

Test Report

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

REMARKS

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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)

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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	

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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	

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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	

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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	

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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-Isobutyl 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-Isodecyl Phthalate (DIDP)	26761-40-0, 68515-49-1	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1
1.7	Di-Isobutyl 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-Isobutyl 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

Page (6 of 18)

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TWB 5055501

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)

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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
3.6	2-Amino-4-Nitrotoluene	99-55-8	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
3.7	p-Chloroaniline	106-47-8	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
3.8	2,4-Diaminoanisole	615-05-4	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
3.9	4,4'-Diaminodiphenylmethane	101-77-9	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
3.10	3,3'-Dichlorobenzidine	91-94-1	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
3.11	3,3'-Dimethoxybenzidine	119-90-4	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
3.12	3,3'-Dimethylbenzidine	119-93-7	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
3.13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	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
3.14	p-Cresidine	120-71-8	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
3.15	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	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
3.16	4,4'-Oxydianiline	101-80-4	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
3.17	4,4'-Thiodianiline	139-65-1	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
3.18	o-Toluidine	95-53-4	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
3.19	2,4-Toluylenediamine	95-80-7	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
3.20	2,4,5-Trimethylaniline	137-17-7	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
3.21	o-Anisidine	90-04-0	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
3.22	p-Aminoazobenzene	60-09-3	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
3.23	2,4-Xylydine	95-68-1	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
3.24	2,6-Xylydine	87-62-7	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

Water			
Sampling Location	-	-	-
Sampling Time	15:25~16:00	16:03~16:35	16:37~17:05
Date Sampled	2015/09/10	2015/09/10	2015/09/10
Date Received	2015/09/10	2015/09/10	2015/09/10
Sample Description	-	-	-

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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	

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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	<0.01	<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	

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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*	118-69-4	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	

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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						

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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							

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Page (13 of 18)

INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90076a

Factory:-

Sampling Address:-

Sampling Location	-	-	-
Sampling Time	15:25~16:00	16:03~16:35	16:37~17:05
Date Sampled	2015/09/10	2015/09/10	2015/09/10
Date Received	2015/09/10	2015/09/10	2015/09/10
Sample Description	-	-	-

Ref. No.	ITEMS	CAS No.	METHOD	Water			
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment
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

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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	0.02	
12.12	PFOSA	754-91-6	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	
12.13	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	PFDaA	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	

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Page (16 of 18)



INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90076a

Factory:-

Sampling Address:-

Report No.: PX/2015/90076a Factory:- Sampling Address:-				<table><tr><td>Sampling Location</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Sampling Time</td><td>15:25-16:00</td><td>16:03-16:35</td><td>16:37-17:05</td></tr><tr><td>Date Sampled</td><td>2015/09/10</td><td>2015/09/10</td><td>2015/09/10</td></tr><tr><td>Date Received</td><td>2015/09/10</td><td>2015/09/10</td><td>2015/09/10</td></tr><tr><td>Sample Description</td><td>-</td><td>-</td><td>-</td></tr></table>	Sampling Location	-	-	-	Sampling Time	15:25-16:00	16:03-16:35	16:37-17:05	Date Sampled	2015/09/10	2015/09/10	2015/09/10	Date Received	2015/09/10	2015/09/10	2015/09/10	Sample Description	-	-	-
Sampling Location	-	-	-																					
Sampling Time	15:25-16:00	16:03-16:35	16:37-17:05																					
Date Sampled	2015/09/10	2015/09/10	2015/09/10																					
Date Received	2015/09/10	2015/09/10	2015/09/10																					
Sample Description	-	-	-																					
Ref. No.	ITEMS	CAS No.	METHOD	Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)																
14.8	Benzofluoranthene	205-99-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1																	
14.9	Fluoranthene	206-44-0	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1																	
14.10	Benzofluoranthene	207-08-9	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1																	
14.11	Acenaphthylene	208-96-8	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1																	
14.12	Chrysene	218-01-9	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1																	
14.13	Dibenz[a,h]anthracene	53-70-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1																	
14.14	Benzofluoranthene	56-55-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1																	
14.15	Acenaphthene	83-32-9	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1																	
14.16	Phenanthrene	85-01-8	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1																	
14.17	Fluorene	86-73-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1																	
14.18	Naphthalene	91-20-3	Solvent extraction with GC/MS analysis	1 µg/L	5	4	5																	
15	General Chemistry																							
15.1	BOD (5-day)	-	SM 5210	2 mg/L	<2	653	146																	
15.2	COD	-	USEPA 410.4 or SM 5220D	5 mg/L	<5	3070	229																	
15.3	TSS	-	SM 2540D	5 mg/L	<5	350	55																	
15.4	TDS	-	SM 2540C	5 mg/L	110	532	334																	
15.5	Cyanide	-	APHA 4500 CN—B,C & E	0.01 mg/L	<0.01	<0.01	<0.01																	
15.6	Sulfide	-	SM 4500-S2-D	0.005 mg/L	0.020	0.202	0.027																	
15.7	pH Value	-	SM 54500H+ USEPA 110.2 or SM 2120B or ISO 7887-2011	-	7.9(27.3 °C)	7.9(29.3 °C)	7.1(28.0 °C)																	
15.8	Colour	-	Method D	5 CU	<5	<5	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																	
15.13	Percentage moisture	-	in-house method	-	-	-	-																	

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

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Page (17 of 18)

TWB 5055512

PHOTOGRAPHS

INLET



BEFORE TREATMENT



AFTER TREATMENT



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TWB 5055500