



LAB REPORT

Report Number	(6624)057-0143
Date of sampling	26/02/2024
Reporting Date	05/03/2024

Audit ID	164365	Audit firm	Bureau Veritas – SHANGHAI
Company name	Jiaxing Jiasheng Dyeing Co., Ltd		
Contact person	Yu Yao		
Type of tax - tax ID no	91330411MA29FNT408		
Address	NO. 138 Rongxu Road, Wangjiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province, China		
Region state province	Zhejiang		
Town city / village	Jiaxing		
Zip/Post code	314011		

Type of wastewater discharge	
Type of waste discharge	Indirect Discharge with Pre-treatment
Description of the discharge	Jiaxing United Wastewater Treatment Plant
Ambient temperature of receiving water body (direct discharge only):	Not Applicable

Sampler accreditation certification number (ZDHC):	C74D106818121
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Sample description			
	Simple	Composite	Comments
(1) Wastewater before treatment	YES, Light yellow, Simple sample at 10:20	NO	/
(2) Wastewater after treatment	YES, Light yellow, Simple sample at 11:10	NO	/
(3) Sludge	NO	YES, Brown black	/



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Local Legal Data	
Local Legal Standard name [a]	GB 4287-2012
Parameters (ZDHC WWG V2.1, Table 2 & 3) exceeded local regulation:	No exceeded
Discharge permit provided	YES
Discharge flow data	>15m ³ /Day

Internal description – Final Test Report	
Internal codification number	(6624)057-0143
Reference sample number	Sample 1 For Before treatment; Sample 2 For After treatment & Sample 3 For Sludge
Received on	27/02/2024
Analysis carried out from	27/02/2024 to 05/03/2024
Arrival Temperature at Lab	4.02°C
Comments	Samples received within maximum holding time.
Reporting date	05/03/2024
Date and time of the beginning of sampling	26/02/2024, 10:20
Date and time of the end of sampling	26/02/2024, 12:30
Sample holding time exceeded	NO



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If there are questions or concerns on this report, please contact the following persons:

General enquiry and invoicing

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Technical enquiry-Chemical

Mr. Steven Han
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This report shown the test result of the auxiliary chemical and/or raw material samples, which collected during particular factory audit. The results of this report shall not be used for any regulatory compliance purposes. The sampling is agreed with client.

BUREAU VERITAS

CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)

必维申美商品检测（上海）有限公司

Laboratory Test Location 实验室检测地址:

No.368, Guangzhong Road, Zhuanqiao Town, Minhang, Shanghai.

上海市闵行区光中路368号

No.168, Guanghua Road, Zhuanqiao Town, Minhang, Shanghai.

上海市闵行区光华路168号

Reviewed by:

Amy

Approved by:

Aten Wu
Technical Support

Summary of test results				
Test items	Sample 1 (Before treatment)	Sample 2 (After treatment)	Sample 3 (Sludge)	Sample 4 (Leachate)
Global effluent parameters ZDHC	NA	NA	ND	NA
Heavy metals	NA	ND	D	ND
Alkylphenols (APs) & Alkylphenol ethoxylates (APEOs)	ND	NA	D	NA
Chlorobenzenes & Chlorotoluenes	ND	NA	ND	NA
Chlorophenols	ND	NA	NA	NA
Restricted Aromatic Amines (Cleavable from Azo-colourants)	ND	NA	NA	NA
Dyes – Carcinogenic or Equivalent Concern	ND	NA	NA	NA
Dyes – Disperse (Sensitising)	ND	NA	NA	NA
Flame retardants	ND	NA	NA	NA
Glycols	ND	NA	NA	NA
Halogenated Solvents	ND	NA	NA	NA
Organotin compounds	ND	NA	NA	NA
Phthalates	ND	NA	NA	NA
Perfluorinated and Polyfluorinated Chemicals (PFCs)	ND	NA	NA	NA
Polycyclic Aromatic Hydrocarbons (PAHs)	ND	NA	ND	NA
Volatile Organic Compounds (VOCs)	ND	NA	NA	NA
Anti-Microbials & Biocides	ND	NA	NA	NA
Chlorinated Parafins	ND	NA	NA	NA
N,N-di-methylformamide (DMFa)	ND	NA	NA	NA
Dyes – Navy Blue Colourant	ND	NA	NA	NA
Other / Miscellaneous Chemicals	ND	NA	NA	NA
UV Absorbers	ND	NA	NA	NA

Remark (Indicated in each parameter)

ND	=	Not detected	NA	=	Not applicable
D	=	Detected	-	=	Did not perform
*	=	Not tested due to unreliable result	(f)	=	Parameter tested in field
@	=	Maximum holding time exceeded, Red flag in the ZDHC Gateway – Wastewater Module. Probable error in results due to the holding time.	(T)	=	Handling temperature exceeded
#	=	Non accredited parameter	(S)	=	Analysis was subcontracted for testing - Bureau Veritas Science and Technology Service (Xi'an) Co., Ltd
[a]	=	The local legal standard name and legal standard number is referenced to discharge permit (or contractual agree by CETP) that provided by company.			

Test results

1. Global effluent parameters

Parameters	Test Method	Limit			Reporting limit & LOQ	Result Sample X (XXXXX Treatment)	Unit
		Foundational	Progressive	Aspirational			
Temperature difference		Δ+15	Δ+10	Δ+5	N/A	NA	°C
TSS		50	15	5	5	NA	mg/L
COD		150	80	40	40	NA	mg/L
Total-N		20 mg/L	10 mg/L	5 mg/L	5	NA	mg/L
pH		6-9	6-9	6-9	N/A	NA	/
Colour [m-1]		7;5;3	5;3;2	2;1;1	N/A	NA	m ⁻¹
BOD ₅		30	15	8	8	NA	mg/L
Ammonium-N		10	1	0.5	0.5	NA	mg/L
Total-P		3	0.5	0.1	0.1	NA	mg/L
AOX		3	0.5	0.1	0.1	NA	mg/L
Oil and grease		10	2	0.5	0.5	NA	mg/L
Phenol		0.5	0.01	0.001	0.001	NA	mg/L
E.Coli		126	126	126	126	NA	[MPN/100 ml]
Foam		Not visible	Not visible	Not visible	N/A	NA	/
Cyanide		0.2	0.1	0.05	0.05	NA	mg/L
Sulfide		0.5	0.05	0.01	0.01	NA	mg/L
Sulfite		2	0.5	0.2	0.2	NA	mg/L
DO		Sample and report only			N/A	NA	mg/L
Total Chlorine		Sample and report only			N/A	NA	mg/L
TDS		Sample and report only			5	NA	mg/L
Chloride		Sample and report only			N/A	NA	mg/L
Sulfate		Sample and report only			N/A	NA	mg/L
Wastewater Flowrate		-			N/A	NA	m ³ /day



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			Reporting limit & LOQ	Result Sample 2 (After Treatment)	Unit
		Foundational	Progressive	Aspirational			
Arsenic (As)	Various	0.05	0.01	0.005	0.005	ND	mg/L
Cadmium (Cd)	Various	0.1	0.05	0.01	0.01	ND	mg/L
Mercury (Hg)	Various	0.01	0.005	0.001	0.001	ND	mg/L
Lead (Pb)	Various	0.1	0.05	0.01	0.01	ND	mg/L
Antimony (Sb)	Various	0.1	0.05	0.01	0.01	NA	mg/L
Cobalt (Co)	Various	0.05	0.02	0.01	0.01	NA	mg/L
Nickel (Ni)	Various	0.2	0.1	0.05	0.05	NA	mg/L
Silver (Ag)	Various	0.1	0.05	0.005	0.005	NA	mg/L
Copper (Cu)	Various	1	0.5	0.25	0.25	NA	mg/L
Zinc (Zn)	Various	5.0	1.0	0.5	0.5	NA	mg/L
Total Chromium (Cr)	Various	0.2	0.1	0.05	0.05	NA	mg/L
Chromium VI (Cr VI)	Various	0.05	0.005	0.001	0.001	ND	mg/L
Barium (Ba)	Various	Sample and report only			1	NA	mg/L
Selenium (Se)	Various	Sample and report only			1	NA	mg/L
Tin (Sn)	Various	Sample and report only			1	NA	mg/L

Remark

- | | |
|--|---|
| ND = Not detected | NA = Not applicable |
| D = Detected | - = Did not perform |
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Red flag in the ZDHC Gateway – Wastewater Module.
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3. Alkylphenols (APs) & AlkylphenolEtoxylates (APEOs)

NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-MS), OPEO/NPEO (n>2): ASTM D7742 ISO 18857-2

Alkylphenols (APs) & Alkylphenoethoxyates (APEOs)	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Octylphenol (OP)	140-66-9/ 1806-26-4/ 27193-28-8	5	ND	µg/L
Nonylphenol (NP)	104-40-5/ 11066-49-2/ 25154-52-3/ 84852-15-3	5	ND	µg/L
Octylphenoethoxyates (OPEOs)	9002-93-1/ 9036-19-5/ 68987-90-6	5	ND	µg/L
Nonylphenoethoxyates (NPEOs)	9016-45-9/ 26027-38-3/ 37205-87-1/ 68412-54-4/ 127087-87-0	5	ND	µg/L

4. Chlorobenzenes & Chlorotoluenes

USEPA 8260D, 8270E, Purge and Trap, Head Space, Dichloromethane extraction followed by GC-MS

Chlorobenzenes & Chlorotoluenes	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
1,2-Dichlorobenzene	95-50-1	0.2	ND	µg/L
Other isomers of mono-, di-, tri-, tetra-, penta-, and hexa- chlorobenzene and mono-, di-, tri-, tetra-, and penta- chlorotoluene	Various	0.2	ND	µg/L

5. Chlorophenols

USEPA 8270E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS, BS EN 12673-1999 the procedure of solvent extraction and derivatization are included

Chlorophenols	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
2-Chlorophenol	95-57-8	0.5	ND	µg/L
3-Chlorophenol	108-43-0	0.5	ND	µg/L
4-Chlorophenol	106-48-9	0.5	ND	µg/L
2,3-Dichlorophenol	576-24-9	0.5	ND	µg/L
2,4-Dichlorophenol	120-83-2	0.5	ND	µg/L
2,5-Dichlorophenol	583-78-8	0.5	ND	µg/L
2,6-Dichlorophenol	87-65-0	0.5	ND	µg/L
3,4-Dichlorophenol	95-77-2	0.5	ND	µg/L
3,5-Dichlorophenol	591-35-5	0.5	ND	µg/L
2,4,6-Trichlorophenol	88-06-2	0.5	ND	µg/L
2,3,5-Trichlorophenol	933-78-8	0.5	ND	µg/L
2,3,6-Trichlorophenol	933-75-5	0.5	ND	µg/L

2,4,5-Trichlorophenol	95-95-4	0.5	ND	µg/L
2,3,4-Trichlorophenol	15950-66-0	0.5	ND	µg/L
3,4,5-Trichlorophenol	609-19-8	0.5	ND	µg/L
2,3,4,5-Trichlorophenol	4901-51-3	0.5	ND	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND	µg/L
Pentachlorophenol (PCP)	87-86-5	0.5	ND	µg/L

6. Restricted Aromatic Amines (Cleavable from Azo-colourants)

Reduction step with sodium dithionite, solvent extraction EPA 8270E and ISO 14362-1 GC/MS and LC/MS/MS

Azo Dyes	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
4,4-Methylene-bis-(2-chloro-aniline)	101-14-4	0.1	ND	µg/L
4,4-methylenedianiline	101-77-9	0.1	ND	µg/L
4,4-Oxydianiline	101-80-4	0.1	ND	µg/L
4-Chloroaniline	106-47-8	0.1	ND	µg/L
3,3-Dimethoxybenzidine	119-90-4	0.1	ND	µg/L
3,3-Dimethylbenzidine	119-93-7	0.1	ND	µg/L
6-methoxy-m-toluidine	120-71-8	0.1	ND	µg/L
2,4,5-Trimethylaniline	137-17-7	0.1	ND	µg/L
4,4-Thiodianiline	139-65-1	0.1	ND	µg/L
4-Aminoazobenzene	60-09-3	0.1	ND	µg/L
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND	µg/L
4,4-methylenedi-o-toluidine	838-88-0	0.1	ND	µg/L
2,6-Xylidine	87-62-7	0.1	ND	µg/L
o-Anisidine	90-04-0	0.1	ND	µg/L
2-Naphthylamine	91-59-8	0.1	ND	µg/L
3,3'-Dichlorobenzidine	91-94-1	0.1	ND	µg/L
4-Aminobiphenyl	92-67-1	0.1	ND	µg/L
Benzidine	92-87-5	0.1	ND	µg/L
o-Toluidine	95-53-4	0.1	ND	µg/L
2,4-Xylidine	95-68-1	0.1	ND	µg/L
4-Chloro-o-toluidine	95-69-2	0.1	ND	µg/L
4-Methyl-m-phenylenediamine	95-80-7	0.1	ND	µg/L



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o-Aminoazotoluene	97-56-3	0.1	ND	µg/L
5-Nitro-o-toluidine	99-55-8	0.1	ND	µg/L
2-Naphthylammoniumacetate	553-00-4	0.1	ND	µg/L
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	ND	µg/L
4-chloro-o-toluidinium chloride	3165-93-3	0.1	ND	µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisoole sulphate	39156-41-7	0.1	ND	µg/L

7. Dyes – Carcinogenic or Equivalent Concern

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

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

8. Dyes – Disperse (Sensitising)

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

Disperse dyes	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Disperse Yellow 1	119-15-3	50	ND	µg/L
Disperse Blue 102	12222-97-8	50	ND	µg/L
Disperse Blue 106	12223-01-7	50	ND	µg/L



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Disperse Yellow 39	12236-29-2	50	ND	µg/L
Disperse Orange 37/59/76	13301-61-6	50	ND	µg/L
Disperse Brown 1	23355-64-8	50	ND	µg/L
Disperse Orange 1	2581-69-3	50	ND	µg/L
Disperse Yellow 3	2832-40-8	50	ND	µg/L
Disperse Red 11	2872-48-2	50	ND	µg/L
Disperse Red 1	2872-52-8	50	ND	µg/L
Disperse Red 17	3179-89-3	50	ND	µg/L
Disperse Blue 7	3179-90-6	50	ND	µg/L
Disperse Blue 26	3860-63-7	50	ND	µg/L
Disperse Yellow 49	54824-37-2	50	ND	µg/L
Disperse Blue 35	12222-75-2	50	ND	µg/L
Disperse Blue 124	61951-51-7	50	ND	µg/L
Disperse Yellow 9	6373-73-5	50	ND	µg/L
Disperse Orange 3	730-40-5	50	ND	µg/L
Disperse Blue 35	56524-77-7	50	ND	µg/L

9. Flame retardants

USEPA 8270E, ISO 22032, USEPA 527 and USEPA 8321B Dichloromethane extraction GC-MS or LC-MS(-MS)

Determined as total boron via ICP

Brominated flame retardants	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	ND	µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate	5412-25-9	25	ND	µg/L
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	25	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	25	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	25	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	25	ND	µg/L
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	ND	µg/L



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Decabromobiphenyl (DecaBB)	13654-09-6	25	ND	µg/L
Dibromobiphenyls (DiBB)	Various	25	ND	µg/L
Octabromobiphenyls (OctaBB)	Various	25	ND	µg/L
Dibromopropylether	21850-44-2	25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	ND	µg/L
Monobromobiphenyls (MonoBB)	Various	25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Various	25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Various	25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Various	25	ND	µg/L
Boric acid	10043-35-3/ 11113-50-1	100 ^d	ND	µg/L
Diboron trioxide	1303-86-2	100 ^d	ND	µg/L
Disodium octaborate	12008-41-2	100 ^d	ND	µg/L
Disodium tetraborate anhydrous	1303-96-4/ 1330-43-4	100 ^d	ND	µg/L
Tetraboron disodium heptaoxide, hydrate	12267-73-1	100 ^d	ND	µg/L

d = Limit refers to elemental boron, not the salt

10. Glycols

USEPA 8270E Liquid extraction, LC-MS GC-MS

Glycols	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Bis(2-methoxyethyl)-ether	111-96-6	50	ND	µg/L
2-ethoxyethanol	110-80-5	50	ND	µg/L
2-ethoxyethyl acetate	111-15-9	50	ND	µg/L
Ethylene glycol dimethyl ether	110-71-4	50	ND	µg/L
2-methoxyethanol	109-86-4	50	ND	µg/L
2-methoxyethylacetate	110-49-6	50	ND	µg/L
2-methoxypropylacetate	70657-70-4	50	ND	µg/L
Triethylene glycol dimethyl ether	112-49-2	50	ND	µg/L



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11. Halogenated Solvents

USEPA 8260D Headspace GC-MS or Purge and trap GC-MS

Chlorinated solvents	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
1,2-Dichloroethane	107-06-2	1	ND	µg/L
Methylene chloride	75-09-2	1	ND	µg/L
Trichloroethene	79-01-6	1	ND	µg/L
Tetrachloroethene	127-18-4	1	ND	µg/L

12. Organotin compounds

ISO 17353 derivatisation with NaB (C₂H₅)₄ GC-MS

Organotin compounds	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Mono-, di-and tri-methyltin derivatives	Various	0.01	ND	µg/L
Mono-, di-and tri-butyltin derivatives	Various	0.01	ND	µg/L
Mono-, di-and tri-phenyltin derivatives	Various	0.01	ND	µg/L
Mono-, di-and tri-octyltin derivatives	Various	0.01	ND	µg/L
Tricyclohexyltin (TCyHT)	Various	0.01	ND	µg/L
Dipropyltin compounds (DPT)	Various	0.01	ND	µg/L
Tetrabutyltin compounds (TeBT)	Various	0.01	ND	µg/L
Tripropyltin compounds (TPT)	Various	0.01	ND	µg/L
Tetraoctyltin compounds (TeOT)	Various	0.01	ND	µg/L
Tetraethyltin compounds (TeET)	Various	0.01	ND	µg/L

13. Phthalates

USEPA 8270E, ISO 18856 Dichloromethane extraction GC-MS

Phthalates	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	ND	µg/L
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	10	ND	µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND	µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND	µg/L
Di-iso-nonyl phthalate (DINP)	28553-12-0	10	ND	µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	ND	µg/L

Dibutyl phthalate (DBP)	84-74-2	10	ND	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	ND	µg/L
Diethyl phthalate (DEP)	84-66-2	10	ND	µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND	µg/L
Di-iso-butyl phthalate (DIBP)	84-69-5	10	ND	µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND	µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUF)	68515-42-4/ 68515-50-4	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C6-11-branched alkyl esters, C7-rich (DIHP)	71888-89-6/ 84777-06-0	10	ND	µg/L
Di-n-pentylphthalates	131-18-0	10	ND	µg/L
Diisopentylphthalates	605-50-5	10	ND	µg/L
Dinonyl phthalate (DNP)	84-76-4	10	ND	µg/L

14. Perfluorinated chemicals (PFCs)

PFCs: EPA 537:2020, FTOH: BS EN 12673-1999, EPA 8270, PFCs: LC-MSMS, FTOH: GC-MS derivatisation with acetic anhydride followed by GC-MS

Perfluorinated chemicals (PFCs)	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Perfluorooctane sulfonic acid (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	Various	0.01	ND	µg/L
Perfluorooctanoic acid (PFOA) related substances	Various	1	ND	µg/L

15. Polycyclic aromatic hydrocarbons (PAHs)

USEPA 8270E DIN 38407-39 solvent extraction GC-MS

Polycyclic aromatic hydrocarbons (PAHs)	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Benzo(a)pyrene (BaP)	50-32-8	1	ND	µg/L
Anthracene	120-12-7	1	ND	µg/L
Pyrene	129-00-0	1	ND	µg/L
Benzo(ghi)perylene	191-24-2	1	ND	µg/L
Benzo(e)pyrene	192-97-2	1	ND	µg/L
Indeno (1,2,3-cd)pyrene	193-39-5	1	ND	µg/L
Benzo(j)fluoranthene	205-82-3	1	ND	µg/L
Benzo(b)fluoranthene	205-99-2	1	ND	µg/L
Fluoranthene	206-44-0	1	ND	µg/L



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Benzo(k)fluoranthene	207-08-09	1	ND	µg/L
Acenaphthylene	208-96-8	1	ND	µg/L
Chrysene	218-01-9	1	ND	µg/L
Dibenz(a,h)anthracene	53-70-3	1	ND	µg/L
Benzo(a)anthracene	56-55-3	1	ND	µg/L
Acenaphthene	83-32-9	1	ND	µg/L
Phenanthrene	85-01-8	1	ND	µg/L
Fluorene	86-73-7	1	ND	µg/L
Naphthalene	91-20-3	1	ND	µg/L

16. Volatile organic compounds (VOCs)

ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D Add ISO 20595 Static headspace for determination of VOC in wastewater
 ISO 11423-1 Headspace or Purge and trap GC-MS EPA 8270 BS EN 12673-1999
 ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D
 HJ 1067 or EPA 8260D or ISO 11423-1

Volatile organic compounds (VOCs)	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Benzene	71-43-2	1	ND	µg/L
Xylene	1330-20-7	1	ND	µg/L
o-cresol	95-48-7	1	ND	µg/L
p-cresol	106-44-5	1	ND	µg/L
m-cresol	108-39-4	1	ND	µg/L
Toluene ^a	108-88-3	1	ND	µg/L

a = report only for mock leather, reporting limit does not apply for mock leather

17. Anti-Microbials & Biocides

USEPA 8270E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS BS EN 12673-1999
 USEPA 8270E Solvent extraction followed by GC-MS or ISO 14154:2005 and determination by LCMS/LCMSMS

Anti-Microbials & Biocides	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
o-Phenylphenol (+salts)	90-43-7	100	ND	µg/L
Triclosan	3380-34-5	100	ND	µg/L
Permethrin	Various	500	ND	µg/L



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18. Chlorinated Paraffins

EPA 3510 and analyzed by ISO18219-2:2021 Method for MCCP with GC-MS(NCI) or LC-MS/MS

EPA 3510 and analyzed by ISO18219-1:2021, ISO 12010:2019 Methods for SCCP with GC-MS(NCI) or LC-MS/MS

Chlorinated Paraffins	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Medium-chain chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	ND	µg/L
Short-chain chlorinated paraffins (C10-C13)	85535-84-8	25	ND	µg/L

19. N,N-di-methylformamide (DMFa)

EPA 8015, EPA 8270E

N,N-di-methylformamide (DMFa)	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Dimethyl formamide; N,N-dimethylformamide (DMFa) ^a	68-12-2	1000	ND	µg/L

a = report only for mock leather, reporting limit does not apply for mock leather

20. Dyes – Navy Blue Colourant

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

Dyes – Navy Blue Colourant	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Component 1: C ₃₉ H ₂₃ Cl-CrN ₇ O ₁₂ S ₂ 2Na	118685-33-9	500	ND	µg/L
Component 2: C ₄₆ H-30CrN ₁₀ O ₂₀ S ₂ 3Na	Not allocated	500	ND	µg/L

21. Other /Miscellaneous Chemicals

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

Determine as total boron and total zinc via ICP

Other /Miscellaneous Chemicals	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	ND	µg/L
Bisphenol A	80-05-7	10	ND	µg/L
Thiourea	62-56-6	50	ND	µg/L
Quinoline	91-22-5	50	ND	µg/L
Borate – borate, zinc salt	12767-90-7	100 ^b	ND	µg/L
Zinc salt – borate, zinc salt			ND	µg/L
Silica (used in sand blasting) ^c	14464-46-1	N/A	NA	µg/L

b = Limit refers to boron and zinc individually, not the salt

c = Not required to test this parameter as this is related to sand blasting

22. UV Absorbers

USEPA 8270 ISO 22032, USEPA 527 and USEPA 8321B.
Dichloromethane extraction GC-MS or LC-MS(-MS)

UV Absorbers	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	100	ND	µg/L
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100	ND	µg/L
2-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320)	3846-71-7	100	ND	µg/L
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	ND	µg/L

23. Sludge Parameters – Step 1 – Metals (Sludge Disposal Pathway = A)

With reference to EPA 3015A, 6020A, 200.8, 6020B, 3051A and ISO 17294-2 and analyzed by ICP-MS

Sludge Parameters - Metals	CAS no.	Reporting limit & LOQ	Result Sample 3 (Sludge)	Unit
Arsenic	-	5	7.7	mg/kg
Barium	-	200	ND	mg/kg
Cadmium	-	1	ND	mg/kg
Cobalt	-	400	ND	mg/kg
Copper	-	50	111.1	mg/kg
Lead	-	5	9.5	mg/kg
Nickel	-	20	172.9	mg/kg
Selenium	-	5	ND	mg/kg
Silver	-	50	ND	mg/kg
Total Chromium	-	50	365.5	mg/kg
Zinc	-	400	505.5	mg/kg
Chromium (VI)	-	20	ND	mg/kg
Mercury	-	1	1.8	mg/kg
Antimony	-	5	942.1	mg/kg



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24. Sludge Parameters – Step 1 - Anions

ISO 6703-1 & 2, ISO 14403-1 & 2, USEPA 335.2, APHA 4500-CN or HJ 484

Sludge Parameters - Anions	CAS no.	Reporting limit & LOQ	Result Sample 3 (Sludge)	Unit
Cyanide	-	20	ND	mg/kg

25. Sludge Parameters – Step 1 - Conventional

With reference to ISO 10523, EPA 150.2, APHA 4500-H+
USEPA 160.3
EPA SW-846 or EPA 9095B
EPA 1681

Sludge Parameters - Conventional	CAS no.	Reporting limit & LOQ	Result Sample 3 (Sludge)	Unit
pH	-	/	6.30	-
% Solids	-	/	32.9	%
Paint Filter Test	-	/	Pass	-
Fecal Coliform	-	/	34(S)	MPN/g

26. Sludge Parameters – Step 1 – MRSL – Alkylphenols (APs) and Alkylphenol Ethoxylates (APEOs): including all isomers

NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-MS), OPEO/NPEO (n>2): ASTM D7742 ISO 18857-2

Sludge Parameters – APs and APEOs	CAS no.	Reporting limit & LOQ	Result Sample 3 (Sludge)	Unit
Nonylphenol ethoxylates (NPEO)	Various	0.4	ND	mg/kg
Nonylphenol (NP), mixed isomers	Various	0.4	0.7	mg/kg
Octylphenol ethoxylates (OPEO)	Various	0.4	ND	mg/kg
Octylphenol (OP), mixed isomers	Various	0.4	ND	mg/kg

27. Sludge Parameters – Step 1 – MRSL – Polycyclic Aromatic Hydrocarbons (PAHs)

USEPA 8270E DIN 38407-39 Solvent extraction GC-MS

Sludge Parameters – PAHs	CAS no.	Reporting limit & LOQ	Result Sample 3 (Sludge)	Unit
Acenaphthene	83-32-9	0.2	ND	mg/kg
Acenaphthylene	208-96-8	0.2	ND	mg/kg
Anthracene	120-12-7	0.2	ND	mg/kg
Benzo[a]anthracene	56-55-3	0.2	ND	mg/kg
Benzo[a]pyrene (BaP)	50-32-8	0.2	ND	mg/kg



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Benzo[b]fluoranthene	205-99-2	0.2	ND	mg/kg
Benzo[e]pyrene	192-97-2	0.2	ND	mg/kg
Benzo[ghi]perylene	181-24-2	0.2	ND	mg/kg
Benzo[j]fluoranthene	205-82-3	0.2	ND	mg/kg
Benzo[k]fluoranthene	207-08-9	0.2	ND	mg/kg
Chrysene	218-01-9	0.2	ND	mg/kg
Dibenz[a,h]anthracene	53-70-3	0.2	ND	mg/kg
Fluoranthene	206-44-0	0.2	ND	mg/kg
Fluorene	86-73-7	0.2	ND	mg/kg
Indeno[1,2,3-cd]pyrene	193-39-5	0.2	ND	mg/kg
Naphthalene	91-20-3	0.2	ND	mg/kg
Phenanthrene	85-01-8	0.2	ND	mg/kg
Pyrene	129-00-0	0.2	ND	mg/kg

28. Sludge Parameters – Step 1 – MRSL – Chlorotoluenes

USEPA 8260D, 8270E, Purge and Trap, Head Space, Dichloromethane extraction followed by GC-MS

Sludge Parameters – Chlorotoluenes	CAS no.	Reporting limit & LOQ	Result Sample 3 (Sludge)	Unit
Isomers of mono-, di-, tri-, tetra- and penta chlorotoluene	Various	0.2	ND	mg/kg

29. Sludge Parameters – Step 2 – Metals

With reference to EPA 3015A, 6020A, 200.8, 6020B, 3051A and ISO 17294-2 and analyzed by ICP-MS

Sludge Parameters – Step 2 - Metals	CAS no.	LOQ	Reporting limit	Result Sample 4 (Leachate)	Unit
Antimony	-	0.6	/	ND	mg/L
Arsenic	-	0.5	/	NA	mg/L
Barium	-	35	/	NA	mg/L
Cadmium	-	0.15	/	NA	mg/L
Cobalt	-	80	/	NA	mg/L
Copper	-	10	/	NA	mg/L
Lead	-	0.5	/	NA	mg/L
Nickel	-	3.5	/	ND	mg/L
Selenium	-	0.5	/	NA	mg/L
Silver	-	5	/	NA	mg/L



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Total Chromium	-	5	/	ND	mg/L
Zinc	-	50	/	NA	mg/L
Chromium (VI)	-	2.5	/	NA	mg/L
Mercury	-	0.05	/	ND	mg/L

Remark

- | | | | | | |
|----|---|---|-----|---|---|
| ND | = | Not detected | NA | = | Not applicable |
| D | = | Detected | - | = | Did not perform |
| * | = | Not tested due to unreliable result | (f) | = | Parameter tested in field |
| @ | = | Maximum holding time exceeded,
Red flag in the ZDHC Gateway – Wastewater Module.
Probable error in results due to the holding time. | (T) | = | Handling temperature exceeded |
| | | | (S) | = | Analysis was subcontracted for testing - Bureau Veritas Science and Technology Service (Xi'an) Co., Ltd |

Annex A: Sampling photos & Sampling locations

Sample 1 – Sampling Point

N 30° 49' 03. 12", E 120° 42.39. 22"



Sample 1 – Labelled Sample Bottles

N 30° 49' 03. 12", E 120° 42.39. 22"



Sample 1 – Sample Packaging

N 30° 49' 03. 12", E 120° 42.39. 22"



Sample 1 – Sampling Point Surrounding Environment

N 30° 49' 03. 12", E 120° 42.39. 22"



Sample 1 – Sample for Phthalate Test

N 30° 49' 03. 12", E 120° 42.39. 22"



Annex A: Sampling photos & Sampling locations (continued)

Sample 2 – Sampling Point
N 30° 48' 46. 31", E 120° 42.48. 21"



Sample 2 – Labelled Sample Bottles
N 30° 48' 46. 31", E 120° 42.48. 21"



Sample 2 – Sample Packaging
N 30° 48' 46. 31", E 120° 42.48. 21"



Sample 2 – Sampling Point Surrounding Environment
N 30° 48' 46. 31", E 120° 42.48. 21"



Sample 2 – pH Measurement
N 30° 48' 46. 31", E 120° 42.48. 21"



Annex A: Sampling photos & Sampling locations (continued)

Sample 3 – Sampling Point
N 30° 48' 45. 11", E 120° 42.34. 13"



Sample 3 – Labelled Sample Bottles
N 30° 48' 45. 11", E 120° 42.34. 13"



Sample 3 – Sampling Point Surrounding Environment
N 30° 48' 45. 11", E 120° 42.34. 13"



Sample 3 – Sample Packaging
N 30° 48' 45. 11", E 120° 42.34. 13"






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Annex B: On-site Field Data Record Sheet

	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04
		Issue Date:
		Version No.: 17 Business Line: Analytical

General Data

Laboratory Sample Number: 66240570143

Client Name:

Field Contact Person: *[Signature]* Phone No: 13584264986

Project (Facility Name and Address): 嘉义市嘉德纤维有限公司 / 嘉义市贞白区嘉德路138号

Sampling Location / Description: 外区污水处理站

Sample Identification: GTW 2.1

Sample Type: Composite Sample / Grab Sample (Please circle as appropriate)

Name of Sampler: *[Signature]*

Discharge mode: Direct discharge to environment (Specify destination River, Sea, Stream,) OR Indirect discharge to sewage treatment plant

Date of collection: 2024. 2. 26

Factory Type: Dyeing / Printing / Washing / Finishing / Others (please specify):

*Note: It would be selected more than one

Field Data for Wastewater

Arrival Time:	9:37	Departure Time:	12:30	
Field Parameters	pH:	Temp: °C	Color:	Flow rate: (volume/time)
Control No. of field equipment				
Factory with effluent treatment plant:	Yes		No	
Sample matrix:	Incoming water (if required)			
	<input checked="" type="checkbox"/> Wastewater before treatment			
	<input type="checkbox"/> Wastewater after treatment - water at discharge point			
Sampler container number				
Recording time	ID	A2		
	Time	10:20		
pH:	9.5			
Temp (°C):	20.8			
Color (visual estimation):	12.2			
Flow rate (volume/time)				
Volume collected, ml	4.8L			
Total volume collected	4.8L	Remark: Total volume collected must be greater than total of sample size required		

Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)	Test required (Y)	Total of sample size	Type of container	Preservation method		
Combined test or Individual test (Remark 4)	1. Phthalate	✓	Amber Glass, washed with nitric acid.	Without adding acid Store sample at 2-8°C		
	2. Chlorobenzenes, Chlorotoluene & PAH	✓				
	3. SCCPs	✓				
	4. APS	✓				
5. APEOs	✓	100 mL				
6. Chlorophenols & Cresols	✓	100 mL				
7. Flame retardant	✓	500 mL				
8. Dyes	✓	10 mL				
9. Glycol	✓	50 mL				
10. *Pesticides		1000 mL				
11. *Nitrosamine		10 mL				
12. Banned Azodyes	✓	2000 mL				
13. *Free primary aromatic amines		500 mL				
14. Organotin Compounds	✓	500 mL				
15. UV absorbers	✓	100				
16. BPA	✓	2				
17. Preservatives	✓	52				
18. VOC & Halogenated Solvents (Remark 6)	✓	10 mL			PE, washed with pesticide grade Acetone	Fill to full container without air gap, acidity to pH 2 with HCl and store sample at 2-8°C Without adding acid Store sample at 2-8°C
19. PFCs (Remark 6)	✓	3 mL				



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Annex B: On-site Field Data Record Sheet (continued)

Table with 5 columns: Tests (Conventional Parameters), Test required (Y), Total of sample size, Type of container, and Preservation method. Rows include parameters like TSS, COD, Cr(VI), etc.

- Remarks:
1. Individual sampling can be performed upon request.
2. The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples.
3. Scope of ZDHC guideline: Parameter 1-9, 12, 14-29, 31-37, 39-43.

Recorded by: [Signature] Date: 2024.2.26

Comments from factory: 日排废水 4000m³ 车间废水 -> 中转池 -> 调节池 (中转池+调节池2000m³, 其中废水不经过处理)

Acknowledgment by factory: I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location.

Signature of Factory Representative: [Signature] Date: 2024.2.26





Annex B: On-site Field Data Record Sheet (continued)

	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPD-AN-00613-DATA 04 Issue Date: _____ Version No.: 17 Business Line: Analytical
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General Data	
Laboratory Sample Number:	66240570143
Client Name:	
Field Contact Person:	
Project (Facility Name and Address):	嘉兴中嘉塑料有限公司 / 嘉兴市南湖区新丰路128号
Sampling Location / Description:	外理后排水
Sample Identification:	0119
Sample Type:	Composite Sample / Grab Sample (Please define as appropriate)
Name of Sampler:	杨伟强
Discharge mode:	Direct discharge to surface water (Specify destination river, sea, stream) / Off-beat discharge or storage (specify place)
Date of collection:	2024. 2. 26
Factory Type:	Dyeing / Printing / Washing / Finishing / Others (Please specify)

Field Data for Wastewater							
Arrival Time:	9:30	Departure Time:	12:30				
Field Parameters:	pH:	Temp. °C:	Color:	Flow rate (volume/time):			
Control No. of field equipment:							
Factory with effluent treatment plant:	Yes			No			
Sample matrix:	Incoming water (if required)						
	Wastewater before treatment						
	Wastewater after treatment - water at discharge point						
Sampler container number							
Recording time	ID	1	2	3	4	5	6
	Time	A3					
pH:	11:10						
Temp (°C):	7.8						
Color (visual estimation):	18.8						
Flow rate (volume/time):							
Volume collected, mL:	0.75L						
Total volume collected:	0.75L	Remark: Total volume collected must be greater than total of sample size required					

Tests (ZDHC MRSL Parameters)		Test required (Y)	Total of sample size	Type of container	Preservation method	
Combined test or Individual test (Remark 4)	1. Phthalate		1000 mL total or 1000 mL each	Amber Glass, washed with nitric acid.	Without adding acid Store sample at 2-8°C	
	2. Chlorobenzenes, Chlorotoluene & PAH					
	3. SCCPs					
	4. APS					
5. APEOs		100 mL				
6. Chlorophenols & Cresols		100 mL				
7. Flame retardant		500 mL				
8. Dyes		10 mL				
9. Glycol		50 mL				
10. Pesticides		1000 mL				
11. Nitrosamine		10 mL				
12. Banned Azodyes		2000 mL				
13. Free primary aromatic amine		500 mL				
14. Organotin Compounds		500 mL				
15. UV absorbers		100				
16. BPA		2				
17. Preservatives		52				
18. VOC & Halogenated Solvents (Remark 6)		10 mL				
18. PFCE (Remark 6)		2 mL	PE, washed with pesticide grade Acetone	Without adding acid Store sample at 2-8°C		



Annex B: On-site Field Data Record Sheet (continued)

Tests (Conventional Parameters)	Test required (Y)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	20. Total suspended solids (TSS)	2000 mL total		
	21. Total dissolved solids (TDS)	2000 mL each	Amber Glass, washed with nitric acid	Without adding acid Store sample at 2-8°C
22. Sidley Biochemical Oxygen Demand (BOD5)		1000 mL		
23. Colour		100 mL		
24. Heavy Metals except Cr(VI) & Total-P (Remark 6)	✓	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO ₃ and store at 2-8°C
25. Cyanide		500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% H ₂ O ₂ , and store sample at 2-8°C
26. Cr(VI)	✓	35 mL		Filter by 0.45µm filter in field. Fill to full container without air gap, adjust pH to 8.0-8.5 by adding ammonium buffer. Store sample at 2-8°C
27. Chemical oxygen demand (COD)		100 mL		
28. Phenols		500 mL	Amber Glass, washed with nitric acid	Acidify to pH 2 with H ₂ SO ₄ Store sample at 2-8°C
29. Oil and Grease & Total Hydrocarbon		1000 mL		
30. *Formaldehyde		25 mL		Fill to full container without air gap, acidify to pH 2 with H ₂ SO ₄ and store sample at 2-8°C
31. Sulfide (Remark 5)		50 mL	PE, washed with pesticide grade Acetone	Fill to full container without air gap, add 2 drops of 3M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C
32. E.coli (Remark 6)		125 mL	PE, clean, sterile, non-reactive	Add 0.1 ml of 10% Na ₂ CO ₃ into in dark Store sample at 2-8°C
33. Persistent foam		N.A.		Foam higher than 45 cm (visual estimation): Yes / No
34. Sulfite		100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 3.0% EDTA Store sample at 2-8°C
35. Total-N		100 mL		
36. Ammonium-N		500 mL		Acidify to pH 2 with H ₂ SO ₄ Store sample at 2-8°C
37. Adsorbable organically bound halogens (AOX)		100 mL		Acidify to pH 2 with HNO ₃ and store at 2-8°C
38. Acute aquatic toxicity: Luminous Bacteria, Fish Egg, Daphnia, Algae		1000 mL	Amber Glass, washed with nitric acid	
39. Sulphate		100 mL		
40. Chloride		100 mL		Without adding acid Store sample at 2-8°C
41. Conductivity		100 mL		
42. Dissolved oxygen (DO)		7.91 mg/L		measure in field
43. Total Chlorine		0.01 mg/L		
44. Others:				
Observation/Remark: A3: 30°48'44.31" 120°42'48.21"				

- *Remarks:
- Individual sampling can be performed upon request
 - The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.
 - Scope of ZDHC guideline: Parameter 1-9, 12, 14-20, 31-37, 39-43
Scope of synthetic leather industry: Parameter 1-9, 12, 14-24, 26-29, 31-33, 35, 36, 39, 40
Scope of MMCF: Parameter 5, 18, 20, 22-24, 26-29, 31, 35-38
Free primary aromatic amines, pesticides, nitroamine and formaldehyde are not in the scope of ZDHC Guideline, they are tested upon request.
 - Refer to CPSD-AN-00019-STIP01, locations with those CPSD test capability inside TCD matrix can perform the combined test.
 - Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.
 - Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by: 杨伟强 Date: 2024.2.26

Comment from factory: 日排废水 400m³ 东排池 200m³

Acknowledgment by factory
I hereby confirmed that Bureau Veritas has completed the stated sampling activity at the specified time and location. All sample(s) is/are collected in designated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas shall be stored in a suitable cooler / fridge that is maintained in 1-8°C

Signatory of Factory Representative: 俞志强 Date: 2024.2.26



Annex B: On-site Field Data Record Sheet (continued)

Field Data for Sludges									
Arrival Time:	9:30			Departure Time:					12:30
Field Parameters:	pH:	Temp:	°C	Flow rate (volume/time) / sludge flux (weight/time):					
Control No. of field equipment:	标准EPA法								
Recording time	ID	1	2	3	4	5	6	7	8
	Time								
pH:									
Temp (°C):									
Flow rate (volume/time) / sludge flux (weight/time)									
Volume collected, mL									
Total volume collected	Remark: Total volume collected must be greater than total of sample size required								

Analysis Required and Preservation Method							
Factory with effluent treatment plant		Yes			No		
Sample matrix		Sludge in clarifier (sedimentation tank)					
Sampler container number	A4						
Recording time	11:30						
Tests (MRSL Parameter)	Test required (V)	Total of sample size	Type of container	Preservation method			
Combined test or Individual test (Remark 3)	1. Phthalate	✓	Amber Glass, washed with nitric acid	Add 0.2 mL of 10% Na ₂ S ₂ O ₅ (0.008% W/W). Store sample at 4°C			
	2. Chlorobenzenes, Chlorotoluene & PAHs	✓					
	3. SCCPs	✓					
	4. APS	✓					
5. APEOS	✓	20 g					
6. Flame retardant	✓	10 g					
7. Dyes	✓	10 g					
8. Glycols	✓	100 g					
9. Pesticides		20g					
10. Banned Azodyes	✓	20 g					
11. Free primary aromatic amines		10 g					
12. Chlorophenols & Cresols	✓	20 g					Acidify to -pH 2 with H ₂ SO ₄ . Add 0.02 mL of 10% Na ₂ S ₂ O ₅ (0.008% W/W). Store sample at 4°C
13. Organotin Compounds	✓	10 g					Fill to full container without any air gap and acid add and store at 4°C
14. VOC & Halogenated Solvents (Remark 5)	✓	10 g					Fill to full container without any air gap and acid add and store at 4°C
15. PFCs (Remark 5)	✓	10 g				PE, wash with pesticide grade acetone	Add 0.02 mL of 10% Na ₂ S ₂ O ₅ (0.008% W/W). Store sample at 4°C
Tests (Conventional Parameters)	Test required (V)	Total of sample size	Type of container	Preservation method			
16. Heavy Metals except Cr(VI) (Remark 5)	✓	0.2 g	PE, wash with nitric acid	Acidify to -pH 2 with HNO ₃ . Store sample at 4°C			
17. Cr(VI)	✓	2.5 g					
18. Adsorbable organically bound halogens (AOX)		1 g	Amber Glass, wash with nitric acid	Fill to full container without any air gap and acid add and store at 4°C			
19. Extractable organochlorides (EOX)		20 g					
20. Total organic carbon (TOC)		20 g					
21. Cyanide	✓	50 g	Amber Glass, wash with pesticide grade acetone	Adjust pH to 12-13 with 50% NaOH and store at 4°C			
22. Fecal Coliform	✓	20 g	PE, clean, sterile, non-reactive	Add 0.1 mL of 10% Na ₂ S ₂ O ₃ . Keep in dark. Store sample at 5-8°C			
23. % Solids		20 g	Amber Glass, wash with nitric acid	Acidify to -pH 2 with HNO ₃			



Report Number

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Annex B: On-site Field Data Record Sheet (continued)

24. Point Filter Test		20 g	Store sample at 4°C
25. Others			
Observation/Remark:	A4: 30°48'45.11" / 20°42'34.13"		

*Remarks:

1. Individual sampling can be performed upon request.
2. The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.
3. Scope of ZDHC guideline: Parameter 1, 2, 4, 5, 16-17, 21-24
Scope of synthetic leather industry: Parameter 7-8, 10, 12-17
Scope of MMCF: Parameter 16, 18-20
Free primary aromatic amine and pesticides are not in the scope of ZDHC Guideline, they are tested upon request.
4. Refer to CPSD-IN-000019-STIP01: Isoactions with those CPD test capability inside TCD matrix can perform the combined test.
5. Refer to CPSD-IN-00013-MTHD for preparation of field blank for specific parameters.



Annex C: Limit according to regulation / Contract limit with centralized ETP (if proceed)

当前位置: 水污染物排放信息审核

1、废水污染物排放许可限值

(1) 主要排放口

排放口编号	排放口名称	污染物种类	许可排放浓度限值 (mg/L)
DW001	废水排放口	化学需氧量	200mg/L
DW001	废水排放口	悬浮物	100mg/L
DW001	废水排放口	色度	80
DW001	废水排放口	苯胺类	1.0mg/L
DW001	废水排放口	总磷 (以P计)	1.5mg/L
DW001	废水排放口	二氧化氯	0.5mg/L
DW001	废水排放口	硫化物	0.5mg/L
DW001	废水排放口	流量	/
DW001	废水排放口	总锑	0.1mg/L
DW001	废水排放口	可吸附有机卤化物	12mg/L
DW001	废水排放口	总氮 (以Ni计)	30mg/L
DW001	废水排放口	氨氮 (NH3-N)	20mg/L
DW001	废水排放口	五日生化需氧量	50mg/L
DW001	废水排放口	pH值	6-9
主要排放口合计			CODcr
			氨氮
			总氮 (以Ni计)
