

TEST REPORT

Technical Report 技术报告:

(6622)179-0360

July 13, 2022

Page 1 of 29 Date Received June 28, 2022 收到时间: 2022年6月28日 Factory Company Name Hangzhou Xinyuan Printing & Dyeing Co.,Ltd 公司名称: 杭州欣元印染有限公司 Factory Address: No.158 Zhenzhong Road, Dangwan Town, Xiaoshan District, Hangzhou City 工厂地址: 杭州市萧山区党湾镇镇中路 158 号 Project No .: N/A 项目编号: Client Reference No .: N/A 客户编号: Sample 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: June 28, 2022 采样时间: 2022年6月28日 **On-Site Effluent Treatment** Plant (ETP): No 现场污水处理装置(ETP): 否 Indirect Discharge Discharge Type: 排放类型: 间接排放 Wastewater Discharge to: Centralized ETP 废水排放至: 集中污水处理装置 Off-site ETP name (if applicable): Dangwan sewage treatment Co., Ltd 非现场污水处理装置(ETP) 党湾污水处理有限公司 名称: Off-site ETP address (if applicable): Dangwan Town, Xiaoshan District, Hangzhou City 非现场污水处理装置(ETP) 杭州市萧山区党湾镇 地址: Test Period: June 28, 2022 to July 13, 2022 测试周期: 2022年6月28日至2022年7月13日 Sample Description:

样品描述:

I001) Colorless liquid /无色液体 – Incoming water/进水

I002) Light blue liquid /淡蓝色液体- Raw Wastewater/原始废水

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(6622)179-0360 July 13, 2022 Page 2 of 29

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 Mr. Henry Chen 常规咨询和发票 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 environment samples of above factory which collected on specific date and time. The results of this report shall not be used for any regulatory compliance purposes. 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,(Client refers to factory) as requsted by factory. 采样已经过客户允许,(客户指工厂)按工厂要求

Henry

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

PREPARED BY:

Steven Han **Technical Manager**



(6622)179-0360 July 13, 2022 Page 3 of 29

Executive Summary/执行摘要

1A) Conventional Parameters/常规参数	I001	1002
Temperature/温度		N/A
TSS/总悬浮固体		
COD/化学需氧量		
Total-N/总氮		
pH Value/酸碱值		
Color [m ⁻¹] (436nm; 525nm; 620nm)/色度		N/A
BOD5/五日生化需氧量		
Ammonium-N/氨态氮		
Total-P/总磷	NR	
AOX/可吸附有机卤化物		
Oil and Grease/油和油脂		N/A
Phenol/苯酚		N/A
Coliform/大肠菌群		N/A
Foam/泡沫		N/A
ANIONS – Cyanide/阴离子 - 氰化物		N/A
ANIONS – Sulfide/阴离子 - 硫化物		
ANIONS – Sulfite/阴离子 - 亚硫酸盐		N/A
1B) Conventional Parameters –METALS /常规参数 - 金属	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

I001	1002
NR	0
	NR NR NR NR NR NR NR NR NR NR NR NR NR N

Note / Key 备注:

- ● Detected 有检出
- o-Not Detected 未检出
- NR Not Requested / Not required/未要求测试



(6622)179-0360 July 13, 2022 Page 4 of 29

<u>Objective/目标</u>

The environment samples were tested for below parameters. 环境样品按照下列参数检测 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 Procedure

Total number of sample collected is based on the actual factory facilities and manufacturing processes. Two environment samples were sampled per factory, including 1) Incoming water; 2) Raw wastewater.

具体每种样品的采集数量由工厂实际的生产设施和生产流程来决定。每个工厂采集的样品主要有两种 1)进水; 2)原 始废水。

Method of sampling used is time-weighted composite samples based on the ZDHC Wastewater Guidelines. Composite sampling is performed for no less than six hours, with no more than one hour between discrete samples. Each discrete sample is of equal volume. Wastewater and freshwater samples is, as much as possible, collected simultaneously, during the time that PU is in normal operation. The sampling aims 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(根据 ZDHC 废水指南)。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。污水和进水样品应尽可能同时采集,在此期间工厂应处于正常运行状态。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 :

- 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 on-site photos are attached in Appendix A, field data records are attached in Appendix C and drainage agreement are attached in Appendix D.

现场照片见附录 A,采样现场记录见附录 C,排污协议见附录 D。



(6622)179-0360 July 13, 2022 Page 5 of 29

Test Result

1A) Conventional Parameters/常规参数

<u>Temperature/温度</u>

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

Tested Item(s)	Result	Unit	Conclusion
1002	47.2	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 测试方法 : Reference to GB/T 11901-1989 参考 GB/T 11901-1989

Tested Item(s)	Result	Unit	Conclusion
1002	5 Comply with discharge license/ 符合排放许可	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: ≤100

<u>Chemical Oxygen Demand (COD)/ 化学需氧量</u>

Test Method	:	Reference to HJ 828 2017
测试方法		参考 HJ 828 2017

Tested Item(s)	Result	Unit	Conclusion
1002	74 Comply with discharge license/ 符合排放许可	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: ≤200



(6622)179-0360 July 13, 2022 Page 6 of 29

Total Nitrogen (Total-N)/总氮

Test Method	:	Reference to HJ 636-2012
测试方法		参考 HJ 636-2012

Tested Item(s)	Result	Unit	Conclusion
1002	0.39 Comply with discharge license/ 符合排放许可	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: ≤30

pH Value/酸碱值

Test Method	:	Reference to GB/T 6920-1986
测试方法		参考 GB/T 6920-1986

-	Unit	Result
Test Item(s)	-	I002
Parameter	-	-
Temp. of sample	deg. C	47.2
pH value of sample	-	7.80 Comply with discharge license/ 符合排放许可
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: ≤6-9

Color [m⁻¹] (436nm; 525nm; 620nm)/色度

Test Method	: With reference to ISO 7887-B-2011
测试方法	参考 ISO 7887-B-2011

Tested Item(s)	Result	Unit	Conclusion
I002	1.3;1.0;0.8	m ⁻¹	DATA/数据

Note 注释:

Discharge License Criteria/排放标准: N/A



(6622)179-0360 July 13, 2022 Page 7 of 29

<u>Biochemical Oxygen Demand (BOD5)/五日生化需氧量</u>

Test Method	:	Reference to HJ 505-2009
测试方法		参考 HJ 505-2009

Tested Item(s)	Result	Unit	Conclusion
1002	24.7 Comply with discharge license/ 符合排放许可	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: <50

<u>Ammonia Nitrogen/氨态氮</u>

Test Method	:	Reference to HJ 535-2009
测试方法		参考 HJ 535-2009

Tested Item(s)	Result	Unit	Conclusion
1002	0.115 Comply with discharge license/ 符合排放许可	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: ≤20

Total Phosphorus (Total-P)/总磷

Test Method	
测试方法	

: Reference to GB/T 11893-1989 参考 GB/T 11893-1989

Tested Item(s)	Result	Unit	Conclusion
1002	0.01 Comply with discharge license/ 符合排放许可	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: ≤1.5



(6622)179-0360 July 13, 2022 Page 8 of 29

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
1002	<0.04 Comply with discharge license/ 符合排放许可	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: ≤12

Oil and Grease/油和油脂

Test Method	:	Reference to HJ 637-2018
测试方法		参考 HJ 637-2018

Tested Item(s)	Result	Unit	Conclusion
1002	0.12	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 503-2009

 测试方法
 参考 HJ 503-2009

Tested Item(s)	Result	Unit	Conclusion
1002	<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



(6622)179-0360 July 13, 2022 Page 9 of 29

Coliform/大肠菌群

Test Method	:	Reference to GB/T 5750.12-2006
测试方法		参考 GB/T 5750.12-2006

Tested Item(s)	Result	Unit	Conclusion
1002	11	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

Foam/泡沫

Test Method	:	Visual
测试方法		目测

Tested Item(s)	Result	Unit	Conclusion
1002	No foam/无泡沫	-	DATA/数据

Discharge License Criteria/排放标准: N/A

ANIONS - Cyanide/阴离子-氰化物

 Test Method
 : Reference to HJ 484-2009

 测试方法
 参考 HJ 484-2009

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

Note:

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 测试方法 : Reference to GB/T 16489-1996 参考 GB/T 16489-1996

Tested Item(s)	Result	Unit	Conclusion
1002	<0.005 Comply with discharge license/ 符合排放许可	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: ≤1.0



(6622)179-0360 July 13, 2022 Page 10 of 29

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
1002	<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-重金属

Heavy Metals/重金属	I001 (mg/L) 毫克/升	I002(mg/L) 毫克/升
Antimony(Sb)/ 锑 Discharge License Criteria: ≤0.1	0.005	0.005 Comply with discharge license/ 符合排放许可
Chromium(Cr), total/总铬 Discharge License Criteria: N/A	ND	ND
Cobalt(Co)/钴 Discharge License Criteria: N/A	ND	ND
Copper(Cu)/铜 Discharge License Criteria: N/A	0.001	0.023
Nickel (Ni)/镍 Discharge License Criteria: N/A	ND	ND
Silver (Ag)/银 Discharge License Criteria: N/A	ND	ND
Zinc(Zn)/锌 Discharge License Criteria: N/A	0.007	0.005
Arsenic (As)/神 Discharge License Criteria: N/A	ND	ND
Cadmium(Cd)/镉 Discharge License Criteria: N/A	ND	0.0003
Lead(Pb)/铅 Discharge License Criteria: N/A	ND	ND
Mercury (Hg)/汞 Discharge License Criteria: N/A	ND	ND
Chromium VI(CrVI)/六价铬 Discharge License Criteria: N/A	ND	ND



(6622)179-0360 July 13, 2022 Page 11 of 29

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

	I001 (µg/L/微克/升)	I002 (µg/L/ 微克/升)
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
2K) Perfluorinated and Polyfluorinated Chemicals/全氟化合物和多氟化合物	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/备注:

- 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
- NR Not Requested / Not required/未要求测试



(6622)179-0360 July 13, 2022 Page 12 of 29

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





(6622)179-0360 July 13, 2022 Page 13 of 29



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(6622)179-0360 July 13, 2022 Page 14 of 29





(6622)179-0360 July 13, 2022 Page 15 of 29

APPENDIX B

Parameters, limits and testing method aligned with the ZDHC Wastewater Guidelines

参数,限值和测试方法与 ZDHC 废水指南保持一致

			Detection Limit	/检出限	
Group/组别	Substance (analytes)/分析 物质	CAS No./化学物 质登记号	Wastewater (ug/L)/(ppb)/ 废水(微克/ 升)	Sludge (mg/kg)/(ppm)/ 泥(毫克/千 克)	Testing method/测 试方法
2A. Alkylphenol	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)			NP/OP: ISO 18857- 2 (modified dichloromethane extraction) or ASTM D7065 (GC/MS or LC/MS(-MS)
(AP) and Alkylphenol Ethoxylates (APEOs):	Nonylphenol NP/壬基苯酚	Various (incl. 104-40-5, 11066- 49-2, 25154-52-3, 84852-15-3)			
including all isomers/ 烷基酚及烷基 酚聚氧乙烯醚	Octylphenol Ethoxylates (OPEO)/ 辛基酚乙烯醚	Various (incl. 9002-93-1, 9036- 19-5, 68987-90-6)	5	0.2	OPEO/NPEO (n>2): ISO 18254-1 OPEO/NPEO: ISO18857-2 or
前汞氧乙烯醚 包括同分异构 体	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)			ASTM D7065(LC/MS; GC/MS or LC/MSMS for n=1,2)
	Monochlorobenzene/一氯 苯	108-90-7			USEPA 8260B,8270D. Dichloromethane extraction followed by GC/MS
	本 1,2-Dichlorobenzene/ 1,2-二氯苯	95-50-1		0.1	
	1,3-Dichlorobenzene / 1,3-二氯苯	541-73-1			
	1,4-Dichlorobenzene / 1,4-二氯苯	106-46-7			
	1,2,3-Trichlorobenzene / 1,2,3-三氯苯	87-61-6			
	1,2,4-Trichlorobenzene / 1,2,4-三氯苯	120-82-1			
2B. Chlorobenzenes	1,3,5-Trichlorobenzene / 1,3,5-三氯苯	108-70-3			
and Chlorotoluenes/ 氯化苯和氯甲	1,2,3,4- Tetrachlorobenzene/ 1,2,3,4-四氯苯	634-66-2	0.2		
苯	1,2,3,5- Tetraclorobenzene/ 1,2,3,5-四氯苯	634-90-2			
	1,2,4,5- Tetrachlorobenzene/ 1,2,4,5-四氯苯	95-94-3			
	Pentachlorobenzene 五氯苯	608-93-5			
	Hexachlorobenzene/ 六氯苯	118-74-1			
	2-Chlorotoluene /2-氯甲 苯	95-49-8			
	3-Chlorotoluene /3-氯甲	108-41-8			

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(6622)179-0360 July 13, 2022 Page 16 of 29

			Detection Limit/检出限		
Group/组别	Substance (analytes)/分析 物质	CAS No./化学物 质登记号	Wastewater (ug/L)/(ppb)/ 废水(微克/ 升)	Sludge (mg/kg)/(ppm)/ 泥(毫克/千 克)	Testing method/测 试方法
	苯				
	4-Chlorotoluene /4-氯甲 苯	106-43-4			
	2,3-Dichlorotoluene / 2,3-二氯甲苯	32768-54-0			
	2,4-Dichlorotoluene / 2,4-二氯甲苯	95-73-8			
	2,5-Dichlorotoluene/ 2,5-二氯甲苯	19398-61-9			
	2,6-Dichlorotoluene / 2,6-二氯甲苯	118-69-4			
	3,4-Dichlorotoluene / 3,4-二氯甲苯	95-75-0			
	3,5-Dichlorotoluene/ 3,5-二氯甲苯	25186-47-4			
	2,3,4-Trichlorotoluene / 2,3,4-三氯甲苯	7359-72-0			
	2,3,6-Trichlorotoluene / 2,3,6-三氯甲苯	2077-46-5			
	2,4,5-Trichlorotoluene / 2,4,5-三氯甲苯	6639-30-1			
	2,4,6-Trichlorotoluene / 2,4,6-三氯甲苯	23749-65-7			
	3,4,5-Trichlorotoluene / 3,4,5-三氯甲苯	21472-86-6			
	2,3,4,5- Tetrachlorotoluene 2,3,4,5-四氯甲苯	76057-12-0			
	2,3,5,6- Tetrachlorotoluene / 2,3,5,6-四氯甲苯	29733-70-8			
	2,3,4,6- Tetrachlorotoluene / 2,3,4,6-四氯甲苯	875-40-1			
	Pentachlorotoluene/五氯 甲苯	877-11-2			
	Pentachlorophenol (PCP)/ 五氯苯酚	87-86-5			
	2,3,4,5- Tetrachlorophenol/ 2,3,4,5-四氯苯酚	4901-51-3	0.5		USEPA 8270 D Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC/MS ISO 14154:2005
2C. Chlorophenols/	2,3,4,6- Tetrachlorophenol/ 2,3,4,6-四氯苯酚	58-90-2		0.025	
氯酚	2,3,5,6-Tetrachlorophenol 2,3,5,6-四氯苯酚	935-95-5			
	2,4,6-Trichlorophenol/ 2,4,6-三氯苯酚	88-06-2			
	2,3,5-Trichlorophenol/ 2,3,5-三氯苯酚	933-78-8			
	2,4,5-Trichlorophenol/	95-95-4			

The content of this PDF file is in accordance with the original issued reports for reference only.



(6622)179-0360 July 13, 2022 Page 17 of 29

			Detection Limit	/检出限	
Group/组别	Substance (analytes)/分析 物质	CAS No./化学物 质登记号	Wastewater (ug/L)/(ppb)/ 废水(微克/ 升)	Sludge (mg/kg)/(ppm)/ 泥(毫克/千 克)	Testing method/测 试方法
	2,4,5-三氯苯酚				
	3,4,5-Trichlorophenol/ 3,4,5-三氯苯酚	609-19-8			
	2,3,4-Trichlorophenol/ 2,3,4-三氯苯酚	15950-66-0			
	2,3,6-Trichlorophenol/ 2,3,6-三氯苯酚	933-75-5			
	2,3-Dichlorophenol/ 2,3-二氯苯酚	576-24-9	_		
	3,4-Dichlorophenol/ 3,4-二氯苯酚	95-77-2	_		
	2,4-Dichlorophenol/ 2,4-二氯苯酚	120-83-2			
	2,5-Dichlorophenol/ 2,5-二氯苯酚	583-78-8			
	2,6-Dichlorophenol/ 2,6-二氯苯酚	87-65-0	-		
	3,5-Dichlorophenol/ 3,5-二氯苯酚	591-35-5			
	2-Chlorophenol/2-氯苯酚	95-57-8	-		
	3-Chlorophenol/3-氯苯酚	108-43-0	-		
	4-Chlorophenol/4-氯苯酚	106-48-9			
	4-Aminodiphenyl/ 4-氨基联苯	92-67-1	-		
	Benzidine/联苯胺	92-87-5	_		
	4-Chloro-o-toluidine/ 4-氯邻甲苯胺	95-69-2	_		
	2-Naphthylamine/2-萘胺	91-59-8			
	o-Aminoazotoluene/ 邻氨基偶氮甲苯	97-56-3	_		
	5-nitro-o-toluidine/ 5-硝基-邻甲苯胺	99-55-8	_		
	4-Chloroaniline/4-氯苯胺	106-47-8			
2D. Dyes - Azo (Forming Restricted	4-Methoxy-m- phenylenediamine/ 4-甲氧-间苯二胺	615-05-4			EN 14362-1 EN 14362-3 Reduction step with
Amines)/ 偶氮 染料(形成限	4,4'-methylenedianiline/ 4,4'-二氨基二苯甲烷	101-77-9	0.1	0.1	Sodiumdithionite, solvent extraction,
制胺类	3,3`-Dichlorobenzidine/ 3,3'-二氯联苯胺	91-94-1			GC/MS or LC/MS
	3,3'-Dimethoxybenzidine/ 3,3'-二甲氧基联苯胺	119-90-4			
	3,3'-Dimethylbenzidine/ 3,3'-二甲基联苯胺	119-93-7			
	4,4`-Methylene-di-o- toluidine/ 4,4'-二甲基-邻甲苯胺	838-88-0			
	6-methoxy-m-toluidine (p-Cresidine)/ 6-甲氧基间甲苯胺	120-71-8			
	4,4`-Methylene-bis-(2-	101-14-4]		

The content of this PDF file is in accordance with the original issued reports for reference only.



(6622)179-0360 July 13, 2022 Page 18 of 29

			Detection Limit	/检出限	
Group/组别	Substance (analytes)/分析 物质	CAS No./化学物 质登记号	Wastewater (ug/L)/(ppb)/ 废水(微克/ 升)	Sludge (mg/kg)/(ppm)/ 泥(毫克/千 克)	Testing method/测 试方法
	chloro-aniline)/ 4,4'-亚甲基-二-(2-氯苯 胺)				
	4,4`-Oxydianiline/ 4,4'-二氨基二苯醚	101-80-4			
	4,4`-Thiodianiline/ 4,4'-二氨基二苯硫醚	139-65-1			
	o-Toluidine/邻甲苯胺	95-53-4			
	4-Methyl-m- phenylenediamine/ 4-甲基间苯二胺	95-80-7			
	2,4,5-Trimethylaniline/ 2,4,5-三甲基苯胺	137-17-7			
	o-Anisidine/邻氨基苯甲 醚	90-04-0			
	4-Aminoazobenzene/ 4-氨基偶氮苯	60-09-3			
	2,4-Xylidine/ 2,4-二甲基苯胺	95-68-1			
	2,6-Xylidine/ 2,6-二甲基苯胺	87-62-7			
	C.I. Direct Black 38/ C.I.直接黑 38	1937-37-7	-		
	C.I. Direct Blue 6/ C.I.直接蓝 6	2602-46-2	-		
	C.I. Acid Red 26/ C.I.酸性红 26	3761-53-3	-		
	C.I. Basic Red 9/ C.I.碱性红 9	569-61-9	-		
	C.I. Direct Red 28/ C.I.直接红 28	573-58-0	-		
	C.I. Basic Violet 14/ C.I.碱性紫 14	632-99-5	-		
2E. Dyes- Carcionogenic or Equivalent	C.I. Disperse Blue 1 / C.I. 分散蓝 1	2475-45-8	-		
Oncern/ 致癌染料或涉	C.I. Disperse Blue 3 / C.I. 分散蓝 3	2475-46-9	500	1	Liquid Extraction LC/MS
致 强染科 或涉 及的同类	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			
	C.I. Basic Green 4 (malachite green chloride)/ C.I. 碱性绿 4(孔雀石绿氯化物) C.I. Basic Green 4	569-64-2			
	(malachite green oxalate)/ C.I. 碱性绿 4(孔雀石 绿草酸盐)	2437-29-8			
	C.I. Basic Green 4(malachite green)/	10309-95-2			

The content of this PDF file is in accordance with the original issued reports for reference only.



(6622)179-0360 July 13, 2022 Page 19 of 29

			Detection Limit	/检出限		
Group/组别	Substance (analytes)/分析 物质	CAS No./化学物 质登记号	Wastewater (ug/L)/(ppb)/ 废水(微克/ 升)	Sludge (mg/kg)/(ppm)/ 泥(毫克/千 克)	Testing method/测 试方法	
	C.I. 碱性绿 4(孔雀石 绿)					
	Disperse Orange 11/分散 橙 11	82-28-0				
	Disperse Yellow 1 / 分散黄 1	119-15-3				
	Disperse Blue 102 / 分散蓝 102	12222-97-8				
	Disperse Blue 106 / 分散蓝 106	12223-01-7				
	Disperse Yellow 39 / 分散黄 39	12236-29-2				
	Disperse Orange 37/59/76 / 分散橙 37/59/76	13301-61-6				
2F. Dyes-	Disperse Brown 1 / 分散棕 1	23355-64-8	-			
	Disperse Orange 1/ 分散橙 1	2581-69-3	-			
	Disperse Yellow 3/ 分散黄 3	2832-40-8				
disperse (sensitizing)/	Disperse Red 11/分散红 11	2872-48-2	50	1	Liquid Extraction	
分散染料(致	Disperse Red 1/分散红 1	2872-52-8			LC/MS	
敏)	Disperse Red 17 / 分散红 17	3179-89-3				
	Disperse Blue 7 /分散蓝 7	3179-90-6				
	Disperse Blue 26 / 散蓝 26	3860-63-7				
	Disperse Yellow 49 / 分散黄 49	54824-37-2				
	Disperse Blue 35 / 分散蓝 35	12222-75-2				
	Disperse Blue 124 / 分散蓝 124	61951-51-7				
	Disperse Yellow 9 / 分散黄 9	6373-73-5				
	Disperse Orange 3 / 分散橙 3	730-40-5	_			
	Disperse Blue 35 / 分散蓝 35	56524-77-7				
	Polybromobiphenyls (PBBs)/多溴联苯	59536-65-1			LICEDA 0070	
2G. Flame	Pentabromodiphenyl ether (PentaBDE)/ 五溴联苯醚	32534-81-9			USEPA 8270 ISO 22032, USEPA 527 and USEPA	
Retardants/阻 燃剂	Octabromodiphenyl ether (OctaBDE)/ 八溴联苯醚	32536-52-0	5	1	8321B. Dichloromethane	
20213	Decabromodiphenyl ether (DecaBDE)/ 十溴联苯醚	1163-19-5			extraction GC/MS or LC/MS(-MS)	
	Tris(2,3-dibromopropyl) phosphate	126-72-7			01 LC/1015(-1013)	

The content of this PDF file is in accordance with the original issued reports for reference only.



(6622)179-0360 July 13, 2022 Page 20 of 29

			Detection Limit	/检出限		
Group/组别	Substance (analytes)/分析 物质	CAS No./化学物 质登记号	Wastewater (ug/L)/(ppb)/ 废水(微克/ 升)	Sludge (mg/kg)/(ppm)/ 泥(毫克/千 克)	Testing method/测 试方法	
	(TRIS/TDBPP)/ 三(2,3-二溴丙基)磷 酸酯					
	Tetrabromobisphenol A (TBBPA)/ 四溴双酚 A	79-94-7				
	Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP)/ 二(2,3-二溴丙基)磷 酸酯	5412-25-9				
	Hexabromocyclododecane (HBCDD)/ 六溴环十二烷	3194-55-6				
	2,2-Bis(bromomethyl)- 1,3-propanediol (BBMP)/ 2,2-二(溴甲基)-1,3-丙二 醇	3296-90-0				
	Tris(aziridinyl)- phosphineoxide (TEPA)/ 三-(氮环丙基)-膦化氧	545-55-1				
	Tris(2-chloroethyl) phosphate (TCEP)/ 三(2-氯乙基)磷酸酯	115-96-8				
	Tris(1,3-dichloro- isopropyl) phosphate (TDCP)/ 三(1,3-二氯异丙基)磷酸 酯	13674-87-8				
	Short chain chlorinated paraffins (SCCPs) (C10- C13)/ 短链氯化石蜡	85535-84-8				
	Bis(2-methoxyethyl)-ether / 二甘醇二甲醚	111-96-6				
	2-ethoxyethanol / 乙二醇单乙醚	110-80-5				
	2-ethoxyethyl acetate / 乙二醇乙醚醋酸酯	111-15-9				
2H. Glycols/乙	Ethylene glycol dimethyl ether/ 乙二醇二甲醚	110-71-4	50	5	US EPA 8270 Liquid Extraction LC/MS	
二醇	2-methoxyethanol / 乙二醇甲醚	109-86-4			GC-MS	
	2-methoxyethylacetate / 乙二醇甲醚乙酸酯 110-49-6					
	2-methoxypropylacetate/ 2-甲基丙醇乙酸酯	70657-70-4]			
	Triethylene glycol dimethyl ether/ 三乙二醇二甲醚	112-49-2				
2I. Halogenated	1,2-Dichloroethane/	107-06-2	1	1	USEPA 8260B	

The content of this PDF file is in accordance with the original issued reports for reference only.



(6622)179-0360 July 13, 2022 Page 21 of 29

			Detection Limit	/检出限		
Group/组别	Substance (analytes)/分析 物质	CAS No./化学物 质登记号	Wastewater (ug/L)/(ppb)/ 废水(微克/ 升)	Sludge (mg/kg)/(ppm)/ 泥(毫克/千 克)	Testing method/测 试方法	
Solvents/卤化	1,2-二氯乙烷				Headspace GC/MS	
溶剂	Methylene Chloride/ 二氯甲烷	75-09-2			or Purge-and-Trap- GC/MS	
	Trichloroethylene/ 三氯乙烯	79-01-6	_			
	Tetrachloroethylene /四氯乙烯	127-18-4				
	Mono-, di- and tri- methyltin derivatives/ 一,二,三-甲基锡衍生物	Various				
2J. Organotin Compounds/ 有机锡化合物	Mono-, di- and tri-butyltin derivatives/ 一,二,三-丁基锡衍生物	Various	0.01	0.1		
	Mono-, di- and tri- phenyltin derivatives/ 一,二,三-苯基锡衍生物	Various	0.01	0.1		
	Mono-, di- and tri-octyltin derivatives/ 一,二,三-辛基锡衍生物	Various				
	Perfluoro-n-octanoic acid (PFOA)/ 全氟辛酸	335-67-1			DIN 38407-42 (modified)	
2K. Perfluorinated	Perfluorobutanesulfonic acid (PFBS)/ 全氟丁基磺酸	29420-49-3, 29420-43-3		0.05	Ionic PFC: Concentration or direct injection, LC/MS(-MS); Non-ionic PFC (FTOH): derivatisation with	
and Polyfluorinated Chemicals (PFCs)/	Perfluorooctanesulfonic acid (PFOS)/ 全氟辛烷磺酸	355-46-4 ,432-50- 7	0.01	0.05		
全氟化合物和 多氟化合物	Perfluoro-n-hexanoic acid (PFHxA)/ 全氟己酸	307-24-4				
	8:2 FTOH/8:2-全氟辛基 乙醇	678-39-7	1	0.5	acetic anhydride, followed by GC/MS	
	6:2 FTOH/6: 2-全氟乙醇 Butyl benzyl phthalate (BBP)/ 邻苯二甲酸丁苄酯	647-42-7 85-68-7				
	Dibutyl phthalate (DBP)/ 邻苯二甲酸二丁酯	84-74-2	-			
2L. Phthalates (including all other esthers of phthalic acid)/	Di-2-ethylhexyl phthalate (DEHP)/ 邻苯二甲酸二(2-乙基 己基酯)	117-81-7	10	1	US EPA 8270D, ISO 18856	
苯二甲酸盐 (包括其他邻 苯而甲酸醚 类)	Di-n-octyl phthalate (DNOP)/ 邻苯二甲酸二辛酯	117-84-0	10	1	Dichloromethane extraction GC/MS	
	Di-iso-nonyl phthalate (DINP)/ 邻苯二甲酸二异壬酯	28553-12-0				
	Di-iso-decyl phthalate (DIDP)/ 邻苯二甲酸二异葵酯	26761-40-0				

The content of this PDF file is in accordance with the original issued reports for reference only.



(6622)179-0360 July 13, 2022 Page 22 of 29

			Detection Limit/检出限		
Group/组别	Substance (analytes)/分析 物质	CAS No./化学物 质登记号	Wastewater (ug/L)/(ppb)/ 废水(微克/ 升)	Sludge (mg/kg)/(ppm)/ 泥(毫克/千 克)	Testing method/测 试方法
	Diethyl phthalate (DEP)/ 邻苯二甲酸二乙酯	84-66-2			
	Di-n-propyl phthalate (DPRP)/ 邻苯二甲酸二丙酯	131-16-8			
	Di-iso-butyl phthalate (DIBP)/ 邻苯二甲酸二异丁酯	84-69-5			
	Di-cyclohexyl phthalate (DCHP)/ 邻苯二甲酸二环己酯	84-61-7			
	Di-n-hexyl phthalate (DnHP)/ 邻苯二甲酸二己酯	84-75-3			
	Dinonyl phthalate (DNP)/ 邻苯二甲酸二壬酯	84-76-4			
	Di-iso-octyl phthalate (DIOP)/ 邻苯二甲酸二异辛酯	27554-26-3			
	Dimethoxyethyl phthalate (DMEP)/ 邻苯二甲酸二甲氧基乙 酯	117-82-8			
	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			
	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			
	Benzo[a]pyrene (BaP) / 苯并芘	50-32-8			
	Anthracene / 葱	120-12-7			
	Pyrene /茈	129-00-0]		
	Benzo[ghi]perylene / 苯并[g,h,i] 芘	191-24-2			
2M. Poly Aromatic Hydrocarbons	Benzo[e]pyrene / 苯并[e]芘	192-97-2	1	1	US EPA 8270 DIN 38407-39
(PaHs)/多环芳 香烃	Indeno[1,2,3-cd]pyrene / 茚并(1,2,3-cd)芘	193-39-5	1	1	Solvent extraction GC/MS
	Benzo[j]fluoranthene / 苯并[j]荧蒽	205-82-3			
	Benzo[b]fluoranthene / 苯并[b]荧蒽	205-99-2			
	Fluoranthene /荧蒽	206-44-0]		
	Benzo[k]fluoranthene /	207-08-9			

The content of this PDF file is in accordance with the original issued reports for reference only.



(6622)179-0360 July 13, 2022 Page 23 of 29

			Detection Limit/7	检出限		
Group/组别	Substance (analytes)/分析 物质	CAS No./化学物 质登记号	Wastewater (ug/L)/(ppb)/ 废水(微克/ 升)	Sludge (mg/kg)/(ppm)/ 泥(毫克/千 克)	Testing method/测 试方法	
	并[k]荧蒽					
	Acenaphthylene /苊	208-96-8				
	Chrysene /屈					
	Dibenz[a,h]anthracene / 二苯并[a,h] 蒽	53-70-3				
	Benzo[a]anthracene/ 苯并[a]蒽	56-55-3				
	Acenaphthene /二氢苊	83-32-9				
	Phenanthrene /菲	85-01-8				
	Fluorene /芴	86-73-7				
	Naphthalene /萘	91-20-3				
2N. Volatile	Benzene /苯	71-43-2			ISO 11423-1	
Organic Compound (VOCs)/ 挥发性有机化	Xylene /二甲苯	1330-20-7	_		Headspace- or Purge-and-Trap-	
	o-cresol /邻甲苯酚	95-48-7	1	0.1		
	p-cresol /对甲苯酚	106-44-5			GC/MS	
合物	m-cresol /间甲苯酚	108-39-4			US EPA 8260	
Group/组别	Parameter/substance/参数 /物质	CAS No.化学物 质登记号	Limits (mg /L) or specified 检出限 Wastewater/废水	或其他规定	- Testing method/测 试方法	
	Temperature/温度	—	N/A	N/A		
	TSS/总悬浮固体	—	N/A	N/A		
	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	Apply the standard methods that best	
1A.	BOD5/五日生化需氧量	—	N/A	N/A	apply to the region	
Conventional	Ammonium-N/氨态氮	-	N/A	N/A	(ISO, EU, US,	
Parameters	Total-P/总磷	_	N/A	N/A	China), please refer	
(sum parameters)/常	AOX/可吸附有机卤化物	—	N/A	N/A	to ZDHC	
parameters)/帛 规参数	Oil and Grease/油和油脂	_	N/A	N/A	Wastewater Guidelines for more	
17U 29 3X	Phenol/苯酚	_	N/A	N/A	details on the	
	Coliform(bacteria/100ml)/ 大肠菌群	_	N/A	N/A	testing method	
	Persistent Foam/泡沫持 久性	_	Not visible	Not visible		
	ANIONS/阴离子					
	Sulfide/硫化物	_	N/A	N/A		
	Sulfite/亚硫酸盐	—	N/A	N/A		



(6622)179-0360 July 13, 2022 Page 24 of 29

		CAS No. 化学	Detection Limit/7			
Group /组别	Parameter/substance/参 数/物质	CAS No. 化学 物质登记号	Wastewater (ug/L)/(ppb)/废 水(微克/升)	Sludge (mg/kg)/(ppm)/ 泥(毫克/千 克)	Testing method	
	Cadmium(Cd)/镉	7440-43-9	0.1	1		
	Lead(Pb)/铅	7439-92-1	1	1		
	Mercury (Hg)/汞	7439-97-6	0.05	0.1	Apply the	
	Silver (Ag)/银	7440-22-4	1	N/A	standard	
	Cobalt(Co)/钴	7440-48-4	1	N/A	methods that	
1B.	Nickel (Ni)/镍	7440-02-0	1	N/A	best apply to the	
Conventional	Antimony(Sb)/锑	7440-36-0	1	N/A	region (ISO, EU, US, China),	
Parameters –	Arsenic (As)/砷	7440-38-2	1	1	please refer to	
METALS/常规	Copper(Cu)/铜	7440-50-8	1	N/A	ZDHC	
参数-重金属	Zinc(Zn)/锌	7440-66-6	1	N/A	Wastewater	
	Chromium(Cr), total/ 总铬	7440-47-3	1	N/A	Guidelines for more details on the testing method	
	Chromium VI(CrVI)/ 六价铬	18540-29-9	1	1		
	Cyanide(CN-)/氰化物	Various (incl. 57-12-5)	20	0.5		

Note / Key : 注释/要点:

ppm = part(s) per million/百万分之一

U. S. EPA = United States Environmental Protection Agency/美国环境保护署 APHA = American Public Health Association/美国公共卫生协会

N/A-Not Applicable/不适用



(6622)179-0360 July 13, 2022 Page 25 of 29

APPENDIX C - Onsite Field Data Record Sheet 采样现场记录

	F		ELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)						0613-DATA 04 : 11 ne: Analytical		
<u>Seneral Data</u> .aboratory Sample Num! Client Name: ⁷ ield Contact Person:	ber:	6622	17 903	,60					-		
Project (Facility Name ar	d Address):	3590	4 27	つれた	Phone No:	51-01	8 7 41 8	4. 46 /56	- 171 . CO		
Sampling Location / Desi		梳州放光印象有限公司,杭州第山正表海德中国15							1913 158		
ample Identification:	anguon.		vith sampling pla					·	-		
ample Type:			ple / Grab sample		annronriate)	_			-		
lame of Sampler:		7-34 3-					_		-		
ischarge mode:		Direct discharge to	o environment (Sp	ecify destination; R	iver, Sea, Stream) OR Indirect dis	charge to sewage	freatment plant	-		
ate of collection:		- 7027	06.28						-		
actory Type:		- 10 41	/ Washing / Fini:						-		
			selected more that						-		
leid Data for Wastewa	ter										
Arrival Time:		8:50		Departure Time:		15:20		1			
ield Parameters		рH: /		Temp: /	°C	Color :		Flow rate : /	(volume/min)		
Control No. of field equip	ment	CA-00	12	CA-00	273	/		1			
actory with effluent trea	tment plant:		· · ·	05				No			
			Incoming water	(If required)							
Sample matrix:			Wastewater bef								
			Wastewater afte	r treatment – wa	ler at discharge						
Sampler container numb			/	1	1	1		/	1		
		1	2	3	4	5	6	7	8		
tecording time	ID	AI	l			ļ			T		
	Time	9:25							<u> </u>		
H:		7:47		<u> </u>			ļ				
Temp (°C) : Color :		32.4					ļ				
Flow rate (volume/time)		. E			r						
/olume collected, mL		/				<u>}</u>					
Fotal volume collected		4.82	Domarka Talalu	aluma sellented.							
		4.82	Remark: Total v	olume collected	nust be greater t	than total of samp	ole size required				
Analysis Required and Tests (ZDHC I	Preservation Method	Test required	Total of sample size	· · ·	Type of contain	er	P	reservation met	hod		
	1. Phthalate		Sample Size								
Combined test	2. Chlorobenzenes,										
or Individual test	Chlorotoluene & PAH		1000 mL total or								
(Remark 4)	3. SCCPs		1000 mL each								
	4. APS		ļ						(
5. APEOs	·		100 mL	1							
. Chlorophenols & Cres			100 mL	1					l		
7. Flame retardant		+		Amber 0	lass,washed with insed thoroughly y	nitric acid, with		Wilhout adding ad	rid		
			500 mL		insed thoroughly v distillated water an dried before use	nd		Store sample at 6	rc		
3. Dyes	10 mL										
I. Glycol			50 mL								
0. *Pesticides		1	1000 mL								
1. Nitrosamíne			10 mL								
12. Banned Azodyes				-							
-			2000 mL	mL							
 Free primary aroma 	tic amines		500 mL								
14. Organotin Compoun	ds		500 mL	Amber G	lass, washed with	nitric acid;	Acidity to pH	2 with HCI and sto	re sample at 6°C		
15. VOC & Halogenated	Solvents (Remark 6)		10 mL] '	re-add 6.5 mL of HCI	2M	Fill to full contai	ner without air gap;	acidify to pH 2 with at 6*C		
6. PFCs		/	2 mL	PE	, washed with pes	ticide	<u>нс</u>	Without adding ad	cid		
16. PFCs			1		grade Acetone		1	Store sample at 6	PC 2*		



(6622)179-0360 July 13, 2022 Page 26 of 29

·····		Testeridad		· · · · · · · · · · · · · · · · · · ·		
Tests (Conve	ntional Parameters)	Test required (V)	Total of sample size	Type of container	Preservation method	
Combined test or	17. Total suspened solids (TSS)		2000 mL total	Amber Glass, washed with nitric acid.		
Individual test (Remark 4)	18. *Total dissolved solids (TDS)		2000 mL each rinsed thoroughly with distillated water and		Without adding acid Store sample at 6°C	
19. 5-day Biochemical	Dxygen Demand (BOD5)		1000 mL	dried before use		
20. Heavy Metals exce	ot 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 HNO3 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 ₂ S ₂ O ₃ , and store sample at 6°C	
23. Chemical oxygen d	emand (COD)		150 mL		Acidity to pH 2 with H ₂ SO ₄	
24. Phenois			500 mL	Amber Glass;washed with nitric acid; Pre-add 6.5 mL of 2M H ₂ SO	Store sample at 6°C	
25. *Formaldehyde			25 mL		Fill to full container without air gap; acidity to pH 2 v 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 2N zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 6°C	
27. Adsorbable organic	ally 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 ₂ S ₂ O ₃ , acidify to pH 2 with	
28. Total Coliform (Ren	nark 6)		125 mL	PE, clean, sterile, non-reactive	H ₂ SO ₄ , Store sample at 6°C	
29. Persistent foam			N.A.	Foam higher than 45 cm (visi	ral 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		
32. Ammonium-N			500 mL	nitric acid; Pre-add 6.5 mL of 2M H2SO4	Acidify to pH 2 with H2SO4	
33. Oil and Grease			1000 mL	Amber Glass;washed with nitric acid;	Store sample at 6°C	
34. Total Hydrocarbon			1000 mL	Pre-add 6.5 mL of 2M H2SO4		
35. Luminus Bacteria T	oxicity		1000 mL			
36. Sulphate 37. Chloride			100 mL	Amber Glass, washed with nitric acid, rinsed thoroughly with distillated water and	Without adding acid Store sample at 6°C	
			100 mL	dried before use		
38. Others:		[
Observation/ Remark:					<u> </u>	

*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.

<u>专科豪</u> Full name: Recorded by: Comment from factory 1/2: 7- 120° 33' 13' N 30° 16' 10' 冲

Full

Acknowledgement by factory

According and without any observation in leakage. Sample(s) collected by Bureau Verilas Siare stored in portable freezer / fridge that is maintained in 1-5°C

Signatory of Factory Representative:

TEEK

Date: 2012.6.18

-Segurat

Date



(6622)179-0360 July 13, 2022 Page 27 of 29

(Carrow)								CPSD-AN-000	613-DATA 04
		FIELD DATA R	ECORD ON	ZERO DISC	HARGE SA	MPLE		Issue Date:	
		(COMP	OSITE / INC	VIDUAL SA	MPLING)			Version No.:	11
								Business Lin	e: Analytical
Seneral Data									
aboratory Sample Nun	nber:	16221	7 9036	>					
Client Name:		00-21							
Field Contact Person:		ZIRIA		F	hone No: 17	TENT	9612		
Project (Facility Name a	and Address):	12 1 5	5 2.11	h ti BA	1/2 311	2 11 22	1.7. X	唐鎮領	中国15
Sampling Location / De	scription:	21. 23	1/1 20 -		·· · · · · · · · · · · · · · · · · · ·	<u> </u>	1 10 · (V	and the second	4 1 69 10
Sample Identification:		Zero discharge w	vith sampling plan						
Sample Type:		Composite Samp	ole / Grab sample	e (Please delete as	appropriate)				
Name of Sampler:		7-245	-						
Discharge mode:		Direct discharge to	> environment (Spe	ecify destination: Riv	er, Sea, Stream	.) OR indirect disc	harge to sewage t	reatment plant	
Date of collection:		7017	N 27						
Factory Type:		Dyejng / Printing / Washipg / Finishing / Others (please specify):							
		"Note: It would be	~		•				
Field Data for Wastew	ater								
Arrival Time:		2.80	, ·	Departure Time:		15:2	2]	
Field Parameters		pH :	1	Temp:	°C	Color : 1		Flow rate : /	(volume/min)
Control No. of field equ	ípment	GA-00)	-71	12-00	,} <u>,</u>	,		1	
Factory with effluent tre	atment plant:			es			١	No	
	·		Incoming water	(If required)		·	$\overline{}$		
Sample matrix:			Wastewater bef	ore treatment					
			Wastewater after	er treatment - wate	ar at discharge p	oint			
Sampler container nur	iber	AD2	1.12	Ap	A>-	Ar	AL	Ar	1
		1	2	3	4	5	6	7	8
0 <i>i</i> ' <i>i</i> '	D	Ar	Ar	120	F.V-	Az	1.12	A2	1
Recording time	Time	9.20	10:70	11:70	12:70	12:20	- حريوا ا	15:57	
pH : T.		7.83	1.19	1.12	7.85	7.7.0	7.82	7.20	
Temp (°C) : ¥1-			410	47.5	47.1	47.5	47.2	45	
				4. F.	24 6	14 2			
Flow rate (volume/time)			1	1 1		1	1	1	
Flow rate (volume/time						· · · · · · · · · · · · · · · · · · ·		+ · · ·	
Volume collected, mL		いちん	I NICL	1381-1	1.156	I. I.K.	1.181-	3:50] 1

Analysis Required and Preservation Method.

Tests (ZDHC	MRSL Parameters)	Test required (٧)	Total of sample size	Type of container	Preservation method		
	1. Phthalate						
Combined test cr	2. Chlorobenzenes, Chlorotoluene & PAH		1000 mL total				
Individual test (Remark 4)	3. SCCPs	$\overline{\mathbf{y}}$	or 1000 mL each				
	4. APS						
5. APEOs			100 mL				
6. Chlorophenols & Cri	esols	1	100 mL,	Amber Glass,washed with nitric acid,			
7. Flame retardant			500 mL	rinsed thoroughly with distillated water and	Without adding acid Store sample at 6°C		
8. Dyes			10 mL	dried before use			
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 Compou	14. Organotin Compounds		500 mL	Amber Glass, washed with nitric acid; Pre-add 6.5 mL of 2M	Acidify to pH 2 with HCI and store sample at 6°C		
15. VOC & Halogenated Solvents (Remark 6)			10 mL	HCI	Fill to full container without air gap; acidify to pH 2 with HCi and store sample at 6°C		
16. PFCs			2 mL	PE, washed with pesticide grade Acetone	Without adding acid Store sample at 6°C		



(6622)179-0360 July 13, 2022 Page 28 of 29

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)	$\langle \rangle$	2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid, rinsed thoroughly with distillated water and	Without adding acid Store sample at 6*C	
	18. *Total dissolved solids (TDS)	•				
19. 5-day Biochemical Oxygen Demand (BOD5)			1000 mL	dried before use		
20. Heavy Metals except Cr(VI) & Total-P (Remark 6)		ン	9 mL	PE, washed with nitric acid, pre-add 6.5mL of 2M HNO ₃	Acidify to pH 2 with HNO3 and store at 6°C	
21. Cr(VI)		\checkmark	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 antmonium buffer. Store sample at 6*C	
22. Cyanide		\checkmark	500 mL		Adjust pH 12 with 50% NaDH, add 0.05 ml of 10% Na ₂ S ₂ O ₃ , and store sample at 6°C	
23. Chemical oxygen demand (COD)		\langle	150 mL	Amber Glass;washed with nitric acid; Pre-add 6.5 mL of 2M H ₂ SO4	Acidity to pH 2 with H ₂ SO ₄ Store sample at 6*C	
24. Phenois		$\langle \rangle$	500 mL			
25. *Formaldehyde	5. *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)		\checkmark	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 Slore sample at 6°C	
27. Adsorbable organically bound halogens (AOX)		\sim	100 mL	100 mL Amber Glass, washed with nitric acid, pre-add 6.5mL of 2M HNO ₃ 126 mL PE, clean, sterile, non-reactive	Add 0.05 mt of 10% Na ₂ S ₂ O ₃ , acidify to pH 2 with H ₂ SO ₄ , Store sample at 6°C	
28. Total Coliform (Remark 6)		4	125 mL			
29. Persistent foam		\sim	N.A.	Foam higher than 45 cm (visual estimation): Yes / No		
30. Sulfite		V.	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		- 1	100 mL	Amber Glass with wide-mouth PTFE lid;washed with		
32. Ammonium-N		\checkmark	500 mL	nitric acid; Pre-add 6.5 mL of 2M H2SO4	Acidify to pH 2 with H2SO4 Sfore sample at 6*C	
33. Oil and Grease		V	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. Olhers:		_	-			
Observation/ Remark:			I			

*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

Full name:

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:

Comment from factory

红猩白:

Date: 7022.06.28 N 301413"

Acknowledgement by factory

t 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

12033'12"

Signatory of Factory Representative:

Date: 1322. 6-28.



(6622)179-0360 July 13, 2022 Page 29 of 29

APPENDIX D/附录 D

😑 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	三元集团污水预处理中心排放口	色度	80
DW001	三元集团污水预处理中心排放口	氨氮 (NH3-N)	20mg/L
DW001	三元集团污水预处理中心排放口	可吸附有机卤化物	12mg/L
DW001	三元集团污水预处理中心排放口	硫化物	1.0mg/L
DW001	三元集团污水预处理中心排放口	pH值	6-9
DW001	三元集团污水预处理中心排放口	化学需氧量	200mg/L
DW001	三元集团污水预处理中心排放口	总锑	0.1mg/L
DW001	三元集团污水预处理中心排放口	苯胺类	1.0mg/L
DW001	三元集团污水预处理中心排放口	五日生化需氧量	50mg/L
DW001	三元集团污水预处理中心排放口	总磷 (以P计)	1.5mg/L
DW001	三元集团污水预处理中心排放口	总氮 (以N计)	30mg/L
DW001	三元集团污水预处理中心排放口	悬浮物	100mg/L
	CODcr		
	氨氮		
	总氮 (以N计)		