

Test Report No.: **222308688** Date: 10-04-2022

Factory Company Name Hamid Fabrics Limited

Factory Address Shilmandi, Narsingdi

Client Reference No.: /

Sampling Done By TUV Rheinland Staffs

Type of Sampling Composite

Sample Type:  
1) ETP Inlet Water (Before Treatment)  
2) ETP Outlet Water (After Treatment)

Sample Pick Up Date: 24-03-2022

Test Period: 24-03-2022 to 10-04-2022

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



10-04-2022

Date

Hasem Ali/  
Director, Technical & Laboratories

Name/Position

*Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed. The laboratory apply decision rule for giving statement of conformity considering measurement of uncertainty at 95% confidence level. This test report relates to the above mentioned test sample. 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.*

**TÜV Rheinland Bangladesh Pvt. Ltd.**

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<b>Executive Summary:</b>	<b>Test result:</b>	
<b>1A) Conventional Parameters</b>	<b>M001</b>	<b>M002</b>
Temperature	N/A	See result in page 06-09
Total Suspended Solids (TSS)		
Chemical Oxygen Demand (COD)		
Total Nitrogen		
pH Value		
Colour[m <sup>-1</sup> ](436 nm; 525nm;620 nm)		
Biochemical Oxygen Demand (BOD <sub>5</sub> )		
Ammonium Nitrogen		
Total Phosphorous		
Absorbable Organic Halogens (AOX)		
Oil and Grease		
Phenol		
Coliform		
Foam		
Sulfide		
Sulfite		
Cyanide		
<b>1B) Conventional Parameters –METALS</b>	Not Detected	Not Detected
<b>ZDHC Manufacturing Restricted Substances List (MRSL)</b>	<b>M001</b>	<b>M002</b>
2A) Alkylphenol(AP)and Alkylphenol Ethoxylates (APEOs)	Not Detected	Not Detected
2B) Chlorobenzenes and Chlorotoluenes	Not Detected	Not Detected
2C) Chlorophenols	Not Detected	Not Detected
2D) Azo Dyes	Not Detected	Not Detected
2E) Carcinogenic Dyes	Not Detected	Not Detected
2F) Disperse Dyes	Not Detected	Not Detected
2G) Flame Retardants	Not Detected	Not Detected
2H) Glycols	Not Detected	Not Detected
2I) Halogenated Solvents	Not Detected	Not Detected
2J) Organotin Compounds	Not Detected	Not Detected
2K) Perfluorinated and Polyfluorinated Chemicals (PFCs)	Not Detected	Not Detected
2L) Phthalates	Not Detected	Not Detected
2M) Polycyclic Aromatic Hydrocarbons (PAHs)	Not Detected	Not Detected
2N) Volatile Organic Compounds (VOC)	Not Detected	Not Detected

N/A=Not Applicable

**Sampling point indication (Map)**

Wastewater Before & After Treatment: 23°53'54.6"N 90°40'03.9"E

**Sampling date and time**

Before Treatment water: Total Sample Volume : 11L

	1	2	3	4	5	6	Remark
Sampling Time	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	

After Treatment water: Total Sample Volume : 19L

	1	2	3	4	5	6	Remark
Sampling Time	10:30 AM	11:30 AM	12:30 PM	1:30 PM	2:30 PM	3:30 PM	

Sample storage condition: ≤8°C

Photo of the Sample/Sampling Location  
ETP Inlet water (Before Treatment)



ETP outlet water (After Treatment)



Foam in Aeration Tank



Factory Entrance



Factory Map



Location Map

**Material list**

Material No.	Material
M001	ETP Inlet Water(Before Treatment)
M002	ETP Outlet Water(After Treatment)

**Test result**
**1A) Conventional Parameters**
**Temperature**

Test Method : USEPA 170.1 (1994), Analysis by thermometer

Tested Item(s)	Result	Unit	Conclusion
M002	31.0 (Foundational)	deg.C	DATA

Note:

deg. C = degree Celsius (°C)

 Foundational Limit:  $\Delta$  15 / max. 35°C; Progressive Limit:  $\Delta$  10 / max. 30°C; Aspirational Limit:  $\Delta$  5 / max. 25°C

**Total Suspended Solids (TSS)**

Test Method : USEPA 160.2 (1971)

Tested Item(s)	Result	Unit	Conclusion
M002	15 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter

N.D. = Not Detected (&lt; Reporting Limit)

Foundational Limit: 50 mg/L; Progressive Limit: 15 mg/L; Aspirational Limit: 5 mg/L

**Chemical Oxygen Demand (COD)**

Test Method : Reference to USEPA 410.4 (1993)

Tested Item(s)	Result	Unit	Conclusion
M002	96 (Foundational)	mg/L	DATA

Note:

mg/L = milligram per liter

N.D. = Not Detected (&lt; Reporting Limit)

Foundational Limit: 150 mg/L; Progressive Limit: 80 mg/L; Aspirational Limit: 40 mg/L

**Total Nitrogen (Total-N)**

Test Method : Reference to APHA 4500 N-C

Tested Item(s)	Result	Unit	Conclusion
M002	7.8 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter

N.D. = Not Detected (&lt; Reporting Limit)

Foundational Limit: 20 mg/L; Progressive Limit: 10 mg/L; Aspirational Limit: 5 mg/L

**pH Value**

Test Method : Reference to USEPA150.1

-	Unit	Result
Tested Item(s)	-	M002
Parameter	-	-
Temp. of sample	Deg. C	31.0
pH value of Sample	-	7.5
Conclusion	-	DATA

Note:

Temp. = Temperature

deg. C = degree Celsius (°C)

Limit: 6-9

**Color [m<sup>-1</sup>] (436nm: 525nm: 620nm)**

Test Method : ISO 7887-B: 2011

Tested Item(s)	Result	Unit	Conclusion
M002	6.6; 4.5; 2.4 (Foundational)	m <sup>-1</sup>	DATA

Note:

 Foundational Limit: 7;5;3 m<sup>-1</sup>; Progressive Limit: 5;3;2 m<sup>-1</sup>; Aspirational Limit: 2;1;1 m<sup>-1</sup>
**Biochemical Oxygen Demand (BODs)**

Test Method : Reference to USEPA 405.1 &amp; APHA 5210B

Tested Item(s)	Result	Unit	Conclusion
M002	18 (Foundational)	mg/L	DATA

Note:

mg/L = milligram per liter

N.D. = Not Detected (&lt; Reporting Limit)

Foundational Limit: 30 mg/L; Progressive Limit: 15 mg/L; Aspirational Limit: 5 mg/L

**Ammonium Nitrogen**

Test Method : Reference to HJ536(2009)

Tested Item(s)	Result	Unit	Conclusion
M002	N.D (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter

N.D. = Not Detected (&lt; Reporting Limit)

Foundational Limit: 10 mg/L; Progressive Limit: 1 mg/L; Aspirational Limit: 0.5 mg/L

**Total Phosphorous (Total-P)**

Test Method : Reference to USEPA 365.4

Tested Item(s)	Result	Unit	Conclusion
M002	N.D. (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter

N.D. = Not Detected (&lt; Reporting Limit)

Foundational Limit: 3 mg/L; Progressive Limit: 0.5 mg/L; Aspirational Limit: 0.1 mg/L

**Adsorbable Organic Halogen (AOX)**

Test Method : ISO 9562

Tested Item(s)	Result	Unit	Conclusion
M002	N.D (Aspirational)	mg/L	DATA

Note:

N.D. = Not Detected (&lt; Reporting Limit)

mg/L = milligram per liter

Foundational Limit: 5 mg/L; Progressive Limit: 1mg/L; Aspirational Limit: 0.1 mg/L

**Oil & Grease**

Test Method : Reference to USEP 1664

Tested Item(s)	Result	Unit	Conclusion
M002	1.29 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter

N.D. = Not Detected (&lt; Reporting Limit)

Foundational Limit: 10 mg/L; Progressive Limit: 2 mg/L; Aspirational Limit: 0.5 mg/L

**Phenol**

Test Method : Reference to APHA 5330 B,C&amp;D

Tested Item(s)	Result	Unit	Conclusion
M002	N.D (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter

N.D. = Not Detected (&lt; Reporting Limit)

Foundational Limit: 0.5 mg/L; Progressive Limit: 0.01 mg/L; Aspirational Limit: 0.001 mg/L



**Coliform**

Test Method : Reference to ISO 9308-1: 2014

Tested Item(s)	Result	Unit	Conclusion
M002	167 (Foundational)	MPN/100 mL	DATA

Note:

Bacteria/100 mL = Bacteria per 100 milliliters

Foundational Limit: 400 / 100 ml; Progressive Limit: 100 / 100 ml; Aspirational Limit: 25 /100 ml;

**Foam**

Test Method : Visual

Tested Item(s)	Result	Unit	Conclusion
M002	No Foam	-	DATA

**Anions:**
**Anions- Sulfide**

 Test Method : APHA 4500-S<sup>2</sup>-D(23rd edition):2017

Tested Item(s)	Result	Unit	Conclusion
M002	N.D. (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter

N.D. = Not Detected (&lt; Reporting Limit)

Foundational Limit: 0.5 mg/L; Progressive Limit: 0.05 mg/L; Aspirational Limit: 0.01 mg/L

**Anions- Sulfite**

Test Method: US EPA 377.1

Tested Item(s)	Result	Unit	Conclusion
M002	N.D. (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter

N.D. = Not Detected (&lt; Reporting Limit)

Foundational Limit: 2 mg/L; Progressive Limit: 0.5 mg/L; Aspirational Limit: 0.2 mg/L

**Anions- Cyanide – (CN-)**

Test Method : Reference to APHA:4500 CN

Tested Item(s)	Result	Unit	Conclusion
M002	N.D. (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter

N.D. = Not Detected (&lt; Reporting Limit)

Foundational Limit: 0.2 mg/L; Progressive Limit: 0.1 mg/L; Aspirational Limit: 0.05 mg/L

**1B). METALS**

Test Method: Wastewater: USEPA 200.8., USEPA 6020a, Cr VI: ISO 18412

Heavy metals	M001(mg/L)	M002(mg/L)
Antimony (Sb) Foundational Limit: 0.1 mg/L Progressive Limit: 0.05 mg/L Aspirational Limit: 0.01 mg/L	ND (Aspirational)	ND (Aspirational)
Chromium(Cr), total Foundational Limit: 0.2 mg/L Progressive Limit: 0.1 mg/L Aspirational Limit: 0.05 mg/L	ND (Aspirational)	ND (Aspirational)
Cobalt (Co) Foundational Limit: 0.05 mg/L Progressive Limit: 0.02 mg/L Aspirational Limit: 0.01 mg/L	ND (Aspirational)	ND (Aspirational)
Copper (Cu) Foundational Limit: 1 mg/L Progressive Limit: 0.5 mg/L Aspirational Limit: 0.25 mg/L	ND (Aspirational)	ND (Aspirational)
Nickel (Ni) Foundational Limit: 0.2 mg/L Progressive Limit: 0.1 mg/L Aspirational Limit: 0.05 mg/L	ND (Aspirational)	ND (Aspirational)
Silver (Ag) Foundational Limit: 0.1 mg/L Progressive Limit: 0.05 mg/L Aspirational Limit: 0.005 mg/L	ND (Aspirational)	ND (Aspirational)
Zinc (Zn) Foundational Limit: 5.0 mg/L Progressive Limit: 1.0 mg/L Aspirational Limit: 0.5 mg/L	ND (Aspirational)	ND (Aspirational)
Arsenic (As) Foundational Limit: 0.05 mg/L Progressive Limit: 0.01 mg/L Aspirational Limit: 0.005 mg/L	ND (Aspirational)	ND (Aspirational)
Cadmium (Cd) Foundational Limit: 0.1 mg/L Progressive Limit: 0.05 mg/L Aspirational Limit: 0.01 mg/L	ND (Aspirational)	ND (Aspirational)
Lead (Pb) Foundational Limit: 0.1 mg/L Progressive Limit: 0.05 mg/L Aspirational Limit: 0.01 mg/L	ND (Aspirational)	ND (Aspirational)
Mercury (Hg) Foundational Limit: 0.01 mg/L Progressive Limit: 0.005 mg/L Aspirational Limit: 0.001 mg/L	ND (Aspirational)	ND (Aspirational)
Chromium VI (Cr VI) Foundational Limit: 0.05 mg/L Progressive Limit: 0.005 mg/L Aspirational Limit: 0.001 mg/L	ND (Aspirational)	ND (Aspirational)

**Note:**

mg/L = milligram per liter

N.D. = Not Detected (&lt; Reporting Limit)

**Others Priority Chemical Groups:**
**2A). Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)**

Test Method: NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC/MS or LC/MS(-MS),NPEO/OPEO (n>2) : ISO 18254-1; NPEO/OPEO: ISO18857-2 or ASTM D7065 (LC/MS ; GC/MS or LC/MSMS for n=1,2)

Parameter	Cas No	RL	Result	
		(µg/L)	M001	M002
Nonylphenol (NP)	104-40-5 25154-52-3 11066-49-2 84852-15-3	5	ND	ND
Octylphenol (OP)	140-66-9 27193-28-8 1806-26-4	5	ND	ND
Nonylphenol Ethoxylates (NPEO)	9016-45-9 26027-38-3 68412-54-4 127087-87-0 37205-87-1	5	ND	ND
Octylphenol Ethoxylates (OPEO)	9002-93-1 9036-19-5 68987-90-6	5	ND	ND

**Abbreviation:** µg/L = Microgram per liter  
 RL = Reporting Limit  
 ND = Not detected (< Reporting Limit)

**2B). Chlorobenzenes and Chlorotoluenes**

Test Method: USEPA 8260B, USEPA 8270D, Dichloromethane extraction GC-MS analysis

Chemical substances	CAS no.	Reporting limit	Result	
			M001	M002
Monochlorobenzene	108-90-7	0.2 µg/L	ND	ND
1,2-Dichlorobenzene	95-50-1	0.2 µg/L	ND	ND
1,3-Dichlorobenzene	541-73-1	0.2 µg/L	ND	ND
1,4-Dichlorobenzene	106-46-7	0.2 µg/L	ND	ND
1,2,4-Trichlorobenzene	120-82-1	0.2 µg/L	ND	ND
1,2,3-Trichlorobenzene	87-61-6	0.2 µg/L	ND	ND
1,3,5-Trichlorobenzene	108-70-3	0.2 µg/L	ND	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2 µg/L	ND	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2 µg/L	ND	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2 µg/L	ND	ND
Pentachlorobenzene	608-93-5	0.2 µg/L	ND	ND
Hexachlorobenzene	118-74-1	0.2 µg/L	ND	ND
2-Chlorotoluene	95-49-8	0.2 µg/L	ND	ND
3-Chlorotoluene	108-41-8	0.2 µg/L	ND	ND
4-Chlorotoluene	106-43-4	0.2 µg/L	ND	ND
2,3-Dichlorotoluene	32768-54-0	0.2 µg/L	ND	ND
2,4-Dichlorotoluene	95-73-8	0.2 µg/L	ND	ND
2,5-Dichlorotoluene	19398-61-9	0.2 µg/L	ND	ND
2,6-Dichlorotoluene	118-69-4	0.2 µg/L	ND	ND
3,4-Dichlorotoluene	95-75-0	0.2 µg/L	ND	ND
3,5-Dichlorotoluene	25186-47-4	0.2 µg/L	ND	ND
2,3,4-Trichlorotoluene	7359-72-0	0.2 µg/L	ND	ND
2,3,6-Trichlorotoluene	2077-46-5	0.2 µg/L	ND	ND
2,4,5-Trichlorotoluene	6639-30-1	0.2 µg/L	ND	ND
2,4,6-Trichlorotoluene	23749-65-7	0.2 µg/L	ND	ND
3,4,5-Trichlorotoluene	21472-86-6	0.2 µg/L	ND	ND
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2 µg/L	ND	ND
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2 µg/L	ND	ND
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2 µg/L	ND	ND
Pentachlorotoluene	877-11-2	0.2 µg/L	ND	ND

**Abbreviation:** µg/L = microgram per litre  
 RL = Reporting Limit  
 ND = not detected (< Reporting Limit)

**2C). Chlorophenols**

Test Method: USEPA 8270D, Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC/MS ISO 14154:2005

Parameter	CAS No.	RL	Result	
		(µg/L)	M001	M002
Pentachlorophenol (PCP)	87-86-5	0.5	ND	ND
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND	ND
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND	ND
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND	ND
2,4,6-Trichlorophenol	88-06-2	0.5	ND	ND
2,3,4-Trichlorophenol	15950-66-0	0.5	ND	ND
2,3,5-Trichlorophenol	933-78-8	0.5	ND	ND
2,3,6-Trichlorophenol	933-75-5	0.5	ND	ND
2,4,5-Trichlorophenol	95-95-4	0.5	ND	ND
3,4,5-Trichlorophenol	609-19-8	0.5	ND	ND
2,3-dichlorophenol	576-24-9	0.5	ND	ND
2,4-dichlorophenol	120-83-2	0.5	ND	ND
2,5-dichlorophenol	583-78-8	0.5	ND	ND
3, 4-dichlorophenol	95-77-2	0.5	ND	ND
2,6-dichlorophenol	87-65-0	0.5	ND	ND
3, 5-dichlorophenol	591-35-5	0.5	ND	ND
2-Chlorophenol	95-57-8	0.5	ND	ND
3-Chlorophenol	108-43-0	0.5	ND	ND
4-Chlorophenol	106-48-9	0.5	ND	ND

**Abbreviation:** µg/L = microgram per litre  
 RL = Reporting Limit  
 ND = not detected (< Reporting Limit)

**2D). Azo Dyes**

Test Method: EN 14362-1&amp;14362-3, Reduction step with sodiumdithionite, solvent extraction GC/MS or LC-MSMS analysis

Parameter	CAS No.	RL	Result	
		(µg/L)	M001	M002
4-Aminodiphenyl	92-67-1	0.1	ND	ND
Benzidine	92-87-5	0.1	ND	ND
4-Chloro-o-Toluidine	95-69-2	0.1	ND	ND
2-Naphthylamine	91-59-8	0.1	ND	ND
o-Aminoazotoluene	97-56-3	0.1	ND	ND
5-Nitro-o-toluidiene	99-55-8	0.1	ND	ND
4-Chloroaniline	106-47-8	0.1	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND	ND
4,4'-Methylenedianiline	101-77-9	0.1	ND	ND
3,3'-Dichlorobenzidine	91-94-1	0.1	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	0.1	ND	ND
3,3'-Dimethylbenzidine	119-93-7	0.1	ND	ND
4,4'-Methylene-di-o-toluidine	838-88-0	0.1	ND	ND
6-methoxy-m-toluidiene (p-cresidine)	120-71-8	0.1	ND	ND
4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	0.1	ND	ND
4,4'-Oxydianiline	101-80-4	0.1	ND	ND
4,4'-Thiodianiline	139-65-1	0.1	ND	ND
o-Toluidine	95-53-4	0.1	ND	ND
4-Methyl-m-phenylenediamine	95-80-7	0.1	ND	ND
2,4,5-Trimethylaniline	137-17-7	0.1	ND	ND
o-Anisidine	90-04-0	0.1	ND	ND
4-Aminoazobenzene	60-09-3	0.1	ND	ND
2,4-Xylidine	95-68-1	0.1	ND	ND
2,6-Xylidine	87-62-7	0.1	ND	ND

**Abbreviation:** µg/L = microgram per litre  
 RL = Reporting Limit  
 ND = not detected (< Reporting Limit)

**2E). Carcinogenic Dyes**

Test Method: Liquid extraction, LC-MSMS analysis

Parameter	CAS No.	RL	Result	
		(µg/L)	M001	M002
Acid Red 26	3761-53-3	500	ND	ND
Basic Red 9	569-61-9	500	ND	ND
Basic Violet 14	632-99-5	500	ND	ND
Direct Blue 6	2602-46-2	500	ND	ND
Direct Red 28	573-58-0	500	ND	ND
Direct Black 38	1937-37-7	500	ND	ND
Disperse Blue 1	2475-45-8	500	ND	ND
Disperse Blue 3	2475-46-9	500	ND	ND
Disperse Orange 11	82-28-0	500	ND	ND
Basic Blue 26 (With Michler's Ketone>0.1%)	2580-56-5	500	ND	ND
Basic Green 4 (malachite green chloride)	569-64-2	500	ND	ND
Basic Green 4 (malachite green oxalate)	2437-29-8	500	ND	ND
Basic Green 4 (malachite green)	10309-95-2	500	ND	ND

**Abbreviation:** µg/L = microgram per litre  
 RL = Reporting Limit  
 ND = not detected (< Reporting Limit)

**2F). Disperse Dyes**

Test Method: Liquid extraction, LC-MSMS analysis

Parameter	CAS No.	RL	Result	
		(µg/L)	M001	M002
Disperse Blue 35	56524-77-7	50	ND	ND
Disperse Blue 7	3179-90-6	50	ND	ND
Disperse Blue 26	3860-63-7	50	ND	ND
Disperse Blue 35	12222-75-2	50	ND	ND
Disperse Blue 102	12222-97-8	50	ND	ND
Disperse Blue 106	12223-01-7	50	ND	ND
Disperse Blue 124	61951-51-7	50	ND	ND
Disperse Brown 1	23355-64-8	50	ND	ND
Disperse Orange 1	2581-69-3	50	ND	ND
Disperse Orange 3	730-40-5	50	ND	ND
Disperse Orange 37/76/59	13301-61-6	50	ND	ND
Disperse Red 1	2872-52-8	50	ND	ND
Disperse Red 11	2872-48-2	50	ND	ND
Disperse Red 17	3179-89-3	50	ND	ND
Disperse Yellow 1	119-15-3	50	ND	ND
Disperse Yellow 3	2832-40-8	50	ND	ND
Disperse Yellow 9	6373-73-5	50	ND	ND
Disperse Yellow 39	12236-29-2	50	ND	ND
Disperse Yellow 49	54824-37-2	50	ND	ND

**Abbreviation:** µg/L = microgram per litre  
 RL = Reporting Limit  
 ND = not detected (< Reporting Limit)



**2G). Flame Retardants**

Test Method: USEPA 8270; ISO 22032; USEPA 527 and USEPA 8321B. Dichloromethane extraction, GC-MS or LC-MS/MS

Parameter	CAS No.	RL	Result	
		µg/L	M001	M002
Tris-(2-chloroethyl)-phosphate (TCEP)	115-96-8	5	ND	ND
Decabromodiphenyl ether (DecaBDE)	1163-19-5	5	ND	ND
Tri-(2,3-di-bromo-propyl)-phosphate (TRIS/TDBPP)	126-72-7	5	ND	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	5	ND	ND
Octabromodiphenyl ether (OctaBDE)	32536-52-0	5	ND	ND
Bis-(2,3-dibromopropyl)-phosphate (BIS/BDBPP)	5412-25-9	5	ND	ND
Tris(aziridinyl)phosphine oxide) (TEPA)	545-55-1	5	ND	ND
Polybromobiphenyls (PBBs)	59536-65-1	5	ND	ND
Tetrabromobisphenol-A (TBBPA)	79-94-7	5	ND	ND
Hexabromocyclododecan (HBCDD)	3194-55-6	5	ND	ND
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	5	ND	ND
Tris-(1,3-dichloro-isopropyl)-phosphate (TDCP)	13674-87-8	5	ND	ND
Short chain chlorinated paraffins,C10-C13 (SCCP)	85535-84-8	5	ND	ND

**Abbreviation:** µg/L = microgram per litre  
 RL = Reporting Limit  
 ND = not detected (< Reporting Limit)

**2H). Glycols**

Test Method: USEPA 8270, Liquid Extraction, LC/MS, GC/MS

Parameter	CAS No.	RL	Result	
		µg/L	M001	M002
Bis(2-methylethyl)ether	111-96-6	50	ND	ND
2-Ethoxyethanol	110-80-5	50	ND	ND
2-Ethoxyethyl acetate	111-15-9	50	ND	ND
Ethylene glycol dimethyl ether	110-71-4	50	ND	ND
2-Methoxyethanol	109-86-4	50	ND	ND
2-Methoxyethyl acetate	110-49-6	50	ND	ND
2-Methoxypropyl acetate	70657-70-4	50	ND	ND
Triethylene Glycol Dimethyl Ether	112-49-2	50	ND	ND

**Abbreviation:** µg/L = microgram per litre  
 RL = Reporting Limit  
 ND = not detected (< Reporting Limit)

**2I). Halogenated Solvents**

 Test Method:  
 USEPA 8260B, Headspace GC/MS or Purge-and- GC/MS

Parameter	CAS No.	RL	Result	
		(µg/L)	M001	M002
1,2-Dichloroethane	107-06-2	1	ND	ND
Methylene chloride	75-09-2		ND	ND
Tetrachloroethylene	127-18-4		ND	ND
Trichloroethylene	79-01-6		ND	ND

**Abbreviation:** µg/L = microgram per litre  
 RL = Reporting Limit  
 ND = not detected (< Reporting Limit)

**2J). Organotin Compounds**

 Test Method: Ref. ISO 17353, Derivatisation with NaB(C<sub>2</sub>H<sub>5</sub>) GC-MS analysis

Parameter	CAS No.	RL	Result	
		(µg/L)	M001	M002
Mono-,di- and tri-methyltin derivatives	Various	0.01	ND	ND
Mono-,di- and tri-butyltin derivatives	Various	0.01	ND	ND
Mono-,di- and tri-phenyltin derivatives	Various	0.01	ND	ND
Mono-,di- and tri-octyltin derivatives	Various	0.01	ND	ND

**Abbreviation:** µg/L = microgram per litre  
 RL = Reporting Limit  
 ND = not detected (< Reporting Limit)

**2K). Perfluorinated and Polyfluorinated Chemicals (PFCs)**

Test Method: DIN 38407-42 (modified), Ionic PFC: Concentration or direct injection, LC/MS(-MS); Non Ionic PFC (FTOH): Derivatisation with acetic anhydride, followed by GC-MS

Parameter	CAS No.	RL	Result	
		(µg/L)	M001	M002
Perfluorooctanesulphonic acid (PFOS)	355-46-4, 432-50-7	0.01	ND	ND
Perfluoro-n-octanoic acid (PFOA)	335-67-1	0.01	ND	ND
Perfluorobutanesulfonic acid (PFBS)	29420-49-3, 29420-43-3	0.01	ND	ND
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	0.01	ND	ND
6:2 FTOH	647-42-7	1.0	ND	ND
8:2 FTOH	678-39-7	1.0	ND	ND

**Abbreviation:** µg/L = microgram per litre  
 RL = Reporting Limit  
 ND = not detected (< Reporting Limit)

**2L). Phthalates**

Test Method: USEPA 8270D, ISO 18856 Dichloromethane extraction, GC-MSMS analysis

Parameter	CAS No.	RL	Result	
		(µg/L)	M001	M002
Di-n-butyl phthalate (DBP)	84-74-2	10	ND	ND
Di(ethylhexyl)phthalate (DEHP)	117-81-7	10	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	10	ND	ND
Di-isononyl phthalate (DINP)	28553-12-0	10	ND	ND
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND	ND
Diethyl Phthalate (DEP)	84-66-2	10	ND	ND
Di-n-propyl Phthalate (DPRP)	131-16-8	10	ND	ND
Di-isobutyl phthalate (DIBP)	84-69-5	10	ND	ND
Di-cyclohexyl Phthalate (DCHP)	84-61-7	10	ND	ND
Di-N-Hexyl Phthalate (DNHP)	84-75-3	10	ND	ND
Dinonyl Phthalate (DNP)	84-76-4	10	ND	ND
Di-isi-octyl Phthalate (DIOP)	27554-26-3	10	ND	ND
Di-methoxyethyl Phthalate (DMEP)	117-82-8	10	ND	ND
1,2-benzenedicarboxylic acid, di-C7- 11-branched and linearalkyl esters (DHNUP)	68515-42-4	10	ND	ND
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	ND	ND

**Abbreviation:** µg/L = microgram per litre  
 RL = Reporting Limit  
 ND = not detected (< Reporting Limit)

**2M). Polycyclic Aromatic Hydrocarbons (PAHs)**

Test Method: USEPA 8270, DIN 38407-39 Solvent extraction GC-MS/MS

Parameter	CAS No.	RL	Result	
		(µg/L)	M001	M002
Benzo(a)pyrene (BaP)	50-32-8	1.0	ND	ND
Anthracene	120-12-7	1.0	ND	ND
Pyrene	129-00-0	1.0	ND	ND
Benzo[ghi]perylene	191-24-2	1.0	ND	ND
Benzo(e)pyrene	192-97-2	1.0	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	1.0	ND	ND
Benzo(j)fluoranthene	205-82-3	1.0	ND	ND
Benzo[b]fluoranthene	205-99-2	1.0	ND	ND
Fluoranthene	206-44-0	1.0	ND	ND
Benzo[k]fluoranthene	207-08-9	1.0	ND	ND
Acenaphthylene	208-96-8	1.0	ND	ND
Chrysene	218-01-9	1.0	ND	ND
Dibenz(a,h)anthracene	53-70-3	1.0	ND	ND
Benzo[a]anthracene	56-55-3	1.0	ND	ND
Acenaphthene	83-32-9	1.0	ND	ND
Phenanthrene	85-01-8	1.0	ND	ND
Fluorene	86-73-7	1.0	ND	ND
Naphthalene	91-20-3	1.0	ND	ND

**Abbreviation:** µg/L = microgram per litre  
 RL = Reporting Limit  
 ND = not detected (< Reporting Limit)

**2N). Volatile Organic Compounds (VOC)**

Test Method: ISO 11423-1, Purge and-Trape-GCMS analysis US EPA 8260

Parameter	CAS No.	RL	Result	
		(µg/L)	M001	M002
Benzene	71-43-2	1.0	ND	ND
Xylene	1330-20-7	1.0	ND	ND
o-cresol	95-48-7	1.0	ND	ND
p-cresol	106-44-5	1.0	ND	ND
m-cresol	108-39-4	1.0	ND	ND

**Abbreviation:** µg/L = microgram per litre  
 RL = Reporting Limit  
 ND = not detected (< Reporting Limit)

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