

Test Report

Client: Jack Wolfskin
Factory name: - Supplier 5006 - one facility with 5004 and 5005
Factory Address: -
Report No.: PX/2015/90076a
Date Reported: 2015/10/20
Date Sampled: 2015/09/10
Sample (s): Water

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.



Carry Kuo

Manager



Page (1 of 18)

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



Positive result summary

Ref. No.	ITEMS	CAS No.	METHOD	Water				
				Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement
2.27	Sodium Tetraborate ^{*^}	1303-96-4, 1303-43-4, 12179-04-3, 215-540-4	Acid Digestion with ICP analysis	0.5 µg/L	37.5	222.2	76.4	
2.28	Boron trioxide ^{*^}	1303-86-2	Acid Digestion with ICP analysis	0.5 µg/L	26.3	155.5	53.4	
2.29	Boric acid ^{*^}	10043-35-3, 11113-50-1	Acid Digestion with ICP analysis	0.5 µg/L	46.7	276.2	94.9	
2.30	Antimony trioxide ^{*^}	1309-64-4	Acid Digestion with ICP analysis	0.5 µg/L	-	6.7	-	
5.2	Dibutyltin (DBT)	1002-53-5	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	-	0.02	-	
5.13	Dibutyltin dichloride (DBTC) [*]	683-18-1	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	-	0.03	-	
5.14	Triphenyltin (TPT) [*]	668-34-8	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	-	0.03	-	
7.1	Dichloromethane	75-09-2	Solvent extraction with GC/MS analysis	1 µg/L	2	3	4	
7.2	Chloroform	67-66-3	Solvent extraction with GC/MS analysis	1 µg/L	5	-	2	

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Page (2 of 18)

TWB 5055484



Positive result summary

Ref. No.	ITEMS	CAS No.	METHOD	Water				
				Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement
7.16	Toluene*	108-88-3	Solvent extraction with GC/MS analysis	1 µg/L	-	20	239	
10.4	Total Nickel (Ni)	7440-02-0	Acid Digestion with ICP analysis	1 µg/L	-	2	2	
10.5	Total Hexavalent Chromium (Cr-VI)	18540-29-9	Solvent extraction and derivatisation followed by UV analysis	1 µg/L	-	-	1	
10.7	Total Chromium (Cr)	7440-47-3	Acid Digestion with ICP analysis	1 µg/L	-	3	1	
10.8	Total Copper (Cu)	7440-50-8	Acid Digestion with ICP analysis	1 µg/L	2	11	10	
10.9	Total Zinc (Zn)	7440-66-6	Acid Digestion with ICP analysis	1 µg/L	35	54	45	
10.10	Total Manganese (Mn)	7439-96-5	Acid Digestion with ICP analysis	1 µg/L	3	16	15	
10.11	Total Antimony (Sb)	7440-36-0	Acid Digestion with ICP analysis	1 µg/L	-	6	-	
11.1	Octylphenol	various 140-66-9, 27193-28-8, 1806-26-4	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	-	-	8	

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Page (3 of 18)

TWB 5055485



Positive result summary

Ref. No.	ITEMS	CAS No.	METHOD	Water				
				Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement
11.5	OPEO, n=1~2	various	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	-	-	3	
12.11	PFHXA	307-24-4	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	-	-	0.02	
12.20	PFDA	335-76-2	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	-	-	0.01	
14.18	Naphthalene	91-20-3	Solvent extraction with GC/MS analysis	1 µg/L	5	4	5	
15.1	BOD (5-day)	-	SM 5210	2 mg/L	-	653	146	
15.2	COD	-	USEPA 410.4 or SM 5220D	5 mg/L	-	3070	229	
15.3	TSS	-	SM 2540D	5 mg/L	-	350	55	
15.4	TDS	-	SM 2540C	5 mg/L	110	532	334	
15.6	Sulfide	-	SM 4500-S2-D	0.005 mg/L	0.020	0.202	0.027	

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Page (4 of 18)

TWB 5055486



Positive result summary

Ref. No.	ITEMS	CAS No.	METHOD	Water				
				Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement
15.8	Colour	-	USEPA 110.2 or SM 2120B or ISO 7887-2011 Method D	5 CU	-	-	30	
15.9	Total phenolics	-	SM 5530B	0.002 mg/L	0.003	0.017	0.071	
15.10	Ca Hardness	-	SM 2340B	5 mg/L	62	63	80	
15.11	Mg Hardness	-	SM 2340B	5 mg/L	30	28	37	
15.12	AOX	-	-	20 µg/L	26	27000	370	

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90076a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				
				Waste Waister Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)
1	Phthalates							
1.1	Di-Butyl Phthalate (DBP)	84-74-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1
1.2	Di(2-Ethyl Hexyl) Phthalate(DEHP)	117-81-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1
1.3	Benzyl Butyl Phthalate (BBP)	85-68-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1
1.4	Di-Iso-Nonyl Phthalate (DINP)	28553-12-0, 68515-48-0	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1
1.5	Di-N-Octyl Phthalate (DNOP)	117-84-0	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1
1.6	Di-Iso-Decyl Phthalate (DIDP)	26761-40-0, 68515-49-1	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1
1.7	Di-Iso-Butyl Phthalate (DIBP)	84-69-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1
1.8	Di-N-Hexyl Phthalate (DNHP)	84-75-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1
1.9	Bis(2-methoxyethyl)phthalate (DMEP)*	117-82-8	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1
1.10	1,2-Benzenedicarboxylic acid, Di-C7-11 Branched and Linear Alkyl Esters (DHNUP)*	68515-42-4	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1
1.11	Di-Iso-Hexyl Phthalate (DIHP)*	71888-89-6	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1
1.12	Di-pentylphthalate (n-, iso-, or mixed) (DPP)*	131-18-0	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1
2	Halogenated Flame retardants							
2.1	Polybrominated biphenyls (PBBs)	59536-65-1 various	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.2	Monobromo biphenyls (MonoBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.3	Dibromo biphenyls (DiBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.4	Tribromo biphenyls (TriBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.5	Tetrabromo biphenyls (TetraBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.6	Pentabromo biphenyls (PentaBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.7	Hexabromo biphenyls (HexaBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.8	Heptabromo biphenyls (HeptaBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.9	Octabromo biphenyls (OctaBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.10	Nonabromo biphenyls (NonaBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.11	Decabromo biphenyls (DecaBB)	13654-09-6 various	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.12	Monobromo diphenyl ethers (MonoBDE)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.13	Dibromo diphenyl ethers (DiBDE)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.14	Tribromo diphenyl ethers (TriBDE)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.15	Tetrabromo diphenyl ethers (TetraBDE)	40088-47-9	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.16	Pentabromo diphenyl ethers (PentaBDE)	32534-81-9	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.17	Hexabromo diphenyl ethers (HexaBDE)	36483-60-0	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.18	Heptabromo diphenyl ethers (HeptaBDE)	68928-80-3	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.19	Octabromo diphenyl ethers (OctaBDE)	32536-52-0	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.20	Nonabromo diphenyl ethers (NonaBDE)	63936-56-1	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05
2.20	Decabromo diphenyl ethers (DecaBDE)	1163-19-5	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of its instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Page (6 of 18)

INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90076a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				
				Waste Waster Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)
				0.5 µg/L	<0.5	<0.5	<0.5	
				0.05 µg/L	<0.05	<0.05	<0.05	
				0.5 µg/L	<0.5	<0.5	<0.5	
2.21	Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	Solvent extraction with GC/MS or LC/MS analysis	0.5 µg/L	<0.5	<0.5	<0.5	
2.22	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Solvent extraction with GC/MS or LC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	
2.23	Hexabromocyclododecane (HBCDD)	134237-50-6, 134237-51-7, 134237-52-8, 25637-99-4, 3194-55-6	Solvent extraction with GC/MS or LC/MS analysis	0.5 µg/L	<0.5	<0.5	<0.5	
2.24	Tetrabromobisphenol A (TBBPA)	79-94-7	Solvent extraction with GC/MS or LC/MS analysis	0.5 µg/L	<0.5	<0.5	<0.5	
Subgroup: Other Flame Retardants								
2.25	Tris(1-aziridinyl)phosphine oxide (TEPA)*	5455-55-1	Solvent extraction with GC/MS or LC/MS analysis	0.5 µg/L	<0.5	<0.5	<0.5	
2.26	Bis(2,3-dibromopropyl)phosphate (BIS)*	5412-25-9	Solvent extraction with GC/MS or LC/MS analysis	0.5 µg/L	<0.5	<0.5	<0.5	
2.27	Sodium Tetraborate**	1303-96-4, 1303-43-4, 12179-04-3, 215-540-4	Acid Digestion with ICP analysis	0.5 µg/L	37.5	222.2	76.4	
2.28	Boron trioxide**	1303-86-2	Acid Digestion with ICP analysis	0.5 µg/L	26.3	155.5	53.4	
2.29	Boric acid**	10043-35-3, 11113-50-1	Acid Digestion with ICP analysis	0.5 µg/L	46.7	276.2	94.9	
2.30	Antimony trioxide**	1309-64-4	Acid Digestion with ICP analysis	0.5 µg/L	<0.5	6.7	<0.5	
2.31	Tri-o-cresyl phosphate*	78-30-8	Solvent extraction with GC/MS or LC/MS analysis	0.5 µg/L	<0.5	<0.5	<0.5	
2.32	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)*	13674-87-8	Solvent extraction with GC/MS or LC/MS analysis	0.5 µg/L	<0.5	<0.5	<0.5	
3 Amines (Associated with Azo dyes)								
3.1	4-Aminodiphenyl	92-67-1	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01 µg/L	<0.01	<0.01	<0.01	
3.2	Benzidine	92-87-5	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01 µg/L	<0.01	<0.01	<0.01	
3.3	4-Chloro-o-Toluidine	95-69-2	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01 µg/L	<0.01	<0.01	<0.01	
3.4	2-Naphthylamine	91-59-8	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01 µg/L	<0.01	<0.01	<0.01	
3.5	o-Aminoazotoluene	97-56-3	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01 µg/L	<0.01	<0.01	<0.01	

Page (7 of 18)

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90076a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				
				Waste Waster Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)
4	Subgroup: Carcinogenic Dyes							
4.1	Acid Red 26*	3761-53-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.2	Basic Red 9*	569-61-9	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.3	Basic Violet 14*	632-99-5	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.4	Direct Blue 6*	2602-46-2	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.5	Direct Red 28*	573-58-0	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.6	Direct Black 38*	1937-37-7	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.7	Disperse Blue 1*	2475-45-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.8	Disperse Yellow 3*	2832-40-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.9	Disperse Orange 11*	82-28-0	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.10	Disperse Yellow 23*	6250-23-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.11	Disperse Orange 149*	85136-74-9	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.12	Solvent Yellow 1*	60-09-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.13	Solvent Yellow 2*	60-11-7	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.14	Solvent Yellow 3*	97-56-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.15	Solvent Yellow 14*	842-07-9	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.16	Basic Blue 26*	2580-56-5	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.17	Basic Violet 1*	8004-87-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.18	Direct Brown 95*	16071-86-6	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.19	Direct Blue 15*	2429-74-5	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.20	Direct Blue 218*	28407-37-6	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.21	Acid Red 114*	6459-94-5	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.22	Acid Violet 49*	1694-09-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
	Subgroup: Allergic Disperse Dyes							
4.23	Disperse Blue 1*	2475-45-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.24	Disperse Blue 3*	2475-46-9	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.25	Disperse Blue 7*	3179-90-6	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.26	Disperse Blue 26*	3860-63-7	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.27	Disperse Blue 35*	12222-75-2	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.28	Disperse Blue 102*	12222-97-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.29	Disperse Blue 106*	12223-01-7	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.30	Disperse Blue 124*	61951-51-7	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.31	Disperse Brown 1*	23355-64-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.32	Disperse Orange 1*	2581-69-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.33	Disperse Orange 3*	730-40-5	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.34	Disperse Orange 37/76*	13301-61-6	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.35	Disperse Red 1*	2872-52-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Page (9 of 18)



INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90076a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)
4.36	Disperse Red 11*	2872-48-2	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.37	Disperse Red 17*	3179-89-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.38	Disperse Yellow 1*	119-15-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.39	Disperse Yellow 3*	2832-40-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.40	Disperse Yellow 9*	6373-73-5	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.41	Disperse Yellow 39*	12236-29-2	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
4.42	Disperse Yellow 49*	54824-37-2	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
5	Organotin compounds							
5.1	Monobutyltin (MBT)	1118-46-3	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01	
5.2	Dibutyltin (DBT)	1002-53-5	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	0.02	<0.01	
5.3	Tributyltin (TBT)	56573-85-4	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01	
5.4	Triphenyltin (TPHT)	892-20-6	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01	
5.5	Diethyltin (DOT)	94410-05-6	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01	
5.6	Monooctyltin (MOT)	15231-44-4	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01	
5.7	Diphenyltin (DPHT)	1011-95-6	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01	
5.8	Tetrabutyltin (TeBT)	1461-25-2	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01	
5.9	Tricyclohexyltin (TCyT)	NA	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01	
5.10	Tripropyltin (TPT)	NA	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01	
5.11	Tetraethyltin (TeET)	597-64-8	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01	
5.12	Bis(tributyltin) oxide (TBTO)*	56-35-9	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01	
5.13	Dibutyltin dichloride (DBTC)*	683-18-1	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	0.03	<0.01	
5.14	Triphenyltin (TPT)*	668-34-8	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	0.03	<0.01	

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document and its contents are not to be used for any other purpose without the prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Page (10 of 18)



INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90076a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				
				Waste Waster Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)
5.15	Dibutyltin hydrogen borate (DBB)*	75113-37-0	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01	
6	Chloro- Benzenes							
6.1	Dichlorobenzenes							
6.2	1,2-Dichlorobenzene	95-50-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.3	1,3-Dichlorobenzene	541-73-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.4	1,4-Dichlorobenzene	106-46-7	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.5	Trichlorobenzene	various	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.6	1,2,3-Trichlorobenzene	87-61-6	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.7	1,2,4-Trichlorobenzene	120-82-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.8	1,3,5-Trichlorobenzene	108-70-3	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.9	Tetrachlorobenzene	12408-10-5	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.10	1,2,3,4-Tetrachlorobenzene	634-66-2	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.11	1,2,3,5-Tetrachlorobenzene	634-90-2	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.12	1,2,4,5-Tetrachlorobenzene	95-94-3	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.13	Pentachlorobenzene	608-93-5	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.14	Hexachlorobenzene	118-74-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.15	Chloro-Toluenes							
6.16	2-chlorotoluene*	95-49-8	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.17	3-chlorotoluene*	108-41-8	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.18	4-chlorotoluene*	106-43-4	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.19	2,3-dichlorotoluene*	32768-54-0	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.20	2,4-dichlorotoluene*	95-73-8	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.21	2,5-dichlorotoluene*	19398-61-9	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.22	2,6-dichlorotoluene*	118-89-4	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.23	3,4-dichlorotoluene*	95-75-0	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.24	2,4,5-trichlorotoluene*	2077-46-5	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.25	Benzotrifluoride*	6839-30-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.26	alpha 2,4-trichlorotoluene*	98-07-7	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.27	alpha 2,6-trichlorotoluene*	94-99-5	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.28	alpha 3,4-trichlorotoluene*	2014-83-7	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.29	alpha, alpha, 2-tetrachlorotoluene*	102-47-6	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.30	alpha, alpha, 2-tetrachlorotoluene*	81-19-6	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.31	alpha, alpha, 2-tetrachlorotoluene*	2136-89-2	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.32	alpha, alpha, 4-tetrachlorotoluene*	5216-25-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	
6.33	2,3,4,5,6-pentachlorotoluene*	877-11-2	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02	

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90076a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				
				Waste Waister Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)
7	Chlorinated solvents							
7.1	Dichloromethane	75-09-2	Solvent extraction with GC/MS analysis	1 µg/L	2	3	4	
7.2	Chloroform	67-66-3	Solvent extraction with GC/MS analysis	1 µg/L	5	<1	2	
7.3	Tetrachloromethane	56-23-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.4	1,1,2-Trichloroethane	79-00-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.5	1,1-Dichloroethane	75-34-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.6	1,2-Dichloroethane	107-06-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.7	Trichloroethylene	79-01-6	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.8	Perchloroethylene	127-18-4	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.9	1,1,1-trichloroethane	71-55-6	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.10	1,1,1,2-Tetrachloroethane	630-20-6	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.11	1,1,2,2-Tetrachloroethane	79-34-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.12	Pentachloroethane	76-01-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.13	1,1-Dichloroethylene	75-35-4	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.14	Other VOCs							
7.15	Methyl-ethyl ketone*	78-93-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.16	Benzene*	71-43-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.17	Toluene*	108-88-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	20	239	
7.18	Ethylbenzene*	100-41-4	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.19	Xylene*	1330-20-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.20	Styrene*	100-42-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.21	Cyclohexanone*	108-94-1	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.22	2-ethoxyethylacetate*	111-15-9	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.23	1,2,3-trichloropropane*	96-18-4	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.24	Acetophenone*	98-86-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.25	N,N-dimethylformamide*	68-12-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.26	1-methyl-2-pyrrolidone*	872-50-4	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.27	2-phenyl-2-propanone*	617-94-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
7.28	Bis-(2-methoxyethyl) ether*	111-96-6	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
	N,N-dimethylacetamide*	127-19-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
8	Chloro- Phenols							
8.1	Pentachlorophenols (PCP)	87-86-5	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5	
	Tetrachlorophenols (TeCP)	25167-83-3						

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Page (12 of 18)

INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90076a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				
				Waste Waster Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)
8.2	2,3,4,5-Tetrachlorophenol	4901-51-3	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5	
8.3	2,3,4,6-Tetrachlorophenol	58-90-2	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5	
8.4	2,3,5,6-tetrachlorophenol	935-95-5	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5	
	Trichlorophenol (TriCP)	25167-82-2						
8.5	2,4,6-trichlorophenol	88-06-2	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5	
8.6	2,3,4-trichlorophenol	15950-66-0	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5	
8.7	2,3,5-trichlorophenol	933-78-8	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5	
8.8	2,3,6-trichlorophenol	933-75-5	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5	
8.9	2,4,5-trichlorophenol	95-95-4	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5	
8.10	3,4,5-trichlorophenol	609-19-8	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5	
	Dichlorophenols (DiCP)	25167-81-1						
8.11	2,3-dichlorophenol	576-24-9	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5	
8.12	2,4-dichlorophenol	120-83-2	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5	
8.13	2,5-dichlorophenol	583-78-8	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5	
8.14	3,4-dichlorophenol	95-77-2	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5	
8.15	3,5-dichlorophenol	591-35-5	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5	
8.16	Mono Chlorophenol	Various	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5	
9	Short Chain Chlorinated Paraffins (SCCP) with C10 -C13							
9.1	Short Chain Chlorinated Paraffins (SCCP), C ₁₀ -C ₁₃	85535-84-8	Solvent extraction with GC/MS and GC/MS analysis	0.4 µg/L	<0.4	<0.4	<0.4	
10	Heavy Metals							

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Page (13 of 18)

INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90076a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)
10.1	Total Cadmium (Cd)	7440-43-9	Acid Digestion with ICP analysis	0.1 µg/L	<0.1	<0.1	<0.1	
10.2	Total Lead (Pb)	7439-92-1	Acid Digestion with ICP analysis	1 µg/L	<1	<1	<1	
10.3	Total Mercury (Hg)	7439-97-6	Acid Digestion with ICP analysis	0.05 µg/L	<0.05	<0.05	<0.05	
10.4	Total Nickel (Ni)	7440-02-0	Acid Digestion with ICP analysis	1 µg/L	<1	2	2	
10.5	Total Hexavalent Chromium (Cr-VI)	18540-29-9	Solvent extraction and derivatization followed by UV analysis	1 µg/L	<1 ^a	<1 ^a	1	
10.6	Total Arsenic (As)	7440-38-2	Acid Digestion with ICP analysis	1 µg/L	<1	<1	<1	
10.7	Total Chromium (Cr)	7440-47-3	Acid Digestion with ICP analysis	1 µg/L	<1	3	1	
10.8	Total Copper (Cu)	7440-50-8	Acid Digestion with ICP analysis	1 µg/L	2	11	10	
10.9	Total Zinc (Zn)	7440-66-6	Acid Digestion with ICP analysis	1 µg/L	35	54	45	
10.10	Total Manganese (Mn)	7439-96-5	Acid Digestion with ICP analysis	1 µg/L	3	16	15	
10.11	Total Antimony (Sb)	7440-36-0	Acid Digestion with ICP analysis	1 µg/L	<1	6	<1	
10.12	Total Cobalt (Co)*	7440-48-4	Acid Digestion with ICP analysis	1 µg/L	<1	<1	<1	
11	Alkylphenols (APEOs)							
11.1	Octylphenol	various 140-66-9, 27193-28-8, 1806-26-4	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	<1	<1	8	
11.2	Nonylphenol	various 25154-52-3, 104-40-5, 90481-04-2, 84852-15-3, 1173019-62-9	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	<1	<1	<1	
11.3	NPEO, n=1~2	various various	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	<1	<1	<1	
11.4	NPEO, n=3~18	9016-45-9, 26027-38-3 68412-54-4, 127087-87-0, 37205-87-1	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	<1	<1	<1	
11.5	OPEO, n=1~2	various	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	<1	<1	3	
11.6	OPEO, n=3~18	various 9002-93-1, 9036-19-5, 68987-90-6	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	<1	<1	<1	
12	PFCs (Perfluorocarbon / Polyfluorinated Compounds)							
12.1	PFOA	335-67-1	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Page (14 of 18)

INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90076a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)
12.2	PFNA	375-95-1	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.3	PFBS	375-73-5, 59933-66-3	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.4	PFOS	1763-23-1	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.5	POSF	307-35-7	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.6	4:2 FTOH	2043-47-2	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
12.7	6:2 FTOH	647-42-7	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
12.8	8:2 FTOH	678-39-7	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
12.9	10:2 FTOH	865-86-1	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
12.10	PFHXS	355-46-4	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.11	PFHXA	307-24-4	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.12	PFOSA	754-91-6	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	0.02	
12.13	N-Me-FOSA	31506-32-8	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
12.14	N-Et-FOSA	4151-50-2	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
12.15	N-Me-FOSE alcohol	24448-09-7	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
12.16	N-Et-FOSE alcohol	1691-99-2	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
12.17	PFBA	375-22-4	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.18	PFPeA	2706-90-3	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.19	PFHpA	375-85-9	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.20	PFDA	335-76-2	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	0.01	



INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90076a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)
12.21	PFUnA	2058-94-8	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.22	PFDoA	307-55-1	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.23	PFTra	72629-94-8	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.24	PFTeA	376-06-7	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.25	PFHpS	375-92-8	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.26	PFDS	335-77-3	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.27	6:2 FTA	17527-29-6	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
12.28	8:2 FTA	27905-45-9	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
12.29	10:2 FTA	17741-60-5	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	
12.30	PF-3,7-DMOA	172155-07-6	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.31	HPFHpA	1546-95-8	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.32	4HPFUnA	34598-33-9	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
12.33	1H, 1H, 2H, 2H- PFOS	27619-97-2	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	
13	Ortho- Phenylphenol							
13.1	o-Phenylphenol (OPP)	90-43-7	Solvent extraction followed by GC/MS analysis.	-	-	-	-	
14	Polycyclic Aromatic Hydrocarbons (PAHs)							
14.1	Benzo[a]pyrene (BaP)	50-32-8	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
14.2	Anthracene	120-12-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
14.3	Pyrene	129-00-0	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
14.4	Benzo[ghi]perylene	191-24-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
14.5	Benzo[k]pyrene	192-97-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
14.6	Indeno[1,2,3-cd]pyrene	193-39-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	
14.7	Benzo[j]fluoranthene	205-82-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Page (16 of 18)



INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90076a

Factory:-

Sampling Address:-

Report No.: PX/2015/90076a				Sampling Address:-			
Factory:-				Sampling Location			
				15:25-16:00		16:03-16:35	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
				2015/09/10		2015/09/10	
</							

Remark:

*Best current testing technology using lowest detection

^The test result is based on the calculation of selected element(s) and to the worst-case scenario

^The sample is diluted before testing due to matrix interference.

†AOX testing was performed by SGS Nederland BV.

End of Report

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Page (17 of 18)

TWB 5055512

PHOTOGRAPHS

INLET



BEFORE TREATMENT



AFTER TREATMENT



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

TWB 5055500