

Test Report

Client: Jack Wolfskin
Factory name: - **Supplier 5488**
Factory Address: -
Report No.: PX/2015/90077~78a
Date Reported: 2015/10/20
Date Sampled: 2015/09/10
Sample (s): Water, Sludge

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





Positive result summary

Ref. No.	ITEMS	CAS No.	METHOD	Water				Sludge		
				Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement	Reporting Limit	Sludge
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	37.0	85.6	75.9		0.25 mg/kg	145.82
2.28	Boron trioxide**	1303-86-2	Acid Digestion with ICP analysis	0.5 µg/L	25.9	59.9	53.1		0.25 mg/kg	102.07
2.29	Boric acid**	10043-35-3, 11113-50-1	Acid Digestion with ICP analysis	0.5 µg/L	46.0	106.4	94.4		0.25 mg/kg	181.30
2.30	Antimony trioxide**	1309-64-4	Acid Digestion with ICP analysis	0.5 µg/L	-	0.6	149.6		0.25 mg/kg	317.23
7.1	Dichloromethane	75-09-2	Solvent extraction with GC/MS analysis	1 µg/L	3	5	3		0.3 mg/kg	-
7.2	Chloroform	67-66-3	Solvent extraction with GC/MS analysis	1 µg/L	3	-	-		0.3 mg/kg	-
10.1	Total Cadmium (Cd)	7440-43-9	Acid Digestion with ICP analysis	0.1 µg/L	-	0.1	0.2		1 mg/kg	-
10.2	Total Lead (Pb)	7439-92-1	Acid Digestion with ICP analysis	1 µg/L	-	4	1		1 mg/kg	7
10.3	Total Mercury (Hg)	7439-97-6	Acid Digestion with ICP analysis	0.05 µg/L	-	-	-		0.006 mg/kg	0.079
10.4	Total Nickel (Ni)	7440-02-0	Acid Digestion with ICP analysis	1 µg/L	-	-	1		1 mg/kg	4
10.5	Total Hexavalent Chromium (Cr-VI)	18540-29-9	Solvent extraction and derivatisation followed by UV analysis	1 µg/L	2	-	1		1 mg/kg	1
10.6	Total Arsenic (As)	7440-38-2	Acid Digestion with ICP analysis	1 µg/L	-	-	-		1 mg/kg	6
10.7	Total Chromium (Cr)	7440-47-3	Acid Digestion with ICP analysis	1 µg/L	-	-	-		1 mg/kg	14
10.8	Total Copper (Cu)	7440-50-8	Acid Digestion with ICP analysis	1 µg/L	2	2	2		1 mg/kg	10
10.9	Total Zinc (Zn)	7440-66-6	Acid Digestion with ICP analysis	1 µg/L	22	32	52		4 mg/kg	358

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Positive result summary

Ref. No.	ITEMS	CAS No.	METHOD	Water				Sludge			
				Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement	Reporting Limit	Sludge	Local Requirement
10.10	Total Manganese (Mn)	7439-96-5	Acid Digestion with ICP analysis	1 µg/L	5	270	262		1 mg/kg	942	
10.11	Total Antimony (Sb)	7440-36-0	Acid Digestion with ICP analysis	1 µg/L	-	-	125		1 mg/kg	265	
10.12	Total Cobalt (Co)*	7440-48-4	Acid Digestion with ICP analysis	1 µg/L	-	-	-		1 mg/kg	4	
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	-	-	3		0.2 mg/kg	1.0	
11.5	OPEO, n=1~2	various	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	-	4	222		0.2 mg/kg	-	
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	-	-	-		0.2 mg/kg	5.8	
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	-	0.02	0.02		0.001 mg/kg	0.012	
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	-	0.02	0.02		0.001 mg/kg	0.001	
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	-	0.03	-		0.001 mg/kg	0.003	

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Positive result summary

Ref. No.	ITEMS	CAS No.	METHOD	Water				Sludge		
				Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement	Reporting Limit	Sludge
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	-	0.03	-		0.001 mg/kg	0.003
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	-	0.02	0.02		0.001 mg/kg	-
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	-	-	-		0.001 mg/kg	0.004
14.18	Naphthalene	91-20-3	Solvent extraction with GC/MS analysis	1 µg/L	5	6	5		0.1 mg/kg	2.0
15.1	BOD (5-day)	-	SM 5210	2 mg/L	-	8	27		-	-
15.2	COD	-	USEPA 410.4 or SM 5220D	5 mg/L	-	25	84		-	-
15.3	TSS	-	SM 2540D	5 mg/L	-	17	9		-	-
15.4	TDS	-	SM 2540C	5 mg/L	82	240	428		-	-
15.5	Cyanide	-	APHA 4500 CN—B,C & E	0.01 mg/L	-	-	-		0.01 mg/kg	0.20
15.6	Sulfide	-	SM 4500-S2-D	0.005 mg/L	0.015	0.019	0.013		-	-
15.8	Colour	-	USEPA 110.2 or SM 2120B or ISO 7887-2011 Method D	5 CU	-	35	50		-	-
15.10	Ca Hardness	-	SM 2340B	5 mg/L	43	60	56		-	-
15.11	Mg Hardness	-	SM 2340B	5 mg/L	21	25	24		-	-
15.12	AOX†	-	-	20 µg/L	-	-	73		10 mg/kg	530
15.13	Percentage moisture	-	in-house method	-	-	-	-		%	13.7

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INORGANIC & ORGANIC ANALYSIS

Report No.: PX201500077-78a

Factory:-

Sampling Address :-

Ref. No.	ITEMS	CAS No.	METHOD	Water				Sludge			
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge	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	0.3 mg/kg	<0.3	<0.3
1.2	Di(2-Ethyl Hexyl) Phthalate (DEHP)	117-81-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1	0.3 mg/kg	<0.3	<0.3
1.3	Benzyl Butyl Phthalate (BBP)	85-68-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1	0.3 mg/kg	<0.3	<0.3
1.4	Di-Isobutyl Phthalate (DIBP)	28553-12-0, 68515-48-0	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1	0.3 mg/kg	<0.3	<0.3
1.5	Di-N-Octyl Phthalate (DNOP)	117-84-0	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1	0.3 mg/kg	<0.3	<0.3
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	0.3 mg/kg	<0.3	<0.3
1.7	Di-iso-Butyl Phthalate (DiBP)	84-69-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1	0.3 mg/kg	<0.3	<0.3
1.8	Di-N-Hexyl Phthalate (DHP)	84-75-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1	0.3 mg/kg	<0.3	<0.3
1.9	Bis(2-methoxyethyl)phthalate (DMEP)*	117-82-8	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1	0.3 mg/kg	<0.3	<0.3
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	0.3 mg/kg	<0.3	<0.3
1.11	Di-iso-Hexyl Phthalate (DiHP)*	71888-89-6	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1	<1	0.3 mg/kg	<0.3	<0.3
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	0.3 mg/kg	<0.3	<0.3
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	0.03 mg/kg	<0.03	<0.03
2.2	Monobromo biphenyls (MonoBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05	0.03 mg/kg	<0.03	<0.03
2.3	Dibromo biphenyls (DiBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05	0.03 mg/kg	<0.03	<0.03
2.4	Tri-bromo biphenyls (TriBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05	0.03 mg/kg	<0.03	<0.03
2.5	Tetrabromo biphenyls (TetraBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05	0.03 mg/kg	<0.03	<0.03
2.6	Pentabromo biphenyls (PentaBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05	0.03 mg/kg	<0.03	<0.03
2.7	Hexabromo biphenyls (HexaBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05	0.03 mg/kg	<0.03	<0.03
2.8	Heptabromo biphenyls (HeptaBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05	0.03 mg/kg	<0.03	<0.03
2.9	Octabromo biphenyls (OctaBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05	0.03 mg/kg	<0.03	<0.03
2.10	Decabromo biphenyls (DecaBB)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05	0.03 mg/kg	<0.03	<0.03
2.11	Polybrominated diphenyl ethers (PBDEs)	13654-09-6 various	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05	0.03 mg/kg	<0.03	<0.03
2.12	Monobromo diphenyl ethers (MonoBDE)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05	0.03 mg/kg	<0.03	<0.03
2.13	Dibromo diphenyl ethers (DiBDE)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05	0.03 mg/kg	<0.03	<0.03
2.14	Tri-bromo diphenyl ethers (TriBDE)	-	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05	0.03 mg/kg	<0.03	<0.03
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	0.03 mg/kg	<0.03	<0.03
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	0.03 mg/kg	<0.03	<0.03
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	0.03 mg/kg	<0.03	<0.03
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	0.03 mg/kg	<0.03	<0.03
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	0.03 mg/kg	<0.03	<0.03
2.20	Decabromo diphenyl ethers (DecaBDE)	63936-56-1	Solvent extraction with GC/MS analysis	0.05 µg/L	<0.05	<0.05	<0.05	<0.05	0.03 mg/kg	<0.03	<0.03
2.21	Tris(2,3-dibromopropyl) phosphate (TRIS)	1163-19-5	Solvent extraction with GC/MS or LC/MS	0.5 µg/L	<0.5	<0.5	<0.5	<0.5	0.25 mg/kg	<0.25	<0.25
2.22	Tris(2-chloroethyl) phosphate (TCEP)	126-72-7	Solvent extraction with GC/MS or LC/MS	0.05 µg/L	<0.05	<0.05	<0.05	<0.05	0.25 mg/kg	<0.25	<0.25
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	<0.5	0.25 mg/kg	<0.25	<0.25
2.24	Tetrabromobisphenol A (TBPPA)	79-94-7	Solvent extraction with GC/MS or LC/MS analysis	0.5 µg/L	<0.5	<0.5	<0.5	<0.5	0.25 mg/kg	<0.25	<0.25
	Subgroup: Other Flame Retardants										

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INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90077-78a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				Sludge			
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge	Local Requirement (if applicable)
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		0.25 mg/kg	<0.25	
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		0.25 mg/kg	<0.25	
2.27	Sodium Tetraborate**	1303-96-4, 1303-43-4,	Acid Digestion with ICP analysis	0.5 µg/L	37.0	85.6	75.9		0.25 mg/kg	145.82	
2.28	Boron trioxide**	12179-04-3, 215-540-4	Acid Digestion with ICP analysis	0.5 µg/L	25.9	59.9	53.1		0.25 mg/kg	102.07	
2.29	Boric acid**	1303-86-2	Acid Digestion with ICP analysis	0.5 µg/L	46.0	106.4	94.4		0.25 mg/kg	181.30	
2.30	Antimony trioxide**	10043-35-3, 11113-50-1	Acid Digestion with ICP analysis	0.5 µg/L	<0.5	0.6	149.6		0.25 mg/kg	317.23	
2.31	Tri-o-cresyl phosphate*	1309-64-4	Solvent extraction with GC/MS or LC/MS analysis	0.5 µg/L	<0.5	<0.5	<0.5		0.25 mg/kg	<0.25	
2.32	Tris (1,3-dichloro-2-propyl) phosphate (TDCPP)*	78-30-8	Solvent extraction with GC/MS or LC/MS analysis	0.5 µg/L	<0.5	<0.5	<0.5		0.25 mg/kg	<0.25	
3	Amines (Associated with Azo dyes)	13674-87-8									
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		0.01 mg/kg	<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		0.01 mg/kg	<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		0.01 mg/kg	<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		0.01 mg/kg	<0.01	
3.5	o-Aminoazobenzene	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		0.01 mg/kg	<0.01	
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		0.01 mg/kg	<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		0.01 mg/kg	<0.01	
3.8	2,4-Diaminoaniline	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		0.01 mg/kg	<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		0.01 mg/kg	<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		0.01 mg/kg	<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		0.01 mg/kg	<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		0.01 mg/kg	<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		0.01 mg/kg	<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		0.01 mg/kg	<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		0.01 mg/kg	<0.01	

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INORGANIC & ORGANIC ANALYSIS

Report No.: PX201590077-78a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				Sludge			
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge	Local Requirement (if applicable)
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		0.01 mg/kg	<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		0.01 mg/kg	<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		0.01 mg/kg	<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		0.01 mg/kg	<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		0.01 mg/kg	<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		0.01 mg/kg	<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		0.01 mg/kg	<0.01	
3.23	2,4-Xyldine	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		0.01 mg/kg	<0.01	
3.24	2,6-Xyldine	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		0.01 mg/kg	<0.01	
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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<0.1	
4.5	Direct Red 28*	573-38-0	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<0.1	
4.16	Basic Blue 26*	2590-56-5	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<0.1	
4.23	Subgroup: Allergenic Disperse Dyes										
4.24	Disperse Blue 1*	2475-45-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1	
4.25	Disperse Blue 3*	2475-46-9	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1	
4.26	Disperse Blue 7*	3179-90-6	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1	
4.27	Disperse Blue 26*	3860-63-7	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<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		0.1 mg/kg	<0.1	

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INORGANIC & ORGANIC ANALYSIS

Report No.: PX201590077-78a

Factory:-

Sampling Address:-

Ref. No	ITEMS	CAS No.	METHOD	Water				Sludge			
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge	Local Requirement (if applicable)
4.28	Disperse Blue 102*	12222-97-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<0.1	
4.34	Disperse Orange 3776*	13301-61-6	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1	
4.35	Disperse Red 1*	2872-92-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1	
4.36	Disperse Red 11*	2872-92-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.1 mg/kg	<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		0.01 mg/kg	<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	<0.01	<0.01		0.01 mg/kg	<0.01	
5.3	Tributyltin (TBT)	58573-85-4	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	
5.4	Triphenyltin (TPnT)	892-20-6	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01		0.01 mg/kg	<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		0.01 mg/kg	<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		0.01 mg/kg	<0.01	
5.7	Diphenyltin (DPnT)	1011-95-6	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	
5.8	Tetraethyltin (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		0.01 mg/kg	<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		0.01 mg/kg	<0.01	
5.10	Tripropyltin (TPnT)	NA	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01		0.01 mg/kg	<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		0.01 mg/kg	<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		0.01 mg/kg	<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		0.01 mg/kg	<0.01	
5.14	Triphenyltin (TPnT)*	668-34-8	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01 µg/L	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	
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		0.01 mg/kg	<0.01	

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INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90077-78a

Factory:-

Sampling Address:-

Ref. No	ITEMS	CAS No.	METHOD	Water				Sludge			
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge	Local Requirement (if applicable)
6	Chloro- Benzenes										
6.1	Dichlorobenzene	95-50-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.2	1,2-Dichlorobenzene	541-73-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.3	1,3-Dichlorobenzene	106-46-7	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.4	Trichlorobenzene	various	Solvent extraction with GC/MS analysis								
6.5	1,2,3-Trichlorobenzene	87-61-6	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.6	1,2,4-Trichlorobenzene	120-82-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.7	Tetrachlorobenzene	108-70-3	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.8	1,2,3,4-Tetrachlorobenzene	12408-10-5	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.9	1,2,3,5-Tetrachlorobenzene	634-66-2	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.10	Pentachlorobenzene	634-90-2	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.11	Hexachlorobenzene	95-94-3	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.12	Chloro-Toluenes	608-93-5	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.13	3-chlorotoluene*	118-74-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.14	4-chlorotoluene*	95-49-8	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.15	2,3-dichlorotoluene*	108-41-8	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.16	2,4-dichlorotoluene*	106-43-4	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.17	2,5-dichlorotoluene*	32768-54-0	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.18	2,6-dichlorotoluene*	95-73-8	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.19	3,4-dichlorotoluene*	19398-61-9	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.20	2,3,6-trichlorotoluene*	118-69-4	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.21	2,4,5-trichlorotoluene*	95-75-0	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.22	Benzotrifluoride	2077-46-5	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.23	alpha,2,4-trichlorotoluene*	6639-30-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.24	alpha,2,6-trichlorotoluene*	98-07-7	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.25	alpha,3,4-trichlorotoluene*	94-99-5	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.26	alpha, alpha, 2,6-tetrachlorotoluene*	2014-83-7	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.27	alpha, alpha, 2,6-tetrachlorotoluene*	102-47-6	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.28	alpha, alpha, 2,6-tetrachlorotoluene*	81-19-6	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
6.29	alpha, alpha, 2,6-tetrachlorotoluene*	2136-89-2	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
7	Chlorinated solvents	5216-25-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
7.1	Dichloromethane	877-11-2	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01	
7.2	Chloroform	75-09-2	Solvent extraction with GC/MS analysis	1 µg/L	3	5	3		0.3 mg/kg	<0.3	
7.3	Tetrachloroethane	67-66-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	
7.4	1,1,2-Trichloroethane	56-23-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	
7.5	1,1-Dichloroethane	79-00-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	
7.6	1,2-Dichloroethane	75-34-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	
7.7	Trichloroethylene	107-06-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	
7.8	Perchloroethylene	79-01-6	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	
7.9	1,1,1-trichloroethane	127-18-4	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	
7.10	1,1,1,2-Tetrachloroethane	71-55-6	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	
7.11	1,1,2,2-Tetrachloroethane	630-20-6	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	

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INORGANIC & ORGANIC ANALYSIS

Report No.: PX201500077-78a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				Sludge			
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge	Local Requirement (if applicable)
7.12	Pentachloroethane	76-01-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	
7.13	1,1-Dichloroethylene	75-35-4	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	
7.14	Other VOCs										
7.15	Methyl-ethyl ketone*	78-93-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.16	Benzene*	71-43-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.17	Toluene*	108-98-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.18	Ethylbenzene*	100-41-4	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.19	Xylene*	1330-20-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.20	Silvrene*	100-42-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.21	Cyclohexanone*	108-94-1	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		2 mg/kg	<2	
7.22	2-ethoxyethylacetate*	111-15-9	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
7.23	1,2,3-trichloropropane*	96-18-4	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
7.24	Acetophenone*	98-86-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.25	N,N-dimethylformamide*	68-12-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.26	1-methyl-2-pyrrolidone*	872-50-4	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		50 mg/kg	<50	
7.27	2-phenyl-2-propanol*	617-94-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.28	Bis(4-methoxyethyl) ether*	111-96-6	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		20 mg/kg	<20	
	N,N-dimethylacetamide*	127-19-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		20 mg/kg	<20	
8	Chloro- Phenols										
8.1	Pentachlorophenols (PCP)	87-86-5	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.2	Tetrachlorophenols (TeCP)	25167-83-3	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.3	2,3,4,5-Tetrachlorophenol	4901-51-3	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.4	2,3,4,6-Tetrachlorophenol	58-90-2	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.5	2,3,5,6-Tetrachlorophenol	935-95-5	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.6	Trichlorophenol (TriCP)	25167-82-2	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.7	2,4,6-trichlorophenol	88-06-2	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.8	2,3,4-trichlorophenol	15950-66-0	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.9	2,3,5-trichlorophenol	933-78-8	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.10	2,3,6-trichlorophenol	933-75-5	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.11	2,4,5-trichlorophenol	95-95-4	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.12	3,4,5-trichlorophenol	609-19-8	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
	Dichlorophenols (DiCP)	25167-81-1	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
	2,3-dichlorophenol	576-24-9	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
	2,4-dichlorophenol	120-83-2	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	

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INORGANIC & ORGANIC ANALYSIS

Report No.: PX201590077-78a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water					Sludge	
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge
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		0.025 mg/kg	<0.025
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		0.025 mg/kg	<0.025
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		0.025 mg/kg	<0.025
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		0.025 mg/kg	<0.025
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		0.03 mg/kg	<0.03
10	Heavy Metals									
10.1	Total Cadmium (Cd)	7440-43-9	Acid Digestion with ICP analysis	0.1 µg/L	<0.1	0.1	0.2		1 mg/kg	<1
10.2	Total Lead (Pb)	7439-92-1	Acid Digestion with ICP analysis	1 µg/L	<1	4	1		1 mg/kg	7
10.3	Total Mercury (Hg)	7439-97-6	Acid Digestion with ICP analysis	1 µg/L	<0.05	<0.05	<0.05		0.006 mg/kg	0.079
10.4	Total Nickel (Ni)	7440-02-0	Acid Digestion with ICP analysis	1 µg/L	<1	<1	1		1 mg/kg	4
10.5	Total Hexavalent Chromium (Cr-VI)	18540-29-9	Solvent extraction and derivatisation followed by UV analysis	1 µg/L	2	<1 ^A	1		1 mg/kg	1
10.6	Total Arsenic (As)	7440-38-2	Acid Digestion with ICP analysis	1 µg/L	<1	<1	<1		1 mg/kg	6
10.7	Total Chromium (Cr)	7440-47-3	Acid Digestion with ICP analysis	1 µg/L	<1	<1	<1		1 mg/kg	14
10.8	Total Copper (Cu)	7440-50-8	Acid Digestion with ICP analysis	1 µg/L	2	2	2		1 mg/kg	10
10.9	Total Zinc (Zn)	7440-66-6	Acid Digestion with ICP analysis	1 µg/L	22	32	52		4 mg/kg	358
10.10	Total Manganese (Mn)	7439-96-5	Acid Digestion with ICP analysis	1 µg/L	5	270	262		1 mg/kg	942
10.11	Total Antimony (Sb)	7440-36-0	Acid Digestion with ICP analysis	1 µg/L	<1	<1	125		1 mg/kg	265
10.12	Total Cobalt (Co)*	7440-48-4	Acid Digestion with ICP analysis	1 µg/L	<1	<1	<1		1 mg/kg	4
11	Alkylphenols (APEOs)									
11.1	Octylphenol	various 140-66-9, 27133-28-8, 1806-26-4	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	<1	<1	3		0.2 mg/kg	1.0
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		0.2 mg/kg	<0.2
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		0.2 mg/kg	<0.2
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		0.2 mg/kg	<0.2
11.5	OPEO, n=1-2	various	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	<1	4	222		0.2 mg/kg	<0.2
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		0.2 mg/kg	5.8

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INORGANIC & ORGANIC ANALYSIS

Report No. PX201590077-78a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				Sludge			
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge	Local Requirement (if applicable)
12	PFCs (Perfluorocarbon / Polyfluorinated Compounds)										
12.1	PFOA	335-67-1	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	0.02	0.02		0.001 mg/kg	0.012	
12.2	PFNA	375-95-1	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	0.02	0.02		0.001 mg/kg	0.001	
12.3	PFBS	375-73-5, 59933-66-3	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.4	PFOS	1763-23-1	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	0.03	<0.01		0.001 mg/kg	0.003	
12.5	POSF	307-35-7	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	0.03	<0.01		0.001 mg/kg	0.003	
12.6	4,2-FTOH	2043-47-2	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.7	6,2-FTOH	647-42-7	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.8	8,2-FTOH	678-39-7	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.9	10,2-FTOH	865-86-1	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.10	PFHXS	355-46-4	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.11	PFHXA	307-24-4	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.12	PFOSA	754-91-6	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.13	N-Me-FOSA	31506-32-8	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.14	N-Et-FOSA	4151-50-2	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.15	N-Me-FOSE alcohol	24448-09-7	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.16	N-Et-FOSE alcohol	1691-99-2	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.17	PFBA	375-22-4	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.18	PFPeA	2706-90-3	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.19	PFHpA	375-85-9	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	0.02	0.02		0.001 mg/kg	<0.001	
12.20	PFDA	335-76-2	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	0.004	
12.21	PFUnA	2058-94-8	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.22	PFDoA	307-55-1	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.23	PFTtA	72629-94-8	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	

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TWB 5055523



INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/00077-78a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water					Sludge	
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge
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		0.001 mg/kg	<0.001
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		0.001 mg/kg	<0.001
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		0.001 mg/kg	<0.001
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		0.01 mg/kg	<0.01
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		0.01 mg/kg	<0.01
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		0.01 mg/kg	<0.01
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		0.001 mg/kg	<0.001
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		0.001 mg/kg	<0.001
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		0.001 mg/kg	<0.001
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		0.001 mg/kg	<0.001
13	Ortho- Phenylphenol									
13.1	O-Phenylphenol (OPP)	90-43-7	Solvent extraction followed by GC/MS analysis.	-	-	-	-		0.025 mg/kg	<0.025
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		10 mg/kg	<10
14.2	Anthracene	120-12-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10
14.3	Pyrene	129-00-0	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10
14.4	Benzo[b]fluoranthene	191-24-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10
14.5	Benzo[k]fluoranthene	192-97-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10
14.6	Indeno[1,2,3-cd]pyrene	193-39-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10
14.7	Benzo[a]fluoranthene	205-82-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10
14.8	Benzo[b]fluoranthene	205-99-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10
14.9	Fluoranthene	206-44-0	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10
14.10	Benzo[k]fluoranthene	207-08-9	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10
14.11	Acenaphthylene	208-96-8	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10
14.12	Chrysene	218-01-9	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10
14.13	Dibenz[a,h]anthracene	53-70-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10
14.14	Benzo[a]anthracene	56-55-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10
14.15	Acenaphthene	83-32-9	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10
14.16	Phenanthrene	85-01-8	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10
14.17	Fluorene	86-73-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10
14.18	Naphthalene	91-20-3	Solvent extraction with GC/MS analysis	1 µg/L	5	6	5		0.1 mg/kg	2.0
15	General Chemistry									
15.1	BOD (5-day)	-	USEPA 410.4 or SM 5220D	2 mg/L	<2	8	27		-	-
15.2	COD	-	SM 2540D	5 mg/L	<5	25	84		-	-
15.3	TSS	-		5 mg/L	<5	17	9		-	-

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INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90077-78a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				Sludge			
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge	Local Requirement (if applicable)
15.4	TDS	-	SM 2540C	5 mg/L	82	240	428	-	-	-	-
15.5	Cyanide	-	APHA 4500 CN-B,C & E	0.01 mg/L	<0.01	<0.01	<0.01	-	0.01 mg/kg	0.20	-
15.6	Sulfide	-	SM 4500-S2-D	0.005 mg/L	0.015	0.019	0.013	-	-	-	-
15.7	pH Value	-	SM 5450H+	-	7.5(28.9°C)	8.0(31.4°C)	7.2(34.5°C)	-	-	-	-
15.8	Colour	-	USEPA 110.2 or SM 2120B or ISO 7887-2011	5 CU	<5	35	50	-	-	-	-
15.9	Total phenolics	-	Method D	0.002 mg/L	<0.002	<0.002	<0.002	-	-	-	-
15.10	Ca Hardness	-	SM 5530B	5 mg/L	43	60	56	-	-	-	-
15.11	Mg Hardness	-	SM 2340B	5 mg/L	21	25	24	-	-	-	-
15.12	AOX ¹	-	SM 2340B	20 µg/L	<20	<20	73	-	10 mg/kg %	530	-
15.13	Percentage moisture	-	in-house method	-	-	-	-	-	-	13.7	-

Remark:

¹Best current testing technology using lowest detection

²The test result is based on the calculation of selected element(s) and to the worst-case scenario

³The sample is diluted before testing due to matrix interference

⁴AOX testing was performed by SGS Nederland BV.

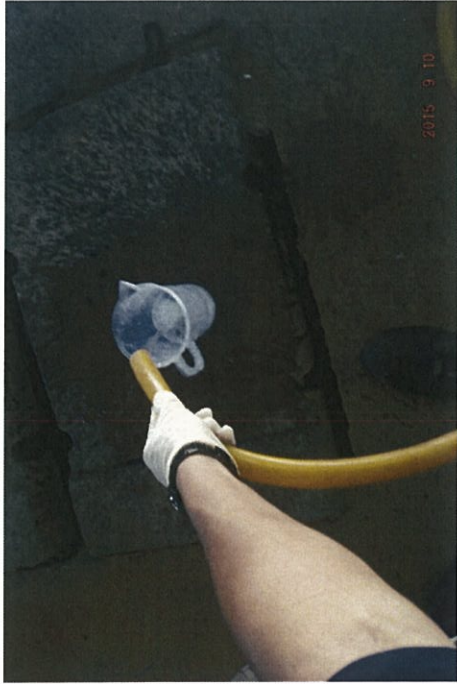
End of Report

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PHOTOGRAPHS

INLET



BEFORE TREATMENT



AFTER TREATMENT



SLUDGE



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