TEST REPORT

Technical Report/技术报告 **(6622)059-0290** March 14, 2022

Date Received 收到时间	February 28, 2022 2022 年 2 月 28 日
Factory Company Name 公司名称：	Hangzhou Jimay Printing & Dyeing Co.,Ltd 杭州集美印染有限公司
Factory Address 公司地址:	No.11 Meidong Road, Dangwan Town, Xiaoshan District, Hangzhou City, Zhejiang Province 浙江省杭州市萧山区党湾镇梅东路 11 号
Project No. 项目编号:	N/A
Client Reference No. 客户编号:	N/A
Sampling Method/采样方法:	I001) Incoming water/进水 – Grab/抓取* I002) Raw Wastewater 原始废水– 6 hours - Time – weighted Composite /6 小时加权混合*
Sample Pick Up Date 采样时间:	February 28, 2022 2022 年 2 月 28 日
Wastewater Discharge to/污水排放至:	Centralized ETP 集中污水处理装置
On-Site Effluent Treatment Plant (ETP) 是否有内部污水处理厂:	No 否
Discharge Type 排放类型:	Indirect Discharge 间接排放
Off-site ETP name (if applicable) 外部处理厂名称:	Hangzhou Xiaoshan Dangwan Sewage Treatment Co.,Ltd 杭州萧山党湾污水处理有限公司
Off-site ETP address (if applicable) 外部污水处理厂地址:	Dangwan Town, Xiaoshan District, Hangzhou City, Zhejiang Province 浙江省杭州市萧山区党湾镇
Local Regulation: / Ordinance / requirements related to wastewater discharged are followed: 当地法规：遵守与废水排放相关的条例/要求	N/A
Permit Validation Date: 批准日期:	22/12/2021
Parameters Exceeded Local Regulation 超出当地规定的参数:	N/A
Legal compliance: 合法合规:	Comply 符合
Conventional Parameters Overall Category: 常规参数:	Comply 符合
Test Period 测试周期:	February 28, 2022 to March 14, 2022 2022 年 2 月 28 日至 2022 年 3 月 14 日

Bureau Veritas
Consumer Products Services Division (Shanghai)
No. 168, GuangHua Road, Zhuanqiao Town, Minhang, Shanghai, China. Post Code: 201108
Tel: 86-21-24081888 Fax: 86-21-64890042
Email: bvcps_sh_info@cn.bureauveritas.com
Http: www.bureauveritas.com/cps

Sample Description
样品描述：

I001) Transparent liquid /透明液体– Incoming water/进水
I002) Light gray liquid/浅灰色液体– Raw Wastewater 原始废水

Parameters exceeded maximum holding time
参数超过最大保持时间:
N/A

REMARK/备注

If there are questions or concerns on this report, please contact the following persons:
若有任何疑问或咨询,可通过下述联络方式与我们联络

General enquiry and invoicing 常规咨询和发票	Mr. Henry Chen 陈佳杰先生 (021) 24081953 Henry.Chen@bureauveritas.com
Technical enquiry-Chemical 化学技术问题	Mr. Steven Han 韩政先生 (021) 24081838 Steven-Z.han@bureauveritas.com

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.
此报告所示为特定工厂审核时收集的化学助剂和/或原材料样品的结果，此报告的结果不得用于任何遵循法规的目的。

* The sampling is agreed with client.
采样已经过客户允许

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

Steven

PREPARED BY: Henry

Steven Han
Technical Manager

Executive Summary/执行摘要

1A) Conventional Parameters	**I001**	**I002**
Temperature/温度	NR	N/A
TSS /总悬浮固体		N/A
COD /化学需氧量		N/A
Total-N /总氮		N/A
pH Value /酸碱值		N/A
Color [m^{-1}] (436nm; 525nm; 620nm) /色度		N/A
BOD_5 /五日生化需氧量		N/A
Ammonium-N /氨态氮		N/A
Total-P /总磷		N/A
AOX /可吸附有机卤化物		N/A
Oil and Grease/油和油脂		N/A
Phenol /苯酚		N/A
Coliform /大肠菌群		N/A
Persistent Foam /泡沫		N/A
ANIONS - Cyanide/阴离子 - 氰化物		N/A
ANIONS - Sulfide /阴离子 - 硫化物		N/A
ANIONS - Sulfite /阴离子 - 亚硫酸盐		N/A
1B) Conventional Parameters – METALS 常规参数 - 金属	N/A	N/A

Note / Key 备注

- ☐ – Meet Foundational Limit/满足基本限值/Meet discharge license criteria/满足排放许可标准
- ■ – Exceeding Foundational Limit/超过基本限值/Exceeding discharge License criteria/超过排放许可标准
- NR – Not Requested / Not required/没有要求/不需要
- N/A – Not Applicable/不适用

ZDHC MRSL Substances	**I001**	**I002**
2A) APs and APEOs /烷基酚及烷基酚聚氧乙烯醚	NR	o
2B) Chlorobenzenes and Chlorotoluenes /氯化苯和氯甲苯	NR	o
2C) Chlorophenols/氯酚	NR	o
2D) Azo Dyes/偶氮染料	NR	o
2E) Carcinogenic Dyes/致癌染料	NR	o
2F) Disperse Dyes/分散染料	NR	o
2G) Flame Retardants/阻燃剂	NR	o
2H) Glycols/乙二醇	NR	o
2I) Halogenated Solvents/卤化溶剂	NR	o
2J) Organotin Compounds/有机锡化合物	NR	o
2K) Perfluorinated and Polyfluorinated Chemicals/全氟化合物和多氟化合物	•	•
2L) Phthalates/邻苯二甲酸盐	NR	o
2M) Poly Aromatic Hydrocarbons /多环芳香烃	NR	o
2N) Volatile Organic Compounds/挥发性有机化合物	NR	o

Note / Key 备注:

- • – Detected 有检出
- o – Not Detected 未检出
- NR – Not Requested/未要求测试
- N/A – Not Applicable/不适用

Objective

The environment samples were tested for below parameters.
1A) Conventional Parameters /常规参数
1B) Conventional Parameters – METALS/常规参数-重金属
2A) APs and APEOs/烷基酚及烷基酚聚氧乙烯醚
2B) Chlorobenzenes and Chlorotoluenes/氯化苯和氯甲苯
2C) Chlorophenols/氯酚
2D) Azo Dyes/偶氮染料
2E) Carcinogenic Dyes/致癌染料
2F) Disperse Dyes/分散染料
2G) Flame Retardants/阻燃剂
2H) Glycols/乙二醇
2I) Halogenated Solvents/卤化溶剂
2J) Organotin Compounds/有机锡化合物
2K) Perfluorinated and Polyfluorinated Chemicals/全氟化合物和多氟化合物
2L) Phthalates/邻苯二甲酸盐
2M) Poly Aromatic Hydrocarbons/多环芳香烃
2N) Volatile Organic Compounds/挥发性有机化合物

Sampling Plan

Basically, two environment samples were sampled per factory, including 1) Incoming water 2) Raw wastewater. Total number of sample collected will be depended on the actual factory facilities and manufacturing processes.
基本上，每个工厂采集的样品主要有两种，包括 1)进水 2）原污水。收集的样品总数将根据实际的工厂设施和生产工艺而定。

Method of sampling used is time-weighted composite grab samples (agreed with client.). Composite sampling shall be performed for no less than six hours, with no more than one hour between discrete samples. Each discrete sample shall be of equal volume. Wastewater and freshwater samples should, as much as possible, be collected simultaneously, during the time that PU is in normal operation. The sampling shall aim to analyse the snapshot of water quality characteristics of the operating PU. Under no circumstance shall samples be taken during times when the production process is not running or the wastewater is diluted due to heavy rainfall, etc.
采样方法是时间加权复合抓取采样方法(经客户同意)。混合采样时间应不低于 6 小时，且每次取样的间隔不超过 1 小时。每次取样应保持在同一体积。在工厂正常工作期间，尽可能多的同时采集废水和淡水样品。采样的目的是为了看到工厂在实际运行状态下水质的特点。而当处于生产流程没有运行或废水被大雨所稀释等情况下时不应采集样品

Remark/备注 :

- Sampling procedure is with reference to below standards 采样根据以下标准:
  1) South Australia EPA Guidelines (June 2007), Regulatory Monitoring and Testing Water and Wastewater Sampling.
  2) Australia EPA (Victoria) Guideline (June 2009), Sampling and Analysis of Waters, Wastewaters, Soils and Wastes.
  3) ISO 5667-3:2003, Water Quality - Sampling - Part 3: Guidance on the Preservation and Handling of Water Samples.
  4) ASTM D3976-92 (Reapproved 2010), Standard Practice for Preparation of Sediment Samples for Chemical Analysis.
- Field data records are attached in Appendix B/现场数据记录见附录 B.

Test Result/测试结果

1A) Conventional Parameters/常规参数

Temperature/温度

Test Method : Measurement by thermometer
测试方法 由温度计测量

Tested Item(s)	Result	Unit	Conclusion
I002	16.2	deg. C/ 摄氏度	DATA/数据

Note/注释:

deg. C = degree Celsius (°C)/摄氏度
Discharge License Criteria/排放标准: N/A

Total Suspended Solids (TSS)/ 总悬浮固体

Test Method : Reference to GB/T 11901
测试方法 参考 GB/T 11901

Tested Item(s)	Result	Unit	Conclusion
I002	17	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

Chemical Oxygen Demand (COD)/ 化学需氧量

Test Method : Reference to GB/T 11914
测试方法 参考 GB/T 11914

Tested Item(s)	Result	Unit	Conclusion
I002	145	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

Total Nitrogen (Total-N)/总氮

Test Method : Reference to HJ 636
测试方法 参考 HJ 636

Tested Item(s)	Result	Unit	Conclusion
I002	19.4	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

pH Value/酸碱值

Test Method : Reference to GB/T 6920
测试方法 参考 GB/T 6920

-	Unit	Result
Test Item(s)	-	I002
Parameter	-	-
Temp. of sample	deg. C	17.6
pH value of sample	-	7.8
Conclusion	-	DATA/数据

Note 注释:

Temp. = Temperature/温度 deg. C = degree Celsius (°C)/摄氏度
Discharge License Criteria/排放标准:. N/A

Color [m^{-1}] (436nm; 525nm; 620nm)/色度

Test Method : With reference to ISO 7887-B
测试方法 参考 ISO 7887-B

Tested Item(s)	Result	Unit	Conclusion
I002	20.0;13.6;10.7	m^{-1}	DATA/数据

Note 注释:
Discharge License Criteria/排放标准: N/A

Biochemical Oxygen Demand (BOD_5)/五日生化需氧量

Test Method : Reference to HJ 505
测试方法 参考 HJ 505

Tested Item(s)	Result	Unit	Conclusion
I002	48.0	mg/L/ 毫克/升	DATA/数据

Note 注释:
mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

Ammonium Nitrogen/氨态氮

Test Method : Reference to HJ 535
测试方法 参考 HJ 535

Tested Item(s)	Result	Unit	Conclusion
I002	6.53	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

Total Phosphorus (Total-P)/总磷

Test Method : Reference to GB/T 11893
测试方法 参考 GB/T 11893

Tested Item(s)	Result	Unit	Conclusion
I002	1.84	mg/L/ 毫克/升	DATA/数据

Note/注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

Adsorbable Organic Halogen (AOX)/ 可吸附有机卤化物

Test Method : Reference to HJ/T 83-2001
测试方法 参考 HJ/T 83-2001

Tested Item(s)	Result	Unit	Conclusion
I002	5.25	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

Oil and Grease/油和油脂

Test Method : Reference to HJ 637
测试方法 参考 HJ 637

Tested Item(s)	Result	Unit	Conclusion
I002	2.10	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

Phenol/苯酚

Test Method : Reference to HJ 503
测试方法 参考 HJ 503

Tested Item(s)	Result	Unit	Conclusion
I002	<0.0003	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

Coliform/大肠菌群

Test Method : Reference to GB/T 5750.12
测试方法 参考 GB/T 5750.12

Tested Item(s)	Result	Unit	Conclusion
I002	540	Bacteria /100 mL 细菌数/100 毫升	DATA/数据

Note 注释:

bacteria/100 mL = bacteria per 100 milliliters/每 100 毫升细菌数
Discharge License Criteria/排放标准: N/A

Persistent Foam/泡沫持久性

Test Method : Visual
测试方法 目测

Tested Item(s)	Result	Unit	Conclusion
I002	No foam / 无泡沫	-	DATA/数据

ANIONS – Cyanide 阴离子-氰化物

Test Method : Reference to HJ 484
测试方法 参考 HJ 484

Tested Item(s)	Result	Unit	Conclusion
I002	<0.02	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

ANIONS – Sulfide/阴离子-硫化物

Test Method : Reference to GB/T 16489
测试方法 参考 GB/T 16489

Tested Item(s)	Result	Unit	Conclusion
I002	<0.005	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

ANIONS – Sulfite/阴离子-亚硫酸盐

Test Method : Reference to ISO 10304-3
测试方法 参考 ISO 10304-3

Tested Item(s)	Result	Unit	Conclusion
I002	<0.2	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

1B) Conventional Parameters – METALS/ 常规参数-金属

Heavy Metals/重金属	**I001 (mg/L)**	**I002 (mg/L)**
Antimony(Sb) /锑 Discharge License Criteria/排放标准: N/A	0.006	0.029
Chromium(Cr), total/总铬 Discharge License Criteria/排放标准: N/A	0.002	0.011
Cobalt(Co) /钴 Discharge License Criteria/排放标准: N/A	ND	ND
Copper(Cu)/铜 Discharge License Criteria/排放标准: N/A	0.003	0.010
Nickel (Ni) /镍 Discharge License Criteria/排放标准: N/A	0.009	0.017
Silver (Ag) /银 Discharge License Criteria/排放标准: N/A	ND	ND
Zinc(Zn) /锌 Discharge License Criteria/排放标准: N/A	0.016	0.030
Arsenic (As) /砷 Discharge License Criteria/排放标准: N/A	0.002	0.009
Cadmium(Cd) /镉 Discharge License Criteria/排放标准: N/A	0.0004	0.0008
Chromium VI(CrVI)/六价铬 Discharge License Criteria/排放标准: N/A	ND	ND
Lead(Pb) /铅 Discharge License Criteria/排放标准: N/A	ND	0.002
Mercury (Hg) /汞 Discharge License Criteria/排放标准: N/A	0.00020	0.00031

2K) Perfluorinated and Polyfluorinated Chemicals/全氟化合物和多氟化合物

Perfluorinated and Polyfluorinated Chemicals/全氟化合物和多氟化合物	**I001*(ug/L)***	**I002 *(ug/L)***
Perfluorooctanesulfonic acid (PFOS)/ 全氟辛烷磺酸	ND	ND
Perfluoro-n-octanoic acid (PFOA)/ 全氟辛酸	0.25	0.21
Perfluorobutanesulfonic acid (PFBS)/ 全氟丁基磺酸	ND	ND
Perfluoro-n-hexanoic acid (PFHxA)/ 全氟己酸	ND	ND
8:2 FTOH/8:2-全氟辛基乙醇	ND	ND
6:2 FTOH/6: 2-全氟乙醇	ND	ND

Others Priority Chemical Groups/其他优先化学物质

	I001 ***(ug/L)***	**I002*(ug/L)***
2A) APs and APEOs/ 烷基酚及烷基酚聚氧乙烯醚	NR	ND
2B) Chlorobenzenes and Chlorotoluenes/ 氯化苯和氯甲苯	NR	ND
2C) Chlorophenols/氯酚	NR	ND
2D) Azo Dyes/偶氮染料	NR	ND
2E) Carcinogenic Dyes/致癌染料	NR	ND
2F) Disperse Dyes/分散染料	NR	ND
2G) Flame Retardants/阻燃剂	NR	ND
2H) Glycols/乙二醇	NR	ND
2I) Halogenated Solvents/卤化溶剂	NR	ND
2J) Organotin Compounds/有机锡化合物	NR	ND
2L) Phthalates/邻苯二甲酸盐	NR	ND
2M) Poly Aromatic Hydrocarbons/多环芳香烃	NR	ND
2N) Volatile Organic Compounds /挥发性有机化合物	NR	ND

Remark：

- Test method, reporting limit and list of chemical are summarized in tables of Appendix A.
  测试方法，限量值和化学列表在附录 A 中
- ND = Not detected (Please refer to reporting limit shown in Appendix A.).
  ND=未检出(请参考附录 A 中的报告限量值)
- All results are in ppb as unit.
  所有结果以 ppb 为单位
- ppm = part(s) per million; ppb = part(s) per billion.
  ppm = 百万分之一; ppb = 十亿分之一

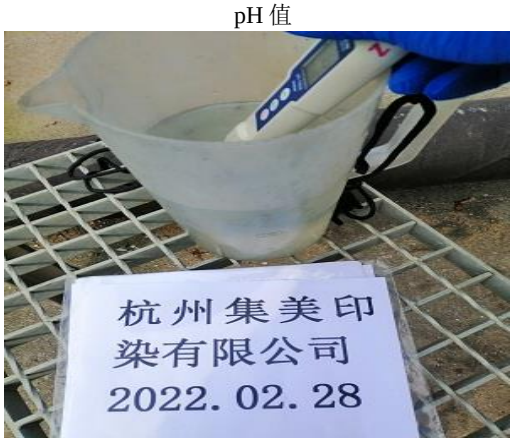
APPENDIX A - Photo of the Sample/ Sampling Location
样品照片/取样地照片

I001) Sampling Point
取样点
N 30º13’54”
E 120º32’28”

I001) Sampling Point Surrounding Environment
取样点周围环境
N 30º13’54”
E 120º32’28”

I001) All sampled bottles with label
全部带标签的取样瓶

I001) pH value
pH 值



I001) Sample for Phthalate Testing
邻苯测试样品

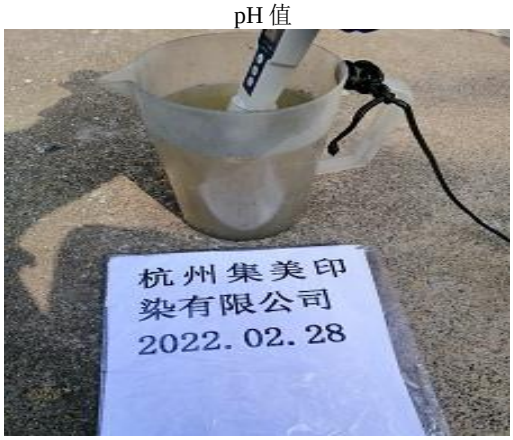
I001) Packaging
包装

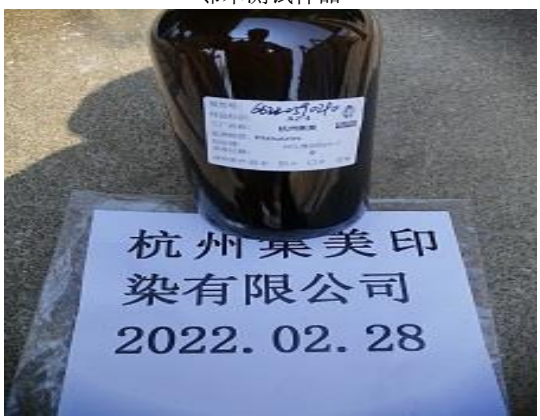
I002) Sampling Point
取样点
N 30º13’55”
E 120º32’28”

I002) Sampling Point Surrounding Environment
取样点周围环境
N 30º13’55”
E 120º32’28”

I002) All sampled bottles with label
全部带标签的取样瓶

I002) pH value
pH 值



I002) Sample for Phthalate Testing 邻苯测试样品	I002) Packaging 包装
	

APPENDIX B/附录 B

Group/组别	Substance (Testing parameter)物质(测试参数)	CAS No./化学物质登记号	Report Limit/报告限值		Name of the testing method/测试方法
			Wastewater/ 废水 (ug/L)/(ppb)	Sludge/ 污泥 (mg/kg) /(ppm)	
2A. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers/ 烷基酚及烷基酚聚氧乙烯醚包括同分异构体	Nonylphenol NP, mixed isomers/壬基苯酚及同分异构体	Various (incl. 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3)	5	0.4	NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC/MS or LC/MS(-MS) OPEO/NPEO: ISO18857-2 or ASTM D7065(LC/MS; GC/MS or LC/MSMS for n=1,2) APEO 1-18
	Octylphenol OP, mixed isomers/辛基苯酚及同分异构体	Various (incl. 140-66-9, 1806-26-4, 27193-28-8)	5	0.4	
	Octylphenol Ethoxylates (OPEO)/ 辛基酚乙烯醚	Various (incl. 9002-93-1, 9036-19-5, 68987-90-6)	5	0.4	
	Nonylphenol Ethoxylates (NPEO)/ 壬基酚乙烯醚	Various (inc. 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0)	5	0.4	
2B. Chlorobenzenes and Chlorotoluenes/ 氯化苯和氯甲苯	Monochlorobenzene/一氯苯	108-90-7	0.2	0.2	USEPA 8260B,8270D. Dichloromethane extraction followed by GC/MS
	1,2-Dichlorobenzene/ 1,2-二氯苯	95-50-1	0.2	0.2	
	1,3-Dichlorobenzene / 1,3-二氯苯	541-73-1	0.2	0.2	
	1,4-Dichlorobenzene / 1,4-二氯苯	106-46-7	0.2	0.2	
	1,2,3-Trichlorobenzene / 1,2,3-三氯苯	87-61-6	0.2	0.2	
	1,2,4-Trichlorobenzene / 1,2,4-三氯苯	120-82-1	0.2	0.2	
	1,3,5-Trichlorobenzene / 1,3,5-三氯苯	108-70-3	0.2	0.2	
	1,2,3,4-Tetrachlorobenzene/ 1,2,3,4-四氯苯	634-66-2	0.2	0.2	
	1,2,3,5-Tetraclorobenzene/ 1,2,3,5-四氯苯	634-90-2	0.2	0.2	
	1,2,4,5-Tetrachlorobenzene/ 1,2,4,5-四氯苯	95-94-3	0.2	0.2	
	Pentachlorobenzene 五氯苯	608-93-5	0.2	0.2	
	Hexachlorobenzene/ 六氯苯	118-74-1	0.2	0.2	
	2-Chlorotoluene /2-氯甲苯	95-49-8	0.2	0.2	
	3-Chlorotoluene /3-氯甲苯	108-41-8	0.2	0.2	
	4-Chlorotoluene /4-氯甲苯	106-43-4	0.2	0.2	
	2,3-Dichlorotoluene / 2,3-二氯甲苯	32768-54-0	0.2	0.2	
	2,4-Dichlorotoluene / 2,4-二氯甲苯	95-73-8	0.2	0.2	

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			Wastewater/ 废水 (ug/L)/(ppb)	Sludge/ 污泥 (mg/kg) /(ppm)	
	2,5-Dichlorotoluene/ 2,5-二氯甲苯	19398-61-9	0.2	0.2	
	2,6-Dichlorotoluene / 2,6-二氯甲苯	118-69-4	0.2	0.2	
	3,4-Dichlorotoluene / 3,4-二氯甲苯	95-75-0	0.2	0.2	
	3,5-Dichlorotoluene/ 3,5-二氯甲苯	25186-47-4	0.2	0.2	
	2,3,4-Trichlorotoluene / 2,3,4-三氯甲苯	7359-72-0	0.2	0.2	
	2,3,6-Trichlorotoluene / 2,3,6-三氯甲苯	2077-46-5	0.2	0.2	
	2,4,5-Trichlorotoluene / 2,4,5-三氯甲苯	6639-30-1	0.2	0.2	
	2,4,6-Trichlorotoluene / 2,4,6-三氯甲苯	23749-65-7	0.2	0.2	
	3,4,5-Trichlorotoluene / 3,4,5-三氯甲苯	21472-86-6	0.2	0.2	
	2,3,4,5-Tetrachlorotoluene 2,3,4,5-四氯甲苯	76057-12-0	0.2	0.2	
	2,3,5,6-Tetrachlorotoluene / 2,3,5,6-四氯甲苯	29733-70-8	0.2	0.2	
	2,3,4,6-Tetrachlorotoluene / 2,3,4,6-四氯甲苯	875-40-1	0.2	0.2	
	Pentachlorotoluene/五氯甲苯	877-11-2	0.2	0.2	
2C. Chlorophenols/ 氯酚	2-Chlorophenol/2-氯苯酚	95-57-8	0.5	0.05	USEPA 8270 D Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC/MS
	3-Chlorophenol/3-氯苯酚	108-43-0	0.5	0.05	
	4-Chlorophenol/4-氯苯酚	106-48-9	0.5	0.05	
	2,3-Dichlorophenol/ 2,3-二氯苯酚	576-24-9	0.5	0.05	
	2,4-Dichlorophenol/ 2,4-二氯苯酚	120-83-2	0.5	0.05	
	2,5-Dichlorophenol/ 2,5-二氯苯酚	583-78-8	0.5	0.05	
	2,6-Dichlorophenol/ 2,6-二氯苯酚	87-65-0	0.5	0.05	
	3,4-Dichlorophenol/ 3,4-二氯苯酚	95-77-2	0.5	0.05	
	3,5-Dichlorophenol/ 3,5-二氯苯酚	591-35-5	0.5	0.05	
	2,3,4-Trichlorophenol/ 2,3,4-三氯苯酚	15950-66-0	0.5	0.05	
	2,3,5-Trichlorophenol/ 2,3,5-三氯苯酚	933-78-8	0.5	0.05	
	2,3,6-Trichlorophenol/ 2,3,6-三氯苯酚	933-75-5	0.5	0.05	
	2,4,5-Trichlorophenol/	95-95-4	0.5	0.05	

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			Wastewater/ 废水 (ug/L)/(ppb)	Sludge/ 污泥 (mg/kg) /(ppm)	
	2,4,5-三氯苯酚				
	2,4,6-Trichlorophenol/ 2,4,6-三氯苯酚	88-06-2	0.5	0.05	
	3,4,5-Trichlorophenol/ 3,4,5-三氯苯酚	609-19-8	0.5	0.05	
	2,3,4,5-Tetrachlorophenol/ 2,3,4,5-四氯苯酚	4901-51-3	0.5	0.05	
	2,3,4,6-Tetrachlorophenol/ 2,3,4,6-四氯苯酚	58-90-2	0.5	0.05	
	2,3,5,6-Tetrachlorophenol 2,3,5,6-四氯苯酚	935-95-5	0.5	0.05	
	Pentachlorophenol (PCP)/ 五氯苯酚	87-86-5	0.5	0.05	
2D. Dyes - Azo (Forming Restricted Amines)	4,4`-Methylene-bis-(2-chloro-aniline)/ 4,4'-亚甲基-二-（2-氯苯胺）	101-14-4	0.1	0.2	EN 14362. Reduction step with Sodiumdithionite, solvent extraction, GC/MS or LC/MS
	4,4'-methylenedianiline/ 4,4`-二氨基二苯甲烷	101-77-9	0.1	0.2	
	4,4`-Oxydianiline/ 4,4'-二氨基二苯醚	101-80-4	0.1	0.2	
	4-Chloroaniline /4-氯苯胺	106-47-8	0.1	0.2	
	3,3`-Dimethoxybenzidine/ 3,3'-二甲氧基联苯胺	119-90-4	0.1	0.2	
	3,3`-Dimethylbenzidine/ 3,3'-二甲基联苯胺	119-93-7	0.1	0.2	
	6-methoxy-m-toluidine (p-Cresidine) /6-甲氧基间甲苯胺	120-71-8	0.1	0.2	
	2,4,5-Trimethylaniline/ 2,4,5-三甲基苯胺	137-17-7	0.1	0.2	
	4,4`-Thiodianiline/ 4,4'-二氨基二苯硫醚	139-65-1	0.1	0.2	
	4-Aminoazobenzene/ 4-氨基偶氮苯	60-09-3	0.1	0.2	
	4-Methyl-m-phenylenediamine/ 4-甲基间苯二胺	615-05-4	0.1	0.2	
	4,4`-Methylene-di-o-toluidine/ 4,4'-二甲基-邻甲苯胺	838-88-0	0.1	0.2	
	2,6-Xylidine/ 2,6-二甲基苯胺	87-62-7	0.1	0.2	
	o-Anisidine /邻氨基苯甲醚	90-04-0	0.1	0.2	
	2-Naphthylamine /2-萘胺	91-59-8	0.1	0.2	
	3,3`-Dichlorobenzidine/	91-94-1	0.1	0.2	

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			Wastewater/ 废水 (ug/L)/(ppb)	Sludge/ 污泥 (mg/kg) /(ppm)	
	3,3'-二氯联苯胺				
	4-Aminodiphenyl/ 4-氨基联苯	92-67-1	0.1	0.2	
	Benzidine /联苯胺	92-87-5	0.1	0.2	
	o-Toluidine /邻甲苯胺	95-53-4	0.1	0.2	
	2,4-Xylidine/ 2,4-二甲基苯胺	95-68-1	0.1	0.2	
	4-Chloro-o-toluidine/ 4-氯邻甲苯胺	95-69-2	0.1	0.2	
	4-Methyl-m-phenylenediamine/ 4-甲基间苯二胺	95-80-7	0.1	0.2	
	o-Aminoazotoluene/ 邻氨基偶氮甲苯	97-56-3	0.1	0.2	
	5-nitro-o-toluidine/ 5-硝基-邻甲苯胺	99-55-8	0.1	0.2	
2E. Dyes-Carcionogenic or Equivalent Concern	C.I. Direct Black 38/ C.I.直接黑 38	1937-37-7	500	10	Liquid Extraction LC/MS
	C.I. Direct Blue 6/ C.I.直接蓝 6	2602-46-2	500	10	
	C.I. Acid Red 26/ C.I.酸性红 26	3761-53-3	500	10	
	C.I. Basic Red 9/ C.I.碱性红 9	569-61-9	500	10	
	C.I. Direct Red 28/ C.I.直接红 28	573-58-0	500	10	
	C.I. Basic Violet 14/ C.I.碱性紫 14	632-99-5	500	10	
	C.I. Disperse Blue 1/ C.I.分散蓝 1	2475-45-8	500	10	
	C.I. Disperse Blue 3/ C.I.分散蓝 3	2475-46-9	500	10	
	C.I. Basic Blue 26 (with Michler's Ketone > 0.1%) / C.I. 碱性蓝 26 (米氏酮 > 0.1%)	2580-56-5	500	10	
	C.I. Basic Green 4 (malachite green chloride)/ C.I. 碱性绿 4(孔雀石绿氯化物)	569-64-2	500	10	
	C.I. Basic Green 4 (malachite green oxalate)/ C.I. 碱性绿 4(孔雀石绿草酸盐)	2437-29-8	500	10	
	C.I. Basic Green 4(malachite green)/ C.I. 碱性绿 4(孔雀石绿)	10309-95-2	500	10	
	Disperse Orange 11/	82-28-0	500	10	

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			Wastewater/ 废水 (ug/L)/(ppb)	Sludge/ 污泥 (mg/kg) /(ppm)	
	分散橙 11				
2F. Dyes-disperse (sensitizing)	Disperse Yellow 1 /分散黄 1	119-15-3	50	2	Liquid Extraction LC/MS
	Disperse Blue 102 /分散蓝 102	12222-97-8	50	2	
	Disperse Blue 106 /分散蓝 106	12223-01-7	50	2	
	Disperse Yellow 39 /分散黄 39	12236-29-2	50	2	
	Disperse Orange 37/59/76 /分散橙 37/59/76	13301-61-6	50	2	
	Disperse Brown 1 /分散棕 1	23355-64-8	50	2	
	Disperse Orange 1 /分散橙 1	2581-69-3	50	2	
	Disperse Yellow 3 /分散黄 3	2832-40-8	50	2	
	Disperse Red 11 /分散红 11	2872-48-2	50	2	
	Disperse Red 1 /分散红 1	2872-52-8	50	2	
	Disperse Red 17 /分散红 17	3179-89-3	50	2	
	Disperse Blue 7 /分散蓝 7	3179-90-6	50	2	
	Disperse Blue 26 /分散蓝 26	3860-63-7	50	2	
	Disperse Yellow 49 /分散黄 49	54824-37-2	50	2	
	Disperse Blue 35 /分散蓝 35	12222-75-2	50	2	
	Disperse Blue 124 / 分散蓝 124	61951-51-7	50	2	
	Disperse Yellow 9 / 分散黄 9	6373-73-5	50	2	
	Disperse Orange 3 / 分散橙 3	730-40-5	50	2	
	Disperse Blue 35 分散蓝 35	56524-77-7	50	2	
2G. Flame Retardants	Tris(2-chloroethyl) phosphate (TCEP) /三(2-氯乙基)磷酸酯	115-96-8	5	1	ISO 22032, USEPA527 and USEPA8321B. Dichloromethane extraction GC/MS or LC/MS(-MS)
	Decabromodiphenyl ether (DecaBDE) / 十溴联苯醚	1163-19-5	5	1	
	Tris(2,3-dibromopropyl) phosphate (TRIS/TDBPP) /三（2，3-二溴丙基）磷酸酯	126-72-7	5	1	

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			Wastewater/ 废水 (ug/L)/(ppb)	Sludge/ 污泥 (mg/kg) /(ppm)	
	Pentabromodiphenyl ether (PentaBDE) / 五溴联苯醚	32534-81-9	5	1	
	Octabromodiphenyl ether (OctaBDE) / 八溴联苯醚	32536-52-0	5	1	
	Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP) /二（2，3-二溴丙基）磷酸酯	5412-25-9	5	1	
	Tris(aziridinyl)-phosphineoxide (TEPA) /三-(氮环丙基)-膦化氧	545-55-1	5	1	
	Polybromobiphenyls (PBBs) /多溴联苯	59536-65-1	5	1	
	Tetrabromobisphenol A (TBBPA) / 四溴双酚 A	79-94-7	5	1	
	Hexabromocyclododecane (HBCDD) / 六溴环十二烷	3194-55-6	5	1	
	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP) /2,2-二(溴甲基)-1,3-丙二醇	3296-90-0	5	1	
	Tris(1,3-dichloro-isopropyl) phosphate (TDCP) /三(1,3-二氯异丙基)磷酸酯	13674-87-8	5	1	
	Short chain chlorinated paraffins (SCCPs) (C10-C13) /短链氯化石蜡	85535-84-8	5	1	
2H. Glycols	Bis(2-methoxyethyl)-ether / 二甘醇二甲醚	111-96-6	50	10	US EPA 8270 Liquid Extraction LC/MS
	2-ethoxyethanol / 乙二醇单乙醚	110-80-5	50	10	
	2-ethoxyethyl acetate / 乙二醇乙醚醋酸酯	111-15-9	50	10	
	Ethylene glycol dimethyl ether/ 乙二醇二甲醚	110-71-4	50	10	
	2-methoxyethanol / 乙二醇甲醚	109-86-4	50	10	
	2-methoxyethylacetate / 乙二醇甲醚乙酸酯	110-49-6	50	10	
	2-methoxypropylacetate/ 2-甲基丙醇乙酸酯	70657-70-4	50	10	

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			Wastewater/ 废水 (ug/L)/(ppb)	Sludge/ 污泥 (mg/kg) /(ppm)	
	Triethylene glycol dimethyl ether/ 三乙二醇二甲醚	112-49-2	50	10	
2I. Halogenated Solvents	1,2-Dichloroethane/ 1,2-二氯乙烷	107-06-2	1	2	USEPA 8260B Headspace GC/MS or Purgeand-Trap-GC/MS
	Methylene Chloride/ 二氯甲烷	75-09-2	1	2	
	Trichloroethylene/ 三氯乙烯	79-01-6	1	2	
	Tetrachloroethylene /四氯乙烯	127-18-4	1	2	
2J. Organotin Compounds	Mono-, di- and tri-methyltin derivatives/ 一,二,三-甲基锡衍生物	Multiple	0.01	0.2	ISO 17353 Derivatisation with NaB(C2H5) GC/MS
	Mono-, di- and tri-butyltin derivatives/ 一,二,三-丁基锡衍生物	Multiple	0.01	0.2	
	Mono-, di- and tri-phenyltin derivatives/ 一,二,三-苯基锡衍生物	Multiple	0.01	0.2	
	Mono-, di- and tri-octyltin derivatives/ 一,二,三-辛基锡衍生物	Multiple	0.01	0.2	
	Monomethyltin/ 一甲基锡	Multiple	0.01	0.2	
	Dimethyltin/ 二甲基锡	Multiple	0.01	0.2	
	Trimethyltin/ 三甲基锡	Multiple	0.01	0.2	
	Monobutyltin(MBT)/ 单丁基锡	Multiple	0.01	0.2	
	Dibutyltin (DBT)/ 二丁基锡	Multiple	0.01	0.2	
	Tributyltin(TBT)/ 三丁基锡	Multiple	0.01	0.2	
	Monophenyltin/ 单苯基锡	Multiple	0.01	0.2	
	Diphenyltin (DPhT)/ 二苯基锡	Multiple	0.01	0.2	
	Triphenyltin(TPhT)/ 三苯基锡	Multiple	0.01	0.2	
	Monooctyltin(MOT)/ 一辛基锡	Multiple	0.01	0.2	
	Dioctyltin(DOT)/ 二辛基锡	Multiple	0.01	0.2	
	Trioctyltin(TOT)/ 三辛基锡	Multiple	0.01	0.2	
2K. Perfluorinated and Polyfluorinated	Perfluorooctanesulfonic acid (PFOS)/	1763-23-1	0.01	0.10	DIN 38407-42 (modified)

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			Wastewater/ 废水 (ug/L)/(ppb)	Sludge/ 污泥 (mg/kg) /(ppm)	
Chemicals (PFCs)	全氟辛烷磺酸				Ionic PFC: Concentration or direct injection, LC/MS(-MS); Non-ionic PFC (FTOH): derivatisation with acetic anhydride, followed by GC/MS
	Perfluoro-n-octanoic acid (PFOA)/ 全氟辛酸	335-67-1	0.01	0.10	
	Perfluorobutanesulfonic acid (PFBS)/ 全氟丁基磺酸	29420-49-3, 29420-43-3	0.01	0.10	
	Perfluoro-n-hexanoic acid (PFHxA)/ 全氟己酸	307-24-4	0.01	0.10	
	8:2 FTOH/8:2-全氟辛基乙醇	678-39-7	1	1	
	6:2 FTOH/6: 2-全氟乙醇	647-42-7	1	1	
2L. Phthalates (including all other esthers of phthalic acid)/ 苯二甲酸盐（包括其他邻苯而甲酸醚类）	Di-2-ethylhexyl phthalate (DEHP)/ 邻苯二甲酸二（2-乙基己基酯）	117-81-7	10	2	US EPA 8270D, ISO 18856 Dichloromethane extraction GC/MS
	Dimethoxyethyl phthalate (DMEP)/ 邻苯二甲酸二甲氧基乙酯	117-82-8	10	2	
	Di-n-octyl phthalate (DNOP)/ 邻苯二甲酸二辛酯	117-84-0	10	2	
	Di-iso-decyl phthalate (DIDP)/ 邻苯二甲酸二异葵酯	26761-40-0	10	2	
	Di-iso-nonyl phthalate (DINP)/ 邻苯二甲酸二异壬酯	28553-12-0	10	2	
	Di-n-hexyl phthalate (DnHP)/ 邻苯二甲酸二己酯	84-75-3	10	2	
	Dibutyl phthalate (DBP)/ 邻苯二甲酸二丁酯	84-74-2	10	2	
	Butyl benzyl phthalate (BBP)/ 邻苯二甲酸丁苄酯	85-68-7	10	2	
	Dinonyl phthalate (DNP)/ 邻苯二甲酸二壬酯	84-76-4	10	2	
	Diethyl phthalate (DEP)/ 邻苯二甲酸二乙酯	84-66-2	10	2	
	Di-n-propyl phthalate (DPRP)/ 邻苯二甲酸二丙酯	131-16-8	10	2	
	Di-iso-butyl phthalate (DIBP)/ 邻苯二甲酸二异丁酯	84-69-5	10	2	
	Di-cyclohexyl phthalate (DCHP)/	84-61-7	10	2	

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			Wastewater/ 废水 (ug/L)/(ppb)	Sludge/ 污泥 (mg/kg) /(ppm)	
	邻苯二甲酸二环己酯				
	Di-iso-octyl phthalate (DIOP)/ 邻苯二甲酸二异辛酯	27554-26-3	10	2	
	1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)/ 邻苯二酸-二(C7-C11 支链与直链)	68515-42-4	10	2	
	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)/ 邻苯二甲酸二支链烷基酯	71888-89-6	10	2	
2M. Poly Aromatic Hydrocarbons (PaHs) /多环芳香烃	Benzo[a]pyrene (BaP) / 苯并芘	50-32-8	1	0.2	DIN 38407-39 Solvent extraction GC/MS
	Anthracene /蒽	120-12-7	1	0.2	
	Pyrene /芘	129-00-0	1	0.2	
	Benzo[ghi]perylene / 苯并[g,h,i] 芘	191-24-2	1	0.2	
	Benzo[e]pyrene / 苯并[e]芘	192-97-2	1	0.2	
	Indeno[1,2,3-cd]pyrene / 茚并(1,2,3-cd)芘	193-39-5	1	0.2	
	Benzo[j]fluoranthene / 苯并[j]荧蒽	205-82-3	1	0.2	
	Benzo[b]fluoranthene / 苯并[b]荧蒽	205-99-2	1	0.2	
	Fluoranthene /荧蒽	206-44-0	1	0.2	
	Benzo[k]fluoranthene / 并[k]荧蒽	207-08-9	1	0.2	
	Acenaphthylene /苊	208-96-8	1	0.2	
	Chrysene /屈	218-01-9	1	0.2	
	Dibenz[a,h]anthracene / 二苯并[a,h]蒽	53-70-3	1	0.2	
	Benzo[a]anthracene/ 苯并[a]蒽	56-55-3	1	0.2	
	Acenaphthene /二氢苊	83-32-9	1	0.2	
	Phenanthrene /菲	85-01-8	1	0.2	
	Fluorene /芴	86-73-7	1	0.2	
	Naphthalene /萘	91-20-3	1	0.2	
2N. Volatile Organic Compound (VOCs) / 挥发性有机化合物	Benzene /苯	71-43-2	1	2	ISO 11423-1 Headspace- or Purge-and-Trap-GC/MS
	Xylene /二甲苯	1330-20-7	1	2	
	o-cresol /邻甲苯酚	95-48-7	1	2	
	p-cresol /对甲苯酚	106-44-5	1	2	
	m-cresol /间甲苯酚	108-39-4	1	2	
1A. Conventional	Temperature/温度	—	N/A	N/A	Apply the standard

Group/组别	Substance (Testing parameter)物质(测试参数)	CAS No./化学物质登记号	Report Limit/报告限值		Name of the testing method/测试方法
			Wastewater/ 废水 (ug/L)/(ppb)	Sludge/ 污泥 (mg/kg) /(ppm)	
Parameters /常规参数	TSS/总悬浮固体	–	N/A	N/A	methods that best apply to the region (ISO, EU, US, China), please refer to ZDHC Wastewater Guidelines for more details on the testing method and the levels (Foundational, Progressive, and Aspirational). Cyanide: With reference to APHA 4500 CN—B,C&E and followed by UV analysis
	COD/化学需氧量	–	N/A	N/A	
	Total-N/总氮	–	N/A	N/A	
	pH/酸碱值	–	N/A	N/A	
	Color [m^{-1}] (436nm; 525nm; 620nm)/色度	–	N/A	N/A	
	BOD_5/五日生化需氧量	–	N/A	N/A	
	Ammonium-N/氨态氮	–	N/A	N/A	
	Total-P/总磷	–	N/A	N/A	
	AOX/可吸附有机卤化物	–	N/A	N/A	
	Oil and Grease/油和油脂	–	N/A	N/A	
	Phenol/苯酚	–	N/A	N/A	
	Coliform(bacteria/100ml)/大肠菌群	–	N/A	N/A	
	Persistent Foam/泡沫持久性	–	Not visible	Not visible	
	ANIONS				
	Cyanide(CN-)/氰化物	Various (incl. 57-12-5)	0.02	1	
	Sulfide/硫化物	–	N/A	N/A	
	Sulfite/亚硫酸盐	–	N/A	N/A	

Group /组别	Substance (Testing parameter)/物质（测试参数）	CAS No.	Report Limit		Name of the testing method
			Wastewater (mg/L) / (ppm)	Sludge (mg/kg) / (ppm)	
1B. Conventional Parameters - **METALS/常规参数-重金属**	Antimony(Sb)/锑	7440-36-0	0.001	N/A	Various Acid Digestion with ICP analysis please refer to ZDHC Wastewater Guidelines for more details on the testing method and the levels (Foundational, Progressive, and Aspirational). Cr(VI): Various Solvent extraction and derivatisation followed by UV analysis
	Chromium(Cr), total/总铬	7440-47-3	0.001	N/A	
	Cobalt(Co)/钴	7440-48-4	0.001	N/A	
	Copper(Cu)/铜	7440-50-8	0.001	N/A	
	Nickel (Ni)/镍	7440-02-0	0.001	N/A	
	Silver (Ag)/银	7440-22-4	0.001	N/A	
	Zinc(Zn)/锌	7440-66-6	0.001	N/A	
	Arsenic (As)/砷	7440-38-2	0.001	2	
	Cadmium(Cd)/镉	7440-43-9	0.0001	2	
	Chromium VI(CrVI) /六价铬	18540-29-9	0.001	2	
	Lead(Pb)/铅	7439-92-1	0.001	2	
	Mercury (Hg)/汞	7439-97-6	0.00005	0.2	
3. Conventional Parameters/常规参数	Dry mass (total solids)/ 干质量（总固体）	–	N/A	N/A	US EPA 160.3 / 209A

Note / Key :

ppm = part(s) per million; ppb = part(s) per billion
U. S. EPA = United States Environmental Protection Agency/美国国家环境保护局
APHA = American Public Health Association/美国公共卫生协会

APPENDIX C/附录 C – Onsite Field Data Record Sheet/现场数据记录表

FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04
	Issue Date:
	Version No.: 11
	Business Line: Analytical

General Data

Laboratory Sample Number:	6622059 0290
Client Name:	
Field Contact Person:	徐祥 Phone No: 13738076779 0571-22802762
Project (Facility Name and Address):	杭州荣天印染有限公司/浙江省杭州市萧山区宁波路 杭宁路 11号
Sampling Location / Description:	污水取样口
Sample identification:	Zero discharge with sampling plan
Sample Type:	Composite Sample / Grab sample (Please delete as appropriate)
Name of Sampler:	龙菊明
Discharge mode:	Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant
Date of collection:	2022-2-28
Factory Type:	Dyeing / Printing / Washing / Finishing / Others (please specify):

*Note: It would be selected more than one

Field Data for Wastewater

Arrival Time:		9:20	Departure Time:		15:45			
Field Parameters		pH: 8.26	Temp: 15.4 °C		Color:		Flow rate: (volume/min)	
Control No. of field equipment		CA-002142	CA-002142					
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		A1						
		1	2	3	4	5	6	7	8
Recording time	ID	A1							
	Time	9:50							
pH:		8.23							
Temp (°C):		15.4							
Color:		无色							
Flow rate (volume/time)		/							
Volume collected, mL		48L							
Total volume collected		48L	Remark: Total volume collected must be greater than total of sample size required						

Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)		Test required (✓)	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, rinsed thoroughly with distilated water and dried before use	Without adding acid Store sample at 6°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	Amber Glass, washed with nitric acid; Pre-add 6.5 mL of 2M HCl	Acidify to pH 2 with HCl and store sample at 6°C
15. VOC & Halogenated Solvents (Remark 6)		✓	10 mL		Fill to full container without air gap; acidify to pH 2 with HCl and store sample at 6°C
16. PFCs		✓	2 mL	PE, washed with pesticide grade Acetone	Without adding acid Store sample at 6°C

Tests (Conventional Parameters)		Test required (√)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	17. Total suspened solids (TSS)		2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid, rinsed thoroughly with distillated water and dried before use	Without adding acid Store sample at 6°C
	18. *Total dissolved solids (TDS)				
19. 5-day Biochemical Oxygen Demand (BOD5)			1000 mL		
20. Heavy Metals except Cr(VI) & Total-P (Remark 6)		√	9 mL	PE, washed with nitric acid, pre-add 6.5mL of 2M HNO_3	Acidify to pH 2 with HNO_3 and store at 6°C
21. Cr(VI)		√	95 mL	Amber Glass, washed with pesticide grade acetone	Filter by 0.45μm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 6°C
22. Cyanide		√	500 mL		Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% $Na_2S_2O_3$, and store sample at 6°C
23. Chemical oxygen demand (COD)			150 mL	Amber Glass;washed with nitric acid; Pre-add 6.5 mL of 2M H_2SO_4	Acidify to pH 2 with H_2SO_4 Store sample at 6°C
24. Phenols			500 mL		
25. *Formaldehyde			25 mL		Fill to full container without air gap; acidify to pH 2 with H2SO4 and store sample at 6°C
26. Sulfide (Remark 5)			50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 6°C
27. Adsorbable organically bound halogens (AOX)			100 mL	Amber Glass, washed with nitric acid, pre-add 6.5mL of 2M HNO_3	Add 0.05 ml of 10% $Na_2S_2O_3$, acidify to pH 2 with H_2SO_4, Store sample at 6°C
28. Total Coliform (Remark 6)			125 mL	PE, clean, sterile, non-reactive	
29. Persistent foam			N.A.	Foam higher than 46 cm (Visual estimation): Yes / No	
30. Sulfite			100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 6°C
31. Total-N			100 mL	Amber Glass with wide-mouth PTFE lid;washed with nitric acid; Pre-add 6.5 mL of 2M H2SO4	Acidify to pH 2 with H2SO4 Store sample at 6°C
32. Ammonium-N			500 mL		
33. Oil and Grease			1000 mL	Amber Glass;washed with nitric acid; Pre-add 6.5 mL of 2M H2SO4	
34. Total Hydrocarbon			1000 mL		
35. Luminus Bacteria Toxicity			1000 mL	Amber Glass, washed with nitric acid, rinsed thoroughly with distillated water and dried before use	Without adding acid Store sample at 6°C
36. Sulphate			100 mL		
37. Chloride			100 mL		
38. Others:					
Observation/ Remark:					

*Remarks:

1. Individual sampling can be performed upon request
2. The minimum sampling time for 2016 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, 4-9, 12, 14-17, 19-24, 26-33
   Scope of synthetic leather industry: Parameter 1, 2, 4-9, 12, 14-17, 19-33
   Scope of MMCF: Parameter 4, 5, 17, 19-24, 26, 27, 31-37
   Free primary aromatic amine, pesticides, nitrosamine and TDS are not in the scope of ZDHC Guidline, they are tested upon request.
4. Refer to CPSD-AN-G00019-STIP01, locations with those CPSD test capability inside TCD matrix can perform the combined test.
5. Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.
6. Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by: 孟菊娟 Date: 2022.2.28
Full name:

Comment from factory 出水 30°13'54" 120°32'28"

Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in desinated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintained in 1-6°C

Signatory of Factory Representative: Date: 2022. 2. 28
Full Name:

	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04
		Issue Date:
		Version No.: 11
		Business Line: Analytical

General Data

Laboratory Sample Number: 6622059 0290

Client Name:

Field Contact Person: 徐先生 Phone No: 13738076779 0571-22802762

Project (Facility Name and Address): 杭州[illegible]/浙江省杭州市萧山区[illegible]号

Sampling Location / Description: [illegible]

Sample Identification: Zero discharge with sampling plan

Sample Type: Composite Sample / Grab sample (Please delete as appropriate)

Name of Sampler: [illegible]

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

Date of collection: 2022.2.28

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

*Note: It would be selected more than one

Field Data for Wastewater

Arrival Time:		9:20	Departure Time:		15:45			
Field Parameters		pH:	Temp: °C		Color:		Flow rate: (volume/min)	
Control No. of field equipment		CA-002/1/2	CA-002/1/2					
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		A2	A2	A2	A2	A2	A2	A2
		1	2	3	4	5	6	7	8
Recording time	ID	A2	A2	A2	A2	A2	A2	A2	
	Time	9:30	10:30	11:30	12:30	13:30	14:30	15:30	
pH:		8.54	8.51	8.73	8.68	8.91	8.83	8.85	
Temp (°C):		14.8	14.9	15.1	15.2	16.1	16.2	16.2	
Color:		清澈	清澈	清澈	清澈	清澈	清澈	清澈	
Flow rate (volume/time)		—	—	—	—	—	—	—	
Volume collected, mL		1.5L	1.5L	1.5L	1.5L	2.5L	1.5L	1.5L	
Total volume collected		10.4L	Remark: Total volume collected must be greater than total of sample size required						

Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)		Test required (√)	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, rinsed thoroughly with distillated water and dried before use	Without adding acid Store sample at 6°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	Amber Glass, washed with nitric acid; Pre-add 6.5 mL of 2M HCl	Acidify to pH 2 with HCl and store sample at 6°C
15. VOC & Halogenated Solvents (Remark 6)		✓	10 mL		Fill to full container without air gap; acidify to pH 2 with HCl and store sample at 6°C
16. PFCs		✓	2 mL	PE, washed with pesticide grade Acetone	Without adding acid Store sample at 6°C

Tests (Conventional Parameters)		Test required (v)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	17. Total suspened solids (TSS)	✓	2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid, rinsed thoroughly with distillated water and dried before use	Without adding acid Store sample at 6°C
	18. *Total dissolved solids (TDS)				
19. 5-day Biochemical Oxygen Demand (BOD5)		✓	1000 mL		
20. Heavy Metals except Cr(VI) & Total-P (Remark 6)		✓	9 mL	PE, washed with nitric acid, pre-add 6.5mL of 2M HNO_3	Acidify to pH 2 with HNO_3 and store at 6°C
21. Cr(VI)		✓	95 mL	Amber Glass, washed with pesticide grade acetone	Filter by 0.45μm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 6°C
22. Cyanide		✓	500 mL		Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% $Na_2S_2O_3$, and store sample at 6°C
23. Chemical oxygen demand (COD)		✓	150 mL	Amber Glass;washed with nitric acid; Pre-add 6.5 mL of 2M H_2SO_4	Acidify to pH 2 with H_2SO_4 Store sample at 6°C
24. Phenols		✓	500 mL		
25. *Formaldehyde			25 mL		Fill to full container without air gap; acidify to pH 2 with H2SO4 and store sample at 6°C
26. Sulfide (Remark 5)		✓	50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 6°C
27. Adsorbable organically bound halogens (AOX)		✓	100 mL	Amber Glass, washed with nitric acid, pre-add 6.5mL of 2M HNO_3	Add 0.05 ml of 10% $Na_2S_2O_3$, acidify to pH 2 with H_2SO_4, Store sample at 6°C
28. Total Coliform (Remark 6)		✓	125 mL	PE, clean, sterile, non-reactive	
29. Persistent foam		✓	N.A.	Foam higher than 45 cm (visual estimation): Yes / No	
30. Sulfite		✓	100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 6°C
31. Total-N		✓	100 mL	Amber Glass with wide-mouth PTFE lid;washed with nitric acid; Pre-add 6.5 mL of 2M H2SO4	Acidify to pH 2 with H2SO4 Store sample at 6°C
32. Ammonium-N		✓	500 mL		
33. Oil and Grease		✓	1000 mL	Amber Glass;washed with nitric acid; Pre-add 6.5 mL of 2M H2SO4	
34. Total Hydrocarbon			1000 mL		
35. Luminus Bacteria Toxicity			1000 mL	Amber Glass, washed with nitric acid, rinsed thoroughly with distillated water and dried before use	Without adding acid Store sample at 6°C
36. Sulphate			100 mL		
37. Chloride			100 mL		
38. Others:					
Observation/ Remark:					

*Remarks:

1.Individual sampling can be performed upon request

2. The minimum sampling time for 2016 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, 4-9, 12, 14-17, 19-24, 26-33

Scope of synthetic leather industry: Parameter 1, 2, 4-9, 12, 14-17, 19-33

Scope of MMCF: Parameter 4, 5, 17, 19-24, 26, 27, 31-37

Free primary aromatic amine, pesticides, nitrosamine and TDS are not in the scope of ZDHC Guidline, they are tested upon request.

4. Refer to CPSD-AN-G00019-STIP01, loactions with those CPSD test capability inside TCD matrix can perform the combined test.

5. Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.

6. Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by: 元智明 Date: 2022.2.28

Full name:

Comment from factory 如附件 30°13'55" 120°32.28"

Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in desinated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintained in 1-6°C

Signatory of Factory Representative: Date: 2022 2.28

Full Name:

APPENDIX D/附录 D – Limitation Value of Legal Requirements/法律要求限值

杭排污权登 330109310308 号

一、企业基本信息

排污权人名称	杭州集美印染有限公司		
地址	萧山区党湾镇梅东村		
法定代表人	潘仁昌	联系电话	22808000
组织机构代码	76202890-7	行业类型	纺织印染
行政区域	萧山区	指标归属地	萧山区
开户银行	萧山建行党湾分理处		
银行账号	33001617084056000198		
联系人	廖金财	联系电话	13588292874

二、排污权指标登记情况

排污权指标：化学需氧量

交易类型	数量(吨)	单价（元）	总价（元）	交易日期（年/月/日）	累计持有数量(吨)	登记日期（年/月/日）
初始	41.69	42000	1750980	2015-4-30	41.69	2015-4-30

二、排污权指标登记情况（续一）

排污权指标： **氨氮**

交易类型	数量(吨)	单价（元）	总价（元）	交易日期（年/月/日）	累计持有数量(吨)	登记日期（年/月/日）
初始	1.74	14000	24360	2015-4-30	1.74	2015-4-30

二、排污权指标登记情况（续二）

排污权指标：二氧化硫

交易类型	数量(吨)	单价（元）	总价（元）	交易日期（年/月/日）	累计持有数量(吨)	登记日期（年/月/日）
初始	4.05	14000	56700	2015-4-30	4.05	2015-4-30

二、排污权指标登记情况（续三）

排污权指标：**氮氧化物**

交易类型	数量(吨)	单价（元）	总价（元）	交易日期（年/月/日）	累计持有数量(吨)	登记日期（年/月/日）
初始	12.16	21000	255360	2015-4-30	12.16	2015-4-30

附 记

登记机构（盖章）：

发证日期:2015 年 05 月 08 日

杭州市环境保护局
主要污染物排放权交易专用章

杭州市主要污染物排放权登记服务有限公司
登记专用章