3	50 ug/L	ND
Disperse Yellow 3	2832-40-8	50 ug/L	ND
Disperse Red 11	2872-48-2	50 ug/L	ND
Disperse Red 1	2872-52-8	50 ug/L	ND
Disperse Red 17	3179-89-3	50 ug/L	ND
Disperse Blue 7	3179-90-6	50 ug/L	ND
Disperse Blue 26	3860-63-7	50 ug/L	ND
Disperse Yellow 49	54824-37-2	50 ug/L	ND
Disperse Blue 35	12222-75-2 56524-77-7	50 ug/L	ND
Disperse Blue 124	61951-51-7	50 ug/L	ND
Disperse Yellow 9	6373-73-5	50 ug/L	ND
Disperse Orange 3	730-40-5	50 ug/L	ND

## 1I:Dyes – Navy Blue Colourant

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

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
Disperse Yellow 1	119-15-3	50 ug/L	ND
Disperse Blue 102	12222-97-8	50 ug/L	ND

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## 1J: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	Results (µg/L)
			001
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25ug/L	ND
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	25ug/L	ND
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25ug/L	ND
Hexabromocyclododecane (HBCDD)	3194-55-6	25ug/L	ND
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25ug/L	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25ug/L	ND
Polybromobiphenyls (PBBs)	59536-65-1	25ug/L	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	25ug/L	ND
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25ug/L	ND
Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	25ug/L	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25ug/L	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25ug/L	ND
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25ug/L	ND
Decabromobiphenyl (DecaBB)	13654-09-6	25ug/L	ND
Dibromobiphenyls (DiBB)	Multiple	25ug/L	ND
Octabromobiphenyls (OctaBB)	Multiple	25ug/L	ND
Dibromopropylether	21850-44-2	25ug/L	ND
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25ug/L	ND
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25ug/L	ND
Monobromobiphenyls (MonoBB)	Multiple	25ug/L	ND
Monobromodiphenylethers (MonoBDEs)	Multiple	25ug/L	ND
Nonabromobiphenyls (NonaBB)	Multiple	25ug/L	ND
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25ug/L	ND
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25ug/L	ND
Tribromodiphenylethers (TriBDEs)	Multiple	25ug/L	ND

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## 1K:Glycols / Glycol Ethers

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

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
Bis(2-methoxyethyl)-ether	111-96-6	50 ug/L	ND
2-ethoxyethanol	110-80-5	50 ug/L	ND
2-ethoxyethyl acetate	111-15-9	50 ug/L	ND
Ethylene glycol dimethyl ether	110-71-4	50 ug/L	ND
2-methoxyethanol	109-86-4	50 ug/L	ND
2-methoxyethylacetate	110-49-6	50 ug/L	ND
2-methoxypropylacetate	70657-70-4	50 ug/L	ND
Triethylene glycol dimethyl ether	112-49-2	50 ug/L	ND

## 1L:Halogenated Solvents

With reference to USEPA 8260D, Headspace GC-MS or Purge and trap GC-MS analysis.

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
1,2-Dichloroethane	107-06-2	1ug/L	ND
Methylene chloride	75-09-2	1ug/L	ND
Tetrachloroethylene	127-18-4	1ug/L	ND
Trichloroethylene	79-01-6	1ug/L	ND

## 1M:Organotin Compounds

With reference to ISO 17353, Derivatisation with NaB (C<sub>2</sub>H<sub>5</sub>)<sub>4</sub>, with GC-MS analysis.

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
Dipropyltin compounds (DPT)	Multiple	0.01ug/L	ND
Mono-, di- and tri-butyltin derivatives	Multiple	0.01ug/L	ND
Mono, di-, and tri-methyltin derivatives	Multiple	0.01ug/L	ND
Mono, di-, and tri-octyltin derivatives	Multiple	0.01ug/L	ND
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01ug/L	ND
Tetraethyltin compounds (TeBT)	Multiple	0.01ug/L	ND
Tripropyltin Compounds (TPT)	Multiple	0.01ug/L	ND
Tetraoctyltin compounds (TeOT)	Multiple	0.01ug/L	ND
Tricyclohexyltin (TCyHT)	Multiple	0.01ug/L	ND
Tetraethyltin Compounds (TeET)	Multiple	0.01ug/L	ND

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## 1N:Other/Miscellaneous Chemicals

Others: With reference to Liquid extraction, LC-MS-MS or GC-MS analysis.

Borate, zinc salt: determined as total boron and total zinc via ICP -MS analysis.

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500ug/L	ND
Bisphenol A	80-05-7	10ug/L	ND
Thiourea	62-56-6	50ug/L	ND
Quinoline	91-22-5	50ug/L	ND
Borate, zinc salt	12767-90-7	100ug/L in Boron	ND
		100ug/L in Zinc	ND

## 1O:Perfluorinated and Polyfluorinated Chemicals (PFCs)

PFCs: With reference to EPA 537:2020 with LC-MSMS

FTOH: With reference to BS EN 12673-1999, EPA 8270, GC-MS, Derivatization with acetic anhydride followed by GC-MS.

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	Multiple	0.01µg/L	ND
Perfluorooctanoic acid (PFOA) related substances	Multiple	1µg/L	ND

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## 1P:Phthalates – including all other esters of ortho-phthalic acid

With reference to USEPA 8270E, ISO 18856, Dichloromethane extraction GC-MS analysis.

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10µg/L	ND
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUF)	68515-42-4	10µg/L	ND
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	10µg/L	ND
Butyl benzyl phthalate (BBP)	85-68-7	10µg/L	ND
Di-cyclohexyl phthalate (DCHP)	84-61-7	10µg/L	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0	10µg/L	ND
Di-iso-octyl phthalate (DIOP)	27554-26-3	10µg/L	ND
Di-isobutyl phthalate (DIBP)	84-69-5	10µg/L	ND
Di-isononyl phthalate (DINP)	28553-12-0	10µg/L	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	10µg/L	ND
Di-n-octyl phthalate (DNOP)	117-84-0	10µg/L	ND
Di-n-pentylphthalates	131-18-0	10µg/L	ND
Di-n-propyl phthalate (DPRP)	131-16-8	10µg/L	ND
Di(ethylhexyl) phthalate (DEHP)	117-81-7	10µg/L	ND
Dibutyl phthalate (DBP)	84-74-2	10µg/L	ND
Diethyl phthalate (DEP)	84-66-2	10µg/L	ND
Diisopentylphthalates	605-50-5	10µg/L	ND
Dinonyl phthalate (DNP)	84-76-4	10µg/L	ND

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## 1Q: Polycyclic Aromatic Hydrocarbons (PAHs)

With reference to US EPA 8270E, DIN 38407-39, solvent extraction GC-MS analysis.

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
Acenaphthene	83-32-9	1 µg/L	ND
Acenaphthylene	208-96-8	1 µg/L	ND
Anthracene	120-12-7	1 µg/L	ND
Benzo[f]anthracene	56-55-3	1 µg/L	ND
Benzo[f]pyrene (BaP)	50-32-8	1 µg/L	ND
Benzo[b]fluoranthene	205-99-2	1 µg/L	ND
Benzo[e]pyrene	192-97-2	1 µg/L	ND
Benzo[ghi]perylene	191-24-2	1 µg/L	ND
Benzo[j]fluoranthene	205-82-3	1 µg/L	ND
Benzo[k]fluoranthene	207-08-9	1 µg/L	ND
Chrysene	218-01-9	1 µg/L	ND
Dibenz[a,h]anthracene	53-70-3	1 µg/L	ND
Fluoranthene	206-44-0	1 µg/L	ND
Fluorene	86-73-7	1 µg/L	ND
Indeno[1,2,3-cd]pyrene	193-39-5	1 µg/L	ND
Naphthalene	91-20-3	1 µg/L	ND
Phenanthrene	85-01-8	1 µg/L	ND
Pyrene	129-00-0	1 µg/L	ND

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## 1R:Restricted Aromatic Amines

With reference to reduction step with sodium dithionite, solvent extraction, EPA 8270E and ISO 14362-1 with GC-MS and LC-MS-MS analysis.

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
2-Naphthylamine	91-59-8	0.1µg/L	ND
2-Naphthylammoniumacetate	553-00-4	0.1µg/L	ND
2,4-Xylidine	95-68-1	0.1µg/L	ND
2,4,5-Trimethylaniline	137-17-7	0.1µg/L	ND
2,4,5-Trimethylaniline hydrochloride	21436-97-5	0.1µg/L	ND
2,6-Xylidine	87-62-7	0.1µg/L	ND
3,3'-Dichlorobenzidine	91-94-1	0.1µg/L	ND
3,3'-Dimethoxybenzidine	119-90-4	0.1µg/L	ND
3,3'-Dimethylbenzidine	119-93-7	0.1µg/L	ND
4-Aminoazobenzene	60-09-3	0.1µg/L	ND
4-Aminodiphenyl	92-67-1	0.1µg/L	ND
4-Chloro-o-toluidine	95-69-2	0.1µg/L	ND
4-Chloro-o-toluidinium chloride	3165-93-3	0.1µg/L	ND
4-Chloroaniline	106-47-8	0.1µg/L	ND
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1µg/L	ND
4-methoxy-m-phenylenediamine	615-05-4	0.1µg/L	ND
4-methyl-m-phenylenediamine	95-80-7	0.1µg/L	ND
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1µg/L	ND
4,4'-methylenedi-o-toluidine	838-88-0	0.1µg/L	ND
4,4'-methylenedianiline	101-77-9	0.1µg/L	ND
4,4'-Oxydianiline	101-80-4	0.1µg/L	ND
4,4'-Thiodianiline	139-65-1	0.1µg/L	ND
5-Nitro-o-toluidine	99-55-8	0.1µg/L	ND
6-methoxy-m-toluidine	120-71-8	0.1µg/L	ND
Benzidine	92-87-5	0.1µg/L	ND
o-Aminoazotoluene	97-56-3	0.1µg/L	ND
o-Anisidine	90-04-0	0.1µg/L	ND
o-Toluidine	95-53-4	0.1µg/L	ND
2-Naphthylamine	91-59-8	0.1µg/L	ND

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## 1S:UV Absorbers

With reference to USEPA 8270, ISO 22032, USEPA 527 and USEPA 8321B, dichloromethane extraction GC-MS or LC-MS-MS analysis.

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	100µg/L	ND
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100µg/L	ND
3-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320)	3846-71-7	100µg/L	ND
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100µg/L	ND

## 1T:Volatile Organic Compounds (VOC)

With reference to ISO 11423-1 Headspace or Purge and trap, GC-MS analysis.

USEPA 8260D, add ISO 20595 static headspace for determination of VOC in wastewater.

Chemical substances	CAS No.	Reporting limit	Results (µg/L)
			001
Benzene	71-43-2	1µg/L	ND
m-cresol	108-39-4	1µg/L	ND
o-cresol	95-48-7	1µg/L	ND
p-cresol	106-44-5	1µg/L	ND
Xylene	1330-20-7	1µg/L	ND
Toluene (*)	108-88-3	1µg/L	ND

Remark: ND : Not detected (less than reporting limit)  
NA : Not applicable  
\* : Report for mock leather only.

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## Test Result - ZDHC Heavy Metals Wastewater Parameters

With reference to ISO 17294, ISO 18412, US EPA 200.8, USEPA 6010C, USEPA 6020A, USEPA 218.6, USEPA 200.8-SIM, USEPA 6020A-SIM, USEPA 245.1, USEPA 245.7, HJ 700, GB 7467, GB 7475, GB 11912, GB 11907, GB 7472, HJ 597, HJ 694, IS 3025 (Part 65), IS 3025 (Part 52), IS 3025 (Part 41), IS 3025 (Part 42), IS 3025 (Part 47), IS 3025 (Part 54), IS 3025 (Part 49), IS 3025 (Part 48 cold vapor), IS 3025 (Part 65-SI), ICP-OES/ICP-MS analysis.

Chemical substances	Limit			Reporting limit (mg/L)	Results (mg/L)
	Foundational	Progressive	Aspirational		002
Chromium (VI)	0.05 mg/L	0.005 mg/L	0.001 mg/L	0.001	ND
Barium	Sample and report only			0.01	ND
Selenium	Sample and report only			0.01	ND
Tin	Sample and report only			0.01	ND
Arsenic	0.05 mg/L	0.01 mg/L	0.005 mg/L	0.005	ND
Cadmium	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	ND
Lead	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	ND
Mercury	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.001	ND

Remark: ND : Not detected (less than reporting limit)

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## Test Result - Sludge Parameters (Heavy metals)

Chromium VI: With reference to alkaline digestion USEPA 3060a, USEPA 7196 or USEPA 7199, HJ 1082 with Colourimetric UV/VIS, or Colourimetric IC analysis.

Mercury: With reference to Dissolution, acid digestion USEPA 7473, USEPA 7471 b, or USEPA 3051a USEPA 7471b, or USEPA 6020b, GB/T 22105.1, HJ 923 with CVAA or ICP MS analysis.

Other heavy metals: With reference to acid/peroxide digestion EPA 3050, EPA 6010D or EPA 6020B, HJ 803 with ICP/OES, or ICP-MS analysis.

Chemical substances	Reporting limit (mg/kg – Dry weight)	Sludge (mg/kg – Dry weight)	Threshold Values(mg/kg)#
Antimony	5	62*	12
Arsenic	5	5	10
Barium	200	ND	700
Cadmium	1	ND	3
Cobalt	400	ND	1600
Copper	50	212*	200
Lead	5	17	100
Nickel	20	ND	70
Selenium	5	ND	10
Silver	50	ND	100
Total Chromium	50	ND	100
Zinc	400	ND	1000
Chromium (VI)	20	ND	50
Mercury	1	1*	1

## Test Result - Sludge Parameters (Anions)

With reference to USEPA 9013, USEPA 9014, USEPA 9213, HJ745 with Colourimetry or ISE analysis.

Chemical substances	Reporting limit (mg/kg – Dry weight)	Sludge (mg/kg – Dry weight)
Cyanide	20	Not detected

Remark: \* = Exceed ZDHC Threshold Value

# = Limit refers to the chosen ZDHC sludge disposal pathway in Table 4 in accordance with the ZDHC Wastewater Guidelines.

mg/kg=parts per million

ND = Not detected (less than reporting limit)

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## Test Result - Sludge Parameters (Conventional)

Chemical substances	Test method	Sludge(Dry weight)
pH	USEPA SW 9045D / HJ962	6.18
% Solids	USEPA 160.3 / HJ613	71.7%
Paint Filter Test	USEPA SW-846 / USEPA 9095B	absence of free liquids
Fecal Coliform	USEPA 1681	Not detected

## Test Result - Sludge Parameters (MRSL)

1. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers

With reference to USEPA 3540/3541, USEPA 3550, ISO 18857-2, ASTM D7065, ISO 18254-1, with GC-MS and LC-MS-MS analysis.

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

Remark: ND : Not detected (less than reporting limit)

mg/kg=parts per million

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## 2. Chlorotoluenes

With reference to US EPA 3540/3541, US EPA 3550, US EPA 3650, US EPA 827, HJ 605 with GC-MS analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight) (mg/kg)	Sludge (mg/kg – Dry weight)
Other isomers of mono-, di-, tri-, tetra- and penta- chlorotoluene	Multiple	0.2	ND

Remark: ND : Not detected (less than reporting limit)  
mg/kg=parts per million

## 3. Polycyclic aromatic hydrocarbons (PAHs)

With reference to US EPA 3540/3541, US EPA 3550, US EPA 3640, US EPA 827, HJ 805-2016 with GC-MS analysis.

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

Remark: ND : Not detected (less than reporting limit)  
mg/kg=parts per million

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## Test Result - Sludge Parameters (Leachate heavy metals)

With reference to Acid digestion ISO 11885, ISO 17294-2, , EPA 1311 with ICP-OES, ICP-MS or , USEPA 200.7, USEPA 200.8, USEPA 6010c, USEPA 6020a analysis.

Chromium VI: With reference to Toxicity leachate extraction procedure ISO 18412, or USEPA 1311, USEPA 7196 or USEPA 7199 Colourimetric UV/VIS, or Colourimetric IC analysis.

Mercury: With reference to dissolution, acid digestion ISO 12846 or ISO 17852, or EPA 7471b or EPA 3051a, EPA 7471b or 6020b CVAA or ICP MS analysis.

Chemical substances	Reporting limit (mg/kg – Dry weight)	Sludge (mg/kg – Dry weight)
Arsenic	0.5	NR
Cadmium	0.15	NR
Total Chromium	5	NR
Lead	0.5	NR
Antimony	0.6	ND
Barium	35	NR
Cobalt	80	NR
Copper	10	ND
Nickel	3.5	NR
Selenium	0.5	NR
Silver	5	NR
Zinc	50	NR
Chromium (VI)	2.5	NR
Mercury	0.05	ND

Remark: ND : Not detected (less than reporting limit)

mg/kg=parts per million

NR :Not requested

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**Tested Component Description:**

- 001 Untreated wastewater
- 002 Effluent
- 003 Sludge
- 004 Leachate
- 005 Incoming water

**Sample Photos**

<p style="text-align: center;">Factory gate &lt;N 34°41'31.56";E 117°38'58.26" &gt;</p>	<p style="text-align: center;">Incoming water point &lt;N 34°41'24.26";E 117°38'43.18" &gt;</p>
	
<p style="text-align: center;">Untreated wastewater equalisation tank &lt;N 34°41'31.56";E 117°38'56.26" &gt;</p>	<p style="text-align: center;">Common Effluent Treatment Plant &lt;N 34°41'31.56";E 117°38'58.26" &gt;</p>
	

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<p>Effluent equalisation tank &lt;N 34°41'31.70";E 117°38'46.05" &gt;</p>	<p>Sludge storage &lt;N 34°41'31.56";E 117°38'58.26" &gt;</p>
	
<p>Sludge sampling point &lt;N 34°41'31.46";E 117°36'53.13" &gt;</p>	<p>Labelled sample bottles</p>
	

\*\*\*\*\*End of Report\*\*\*\*\*