

TEST REPORT

Technical Report: (6822)079-0084 April 04, 2022

Date Received: March 16, 2022 Page 1 of 22

Factory Company Name: Sterling Laundry Ltd.

Factory Address: Dhania, Nayarhat, Ashulia, Savar, Dhaka, Bangladesh.

Not Applicable

Not Applicable

Not Applicable

Not Applicable

Foundational

Project No.: Not Applicable Client Reference No.: Not Applicable

Sampling Method: I001) Raw Wastewater – 6 hours Time – weighted Composite

I002) Treated Wastewater – 6 hours Time – weighted Composite

Sample Pick Up Date: March 16, 2022 Wastewater Discharge to: Government canal

On-Site Effluent Treatment Plant Yes

(ETP):

Discharge Type: Direct Discharge

Off-site ETP name (if applicable): Not Applicable
Off-site ETP address (if Not Applicable

applicable):

Local Regulation: / Ordinance /

requirements related to wastewater discharged are followed:

Permit Validation Date: Parameters Exceeded Local

Regulation

Legal compliance:

Conventional Parameters Overall

Category:

Test Period: March 20, 2022 To April 03, 2022

Sample Description: Sample(s) received is/are stated to be:

I001) Blue color liquid - Raw Wastewater

I002) Light blue color liquid - Treated Wastewater

Parameters exceeded maximum

holding time:

Not Applicable

Bureau Veritas Consumer Products Services (BD) Ltd. Plot # 130, DEPZ Extension Area Ganakbari, Savar, Dhaka, Bangladesh Tel: 88-02-7701464-6, Fax: 88-02-7701463 E-mail: bvcps.bd@bd.bureauveritas.com website: cps.bureauveritas.com This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at http://www.bureauveriass.com/nome/about-us/cure-usiness/cgs/about-us/cure-conditions/and intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon required tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specially address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the



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REMARK

If there are questions or concerns on this report, please contact the following persons:

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This report shown the test result of the auxiliary chemical and/or raw material samples, which collected during particular factory audit. The results of this report shall not be used for any regulatory compliance purposes.

* The sampling is agreed with client.

BUREAU VERITAS

 $CONSUMER\ PRODUCTS\ SERVICES\ (BANGLADESH)\ LTD.$

MD. RASHEDUL HAQUE MANAGER, RSL OPERATIONS



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Executive Summary

1A) Conventional Parameters	I001	1002
Temperature		
TSS		
COD		
Total-N		
pH Value		
Color [m ⁻¹] (436nm; 525nm; 620nm)		
BOD ₅		
Ammonium-N		
Total-P	NR	
AOX		
Oil and Grease		
Phenol		
Coliform		
Persistent Foam		
ANIONS – Cyanide		
ANIONS - Sulfide		
ANIONS - Sulfite		
1B) Conventional Parameters -METALS		

ZDHC MRSL Substances	I001	I002
2A) APs and APEOs	0	0
2B) Chlorobenzenes and Chlorotoluenes	0	0
2C) Chlorophenols	0	0
2D) Azo Dyes	0	0
2E) Carcinogenic Dyes	0	0
2F) Disperse Dyes	0	0
2G) Flame Retardants	0	0
2H) Glycols	0	0
2I) Halogenated Solvents	0	0
2J) Organotin Compounds	0	0
2K) Perfluorinated and Polyfluorinated Chemicals	0	0
2L) Phthalates	0	0
2M) Poly Aromatic Hydrocarbons	0	0
2N) Volatile Organic Compounds	0	0

Note / Key:

- $\begin{tabular}{ll} \hline & & Meet Foundational Limit / Meet discharge license criteria \\ \hline \end{tabular}$
- - Exceeding Foundational Limit / Exceeding discharge license criteria
- NR Not Requested / Not required
- - Detected
- O Not Detected
- N/A Not Applicable



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Objective

The environment samples were tested for below parameters.

- 1A) Conventional Parameters
- 1B) Conventional Parameters METALS
- 2A) APs and APEOs
- 2B) Chlorobenzenes and Chlorotoluenes
- 2C) Chlorophenols
- 2D) Azo Dyes
- 2E) Carcinogenic Dyes
- 2F) Disperse Dyes
- 2G) Flame Retardants
- 2H) Glycols
- 2I) Halogenated Solvents
- 2J) Organotin Compounds
- 2K) Perfluorinated and Polyfluorinated Chemicals
- 2L) Phthalates
- 2M) Poly Aromatic Hydrocarbons
- 2N) Volatile Organic Compounds

Sampling Plan

Basically, two environment samples were sampled per factory, including 1) Discharged Wastewater (Raw wastewater) and 2) Discharged Wastewater (Treated wastewater). Total number of sample collected will be depended on the actual factory facilities and manufacturing processes.

Method of sampling used is time-weighted composite grab samples (agreed with client.). Composite sampling shall be performed for no less than six hours, with no more than one hour between discrete samples. Each discrete sample shall be of equal volume. Wastewater and freshwater samples should, as much as possible, be collected simultaneously, during the time that PU is in normal operation. The sampling shall aim to analyse the snapshot of water quality characteristics of the operating PU. Under no circumstance shall samples be taken during times when the production process is not running or the wastewater is diluted due to heavy rainfall, etc.

Remark:

- Sampling procedure refers to ZDHC Wastewater and Sludge Laboratory Sampling and Analysis Plan
- Field data records are attached in Appendix C.



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Test Result

1A) Conventional Parameters

Temperature

Test Method: Measurement by thermometer

Tested Item(s)	Result	Unit	Conclusion
I002	32.7 (Foundational)	deg. C	DATA

Note:

deg. C = degree Celsius (°C)

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

Total Suspended Solids (TSS)

Test Method : Reference to APHA 2540D, GB 11901, ISO 11923

Tested Item(s)	Result	Unit	Conclusion
I002	43 (Foundational)	mg/L	DATA

Note:

mg/L = milligram per liter

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

Chemical Oxygen Demand (COD)

Test Method : Reference to APHA 5220B & EPA 410.3, HJ 828

Tested Item(s)	Result	Unit	Conclusion
I002	64 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter

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
I002	19.8 (Foundational)	mg/L	DATA

Note:

 $mg/L = milligram \ per \ liter$

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



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pH Value

Test Method: Reference to EPA 150.2

-	Unit	Result
Test Item(s)	-	I002
Parameter	-	-
Temp. of sample	deg. C	23.1
pH value of sample -		7.0 (Comply with ZDHC WWG requirements)
Conclusion	-	DATA

Note:

Temp. = Temperature

deg. C = degree Celsius (°C)

Limit: 6 - 9

Color [m⁻¹] (436nm; 525nm; 620nm)

Test Method : ISO 7887: 2011(E), B

Tested Item(s)	Result	Unit	Conclusion
I002	3.3; 1.7; 1.0 (Progressive)	m ⁻¹	DATA

Note:

Foundational Limit: 7;5;3 m⁻¹; Progressive Limit: 5;3;2 m⁻¹; Aspirational Limit: 2;1;1 m⁻¹

Biochemical Oxygen Demand (BOD₅)

Test Method : Reference to APHA 5210B & ALPA 5210B (5 days)

Tested Item(s)	Result	Unit	Conclusion
I002	19 (Foundational)	mg/L	DATA

Note:

 $mg/L = milligram \; per \; liter \;$

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

Ammonium Nitrogen

Test Method: Reference to APHA 4500-NH₃ – B & F 22nd Edition 2012

Ī	Tested Item(s)	Result	Unit	Conclusion
	I002	0.49 (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter

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



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Total Phosphorus (Total-P)

Test Method : Reference to APHA 22nd Edition -4500-P.E (2012)

ĺ	Tested Item(s)	Result	Unit	Conclusion
	1002	1.02 (Foundational)	mg/L	DATA

Note:

mg/L = milligram per liter

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

Adsorbable Organic Halogen (AOX)

Test Method: Reference to ISO 9562

Ī	Tested Item(s)	Result	Unit	Conclusion
	I002	0.25 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter

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

Oil and Grease

Test Method : Reference to EPA 1664B, APHA-5520 B and F

Tested Item(s)	Result	Unit	Conclusion
I002	1.7 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter

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

Phenol

Test Method : APHA 5530 C

Tested Item(s)	Result	Unit	Conclusion
I002	0.001 (Aspirational)	mg/L	DATA

Note:

 $mg/L = milligram \ per \ liter$

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
1002	210	Bacteria /	DATA
I002	(Foundational)	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;



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Persistent Foam

Test Method : Visual

Tested Item(s)	Result	Unit	Conclusion
1002	No Foam (Comply with ZDHC WWG requirements)	-	DATA

ANIONS - Cyanide

Test Method: Reference to APHA 22nd Edition-4500-CN. C&E (2012), EPA 9010C, 9013 & 9014

Tested Item(s)	Result	Unit	Conclusion
I002	ND (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter

ND = Not detected

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

ANIONS - Sulfide

Test Method: Reference to APHA 4500-S²-D

Tested Item(s)	Result	Unit	Conclusion
I002	<0.1 (Foundational)	mg/L	DATA

Note:

mg/L = milligram per liter

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

ANIONS - Sulfite

Test Method : Reference to EPA 377.1, APHA 4500-SO₃²⁻ (2012)

Tested Item(s)	Result	Unit	Conclusion
I002	1.0 (Foundational)	mg/L	DATA

Note:

mg/L = milligram per liter

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



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1B) Conventional Parameters - METALS

Heavy Metals	I001 (mg/L)	I002 (mg/L)
Antimony(Sb)		
Foundational Limit: 0.1 mg/L;	ND	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L		
Chromium(Cr), total		
Foundational Limit: 0.2 mg/L;	0.013	0.002
Progressive Limit: 0.1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.05 mg/L	, ,	, ,
Cobalt(Co)		
Foundational Limit:0.05 mg/L;	ND	ND
Progressive Limit: 0.02 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L	, ,	, ,
Copper(Cu)		
Foundational Limit: 1 mg/L;	0.006	0.008
Progressive Limit: 0.5 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.25 mg/L	, ,	, ,
Nickel (Ni)		
Foundational Limit:.0.2 mg/L;	0.005	0.002
Progressive Limit: 0.1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.05 mg/L	, ,	, ,
Silver (Ag)		
Foundational Limit: 0.1 mg/L;	ND	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.005 mg/L	, ,	, ,
Zinc(Zn)		
Foundational Limit: 5 mg/L;	0.050	ND
Progressive Limit: 1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.5 mg/L	,	, ,
Arsenic (As)		
Foundational Limit: 0.05 mg/L;	ND	ND
Progressive Limit: 0.01 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.005 mg/L		
Cadmium(Cd)		
Foundational Limit: 0.1 mg/L;	ND	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L		
Chromium VI(CrVI)		
Foundational Limit: 0.05 mg/L;	ND	ND
Progressive Limit: 0.005 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.001 mg/L		_
Lead(Pb)		
Foundational Limit:0.1 mg/L;	ND	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L		
Mercury (Hg)		
Foundational Limit: 0.01 mg/L;	ND	ND
Progressive Limit: 0.005 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit :0.001 mg/L	-	-



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Others Priority Chemical Groups

	I001 (μg/L)	$I002 (\mu g/L)$
2A) APs and APEOs	ND	ND
2B) Chlorobenzenes and Chlorotoluenes	ND	ND
2C) Chlorophenols	ND	ND
2D) Azo Dyes	ND	ND
2E) Carcinogenic Dyes	ND	ND
2F) Disperse Dyes	ND	ND
2G) Flame Retardants	ND	ND
2H) Glycols	ND	ND
2I) Halogenated Solvents	ND	ND
2J) Organotin Compounds	ND	ND
2K) Perfluorinated and Polyfluorinated Chemicals	ND	ND
2L) Phthalates	ND	ND
2M) Poly Aromatic Hydrocarbons	ND	ND
2N) Volatile Organic Compounds	ND	ND

Remark:

- Test method, reporting limit and list of chemical are summarized in tables of Appendix B.
- ND = Not detected (Please refer to reporting limit shown in Appendix B.).
- All results are in ppb as unit.
- ppm = part(s) per million; ppb = part(s) per billion.



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APPENDIX A - Photo of the Sample/ Sampling Location

I001) Sampling Point (GPS Location: N 24° 20' 14.064"; E 89° 59' 49.74")



I001) Sampling Point Surrounding Environment (GPS Location: N 24° 20' 14.064"; E 89° 59' 49.74")



I001) All sampled bottles with label



I001) pH value



I001) Sample for Phthalate Testing



I001) Packaging





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APPENDIX A - Photo of the Sample/ Sampling Location

I002) Sampling Point (GPS Location: N 24° 20' 14.064"; E 89° 59' 49.74")



I002) Sampling Point Surrounding Environment (GPS Location: N 24° 20' 14.064"; E 89° 59' 49.74")



I002) All sampled bottles with label



I002) pH value



I002) Sample for Phthalate Testing



I002) Packaging





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APPENDIX B

			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	Nonylphenol NP, mixed isomers	Various (incl. 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3)	5	0.4	NP/OP: ISO 18857-2 (modified dichloromethane
2A. Alkylphenol (AP) and	Octylphenol OP, mixed isomers	Various (incl. 140-66-9, 1806-26-4, 27193-28-8)	5	0.4	extraction) or ASTM D7065 (GC/MS or LC/MS(-MS)
Alkylphenol Ethoxylates (APEOs): including all isomers	Octylphenol ethoxylates (OPEO)	Various (incl. 9002-93-1, 9036-19-5, 68987-90-6)	5	0.4	OPEO/NPEO: ISO18857-2 or ASTM D7065(LC/MS; GC/MS
	Nonylphenol ethoxylates (NPEO)	Various (inc. 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0)	5	0.4	or LC/MSMS for n=1,2) APEO 1-18
	Monochlorobenzene	108-90-7	0.2	0.2	
	1,2-Dichlorobenzene	95-50-1	0.2	0.2	
	1,3-Dichlorobenzene	541-73-1	0.2	0.2	
	1,4-Dichlorobenzene	106-46-7	0.2	0.2	
	1,2,3-Trichlorobenzene	87-61-6	0.2	0.2	
	1,2,4-Trichlorobenzene	120-82-1	0.2	0.2	
	1,3,5-Trichlorobenzene	108-70-3	0.2	0.2	
	1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	0.2	
	1,2,3,5-Tetraclorobenzene	634-90-2	0.2	0.2	
	1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	0.2	
	Pentachlorobenzene	608-93-5	0.2	0.2	
	Hexachlorobenzene	118-74-1	0.2	0.2	
	2-Chlorotoluene	95-49-8	0.2	0.2	
	3-Chlorotoluene	108-41-8	0.2	0.2	USEPA 8260B,8270D.
2B. Chlorobenzenes	4-Chlorotoluene	106-43-4	0.2	0.2	Dichloromethane
and Chlorotoluenes	2,3-Dichlorotoluene	32768-54-0	0.2	0.2	extraction followed by
	2,4-Dichlorotoluene	95-73-8	0.2	0.2	GC/MS
	2,5-Dichlorotoluene	19398-61-9	0.2	0.2	
	2,6-Dichlorotoluene	118-69-4	0.2	0.2	
	3,4-Dichlorotoluene	95-75-0	0.2	0.2	
	3,5-Dichlorotoluene	25186-47-4	0.2	0.2	
	2,3,4-Trichlorotoluene	7359-72-0	0.2	0.2	
	2,3,6-Trichlorotoluene	2077-46-5	0.2	0.2	
	2,4,5-Trichlorotoluene	6639-30-1	0.2	0.2	
	2,4,6-Trichlorotoluene	23749-65-7	0.2	0.2	
	3,4,5-Trichlorotoluene	21472-86-6	0.2	0.2	
	2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.2	
	2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2	
	2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2	
	Pentachlorotoluene	877-11-2	0.2	0.2	



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			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	2-Chlorophenol	95-57-8	0.5	0.05	
	3-Chlorophenol	108-43-0	0.5	0.05	
	4-Chlorophenol	106-48-9	0.5	0.05	
	2,3-Dichlorophenol	576-24-9	0.5	0.05	
	2,4-Dichlorophenol	120-83-2	0.5	0.05	
	2,5-Dichlorophenol	583-78-8	0.5	0.05	
	2,6-Dichlorophenol	87-65-0	0.5	0.05	
	3,4-Dichlorophenol	95-77-2	0.5	0.05	USEPA 8270 D
	3,5-Dichlorophenol	591-35-5	0.5	0.05	Solvent extraction,
2C. Chlorophenols	2,3,4-Trichlorophenol	15950-66-0	0.5	0.05	derivatisation with
	2,3,5-Trichlorophenol	933-78-8	0.5	0.05	KOH, acetic anhydride
	2,3,6-Trichlorophenol	933-75-5	0.5	0.05	followed by GC/MS
	2,4,5-Trichlorophenol	95-95-4	0.5	0.05	
	2,4,6-Trichlorophenol	88-06-2	0.5	0.05	
	3,4,5-Trichlorophenol	609-19-8	0.5	0.05	
	2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	0.05	
	2,3,4,6-Tetrachlorophenol	58-90-2	0.5	0.05	
	2,3,5,6-Tetrachlorophenol	935-95-5	0.5	0.05	
	Pentachlorophenol (PCP)	87-86-5	0.5	0.05	
	4,4`-Methylene-bis-(2-chloro-aniline)	101-14-4	0.1	0.2	
	4,4'-methylenedianiline	101-77-9	0.1	0.2	
	4,4`-Oxydianiline	101-80-4	0.1	0.2	
	4-Chloroaniline	106-47-8	0.1	0.2	
	3,3`-Dimethoxybenzidine	119-90-4	0.1	0.2	
	3,3`-Dimethylbenzidine	119-93-7	0.1	0.2	
	6-methoxy-m-toluidine (p- Cresidine)	120-71-8	0.1	0.2	
	2,4,5-Trimethylaniline	137-17-7	0.1	0.2	
	4,4`-Thiodianiline	139-65-1	0.1	0.2	
	4-Aminoazobenzene	60-09-3	0.1	0.2	
2D. Dyes - Azo	4-Methoxy-m- phenylenediamine	615-05-4	0.1	0.2	EN 14362. Reduction step with
(Forming Restricted Amines)	4,4`-Methylene-di-o- toluidine	838-88-0	0.1	0.2	Sodiumdithionite, solvent extraction.
,	2,6-Xylidine	87-62-7	0.1	0.2	GC/MS or LC/MS
	o-Anisidine	90-04-0	0.1	0.2	
	2-Naphthylamine	91-59-8	0.1	0.2	
	3,3`-Dichlorobenzidine	91-94-1	0.1	0.2	
	4-Aminodiphenyl	92-67-1	0.1	0.2	
	Benzidine	92-87-5	0.1	0.2	1
	o-Toluidine	95-53-4	0.1	0.2	
	2,4-Xylidine	95-68-1	0.1	0.2	
	4-Chloro-o-toluidine	95-69-2	0.1	0.2	
	4-Methyl-m- phenylenediamine	95-80-7	0.1	0.2	
	o-Aminoazotoluene	97-56-3	0.1	0.2	
	5-nitro-o-toluidine	99-55-8	0.1	0.2	
	C.I. Direct Black 38	1937-37-7	500	10	
2E. Dyes-	C.I. Direct Blue 6	2602-46-2	500	10	
Carcionogenic or	C.I. Acid Red 26	3761-53-3	500	10	Liquid Extraction
					LC/MS
Equivalent Concern	C.I. Basic Red 9	569-61-9	500	10	EC/1115



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			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	C.I. Basic Violet 14	632-99-5	500	10	
	C.I. Disperse Blue 1	2475-45-8	500	10	
	C.I. Disperse Blue 3	2475-46-9	500	10	
	C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	10	
	C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	10	
	C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	10	
	C.I. Basic Green 4(malachite green)	10309-95-2	500	10	
	Disperse Orange 11	82-28-0	500	10	
	Disperse Yellow 1	119-15-3	50	2	
	Disperse Blue 102	12222-97-8	50	2	
	Disperse Blue 106	12223-01-7	50	2	
	Disperse Yellow 39	12236-29-2	50	2	
	Disperse Orange 37/59/76	13301-61-6	50	2	
	Disperse Brown 1	23355-64-8	50	2	
	Disperse Orange 1	2581-69-3	50	2	Liquid Extraction LC/MS
	Disperse Yellow 3	2832-40-8	50	2	
2F. Dyes-disperse	Disperse Red 11	2872-48-2	50	2	
(sensitizing)	Disperse Red 1	2872-52-8	50	2	
(SCHSITIZING)	Disperse Red 17	3179-89-3	50	2	
	Disperse Blue 7	3179-90-6	50	2	
	Disperse Blue 26	3860-63-7	50	2	
	Disperse Yellow 49	54824-37-2	50	2	
	Disperse Blue 35	12222-75-2	50	2	
	Disperse Blue 124	61951-51-7	50	2	
	Disperse Yellow 9	6373-73-5	50	2	
	Disperse Orange 3	730-40-5	50	2	
	Disperse Blue 35	56524-77-7	50	2	
	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	5	1	
	Decabromodiphenyl ether (DecaBDE)	1163-19-5	5	1	
	Tris(2,3-dibromopropyl) phosphate (TRIS/TDBPP)	126-72-7	5	1	
	Pentabromodiphenyl ether (PentaBDE)	32534-81-9	5	1	
	Octabromodiphenyl ether (OctaBDE)	32536-52-0	5	1	ISO 22032, USEPA527
2G. Flame Retardants	Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP)	5412-25-9	5	1	and USEPA8321B. Dichloromethane
Retardants	Tris(aziridinyl)- phosphineoxide (TEPA)	545-55-1	5	1	extraction GC/MS or LC/MS(-MS)
	Polybromobiphenyls (PBBs)	59536-65-1	5	1	25/115(113)
	Tetrabromobisphenol A (TBBPA)	79-94-7	5	1	
	Hexabromocyclododecane (HBCDD)	3194-55-6	5	1	
	2,2-Bis(bromomethyl)-1,3- propanediol (BBMP)	3296-90-0	5	1	
	Tris(1,3-dichloro-	13674-87-8	5	1	



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			Repor	t Limit		
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method	
	isopropyl) phosphate (TDCP)					
	Short chain chlorinated paraffins (SCCPs) (C10-C13)	85535-84-8	5	1		
	Bis(2-methoxyethyl)-ether	111-96-6	50	10		
	2-ethoxyethanol	110-80-5	50	10		
	2-ethoxyethyl acetate	111-15-9	50	10		
2H. Glycols	Ethylene glycol dimethyl ether	110-71-4	50	10	US EPA 8270 Liquid Extraction	
ZII. GIYCOIS	2-methoxyethanol	109-86-4	50	10	LC/MS	
	2-methoxyethylacetate	110-49-6	50	10		
	2-methoxypropylacetate	70657-70-4	50	10	-	
	Triethylene glycol dimethyl ether	112-49-2	50	10		
	1,2-Dichloroethane	107-06-2	1	2	USEPA 8260B	
2I. Halogenated	Methylene Chloride	75-09-2	1	2	Headspace GC/MS or	
Solvents	Trichloroethylene Tetrachloroethylene	79-01-6 127-18-4	1	2	Purgeand-Trap-GC/MS	
	Mono-, di- and tri- methyltin derivatives	Multiple	0.01	0.2		
21. 0	Mono-, di- and tri-butyltin derivatives	Multiple	0.01	0.2	ISO 17353	
2J. Organotin Compounds	Mono-, di- and tri-phenyltin derivatives	Multiple	0.01	0.2	Derivatisation with NaB(C2H5) GC/MS	
	Mono-, di- and tri-octyltin derivatives	Multiple	0.01	0.2	-	
	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.01	0.10	DIN 38407-42	
	Perfluoro-n-octanoic acid (PFOA)	335-67-1	0.01	0.10	(modified) Ionic PFC:	
2K. Perfluorinated and Polyfluorinated	Perfluorobutanesulfonic acid (PFBS)	29420-49-3, 29420-43-3	0.01	0.10	Concentration or direct injection, LC/MS(-MS);	
Chemicals (PFCs)	Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	0.01	0.10	Non-ionic PFC (FTOH): derivatisation	
	8:2 FTOH	678-39-7	1	1	with acetic anhydride, followed by GC/MS	
	6:2 FTOH	647-42-7	1	1	TOHOWCU DY CIC/MIS	
	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	2		
	Dimethoxyethyl phthalate (DMEP)	117-82-8	10	2		
	Di-n-octyl phthalate (DNOP)	117-84-0	10	2		
2L. Phthalates	Di-iso-decyl phthalate (DIDP)	26761-40-0	10	2	US EPA 8270D, ISO	
(including all other esthers of phthalic	Di-iso-nonyl phthalate (DINP)	28553-12-0	10	2	18856 Dichloromethane	
acid)	Di-n-hexyl phthalate (DnHP)	84-75-3	10	2	extraction GC/MS	
	Dibutyl phthalate (DBP)	84-74-2	10	2		
	Butyl benzyl phthalate (BBP)	85-68-7	10	2		
	Dinonyl phthalate (DNP)	84-76-4	10	2]	
	Diethyl phthalate (DEP)	84-66-2	10	2		



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			Repor	t Limit		
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method	
	Di-n-propyl phthalate (DPRP)	131-16-8	10	2		
	Di-iso-butyl phthalate (DIBP)	84-69-5	10	2		
	Di-cyclohexyl phthalate (DCHP)	84-61-7	10	2		
	Di-iso-octyl phthalate (DIOP)	27554-26-3	10	2		
	1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4	10	2		
	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	2		
	Benzo[a]pyrene (BaP)	50-32-8	1	0.2		
	Anthracene	120-12-7	1	0.2		
	Pyrene	129-00-0	1	0.2		
	Benzo[ghi]perylene	191-24-2	1	0.2		
	Benzo[e]pyrene	192-97-2	1	0.2		
	Indeno[1,2,3-cd]pyrene	193-39-5	1	0.2		
	Benzo[j]fluoranthene	205-82-3	1	0.2		
2M. Poly Aromatic	Benzo[b]fluoranthene	205-99-2	1	0.2	DIN 38407-39	
Hydrocarbons	Fluoranthene	206-44-0	1	0.2	Solvent extraction	
(PaHs)	Benzo[k]fluoranthene	207-08-9	1	0.2	GC/MS	
(Turis)	Acenaphthylene	208-96-8	1	0.2		
	Chrysene	218-01-9	1	0.2		
	Dibenz[a,h]anthracene	53-70-3	1	0.2		
	Benzo[a]anthracene	56-55-3	1	0.2		
	Acenaphthene	83-32-9	1	0.2		
	Phenanthrene	85-01-8	1	0.2	1	
	Fluorene	86-73-7	1	0.2	1	
	Naphthalene	91-20-3	1	0.2	1	
	Benzene	71-43-2	1	2		
2N. Volatile	Xylene	1330-20-7	1	2	ISO 11423-1	
Organic Compound	o-cresol	95-48-7	1	2	Headspace- or Purge-	
(VOCs)	p-cresol	106-44-5	1	2	and-Trap-GC/MS	
•	m-cresol	108-39-4	1	2	1 -	
	Temperature	-	N/A	N/A	Apply the standard	
	TSS	=	N/A	N/A	methods that best apply	
	COD	_	N/A	N/A	to the region (ISO, EU,	
	Total-N	_	N/A	N/A	US, China), please refer	
	pH	_	N/A	N/A	to ZDHC Wastewater	
1A. Conventional	Color [m ⁻¹] (436nm; 525nm; 620nm)	_	N/A	N/A	Guidelines for more details on the testing	
Parameters	BOD5	_	N/A	N/A	method and the levels	
	Ammonium-N	=	N/A	N/A	(Foundational,	
	Total-P	_	N/A	N/A	Progressive, and	
	AoX	_	N/A	N/A	Aspirational).	
		İ			1 1 1 1 1 1 1 1	
ĺ		_	N/A	N/A		
	Oil and Grease Phenol	- -	N/A N/A	N/A N/A	Cyanide: With	



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			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	Persistent Foam	-	Not visible	Not visible	4500 CN—B,C&E and followed by UV
	ANIONS	-	· ·		analysis
	Cyanide(CN-)	Various (incl. 57-12-5)	0.02	1	
	Sulfide		N/A	N/A	
	Sulfite	_	N/A	N/A	
			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (mg/L) / (ppm)	Sludge (mg/kg) / (ppm)	Name of the testing method
	Antimony(Sb)	7440-36-0	0.001	N/A	Various
	Chromium(Cr), total	7440-47-3	0.001	N/A	Acid Digestion with
	Cobalt(Co)	7440-48-4	0.001	N/A	ICP analysis
	Copper(Cu)	7440-50-8	0.001	N/A	
	Nickel (Ni)	7440-02-0	0.001	N/A	please refer to ZDHC
	Silver (Ag)	7440-22-4	0.001	N/A	Wastewater Guidelines
1B. Conventional	Zinc(Zn)	7440-66-6	0.001	N/A	for more details on the
Parameters -	Arsenic (As)	7440-38-2	0.001	2	testing method and the
METALS	Cadmium(Cd)	7440-43-9	0.0001	2	levels (Foundational,
	Chromium VI(CrVI)	18540-29-9	0.001	2	Progressive, and Aspirational).
	Lead(Pb)	7439-92-1	0.001	2	Aspirational).
	Mercury (Hg)	7439-97-6	0.00005	0.2	Cr(VI): Various Solvent extraction and derivatisation followed by UV analysis
3. Conventional Parameters	Dry mass (total solids)	_	N/A	N/A	US EPA 160.3 / 209A

Note / Key:

ppm = part(s) per million; ppb = part(s) per billion U. S. EPA = United States Environmental Protection Agency APHA = American Public Health Association

Remark: The report [(6822)079-0084] was sub-contracted to India (Testtex India Laboratories Pvt. Ltd) for Coliform, Total-N & AOX Tests.



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APPENDIX C – Onsite Field Data Record Sheet

(100)		FIELD DATA	RECORD C	N ZERO DI	SCHARGE	SAMPLE		CPSD-AN-	-00613-DATA 0
4C4 HORIOC S 24		(CON	POSITE/II	NDIVIDUAL	SAMPLING	i)		Version No.: 16	
14210-10210-1021				1				Business	Line: Analytical
General Data				6022	700	-0	2		
Laboratory Sample f	Vumber			(602.	104	-00	84		
Client Name									
Field Contact Person		Taiabu	2 Rahy	MAN.	Phone No.	61010	6030	07	_
Project (Facility Nam		Ster		rundr	v Ud.		000	/	
Sampling Location /				ET.P	= In	Lot			_
Sample Identification		Zero discharg	e with sampling p	lan					
Sample Type		Composite Sa	mple / Grab samp	ple (Please delet	as appropriate)			_
Name of Sampler		Md.	Asad	Hosev	n,				
Discharge mode		Direct discharge		pecify destination:	River, Sea, Strea	n) OR Indrect of	scharge to sewage	treatment plant	_
Date of collection		16	03.	22		///	***************************************		→
Factory Type:				nishing / Others	please specify)				-
			e selected more th			-			
Field Data for Waste	water								
Arrival Time:		10:0	Ò	Departure Time	E	151	30		
Field Parameters		pH: X 1		Temp: 0,4		8.7	ILPA	Flow rate :	(volume/min)
Control No. of field ec	prient					00			(voidinemin)
Factory with effluent t	restment plant:	L-		Yes		-		No	
			Incoming water	.2021				1396	
Sample matrix		~	Wastewater be						
				er treatment – wa	noist				
Sampler container nu	mber	12	12	12	12	1	112	1	
		1	2	3	1 4	12		720	
Sala William Value	ID					5	6	7	8
Recording time	Time	10:10	11:10	12:10	513:10	LALID	15.110		
H		7.1	7.2	7.4	7.5	14:10	15:10	<u> </u>	
Temp ("C):		24.0	1000	39.6	39.0	7.6	7.2		
Color (visual estimatio	n)		34.1		-	34.4	39.3		
low rate (volume/lime		120	Blue	Bue.	Blue.	Blue	Blue		
Volume collected mL			1200.1		111.4	120.3	1284		
Total volume collected		12×167	122167	12×167	12×167	12×167	12×167		
, star Foreing Solisbied		12024	Remark: Total v	olume collected i	must be greater	than total of san	ple size required		
Analysis Required an	d Preservation Method								
Tests (ZDHC	MRSL Parameters)	Test required (v)	Total of sample size	Type of container		Preservation method			
	1. Phthalate	L-							
Combined test or	Chlorobenzenes, Chlorotoluene & PAH	-	1000 mL total						
Individual test (Remark 4)	3. SCCPs	1	or 1000 mL each	14					
	4. APS								
AREO-									
APEOs			100 mL						
Chlorophenals & Cra	isols	1	100 mL						
Flame retardant			500 mL				1.00	EDDS WELL-SHOW	
Dyes			10 mL	Amber Gl	ass,washed with r	iline soid,	s	Nithout adding actione sample at 2-8	d 'C
Glycol		-	50 mL						
0. *Pesticides		X	1000 mL						
1. 'Nitrosamine		×	10 mL	1					
Nitrosamine			2000 mL						
II. SAME ASSESSED IN	Free primary aromatic amines		500 mL						
2. Banned Azodyes	property to the state of the st		ar restriction						
Banned Azodyes Free primary arom		-	500 mL			VI.			10
2 Banned Azodyes 5. 'Free primary arom 6 Organotin Compour		5	500 mL 10 mL				Fill to full containe	r without air gap: a	icidify to pH 2 with
Banned Azodyes Free primary arom Organotin Compour	nds	5	149900	PF V	vashed with postic	ide		r without air gap; a id store sample at Vithout adding acid	2-8°C



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(17/1)		CPSD-AN-00613-DATA 04		
	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE	Issue Date:		
	(COMPOSITE / INDIVIDUAL SAMPLING)	Version No.: 16		
4.4.20.00 B-20.00		Business Line: Analytical		

Tests (Conve	ntional Parameters)	Test required (v)	Total of sample	Type of container	Preservation method	
Combined test or Individual test	17. Total suspened solids (TSS)		2000 mL total			
(Remark 4) (TDS)			2000 mL each	1.11.20	Without adding acid	
19. 5-day Biochemical	Oxygen Demand (BOD5)		1000 mL	Amber Glass, weathed with nitric acid	Store sample at 2-8°C	
20 Colour			100 mL			
21. Heavy Metals except Cr(VI) & Total-P (Remark 6)		W	9 mL	PE, washed with nitric acid	Acidity to pH 2 with HNO ₃ and store at 2-8°C	
22 Cyanide		-	500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% Na ₂ S ₂ O ₃ , and store sample at 2-8°C	
23. Cr(VI)		V	95 mL		Filter by 0.45µm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 2-8°C	
24 Chemical oxygan de	mand (COD)	1	150 mL		minimum purief. Store sample at 2-8°C	
25. Phenois			500 mL	Amber Glass; washed with nitric acid	Acidity to pH 2 with H ₂ SO ₄ Store sample at 2-6°C	
26. Oil and Grease & To	otal Hydrocarbon		1000 mL		ours sample at 2-5 G	
27. *Formaldenyda			25 mL		Fill to full container without air gap, scidify to pH 2 wi H ₂ SO ₄ and store sample at 2-8°C	
28 Sulfide (Remark 5)			50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 28 zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C	
29. Total Coliform (Rem	ark 5)		125 mL	PE, clean, sterile.	Cas and Publication of the Con-	
30.E.coli (Remark 8)			125 mL	non-reactive	Add 0.1 ml of 10% Na2 ₆ 2O ₃ ,keep in dark Store sample at 2:8°C	
31. Persistent foam			N.A.	Foam higher than 45 cm (visu	al estimation). Yes / No	
32. Sulfite			100 mL	Amber Class, washed with pesticide grade acctone	Add 1mL of 2.5% EDTA Store sample at 2.8°C	
33. Total-N			100 mL			
34. Ammonium-N			500 mL	я	Acidify to pH 2 with H ₂ SO ₄ Store sample at 2-8°C	
35. Adsorbable organica	lly bound hatogens (AOX)		100 mL		Acidify to pH 2 with HNO ₃ and store at 2-8°C	
36 Acute aquatic toxicit uminus Bacteria Fish (1000 mL	Amber Glass, washed with nitric scid.		
37. Sulphate			100 mL		Without adding acid Store sample at 2-8°C	
88. Chloride			100 mL		anna saniha at 5-3 c	
9 Others						
Observation/ Ramark:						

Remarks

- 1.Individual sampling can be performed upon request
- 2. The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.
- 3. Scope of ZDHC guideline: Parameter 1-9, 12, 14-17, 19-26, 28, 29, 31-35

Scope of synthelia leather industry. Parameter 1-9, 12, 14-21, 23-26, 28, 30, 31, 33, 34, 37, 38

Scope of MMCF: Parameter 5, 15, 17, 19-21, 23 - 26, 28, 33-36

- Free primary aromatic amine, pesticides, nifrosamine and formaldehyde are not in the scope of ZDHC Guidline, they are tested upon request.

 4. Refer to CPSD-AN-G00019-STIP01, loactions with those CPSD test capability inside TCD matrix can perform the combined test.
- 5. Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.
- 6. Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by	Full name Md-Asad Hoseun.	Date: 16.03.22
Comment from fact	AND AND A MANAGEMENT OF THE ANGELOS AND	
Acknowledgement		
I hereby confirmed	that Bureau Veritas has completed the stated sampling activity at captioned date	e, time and location. All sample(s) is/are collected in designated
container(s) and w	thout any observation in leakage. Sample(s) collected by Bureau Veritas is/are s	stored in portable freezer / fridge that is maintained in 1-6°C
	V .	121

Signatory of Factory Representative

CPSD-AN-00613-DATA 04-FIELD DATA RECORD ZDHC SAMPLING-V16 xisx

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A CAND AS STREAMS		FIELD DATA (COI	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)						00613-DATA 04 3: 0.: 16	
General Data			co	-1	3:			Business	Line: Analytical	
Laboratory Sample	Number		(6821	1029	n on t	211			
Citent Name:			1			- 660			shulia, Dhe	
Field Contact Perso		Taiab	Wz Ro	hman	Phone Ne	BIOLA	-C A O	MAT	-	
Project (Facility Nam		Sterl	ina lai	mderel	HI (Dh	ania /	Margaret	UC X		
	impling Location / Description			ETIP:	Outle	of-	OLIVERY !	LOLATA	shull a,	
Sample Identification	t	Zero discharg	e with sampling	pian					- Dhe	
Sample Type			And a contract with	the full gase deter	e as appropriate	9)			- -	
Name of Sampler Discharge mode		Md.	Asad H	osain.						
Date of collection:		Direct discharge	e to environment (specify destination	River, Sea. Strea	m) DR Indirect o	fischarge to sewage	treatment plant		
actory Type.			03.2		G	toulf c	anal			
3. 40.		Dyeing / Printi	ng / Washing / F be selected more t	inishing / Others	(please specify)					
Field Data for Waste	ewater	(MANA) IN PRODUCT	pe selected more t	nan one						
Vrival Time		10:00	Y	Departure Tim		100	0.0	A)^	Gam	
Field Parameters		pH: 6.9	Vi	Temp: 20			30	100	roam	
Control No. of field ed			13	32	2 0	Color: Ligh	4 BULE	Flow rate:	(volume/min)	
actory with effluent t	realment plant:		1	Yes			N	n		
			Incoming water	(If required)				50		
iample matrix.			Wastewater be	fore treatment						
Anneal Company of the results of the	7/4/5	V	Wastewater aft	fter treatment - water at discharge point		point				
ampler container nui	mber	29	29	29	2-1	24	24			
	1000	1	2	3	.4	5	6	7	8	
ecording time	ID	1							-	
43	Time	10:05	11:05	12:05	@13:05	4:05	15:05			
imp ("C):		6.9	6.4	7.0	7.4	7.2	64			
olor (visual estimatio	n)	32.2	32.1	32.8	33.0	33.0	33.4			
ow rate (volume/time	1.6.1	light by by	but Ught Blu	e light Blue	lighblue	light Blue	Buch			
lume collected mL	if-	80.9	84.6	90.4	70.9	76.4				
ital volume collected		24×167	24×167	21×167	24×167	292/67	29×167			
and the second	news or him will	7048	Mental C Total V	olume collected :	nust be greater t	than lotal of sam	ple size required			
	d Preservation Method	1	300 550							
Tests (ZDHC	MRSL Parameters)	Test required (√)	Total of sample size	Type of container			Pres	Preservation method		
	1. Phthalate	V								
Combined test	2. Chlorobenzenes,	-	1000 mL total							
Individual test	Chlorotoluene & PAH 3. SCCPs		ar							
(Remark 4)	10.1015381100		1000 mt, each							
1001	4. APS									
APEOs			100 mL							
Chlorophenois & Cre	sals	~	100 mL							
Flame retardant			500 mL							
Dyes				14 a 223			Wit	hout adding acid		
Glycol			10 mL	Amber Gla	ss, washed with ni	tric acid,	G10/1	sample at 2-8°C	e:	
*Pesticides			50 mL							
		X	1000 mL							
*Nitrosamine		X'	10 mL							
particular recognisation of the con-		~	2000 mL							
banned Azodyes	tic amines	Y	500 mL							
-00.00000000000000000000000000000000000										
Banned Azodyes *Free primary aroma Organotin Compoun	ds	10	500 ml							
*Free primary aroma Organotin Compoun		5	500 mL							
*Free primary aroma Organotin Compoun	ds Solvents (Remark 6)		500 mL 10 mL		ashed with pestici		fill to full container with HCI and a	thout air gap; acid tore sample at 2-	dify to pH 2 with	



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- 1 - TATE TO T		I D D · · ·			CPSD-AN-00613-DATA 04	
(C) PIECE DA			RECORD OF	V ZERO DISCHARGE SAMPLE	Issue Date:	
CONFESS.	COM	OSHE/IN	DIVIDUAL SAMPLING)	Version No.: 16		
	P. Maria and Carlotte (ACCOUNTS)	Test remained	Total of sample		Business Line: Analytical	
	entional Parameters)	(v)	Fotal of sample size	Type of container	Preservation method	
Combined test or Individual test	17 Total suspened solids (TSS) 18 Total dissolved solids	<i>i</i>	2000 mL total or			
(Remark 4) (FDS)		X	2000 mL each	Amber Glass, washed with nitio acid.	Without adding acid	
19. 5-day Biochemical Oxygen Demand (BOD5)		<u></u>	1000 mL		Store sample at 2-8°C	
D Colour 1 Heavy Metals even	pt Cr(VI) & Total-P (Remark	~	100 mL			
)	an entant a colonia functions		9 mL	PE, washed with nitric and	Acidify to pH 2 with HNO ₃ and store at 2-5°C	
2. Cyanide		L-	500 mL	Amber Chass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% Na ₂ S ₂ O ₅ , and store sample at 2-6°C	
23. Cr(VI)		-	95 mL		Filter by 0.45µm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding	
4. Chemical oxygen de	emand (COD)		150 mL		ammonium buffer. Store sample at 2-8°C	
5. Phenals		1	500 mL	Amber Glass; washed with nitric acid	Acidity to pH 2 with H ₂ SO ₄	
6. Oil and Grease & Ta	ctathlydrocarbon	-	1000 mL		Store sample at 2-8°C	
7. *Formaldehyde		4	25 mL		Fill to full container without air gap; acidify to pH 2 with H ₂ SO ₄ and store sample at 2-8°C	
8 Sulfide (Remark 5)		~	50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap, add 2 grops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C	
9 Total Coliform (Rem	nark 6)		125 mL	Be allow works	The state of the s	
0 E.coli (Remark 6)		×	125 mL	PE, clean, sterile, non-reactive	Add 0.1 ml of 10% Na2 ₂ 2O ₃ keep in dark Store sample at 2-8°C	
1. Persistent foam		V	N.A.	Foam higher than 45 cm (visu	I estimation): Yes / No	
2. Sulfite		~	100 mL	Amber Glass, washed with pesticide grade acctone	Add 1mL of 2.5% EDTA Store sample at 2-6°C	
3 Total-N		-	100 mL		Acidity to pH 2 with H ₂ SO ₄	
: Ammonium-N			500 mL		Store sample at 2-8°C	
	ally bound halogens (AOX)		100 mL		Acidify to pH 2 with HNO ₃ and store at 2-8°C	
Acute aquatic toxicity uminus Bactaria, Fish Egg, Daphne, Alage Suiphate		f	1000 mL	Amber Glass,washed with nitric sold,		
			100 mL		Without adding acid Store sample at 2-8°C	
3. Chlorida			100 mL			
3. Others:		Į.				
bservation/ Remark						
The minimum sampling Scape of ZDHC guide	n be performed upon request g time for 2019 ZDHC guideli line. Perameter 1-9, 12, 14-12 ther industry. Parameter 1-9, Parameter 5, 15, 17, 19-21,	7, 19-26, 28, 29, 12, 14-21, 23-26 23 - 26, 28, 33-3	31-35 , 28, 30, 31, 33,	ne hour between discrete samples. Sampling time 34, 37, 36	could be adjusted upon request.	
Free primary aromatic Refer to CPSD-AN-GO Refer to CPSD-AN-OO Refer to CPSD-AN-OO accorded by.	amine, pesticides, nitrosamin 00019-STIP01, loactions with 0570-MTHD for additional pre 0513-MTHD for preparation of	those CPSD test treatment of suif	yde are not in the capability inside ide if only diasol- secific parameter	Date	16.03.22	
Free primary atomatic Refer to CPSD-AN-Go Refer to CPSD-AN-Go scorded by: Immant from factory knowledgement by fac ereby confirmed that B	tamine, pesticides, nitrosamir 20019-STIPO1, loactions with 00570-MTHO for additional pre 3513-MTHD for preparation of Full name: MO + f	those CPSD test treatment of sulf field blank for sp	yde are not in the capability inside ide if only dissolved in parameter of the second in the second	TCD matrix can perform the combined test, red sulfide is required to be tested. Date. Date.	16 · 0 3 · 22	

APPENDIX D – Limitation Value of Legal Requirements