

TEST REPORT

CLIENT DETAILS

Client Name: Sumerra LLC
 Client Contact: Michael Andrew
 Telephone: N/A
 Email: N/A
 Address: 18101 SW Boones Ferry Rd. Suite 100
 Portland, OR 97224 USA

LABORATORY DETAILS

SGS Affiliate and Laboratory: SGS Italia Spa
 Head of Lab: Cristiano Toffoletti
 Project Agent: Sabrina Bottazzi

FACTORY DETAILS

Factory Name: Tintoria Fiordiluce
 Factory Contact: N/A
 Telephone: N/A
 Email: N/A
 Address: Via Del Molinuzzo, 10 - Prato
 Discharge Destination: Discharge to municipal wastewater treatment plant

SAMPLE AND TESTING DETAILS

Sampling Affiliate: SGS Italy S.p.A.
 Sampling Engineer: SGS technician Zago Vanni
 Date of Sample Collection: 09/01/2018
 No. of Samples: Water (2)
 Sample Description: 1) Discharge Wastewater
 2) Incoming fresh water

Sampling Method: 1) 6-hour Composite
 2) Grab

Sample Volume: 17L water in total

Testing Affiliate: SGS Turkey CRS

Sample Received Date: 09/01/2018

Test Performing Period: 09/01/2018 - 06/02/2018

REMARKS

- 1.This test document cannot be reproduced in any way, except in full content, without prior approval in writing by the laboratory.
- 2.The results shown in this test report refer only to the sampling and the sample(s) tested unless otherwise stated.

Signed for and on behalf of

NAME: Cristiano Toffoletti
 TITLE: Head of laboratory



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POSITIVE SUMMARY

Report No.: PD18-00020 Factory Name: Tintoria Fioridluce Factory Address: Via Del Molinuzzo, 10 - Prato			Sample ID	PD18-00020.001	PD18-00020.001	Factory Performance			ZDHC Limits			Sample ID				
			Date of sampling	09/01/2018	09/01/2018										Date of sampling	
			Sampling Location	Via Del Molinuzzo, 10 - Prato	Via Del Molinuzzo, 10 - Prato							Sampling Location				
			Sampling start time	10:14	09:10							Sampling start time				
			Sampling end time		15:10							Sampling end time				
			Date of sample received	09/01/2018	09/01/2018							Date of sample received				
			Sample Description	Water	Water	Water							Sample Description	Sludge		
ITEMS	CAS No.	METHODS	Reporting Limit	UNIT	Incoming Water	Raw Wastewater	Discharged Wastewater (In-direct Discharge)	Incoming Water	Raw Wastewater	Discharged Wastewater (In-direct Discharge)	mg/L	mg/L	mg/L	Reporting Limit	UNIT	Sludge
Total Antimony (Sb)	7440-36-0	With reference to USEPA 200.7, USEPA 200.8, USEPA 6010C, USEPA 6020A, ISO 11885, HJ 700 or Acid Digestion followed by ICP or ICP/MS analysis	0.01	mg/L	0,05	-	0,04	Fulfill Foundational Limit	-	Progressive Limit	0,1	0,05	0,01	-	-	-
p-Chloroaniline	106-47-8	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0.1	µg/L	n.d.	-	0,4	-	-	-	-	-	-	0,1	mg/kg	-
2,4-Xyldine	95-68-1	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0.1	µg/L	n.d.	-	0,3	-	-	-	-	-	-	0,1	mg/kg	-
Mono-, di- and tri-methyltin derivatives	Multiple	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0.01	µg/L	n.d.	-	268,59	-	-	-	-	-	-	0,1	mg/kg	-
Dimethyltin (DMT)	Multiple	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0.01	µg/L	n.d.	-	2,15	-	-	-	-	-	-	0,1	mg/kg	-
Mono-, di- and tri-ocetyl tin derivatives	Multiple	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0.01	µg/L	n.d.	-	266,22	-	-	-	-	-	-	0,1	mg/kg	-
Monooctyltin (MOT)	15231-57-9	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0.01	µg/L	n.d.	-	0,22	-	-	-	-	-	-	0,1	mg/kg	-
Temperature	-	APAT CNR IRSA 2100 Man 29 2003	-	°C	14,7	-	31,0	-	-	Fulfill Foundational Limit	Δ15 / max.35	Δ10 or 30	Δ5 or 25	-	-	-
BOD (5-day)	-	APAT CNR IRSA 5120 B1 Man 29 2003	10	mg/L	-	-	235	-	-	Exceed Foundational Limit	30	10	5	-	-	-
COD	-	ISO 15705:2002	6	mg/L	-	-	374	-	-	Exceed Foundational Limit	150	80	40	-	-	-
TSS	-	APAT CNR IRSA 2090 B Man 29 2003	5	mg/L	-	-	22	-	-	Fulfill Foundational Limit	50	15	5	-	-	-
pH Value	-	APAT CNR IRSA 2060 Man 29 2003	1	-	7,1	-	9,2	-	-	Exceed Foundational Limit	6-9	6-9	6-9	-	-	-
Color (1:40)*	-	APAT CNR IRSA 2020 A Man 29 2003	-	m ⁻¹	-	-	present	-	-	Exceed Italian D.Lgs 152/2006: Absent	n.a.	n.a.	n.a.	-	-	-
Oil and Grease	-	APAT CNR IRSA 5160 B Man 29 2003	0.5	mg/L	-	-	3,0	-	-	Fulfill Aspirational Limit	10	2	1	-	-	-
Total Nitrogen (Total-N)	-	UNI EN 12260:2004	1	mg/L	-	-	18,9	-	-	Fulfill Foundational Limit	20	10	5	-	-	-
Ammonium Nitrogen (Ammonium-N)	-	APAT CNR IRSA 4030 C Man 29 2003	0.4	mg/L	-	-	1,1	-	-	Fulfill Foundational Limit	10	1	0,5	-	-	-
Total Phosphorus (Total-P)	-	APAT CNR IRSA 4110 A2 Man 29 2003	0.01	mg/L	-	-	0,90	-	-	Fulfill Foundational Limit	3	0,5	0,1	-	-	-
Coliform	-	APAT CNR IRSA 7010 C Man 29 2003	0	UFC / 100ml	-	-	4700	-	-	Exceed Foundational Limit	400	100	25	-	-	-
Cyanide	-	M.U. 2251:2008 (esclusi par. 8.2.2 e 8.2.3)	0.002	mg/L	-	-	0,004	-	-	Fulfill Aspirational Limit	0,2	0,1	0,05	0,5	mg/kg	-
AOX	-	EN ISO 9562	0.01	mg/L	-	-	1,10	-	-	Fulfill Foundational Limit	5	1	0,1	-	-	-

ORGANIC & INORGANIC ANALYSIS

Report No.: PD18-00020 Factory Name: Tintoria Fiordiluce Factory Address: Via Del Molinuzzo, 10 - Prato			Sample ID			Sample ID			Factory Performance			ZDHC Limits			Sample ID		
			Date of sampling			Date of sampling									Date of sampling		
			Sampling Location			Sampling Location									Sampling Location		
			Sampling start time			Sampling start time									Sampling start time		
			Sampling end time			Sampling end time									Sampling end time		
			Date of sample received			Date of sample received									Date of sample received		
			Sample Description			Sample Description									Sample Description		
			Water			Water			Water			Sludge					
ITEMS	CAS No.	METHODS	Reporting Limit	UNIT	Incoming Water	Raw Wastewater	Discharged Wastewater (In-direct Discharge)	Incoming Water	Raw Wastewater	Discharged Wastewater (In-direct Discharge)	mg/L	mg/L	mg/L	Reporting Limit	UNIT	Sludge	
Octylphenol (OP), mixed isomers	Multiple, including 140-66-9, 1806-264, 27193-28-8	With reference to ISO 18857-2 or ASTM D7065 followed by GC/MS or LC/MS analysis	5	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,2	mg/kg	-	
Nonylphenol (NP), mixed isomers	Multiple, including 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3, 69002-93-1, 9036-19-5, 68987-90-6	With reference to ISO 18857-2 or ASTM D7065 followed by GC/MS or LC/MS analysis	5	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,2	mg/kg	-	
Octylphenol ethoxylates (OPEO)	Multiple, including 69002-93-1, 9036-19-5, 68987-90-6	With reference to ISO 18254-1, ISO 18857-2 or ASTM D7065 followed by GC/MS or LC/MS analysis	5	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,2	mg/kg	-	
Nonylphenol ethoxylates (NPEO)	Multiple, including 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4,	With reference to ISO 18254-1, ISO 18857-2 or ASTM D7065 followed by GC/MS or LC/MS analysis	5	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,2	mg/kg	-	
2B. Chlorobenzenes and Chlorotoluenes (COCs)																	
Monochlorobenzenes	108-90-7	With reference to USEPA 8260B, USEPA 8270D or solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
1,2-Dichlorobenzene	95-50-1	With reference to USEPA 8260B, USEPA 8270D or solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
1,3-Dichlorobenzene	541-73-1	With reference to USEPA 8260B, USEPA 8270D or solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
1,4-Dichlorobenzene	106-46-7	With reference to USEPA 8260B, USEPA 8270D or solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
1,2,3-Trichlorobenzene	87-61-6	With reference to USEPA 8260B, USEPA 8270D or solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
1,2,4-Trichlorobenzene	120-82-1	With reference to USEPA 8260B, USEPA 8270D or solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
1,3,5-Trichlorobenzene	108-70-3	With reference to USEPA 8260B, USEPA 8270D or solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
1,2,3,4-Tetrachlorobenzene	634-66-2	With reference to USEPA 8260B, USEPA 8270D or solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
1,2,3,5-Tetrachlorobenzene	634-90-2	With reference to USEPA 8260B, USEPA 8270D or solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
1,2,4,5-Tetrachlorobenzene	95-94-3	With reference to USEPA 8260B, USEPA 8270D or solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
Pentachlorobenzene	608-93-5	With reference to USEPA 8260B, USEPA 8270D or solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
Hexachlorobenzene	118-74-1	With reference to USEPA 8260B, USEPA 8270D or solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
2-Chlorotoluene	95-49-8	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
3-Chlorotoluene	108-41-8	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
4-Chlorotoluene	106-43-4	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
2,3-Dichlorotoluene	32768-54-0	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
2,4-Dichlorotoluene	95-73-8	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
2,5-Dichlorotoluene	19398-61-9	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
2,6-Dichlorotoluene	118-69-4	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
3,4-Dichlorotoluene	95-75-0	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
3,5-Dichlorotoluene	25186-47-4	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
2,3,4-Trichlorotoluene	7359-72-0	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
2,3,6-Trichlorotoluene	2077-46-5	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
2,4,5-Trichlorotoluene	6639-30-1	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
2,4,6-Trichlorotoluene	23749-65-7	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
3,4,5-Trichlorotoluene	21472-86-6	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
2,3,4,5-Tetrachlorotoluene	76057-12-0	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0,2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	

ORGANIC & INORGANIC ANALYSIS

Report No.: PD18-00020 Factory Name: Tintoria Fiordiluce Factory Address: Via Del Molinuzzo, 10 - Prato			Sample ID			PD18-00020.001			Factory Performance Incoming Water Raw Wastewater Discharged Wastewater (In-direct Discharge)			ZDHC Limits Foundational Limit Progressive Limit Aspirational Limit			Sample ID					
			Date of sampling			09/01/2018									09/01/2018			Date of sampling		
			Sampling Location			Via Del Molinuzzo, 10 - Prato									Via Del Molinuzzo, 10 - Prato			Sampling Location		
			Sampling start time			10:14									09:10			Sampling start time		
			Sampling end time												15:10			Sampling end time		
			Date of sample received			09/01/2018									09/01/2018			Date of sample received		
			Sample Description			Water									Water			Water		
ITEMS	CAS No.	METHODS	Reporting Limit	UNIT	Incoming Water	Raw Wastewater	Discharged Wastewater (In-direct Discharge)	Incoming Water	Raw Wastewater	Discharged Wastewater (In-direct Discharge)	mg/L	mg/L	mg/L	Reporting Limit	UNIT	Sludge				
2,3,4,6-Tetrachlorotoluene	875-40-1	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-				
2,3,5,6-Tetrachlorotoluene	29733-70-8	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-				
Pentachlorotoluene	877-11-2	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.2	µg/L	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-				
2C. Chlorophenols																				
2-Chlorophenol	95-57-8	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
3-Chlorophenol	108-43-0	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
4-Chlorophenol	106-48-9	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
2,3-Dichlorophenol	576-24-9	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
2,4-Dichlorophenol	120-83-2	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
2,5-Dichlorophenol	583-78-8	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
2,6-Dichlorophenol	87-65-0	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
3,4-Dichlorophenol	95-77-2	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
3,5-Dichlorophenol	591-35-5	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
2,3,4-Trichlorophenol	15950-66-0	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
2,3,5-Trichlorophenol	933-78-8	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
2,3,6-Trichlorophenol	933-75-5	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
2,4,5-Trichlorophenol	95-95-4	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
2,4,6-Trichlorophenol	88-06-2	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
3,4,5-Trichlorophenol	609-19-8	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
2,3,4,5-Tetrachlorophenol	4901-51-3	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
2,3,4,6-Tetrachlorophenol	58-90-2	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
2,3,5,6-Tetrachlorophenol	935-95-5	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
Pentachlorophenols	87-86-5	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatisation with KOH, acetic anhydride followed by GC/MS analysis.	0.5	µg/L	-	-	n.d.	-	-	-	-	-	-	0.025	mg/kg	-				
2D. Azo dyes																				
4-Aminodiphenyl	92-67-1	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0.1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-				
Benzidine	92-87-5	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0.1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-				
4-Chloro-o-Toluidine	95-69-2	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0.1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-				
2-Naphthylamine	91-59-8	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0.1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-				
o-Aminoazobenzene	97-56-3	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0.1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-				
2-Amino-4-Nitrobenzene	99-55-8	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0.1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-				
p-Chloroaniline	106-47-8	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0.1	µg/L	n.d.	-	0,4	-	-	-	-	-	-	0,1	mg/kg	-				
2,4-Diaminobenzene	615-05-4	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0.1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-				
4,4'-Diaminodiphenylmethane	101-77-9	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0.1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-				

ORGANIC & INORGANIC ANALYSIS

Report No.: PD18-00020 Factory Name: Tintoria Fioridluce Factory Address: Via Del Molinuzzo, 10 - Prato			Sample ID			PD18-00020.001			PD18-00020.001			ZDHC Limits			Sample ID		
			Date of sampling			09/01/2018			09/01/2018						Date of sampling		
			Sampling Location			Via Del Molinuzzo, 10 - Prato			Via Del Molinuzzo, 10 - Prato			Sampling Location					
			Sampling start time			10:14			09:10			Sampling start time					
			Sampling end time						15:10			Sampling end time					
			Date of sample received			09/01/2018			09/01/2018			Date of sample received					
			Sample Description			Water			Water			Water			Sample Description		
															Sludge		
ITEMS	CAS No.	METHODS	Reporting Limit	UNIT	Factory Performance			Incoming Water	Raw Wastewater	Discharged Wastewater (In-direct Discharge)	Foundational Limit	Progressive Limit	Aspirational Limit	Reporting Limit	UNIT	Sludge	
					Incoming Water	Raw Wastewater	Discharged Wastewater (In-direct Discharge)										mg/L
3,3'-Dichlorobenzidine	91-94-1	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0,1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
3,3'-Dimethoxybenzidine	119-90-4	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0,1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
3,3'-Dimethylbenzidine	119-93-7	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0,1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0,1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
p-Cresidine	120-71-8	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0,1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0,1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
4,4'-Oxydianiline	101-80-4	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0,1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
4,4'-Thiodianiline	139-65-1	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0,1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
o-Toluidine	95-53-4	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0,1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
2,4-Toluylenediamine	95-80-7	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0,1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
2,4,5-Trimethylaniline	137-17-7	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0,1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
o-Anisidine	90-04-0	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0,1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
p-Aminoazobenzene	60-09-3	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0,1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
2,4-Xyldine	95-88-1	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0,1	µg/L	n.d.	-	0,3	-	-	-	-	-	-	0,1	mg/kg	-	
2,6-Xyldine	87-62-7	With reference to USEPA 8270D, EN 14362-1, EN 14362-3 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	0,1	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
2E. Carcinogenic dyes																	
Acid Red 26	3761-53-3	Solvent extraction followed by LC/MS analysis.	500	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Basic Blue 26	2580-56-5	Solvent extraction followed by LC/MS analysis.	500	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Basic Green 4 (malachite green)	10309-95-2	Solvent extraction followed by LC/MS analysis.	500	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Basic Green 4 (malachite green chloride) ^a	569-64-2	Solvent extraction followed by LC/MS analysis.	500	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Basic Green 4 (malachite green oxalate) ^a	2437-29-8	Solvent extraction followed by LC/MS analysis.	500	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Basic Red 9	569-61-9	Solvent extraction followed by LC/MS analysis.	500	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Basic Violet 14	632-99-5	Solvent extraction followed by LC/MS analysis.	500	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Direct Black 38	1937-37-7	Solvent extraction followed by LC/MS analysis.	500	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Direct Blue 6	2602-46-2	Solvent extraction followed by LC/MS analysis.	500	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Direct Red 28	573-58-0	Solvent extraction followed by LC/MS analysis.	500	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Blue 1	2475-45-8	Solvent extraction followed by LC/MS analysis.	500	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Blue 3	2475-46-9	Solvent extraction followed by LC/MS analysis.	500	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Orange 11	82-28-0	Solvent extraction followed by LC/MS analysis.	500	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
2F. Disperse dyes																	
Disperse Brown 1	23355-64-8	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Blue 7	3179-90-6	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Blue 26	3860-63-7	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	

ORGANIC & INORGANIC ANALYSIS

Report No.: PD18-00020 Factory Name: Tintoria Fiordiluce Factory Address: Via Del Molinuzzo, 10 - Prato			Sample ID			Sample ID			Factory Performance			ZDHC Limits			Sample ID		
			Date of sampling			Date of sampling									Date of sampling		
			Sampling Location			Sampling Location									Sampling Location		
			Sampling start time			Sampling start time									Sampling start time		
			Sampling end time			Sampling end time									Sampling end time		
			Date of sample received			Date of sample received									Date of sample received		
			Sample Description			Sample Description									Sample Description		
			Water			Water			Water			Sludge					
ITEMS	CAS No.	METHODS	Reporting Limit	UNIT	Incoming Water	Raw Wastewater	Discharged Wastewater (In-direct Discharge)	Incoming Water	Raw Wastewater	Discharged Wastewater (In-direct Discharge)	mg/L	mg/L	mg/L	Reporting Limit	UNIT	Sludge	
Disperse Blue 35	12222-75-2, 56524-77-7	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Blue 102	12222-97-8	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Blue 106	12223-01-7	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Blue 124	61951-51-7	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Orange 1	2581-69-3	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Orange 3	730-40-5	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Orange 37/59/76	13301-61-6	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Red 1	2872-52-8	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Red 11	2872-48-2	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Red 17	3179-89-3	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Yellow 1	119-15-3	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Yellow 3	2832-40-8	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Yellow 9	6373-73-5	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Yellow 39	12236-29-2	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Disperse Yellow 49	54824-37-2	Solvent extraction followed by LC/MS analysis.	50	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
2G. Flame retardants																	
Polybrominated biphenyls (PBBs)	59536-65-1	With reference to USEPA 527, USEPA 8270, USEPA 8321B, ISO 22032 or solvent extraction followed by GC/MS or LC/MS analysis	5	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Pentabromodiphenyl ethers (PentaBDE)	32534-81-9	With reference to USEPA 527, USEPA 8270, USEPA 8321B, ISO 22032 or solvent extraction followed by GC/MS or LC/MS analysis	5	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Octabromodiphenyl ethers (OctaBDE)	32536-52-0	With reference to USEPA 527, USEPA 8270, USEPA 8321B, ISO 22032 or solvent extraction followed by GC/MS or LC/MS analysis	5	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Decabromodiphenyl ethers (DecaBDE)	1163-19-5	With reference to USEPA 527, USEPA 8270, USEPA 8321B, ISO 22032 or solvent extraction followed by GC/MS or LC/MS analysis	5	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	With reference to USEPA 527, USEPA 8270, USEPA 8321B, ISO 22032 or solvent extraction followed by GC/MS or LC/MS analysis	5	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	With reference to USEPA 527, USEPA 8270, USEPA 8321B, ISO 22032 or solvent extraction followed by GC/MS or LC/MS analysis	5	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Tetrabromobisphenol A (TBBPA)	79-94-7	With reference to USEPA 527, USEPA 8270, USEPA 8321B, ISO 22032 or solvent extraction followed by GC/MS or LC/MS analysis	5	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Hexabromocyclododecane (HBCDD)	134237-50-6, 134237-51-7, 134237-52-8, 25637-99-4, 3194	With reference to USEPA 527, USEPA 8270, USEPA 8321B, ISO 22032 or solvent extraction followed by GC/MS or LC/MS analysis	5	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Bis(2,3-dibromopropyl)phosphate (BIS)	5412-25-9	With reference to USEPA 527, USEPA 8270, USEPA 8321B, ISO 22032 or solvent extraction followed by GC/MS or LC/MS analysis	5	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	With reference to USEPA 527, USEPA 8270, USEPA 8321B, ISO 22032 or solvent extraction followed by GC/MS or LC/MS analysis	5	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	With reference to USEPA 527, USEPA 8270, USEPA 8321B, ISO 22032 or solvent extraction followed by GC/MS or LC/MS analysis	5	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	13674-87-8	With reference to USEPA 527, USEPA 8270, USEPA 8321B, ISO 22032 or solvent extraction followed by GC/MS or LC/MS analysis	5	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Short Chain Chlorinated Paraffins (SCCP), C ₁₀ -C ₁₃	85535-84-8	With reference to USEPA 527, USEPA 8270, USEPA 8321B, ISO 22032 or solvent extraction followed by GC/MS or LC/MS analysis	5	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
2H. Glycols																	
Bis(2-methoxyethyl)-ether	111-96-6	With reference to USEPA 8270D or solvent extraction followed by GC/MS or LC/MS analysis	50	µg/L	-	-	n.d.	-	-	-	-	-	-	5	mg/kg	-	
2-Ethoxyethanol	110-80-5	With reference to USEPA 8270D or solvent extraction followed by GC/MS or LC/MS analysis	50	µg/L	-	-	n.d.	-	-	-	-	-	-	5	mg/kg	-	
2-Ethoxyethyl acetate	111-15-9	With reference to USEPA 8270D or solvent extraction followed by GC/MS or LC/MS analysis	50	µg/L	-	-	n.d.	-	-	-	-	-	-	5	mg/kg	-	

ORGANIC & INORGANIC ANALYSIS

Report No.: PD18-00020 Factory Name: Tintoria Fiordiluce Factory Address: Via Del Molinuzzo, 10 - Prato			Sample ID			Sample ID			Factory Performance			ZDHC Limits			Sample ID		
			Date of sampling			Date of sampling									Date of sampling		
			Sampling Location			Sampling Location									Sampling Location		
			Sampling start time			Sampling start time									Sampling start time		
			Sampling end time			Sampling end time									Sampling end time		
			Date of sample received			Date of sample received									Date of sample received		
Sample Description			Water			Water			Water			Sample Description			Sludge		
ITEMS	CAS No.	METHODS	Reporting Limit	UNIT	Incoming Water	Raw Wastewater	Discharged Wastewater (In-direct Discharge)	Incoming Water	Raw Wastewater	Discharged Wastewater (In-direct Discharge)	mg/L	mg/L	mg/L	Reporting Limit	UNIT	Sludge	
Ethylene glycol dimethyl ether	110-71-4	With reference to USEPA 8270D or solvent extraction followed by GC/MS or LC/MS analysis	50	µg/L	-	-	n.d.	-	-	-	-	-	-	5	mg/kg	-	
2-Methoxyethanol	109-86-4	With reference to USEPA 8270D or solvent extraction followed by GC/MS or LC/MS analysis	50	µg/L	-	-	n.d.	-	-	-	-	-	-	5	mg/kg	-	
2-Methoxyethylacetate	110-49-6	With reference to USEPA 8270D or solvent extraction followed by GC/MS or LC/MS analysis	50	µg/L	-	-	n.d.	-	-	-	-	-	-	5	mg/kg	-	
2-Methoxypropylacetate	70657-70-4	With reference to USEPA 8270D or solvent extraction followed by GC/MS or LC/MS analysis	50	µg/L	-	-	n.d.	-	-	-	-	-	-	5	mg/kg	-	
Triethylene glycol dimethyl ether	112-49-2	With reference to USEPA 8270D or solvent extraction followed by GC/MS or LC/MS analysis	50	µg/L	-	-	n.d.	-	-	-	-	-	-	5	mg/kg	-	
2I. Halogenated solvents																	
1,2-Dichloroethane	107-06-2	With reference to USEPA 8260B, Purge&Trap, Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Methylene chloride	75-09-2	With reference to USEPA 8260B, Purge&Trap, Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Trichloroethene	79-01-6	With reference to USEPA 8260B, Purge&Trap, Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Tetrachloroethene	127-18-4	With reference to USEPA 8260B, Purge&Trap, Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
2J. Organotin Compounds																	
Mono-, di- and tri-methyltin derivatives	Multiple	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0,01	µg/L	n.d.	-	2,15	-	-	-	-	-	-	0,1	mg/kg	-	
Monomethyltin (MMT)	Multiple	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0,01	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
Dimethyltin (DMT)	Multiple	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0,01	µg/L	n.d.	-	2,15	-	-	-	-	-	-	0,1	mg/kg	-	
Trimethyltin (TMT)	Multiple	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0,01	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
Mono-, di- and tri-butyltin derivatives	Multiple	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0,01	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
Monobutyltin (MBT)	1118-46-3, 78763-54-9	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0,01	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
Dibutyltin (DBT)	1002-53-5	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0,01	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
Tributyltin (TBT)	56573-85-4	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0,01	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
Mono-, di- and tri-octyltin derivatives	Multiple	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0,01	µg/L	n.d.	-	0,22	-	-	-	-	-	-	0,1	mg/kg	-	
Monooctyltin (MOT)	15231-57-9	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0,01	µg/L	n.d.	-	0,22	-	-	-	-	-	-	0,1	mg/kg	-	
Diocetyl tin (DOT)	94410-05-6, 12531-44-4	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0,01	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
Triocetyl tin (TOT)	Multiple	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0,01	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
Mono-, di- and tri-phenyltin derivatives	Multiple	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0,01	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
Monophenyltin (MPhT)	Multiple	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0,01	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
Diphenyltin (DPhT)	Multiple	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0,01	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
Triphenyltin (TPhT)	892-20-6, 688-34-8	With reference to ISO17353 and derivatisation with sodium diethyl dithiocarbamate followed by GC/MS analysis.	0,01	µg/L	n.d.	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
2K. Perfluorinated / Polyfluorinated Chemicals (PFCs)																	
PFOS	1763-23-1	With reference to DIN38407-42 or CEN/TS 15968 and followed by LC/MS or LC/MS/MS analysis	0,01	µg/L	-	-	n.d.	-	-	-	-	-	-	0,05	mg/kg	-	
PFOA	335-67-1	With reference to DIN38407-42 or CEN/TS 15968 and followed by LC/MS or LC/MS/MS analysis	0,01	µg/L	-	-	n.d.	-	-	-	-	-	-	0,05	mg/kg	-	
PFBS	375-73-5, 59933-66-3, 29420-49-3, 29420-43-3	With reference to DIN38407-42 or CEN/TS 15968 and followed by LC/MS or LC/MS/MS analysis	0,01	µg/L	-	-	n.d.	-	-	-	-	-	-	0,05	mg/kg	-	
PFHxA	307-24-4	With reference to DIN38407-42 or CEN/TS 15968 and followed by LC/MS or LC/MS/MS analysis	0,01	µg/L	-	-	n.d.	-	-	-	-	-	-	0,05	mg/kg	-	
6:2 FTOH	647-42-7	With reference to DIN38407-42 or CEN/TS 15968 and derivatisation with acetic anhydride followed by GC/MS analysis.	1	µg/L	-	-	n.d.	-	-	-	-	-	-	0,5	mg/kg	-	

ORGANIC & INORGANIC ANALYSIS

Report No.: PD18-00020 Factory Name: Tintoria Fioridluce Factory Address: Via Del Molinuzzo, 10 - Prato			Sample ID			PD18-00020.001			PD18-00020.001			ZDHC Limits			Sample ID		
			Date of sampling			09/01/2018			09/01/2018						Date of sampling		
			Sampling Location			Via Del Molinuzzo, 10 - Prato			Via Del Molinuzzo, 10 - Prato			Sampling Location					
			Sampling start time			10:14			09:10			Sampling start time					
			Sampling end time						15:10			Sampling end time					
			Date of sample received			09/01/2018			09/01/2018			Date of sample received					
			Sample Description			Water			Water			Water			Sample Description		
															Sludge		
ITEMS	CAS No.	METHODS	Reporting Limit	UNIT	Factory Performance			Incoming Water	Raw Wastewater	Discharged Wastewater (In-direct Discharge)	Foundational Limit	Progressive Limit	Aspirational Limit	Reporting Limit	UNIT	Sludge	
					Incoming Water	Raw Wastewater	Discharged Wastewater (In-direct Discharge)										mg/L
8:2 FTOH	678-39-7	With reference to DIN38407-42 or CEN/TS 15968 and derivatisation with acetic anhydride followed by GC/MS analysis.	1	µg/L	-	-	n.d.	-	-	-	-	-	-	0,5	mg/kg	-	
2L. Phthalates																	
Di(2-Ethyl Hexyl) Phthalate (DEHP)	117-81-7	With reference to USEPA 8270D, ISO 18856, or solvent extraction followed by GC/MS analysis	10	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8	With reference to USEPA 8270D, ISO 18856, or solvent extraction followed by GC/MS analysis	10	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Di-N-Octyl Phthalate (DNOP)	117-84-0	With reference to USEPA 8270D, ISO 18856, or solvent extraction followed by GC/MS analysis	10	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Di-iso-Decyl Phthalate (DIDP)	26761-40-0, 68515-49-1	With reference to USEPA 8270D, ISO 18856, or solvent extraction followed by GC/MS analysis	10	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Di-iso-Nonyl Phthalate (DNP)	28553-12-0, 68515-48-0	With reference to USEPA 8270D, ISO 18856, or solvent extraction followed by GC/MS analysis	10	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Di-N-Hexyl Phthalate (DNHP)	84-75-3	With reference to USEPA 8270D, ISO 18856, or solvent extraction followed by GC/MS analysis	10	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Dibutyl Phthalate (DBP)	84-74-2	With reference to USEPA 8270D, ISO 18856, or solvent extraction followed by GC/MS analysis	10	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Benzyl Butyl Phthalate (BBP)	85-68-7	With reference to USEPA 8270D, ISO 18856, or solvent extraction followed by GC/MS analysis	10	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Dinonyl phthalate (DNP)	84-76-4	With reference to USEPA 8270D, ISO 18856, or solvent extraction followed by GC/MS analysis	10	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Diethyl Phthalate (DEP)	84-66-2	With reference to USEPA 8270D, ISO 18856, or solvent extraction followed by GC/MS analysis	10	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Di-N-Propyl Phthalate (DPRP)	131-16-8	With reference to USEPA 8270D, ISO 18856, or solvent extraction followed by GC/MS analysis	10	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Di-iso-Butyl Phthalate (DIBP)	84-69-5	With reference to USEPA 8270D, ISO 18856, or solvent extraction followed by GC/MS analysis	10	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Dicyclohexyl Phthalate (DCHP)	84-61-7	With reference to USEPA 8270D, ISO 18856, or solvent extraction followed by GC/MS analysis	10	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Di-iso-Octyl Phthalate (DIOP)	27554-26-3	With reference to USEPA 8270D, ISO 18856, or solvent extraction followed by GC/MS analysis	10	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
1,2-Benzenedicarboxylic acid, Di-C7-11 Branched and Linear Alkyl Esters (DHNUP)	68515-42-4	With reference to USEPA 8270D, ISO 18856, or solvent extraction followed by GC/MS analysis	10	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
1,2-Benzenedicarboxylic acid, Di-C6-8 Branched Alkyl Esters, C7 rich (DHP)	71888-89-6	With reference to USEPA 8270D, ISO 18856, or solvent extraction followed by GC/MS analysis	10	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
2M. Polycyclic Aromatic Hydrocarbons (PAHs)																	
Benzo[a]pyrene	50-32-8	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Anthracene	120-12-7	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Pyrene	129-00-0	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Benzo[ghi]perylene	191-24-2	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Benzo[e]pyrene	192-97-2	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Indeno[1,2,3-cd]pyrene	193-39-5	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Benzo[fluoranthene	205-82-3	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Benzo[b]fluoranthene	205-99-2	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Fluoranthene	206-44-0	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Benzo[k]fluoranthene	207-08-9	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Acenaphthylene	208-96-8	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Chrysene	218-01-9	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Dibenz[a,h]anthracene	53-70-3	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Benzo[a]anthracene	56-55-3	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	µg/L	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	

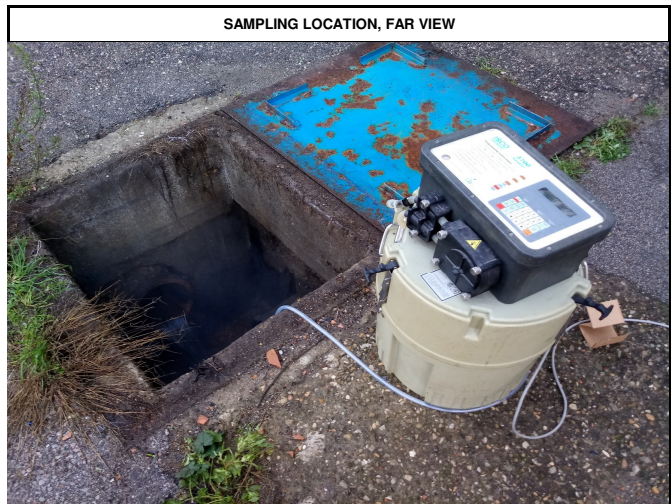
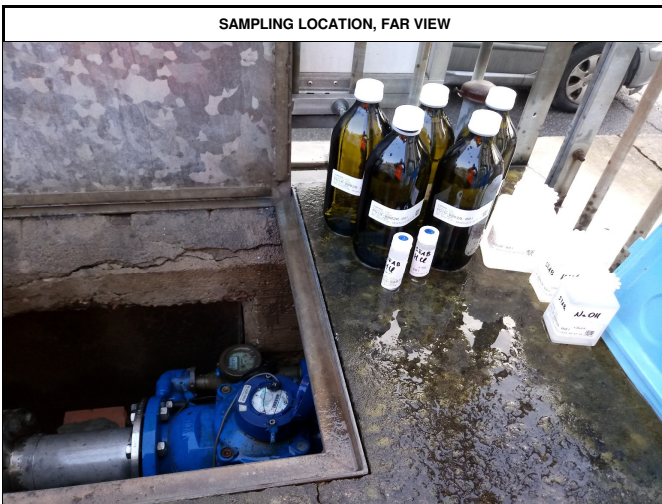
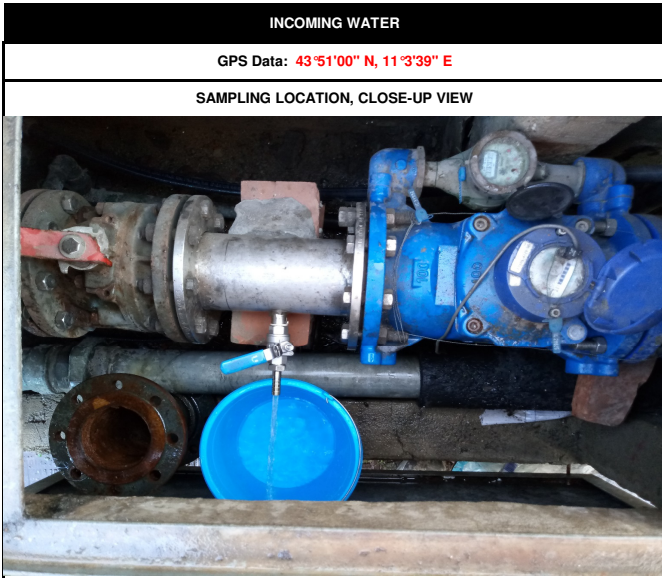
ORGANIC & INORGANIC ANALYSIS

Report No.: PD18-00020 Factory Name: Tintoria Fiordiluce Factory Address: Via Del Molinuzzo, 10 - Prato			Sample ID			Sample ID			Factory Performance			ZDHC Limits			Sample ID		
			Date of sampling			Date of sampling									Date of sampling		
			Sampling Location			Sampling Location									Sampling Location		
			Sampling start time			Sampling start time									Sampling start time		
			Sampling end time			Sampling end time									Sampling end time		
			Date of sample received			Date of sample received									Date of sample received		
			Sample Description			Sample Description									Sample Description		
ITEMS	CAS No.	METHODS	Reporting Limit	UNIT	Factory Performance			ZDHC Limits			Reporting Limit	UNIT	Sludge ϕ				
					Incoming Water	Raw Wastewater	Discharged Wastewater (In-direct Discharge)	Foundational Limit	Progressive Limit	Aspirational Limit							
Acenaphthene	83-32-9	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	$\mu\text{g/L}$	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Phenanthrene	85-01-8	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	$\mu\text{g/L}$	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Fluorene	86-73-7	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	$\mu\text{g/L}$	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
Naphthalene	91-20-3	With reference to USEPA 8270, DIN 38407-39 or solvent extraction followed by GC/MS analysis	1	$\mu\text{g/L}$	-	-	n.d.	-	-	-	-	-	-	1	mg/kg	-	
2N. Volatile Organic Compounds (VOCs)																	
Benzene	71-43-2	With reference to USEPA 8260B, ISO 11423-1, Purge&Trap, Head-space or Solvent extraction followed by GC/MS analysis	1	$\mu\text{g/L}$	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
Xylene	1330-20-7	With reference to USEPA 8260B, ISO 11423-1, Purge&Trap, Head-space or Solvent extraction followed by GC/MS analysis	1	$\mu\text{g/L}$	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
o-cresol	95-48-7	With reference to USEPA 8260B, USEPA 8270D, ISO 11423-1, Purge&Trap, Head-space or Solvent extraction followed by GC/MS analysis	1	$\mu\text{g/L}$	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
p-cresol	106-44-5	With reference to USEPA 8260B, USEPA 8270D, ISO 11423-1, Purge&Trap, Head-space or Solvent extraction followed by GC/MS analysis	1	$\mu\text{g/L}$	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	
m-cresol	108-39-4	With reference to USEPA 8260B, USEPA 8270D, ISO 11423-1, Purge&Trap, Head-space or Solvent extraction followed by GC/MS analysis	1	$\mu\text{g/L}$	-	-	n.d.	-	-	-	-	-	-	0,1	mg/kg	-	

Remarks:
 n.d. = Not Detected
 N.A. = Not applicable

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SAMPLING PHOTOS



***** END OF REPORT *****