

Test Report

Test Report No.:

222131158

Date: 07-11-2019

Page 1 of 18

Client: Raiyan Knit Composite Ltd. & Tillottama Fashions Ltd.
Address: Word No. 5, Holding No. A-21 & A-21/A, Hortokitola, Chandra, Kaliakoir, Gazipur-1750.
Contact Person: Mr. A.K.M Zahirul Hoque

Buyer's Name : ALDI

Factory Name : Raiyan Knit Composite Ltd. & Tillottama Fashions Ltd.

Factory Address : Word No. 5, Holding No. A-21 & A-21/A, Hortokitola, Chandra, Kaliakoir, Gazipur-1750.

Sample Type : 1. Wastewater after treatment (ETP outlet water)
2. Sludge

Sampling date : 30-10-2019

Testing Period : 30-10-2019 to 07-11-2019

For and on behalf of
TÜV Rheinland Bangladesh Pvt. Ltd.



07-11-2019

Hasem Ali/
Director, Technical & Laboratories

Md. Razibul Hossain/
Report Reviewer

Date

Name/Position

Test result is drawn according to the kind and extent of tests performed. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products. This test report represents the test parameters as requested by the customer based on submitted samples only.

Test specification	Test result:
ALDI M-RSL	
1. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)	Not Detected / Please refer to page 4
2. Phthalates	Not Detected / Please refer to page 5
3. Brominated and Chlorinated Flame Retardants -Subgroup: Other Flame Retardants	Not Detected / Please refer to page 6-7
4. Amines (associated with Azo dyes) -Subgroup: Carcinogenic dyes -Subgroup: Allergenic Disperse Dyes	Not Detected / Please refer to page 8 Not Detected / Please refer to page 9 Not Detected / Please refer to page 10
5. Organotin Compounds	Not Detected / Please refer to page 11
6. Perfluorinated and Polyfluorinated Chemicals (PFCs)	Not Detected / Please refer to page 12
7. Chlorobenzenes & Chloro-Toluenes	Not Detected / Please refer to page 13
8. Chlorinated Solvents & Other VOCs	Not Detected / Please refer to page 14
9. Chlorophenols	Not Detected / Please refer to page 15
10. SCCP	Not Detected / Please refer to page 16
11. Heavy Metals	Detected / Please refer to page 17

Material list:

Material No.	Material
M001	Wastewater after Treatment (ETP outlet water)
M002	Sludge

Sampling Plan

Two sampling points were selected per factory.

- 1) Wastewater after treatment - mixture of 4 individual samples, each taken at a time interval of one hour (agreed with client), and
- 2) Sludge

Sampling procedure is reference to below standards.

- 1) ISO 5667-13:2011 (Part 1,3,10,13 and 15) – Water quality sampling guidance for the preservation and handling of water samples.
- 2) Australia EPA (Victoria) Guidelines (Jun 2009) – Sampling and analysis of waters, wastewater, soils and wastes
- 3) ASTM D3976-92: Standard practice for preparation of sediment samples for chemical analysis

Test Report No.: 222131158

Page 3 of 18

Sampling Point Indication (Map)

Wastewater after treatment: 24°05'08.16"N & 90°23'37.78"E

Sludge collection point: 24°05'08.16"N & 90°23'37.78"E

Sampling Time

Wastewater: Total Sample Volume : 12L				
	1	2	3	4
Sampling Time	11:45 AM	12:45 PM	01:45 PM	02:45 PM

Sludge: Total Sample Size; 1 Kg	
	1
Sampling Time	03: 00 PM

Test Report:
1. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)

Test Method: DIN EN ISO 18857, ASTM D7065, ISO 18254-1, LC-MSMS and GC-MS analysis

Parameter	Result	
	M001 (µg/L)	M002 (mg/kg)
NP	ND	ND
OP	ND	ND
NPEO (n=1-2)	ND	ND
NPEO (n=3-18)	ND	ND
OPEO (n=1-2)	ND	ND
OPEO (n=3-18)	ND	ND

Abbreviation: µg/L = Microgram per liter
 mg/kg = Milligram per kilogram
 RL = Reporting Limit
 ND = Not detected (< Reporting Limit)

Remarks:

List of AP and APEOs being tested

Parameter	CAS No.	Reporting Limit	
		Wastewater (µg/L)	Sludge (mg/kg)
Nonylphenol (NP)	Various (25154-52-3, 104-40-5, 90481-04-2, 84852-15-3)	1	0.2
Octylphenol (OP)	Various (140-66-9, 27193-28-8, 1806-26-4)	1	0.2
Nonylphenol ethoxylates (NPEO n=1-2)	Various	1	0.2
Nonylphenol ethoxylates (NPEO n=2-18)	Various (9016-45-9, 26027-38-3, 68412-54-4, 127087-87-0, 37205-87-1)	1	0.2
Octylphenol ethoxylates (OPEO n=1)	Various	1	0.2
Octylphenol ethoxylates (OPEO n=2-18)	Various (9002-93-1, 9036-19-5, 68987-90-6)	1	0.2

2. Phthalates

Test Method: Ref. ISO 18856, US EPA 8270D, Toluene Extraction, GC-MSMS analysis

Parameter	Result	
	M001 (µg/L)	M002 (mg/kg)
DBP	ND	ND
DEHP	ND	ND
BBP	ND	ND
DINP	ND	ND
DNOP	ND	ND
DIDP	ND	ND
DIBP	ND	ND
DNHP	ND	ND
DMEP	ND	ND
DHNUF	ND	ND
DIHP	ND	ND
DPP	ND	ND

Abbreviation: µg/L = microgram per litre
 mg/kg = milligram per kilogram
 RL = Reporting Limit
 ND = not detected (< Reporting Limit)

Remarks:

List of Phthalates being tested

Parameter	CAS No.	Reporting Limit	
		Wastewater (µg/L)	Sludge (mg/kg)
Di-butyl phthalate (DBP)	84-74-2	1	0.3
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	1	0.3
Benzyl Butyl phthalate (BBP)	85-68-7	1	0.3
Di-iso-nonyl phthalate (DINP)	28553-12-0, 68515-48-0	1	0.3
Di-n-octyl phthalate (DNOP)	117-84-0	1	0.3
Di-iso-decyl phthalate (DIDP)	26761-40-0, 68515-49-1	1	0.3
Di-iso-butyl phthalate (DIBP)	84-69-5	1	0.3
Di-N-Hexyl Phthalate (DNHP)	84-75-3	1	0.3
Di-(2-methoxyethyl) Phthalate (DMEP)	117-82-8	1	0.3
1,2-benzenedicarboxylic acid, di-C7- 11- branched and linearalkyl esters (DHNUF)	68515-42-4	1	0.3
1,2-benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich (DIHP)	71888-89-6	1	0.3
Di-n-pentyl phthalate (DPP)	131-18-0	1	0.3

3. Brominated and Chlorinated Flame Retardants

Test Method: US EPA 8270, US EPA 8321B, US EPA 527, ISO 22032, Toluene Extraction GC-MS, GC-MSMS and LC-MSMS analysis

Parameter	Result	
	M001 (µg/L)	M002 (mg/kg)
Brominated and Chlorinated Flame Retardants		
PBBs	ND	ND
PBDEs	ND	ND
TRIS	ND	ND
TCEP	ND	ND
HBCDD	ND	ND
TBBPA	ND	ND
Other Flame Retardants		
TEPA	ND	ND
Sodium tetraborate*	ND	ND
Boron trioxide*	ND	ND
Boric acid*	ND	ND
Antimony trioxide*	ND	ND
Tri-o-cresyl phosphate	ND	ND
TDCPP	ND	ND

Abbreviation: µg/L = microgram per litre
 mg/kg = milligram per kilogram
 RL = Reporting Limit
 ND = not detected (< Reporting Limit)

Remark: * The substances are tested and calculated in term of its respective elements (eg. B, Sb). The client is strongly advised to review any questionable flame retardants has been used.

Remarks:

List of Flame Retardants being tested

Parameter	CAS No.	Reporting Limit	
		Wastewater (µg/L)	Sludge (mg/kg)
Brominated and Chlorinated Flame Retardants			
Polybrominated biphenyls (PBBs)	various	--	--
Monobromo biphenyls (MonoBB)	--	0.05	0.03
Dibromo biphenyls (DiBB)	--	0.05	0.03
Tribromo biphenyls (TriBB)	--	0.05	0.03
Tetrabromo biphenyls (TetraBB)	--	0.05	0.03
Pentabromo biphenyls (PentaBB)	--	0.05	0.03
Hexabromo biphenyls (HexaBB)	--	0.05	0.03
Heptabromo biphenyls (HeptaBB)	--	0.05	0.03
Octabromo biphenyls (OctaBB)	--	0.05	0.03
Nonabromo biphenyls (NonaBB)	--	0.05	0.03
Decabromo biphenyl (DecaBB)	13654-09-6	0.05	0.03
Polybrominated diphenyl ethers (PBDEs)	various	--	--
Monobromo diphenyl ethers (MonoBDE)	--	0.05	0.03
Dibromo diphenyl ethers (DiBDE)	--	0.05	0.03
Tribromo diphenyl ethers (TriBDE)	--	0.05	0.03
Tetrabromo diphenyl ethers (TetraBDE)	--	0.05	0.03
Pentabromo diphenyl ethers (PentaBDE)	--	0.05	0.03
Hexabromo diphenyl ethers (HexaBDE)	--	0.05	0.03
Heptabromo diphenyl ethers (HeptaBDE)	--	0.05	0.03
Octabromo diphenyl ethers (OctaBDE)	--	0.05	0.03
Nonabromo diphenyl ethers (NonaBDE)	--	0.05	0.03
Decabromo diphenyl ether (DecaBDE)	1163-19-5	0.05	0.03
Tris(2,3-Dibromopropyl)-Phosphate (TRIS)	126-72-7	0.5	0.25
Tris(2-Chloroethyl)Phosphate (TCEP)	115-96-8	0.05	0.25
Hexabromocyclododecane (HBCDD)	134237-50-6, 134237-51-7, 134237-52-8, 25637-99-4, 3194-55-6	0.5	0.25
Tetrabromo-bisphenol A (TBBPA)	79-94-7	0.5	0.25
Other Flame Retardants			
Tris-azirdinyl phosphine oxide (TEPA)	545-55-1	0.5	0.25
Sodium tetraborate	1303-96-4, 1303-43-4, 12179-04-3, 215-540-4	0.5	0.25
Boron trioxide	1303-86-2	0.5	0.25
Boric acid	10043-35-3, 11113-50-1	0.5	0.25
Antimony trioxide	1309-64-4	0.5	0.25
Tri-o-cresyl phosphate	78-30-8	0.5	0.25
Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	13674-87-8	0.5	0.25

4. Amines (associated with Azo dyes)

Test Method: Ref. EN ISO 14362-1&3, LC-MSMS analysis

Parameter	Result	
	M001 (µg/L)	M002 (mg/kg)
Azo dyes	ND	ND

Abbreviation: µg/L = microgram per litre
 mg/kg = milligram per kilogram
 RL = Reporting Limit
 ND = not detected (< Reporting Limit)

Remarks:

List of Amines (associated with Azo dyes) being tested

Parameter	CAS No.	Reporting Limit	
		Wastewater (µg/L)	Sludge (mg/kg)
4-Aminodiphenyl	92-67-1	0.01	0.01
Benzidine	92-87-5	0.01	0.01
4-Chloro-o-Toluidine	95-69-2	0.01	0.01
2-Naphthylamine	91-59-8	0.01	0.01
o-Aminoazotoluene	97-56-3	0.01	0.01
2-Amino-4-Nitrotoluene	99-55-8	0.01	0.01
p-Chloroaniline	106-47-8	0.01	0.01
2,4-Diaminoanisole	615-05-4	0.01	0.01
4,4'-Diaminodiphenylmethane	101-77-9	0.01	0.01
3,3'-Dichlorobenzidine	91-94-1	0.01	0.01
3,3'-Dimethoxybenzidine	119-90-4	0.01	0.01
3,3'-Dimethylbenzidine	119-93-7	0.01	0.01
3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	0.01	0.01
p-Cresidine	120-71-8	0.01	0.01
4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	0.01	0.01
4,4'-Oxydianiline	101-80-4	0.01	0.01
4,4'-Thiodianiline	139-65-1	0.01	0.01
o-Toluidine	95-53-4	0.01	0.01
2,4-Toluylenediamine	95-80-7	0.01	0.01
2,4,5-Trimethylaniline	137-17-7	0.01	0.01
o-Anisidine	90-04-0	0.01	0.01
p-Aminoazobenzene	60-09-3	0.01	0.01
2,4-Xylidine	95-68-1	0.01	0.01
2,6-Xylidine	87-62-7	0.01	0.01

4. Subgroup - Carcinogenic Dyes

Test Method: Solvent extraction, LC-MSMS analysis

Parameter	Result	
	M001 (µg/L)	M002 (mg/kg)
Carcinogenic Dyes	ND	ND

Abbreviation: µg/L = microgram per litre
 mg/kg = milligram per kilogram
 RL = Reporting Limit
 ND = not detected (< Reporting Limit)

Remarks:

List of Carcinogenic Dyes being tested

Parameter	CAS No.	Reporting Limit	
		Wastewater (µg/L)	Sludge (mg/kg)
Acid Red 26	3761-53-3	10	10
Basic Red 9	569-61-9	10	10
Basic Violet 14	632-99-5	10	10
Direct Blue 6	2602-46-2	10	10
Direct Red 28	573-58-0	10	10
Direct Black 38	1937-37-7	10	10
Disperse Blue 1	2475-45-8	10	10
Disperse Yellow 3	2832-40-8	10	10
Disperse Orange 11	82-28-0	10	10
Disperse Yellow 23	6250-23-3	10	10
Disperse Orange 149	85136-74-9	10	10
Solvent Yellow 1	60-09-3	10	10
Solvent Yellow 2	60-11-7	10	10
Solvent Yellow 3	97-56-3	10	10
Solvent Yellow 14	842-07-9	10	10
Basic Blue 26	2580-56-5	10	10
Basic Violet 1	8004-87-3	10	10
Direct Brown 95	16071-86-6	10	10
Direct Blue 15	2429-74-5	10	10
Direct Blue 218	28407-37-6	10	10
Acid Red 114	6459-94-5	10	10
Acid Violet 49	1694-09-3	10	10

4. Subgroup - Allergenic Disperse Dyes

Test Method: Solvent extraction, LC-MSMS analysis

Parameter	Result	
	M001 (µg/L)	M002 (mg/kg)
Carcinogenic Dyes	ND	ND

Abbreviation: µg/L = microgram per litre
 mg/kg = milligram per kilogram
 RL = Reporting Limit
 ND = not detected (< Reporting Limit)

Remarks:

List of Allergenic Disperse Dyes being tested

Parameter	CAS No.	Reporting Limit	
		Wastewater (µg/L)	Sludge (mg/kg)
Disperse Blue 1	2475-45-8	1	1
Disperse Blue 3	2475-46-9	1	1
Disperse Blue 7	3179-90-6	1	1
Disperse Blue 26	3860-63-7	1	1
Disperse Blue 35	12222-75-2	1	1
Disperse Blue 102	12222-97-8	1	1
Disperse Blue 106	12223-01-7	1	1
Disperse Blue 124	61951-51-7	1	1
Disperse Brown 1	23355-64-8	1	1
Disperse Orange 1	2581-69-3	1	1
Disperse Orange 3	730-40-5	1	1
Disperse Orange 37/76	13301-61-6	1	1
Disperse Red 1	2872-52-8	1	1
Disperse Red 11	2872-48-2	1	1
Disperse Red 17	3179-89-3	1	1
Disperse Yellow 1	119-15-3	1	1
Disperse Yellow 3	2832-40-8	1	1
Disperse Yellow 9	6373-73-5	1	1
Disperse Yellow 39	12236-29-2	1	1
Disperse Yellow 49	54824-37-2	1	1

5. Organotin Compounds

Test Method: Ref. DIN EN 17353, GC-MS analysis

Parameter	Result	
	M001 (µg/L)	M002 (mg/kg)
MBT	ND	ND
DBT	ND	ND
TBT	ND	ND
TPhT	ND	ND
DOT	ND	ND
MOT	ND	ND
DPhT	ND	ND
TeBT	ND	ND
TCyT	ND	ND
TPT	ND	ND
TeET	ND	ND
DBB	ND	ND
TBTO	ND	ND
DBTC	ND	ND
TPT	ND	ND

Abbreviation: µg/L = microgram per litre
 mg/kg = milligram per kilogram
 RL = Reporting Limit
 ND = not detected (< Reporting Limit)

Remarks:

List of Organotin Compounds being tested

Parameter	CAS No.	Reporting Limit	
		Wastewater (µg/L)	Sludge (mg/kg)
MBT(Monobutyltin)	1118-46-3	0.01	0.01
DBT(Dibutyltin)	1002-53-5	0.01	0.01
TBT(Tributyltin)	56573-85-4	0.01	0.01
TPhT(Triphenyltin)	892-20-6	0.01	0.01
DOT(Dioctyltin)	94410-05-6	0.01	0.01
MOT(Monooctyltin)	15231-44-4	0.01	0.01
DPhT(Diphenyltin)	1011-95-6	0.01	0.01
TeBT(Tetrabutyltin)	1461-25-2	0.01	0.01
TCyT(TricyclohexylTin)	NA	0.01	0.01
TPT(Tripopyltin)	NA	0.01	0.01
TeET(Tetraethyltin)	597-64-8	0.01	0.01
Dibutyltin hydrogen borate (DBB)	75113-37-0	0.01	0.01
Bis(Tributyltin) Oxide (TBTO)	56-35-9	0.01	0.01
Dibutyltin Chloride (DBTC)	683-18-1	0.01	0.01
TPT	668-34-8	0.01	0.01

6. Perfluorinated and Polyfluorinated Chemicals (PFCs)

Test Method: Ref. DIN 38407-42, CEN /TS 15968:2010, LC-MSMS and GC-MS analysis

Parameter	Result	
	M001 (µg/L)	M002 (mg/kg)
PFCs	ND	ND

Abbreviation: µg/L = microgram per litre
 mg/kg = milligram per kilogram
 RL = Reporting Limit
 ND = not detected (< Reporting Limit)

Remarks:

List of Perfluorinated and Polyfluorinated Chemicals (PFCs) being tested

Parameter	CAS No.	Reporting Limit	
		Wastewater (µg/L)	Sludge (mg/kg)
PFOA	335-67-1	0.01	0.001
PFNA	375-95-1	0.01	0.001
PFBS	375-73-5 or 59933-66-3	0.01	0.001
PFOS	1763-23-1	0.01	0.001
PFHxS	355-46-4	0.01	0.001
PFHxA	307-24-4	0.01	0.001
PFBA	375-22-4	0.01	0.001
PFPeA	2706-90-3	0.01	0.001
PFHpA	375-85-9	0.01	0.001
PFDA	335-76-2	0.01	0.001
PFUnA	2058-94-8	0.01	0.001
PFDoA	307-55-1	0.01	0.001
PFTTrA	72629-94-8	0.01	0.001
PfteA	376-06-7	0.01	0.001
PFHpS	375-92-8	0.01	0.001
PFDS	335-77-3	0.01	0.001
PF-3,7-DMOA	172155-07-6	0.01	0.001
HPFHpA	1546-95-8	0.01	0.001
4HPFUnA	34598-33-9	0.01	0.001
1H, 1H, 2H, 2H-PFOS	27619-97-2	0.01	0.001
POSF	307-35-7	0.1	0.01
PFOSA	754-91-6	0.1	0.01
N-Me-FOSA	31506-32-8	0.1	0.01
N-Et-FOSA	4151-50-2	0.1	0.01
N-Me-FOSE alcohol	24448-09-7	0.1	0.01
N-Et-FOSE alcohol	1691-99-2	0.1	0.01
4:2 FTOH	2043-47-2	0.1	0.01
6:2 FTOH	647-42-7	0.1	0.01
8:2 FTOH	678-39-7	0.1	0.01
10:2 FTOH	865-86-1	0.1	0.01
6:2 FTA	17527-29-6	0.1	0.01
8:2 FTA	27905-45-9	0.1	0.01
10:2 FTA	17741-60-5	0.1	0.01

7. Chlorobenzenes and Chlorotoluenes

Test Method: Ref. US EPA 8260B, US EPA 8270D, ISO 14154, GCMS analysis

Parameter	Result	
	M001 (µg/L)	M002 (mg/kg)
Chloro-Benzenes	ND	ND
Chloro-Toluenes	ND	ND

Abbreviation: µg/L = microgram per litre
 mg/kg = milligram per kilogram
 RL = Reporting Limit
 ND = not detected (< Reporting Limit)

Remarks:

List of Chlorobenzenes and Chlorotoluenes being tested

Parameter	CAS No.	Reporting Limit	
		Wastewater (µg/L)	Sludge (mg/kg)
Chlorobenzenes			
Dichlorobenzenes	Various	0.02	0.01
1,2-Dichlorobenzene	95-50-1	0.02	0.01
1,3-Dichlorobenzene	541-73-1	0.02	0.01
1,4-Dichlorobenzene	106-46-7	0.02	0.01
Trichlorobenzenes	Various	0.02	0.01
1,2,3-Trichlorobenzene	87-61-6	0.02	0.01
1,2,4-Trichlorobenzene	120-82-1	0.02	0.01
1,3,5-Trichlorobenzene	108-70-3	0.02	0.01
Tetrachlorobenzene	12408-10-5	0.02	0.01
1,2,3,4-Tetrachlorobenzene	634-66-2	0.02	0.01
1,2,3,5-Tetrachlorobenzene	634-90-2	0.02	0.01
1,2,4,5-Tetrachlorobenzene	95-94-3	0.02	0.01
Pentachlorobenzene	608-93-5	0.02	0.01
Hexachlorobenzene	118-74-1	0.02	0.01
Chlorotoluenes			
2-Chlorotoluene	95-49-8	0.02	0.01
3-Chlorotoluene	108-41-8	0.02	0.01
4-Chlorotoluene	106-43-4	0.02	0.01
2,3-dichlorotoluene	32768-54-0	0.02	0.01
2,4-dichlorotoluene	95-73-8	0.02	0.01
2,5-dichlorotoluene	19398-61-9	0.02	0.01
2,6-dichlorotoluene	118-69-4	0.02	0.01
3,4-dichlorotoluene	95-75-0	0.02	0.01
2,3,6-Trichlorotoluene	2077-46-5	0.02	0.01
2,4,5-Trichlorotoluene	6639-30-1	0.02	0.01
Benzotrichloride	98-07-7	0.02	0.01
Alpha,2,4-Trichlorotoluene	94-99-5	0.02	0.01
Alpha,2,6-Trichlorotoluene	2014-83-7	0.02	0.01
Alpha,3,4-Trichlorotoluene	102-47-6	0.02	0.01
Alpha, alpha,2,6-tetrachlorotoluene	81-19-6	0.02	0.01
Alpha, alpha, alpha, 2-tetrachlorotoluene	2136-89-2	0.02	0.01
Alpha, alpha,alpha, 4-tetrachlorotoluene	5216-25-1	0.02	0.01
2,3,4,5,6-Pentachlorotoluene	877-11-2	0.02	0.01

8. Chlorinated Solvents and other VOCs

Test Method: Ref. US EPA 8260B, US EPA 5030C, US EPA 8270D, DIN ISO 17070, Purge and trap technique, GCMS analysis

Parameter	Result	
	M001 (µg/L)	M002 (mg/kg)
Chlorinated Solvents	ND	ND
Other VOCs	ND	ND

Abbreviation: µg/L = microgram per litre
 mg/kg = milligram per kilogram
 RL = Reporting Limit
 ND = not detected (< Reporting Limit)

Remarks:

List of Chlorinated Solvent and other VOCs being tested

Parameter	CAS No.	Reporting Limit	
		Wastewater (µg/L)	Sludge (mg/kg)
Chlorinated Solvents			
Dichloromethane	75-09-2	1	0.3
Chloroform	67-66-3	1	0.3
Tetrachloromethane	56-23-5	1	0.3
1,1,2-Trichloroethane	79-00-5	1	0.3
1,1-Dichloroethane	75-34-3	1	0.3
1,2-Dichloroethane	107-06-2	1	0.3
Trichloroethylene	79-01-6	1	0.3
Perchloroethylene	127-18-4	1	0.3
1,1,1-trichloroethane	71-55-6	1	0.3
1,1,1,2-Tetrachloroethane	630-20-6	1	0.3
1,1,2,2-Tetrachloroethane	79-34-5	1	0.3
Pentachloroethane	76-01-7	1	0.3
1,1-Dichloroethylene	75-35-4	1	0.3
Other VOCs			
Methyl-ethyl ketone	78-93-3	1	0.1
Ethylbenzene	100-41-4	1	0.1
Xylene	1330-20-7	1	0.1
Cyclohexanone	108-94-1	1	2
2-ethoxyethylacetate	111-15-9	50	10
1,2,3-trichloropropane	96-18-4	1	10
Acetophenone	98-86-2	10	0.1
Naphthalene	91-20-3	1	0.1
2-phenyl-2-propanole	617-94-7	10	0.1
Bis-(2-methoxyethyl) ether	111-96-6	50	20
1-methyl-2-pyrrolidone	872-50-4	10	50
N,N-dimethylacetamide	127-19-5	10	20
Styrene	100-42-5	1	0.1
Benzene	71-43-2	1	0.1
Toluene	108-88-3	1	0.1
N,N-dimethylformamide	68-12-2	1	0.1

9. Chloro phenols

Test Method: Ref. DIN ISO 17070, US EPA 8270D, GCMS Analysis

Parameter	Result	
	M001 (µg/L)	M002 (mg/kg)
PCP	ND	ND
TeCP	ND	ND
TriCP	ND	ND
DiCP	ND	ND
MonoCP	ND	ND

Abbreviation: µg/L = microgram per litre
 mg/kg = milligram per kilogram
 RL = Reporting Limit
 ND = not detected (< Reporting Limit)

Remarks:

List of Chloro phenols being tested

Parameter	CAS No.	Reporting Limit	
		Wastewater (µg/L)	Sludge (mg/kg)
Pentachlorophenol (PCP)	87-86-5	0.5	0.025
Tetrachlorophenols (TeCP)	25167-83-3	0.5	0.025
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	0.025
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	0.025
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	0.025
Trichlorophenol (TriCP)	25167-82-8	0.5	0.025
2,4,6-Trichlorophenol	88-06-2	0.5	0.025
2,3,4-Trichlorophenol	15950-66-0	0.5	0.025
2,3,5-Trichlorophenol	933-78-8	0.5	0.025
2,3,6-Trichlorophenol	933-75-5	0.5	0.025
2,4,5-Trichlorophenol	95-95-4	0.5	0.025
3,4,5-Trichlorophenol	609-19-8	0.5	0.025
Dichlorophenols (DiCP)	25167-81-1	0.5	0.025
2,3-dichlorophenol	576-24-9	0.5	0.025
2,4-dichlorophenol	120-83-2	0.5	0.025
2,5-dichlorophenol	583-78-8	0.5	0.025
3, 4-dichlorophenol	95-77-2	0.5	0.025
3, 5-dichlorophenol	591-35-5	0.5	0.025
Mono Chlorophenol	various	0.5	0.025

10. Short Chain Chlorinated Paraffins (SCCP)

Test Method: Ref. DIN ISO 17070, US EPA 8270D, GCMS Analysis

Parameter	Result	
	M001 (µg/L)	M002 (mg/kg)
SCCP (C10-13)	ND	ND

Abbreviation: µg/L = microgram per litre
 mg/kg = milligram per kilogram
 RL = Reporting Limit
 ND = not detected (< Reporting Limit)

Remarks:

List of Short Chain Chlorinated Paraffins (SCCP) being tested

Parameter	CAS No.	Reporting Limit	
		Wastewater (µg/L)	Sludge (mg/kg)
Short Chain Chlorinated Paraffins (SCCP)	85535-84-8	0.4	0.03

11. Heavy Metals

Test Method: Ref. US EPA 200.8, US EPA 3015A, US EPA 6020A, ISO 18412 (for CrVI)

Parameter	Result	
	M001 (µg/L)	M002 (mg/kg)
Total Cadmium(Cd)	ND	ND
Total Lead(Pb)	ND	1.25
Total Mercury(Hg)	ND	ND
Total Nickel(Ni)	3.4	1.30
Total Hexavalent Chromium(CrVI)	ND	ND
Total Arsenic(As)	ND	ND
Total Chromium(Cr)	ND	5.0
Total Copper(Cu)	ND	4.50
Total Zinc(Zn)	10.0	36.5
Total Manganese(Mn)	66.6	15.3
Total Antimony (Sb)	8.3	1.70
Total Cobalt (Co) (Extractable heavy-metals by artificial acidic sweat)	ND	ND

Abbreviation: µg/L = microgram per litre
 mg/kg = milligram per kilogram
 RL = Reporting Limit
 ND = not detected (< Reporting Limit)

Remarks:

List of heavy metals being tested

Parameter	CAS No.	Reporting Limit	
		Wastewater (µg/L)	Sludge (mg/kg)
Total Cadmium(Cd)	7440-43-9	0.1	1
Total Lead(Pb)	7439-92-1	1	1
Total Mercury(Hg)	7439-97-6	0.05	0.006
Total Nickel(Ni)	7440-02-0	1	1
Total Hexavalent Chromium(CrVI)	18540-29-9	1	1
Total Arsenic(As)	7440-38-2	1	1
Total Chromium(Cr)	7440-47-3	1	1
Total Copper(Cu)	7440-50-8	1	1
Total Zinc(Zn)	7440-66-6	1	4
Total Manganese(Mn)	7439-96-5	1	1
Total Antimony (Sb)	7440-36-0	1	1
Total Cobalt (Co) (Extractable heavy-metals by artificial acidic sweat)	7440-48-4	1	1

Sampling Location and Photo



-End-