

TEST REPORT

Technical Report:	(6822)205-0170	August 03, 2022
Date Received:	July 23, 2022	Page 1 of 23
Factory Company Name:	Pioneer Denim Limited	
Factory Address:	Horitola, Shahapur Bazar, Madhabpur, Habiganj, 3333, Banglades	sh.
Sampling Method:	I001) Raw Wastewater – 6 hours Time – weighted Composite I002) Treated Wastewater – 6 hours Time – weighted Composite	
Sample Pick Up Date:	July 23, 2022	
Wastewater Discharge to: On-Site Effluent Treatment Plant	Government Canal	
(ETP):	Yes	
Discharge Type:	Direct Discharge	
Off-site ETP name (if applicable):	Not Applicable	
Off-site ETP address (if	Not Applicable	
applicable): Local Regulation: / Ordinance /	Not Applicable	
requirements related to wastewater	Not replicable	
discharged are followed:		
Permit Validation Date: Parameters Exceeded Local	Not Applicable Not Applicable	
Regulation	Not Applicable	
Legal compliance:	Not Applicable	
Conventional Parameters:	Foundational	
MRSL Parameters:	Not Detected	
Test Period:	July 24, 2022 To August 03, 2022	
Sample Description:		
	I001) Blue color liquid - Raw Wastewater	
	1002) Brownish color liquid – Treated Wastewater	
Parameters exceeded maximum	Not Applicable	

holding time:

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@bureauveritas.com website: cps.bureauveritas.com

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REMARK

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

General enquiry and invoicing

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Technical enquiry-Chemical

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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	NR	
Total-P		
AOX		
Oil and Grease		
Phenol		
Coliform		
Persistent Foam		
ANIONS – Cyanide	-	
ANIONS - Sulfide		
ANIONS - Sulfite		
1B) Conventional Parameters –METALS		

ZDHC MRSL Substances	I001	1002
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

Note / Key :

- Meet Foundational Limit / Meet discharge license criteria
- - Exceed Foundational Limit / Exceed discharge license criteria
- NR Not Requested / Not required
- D Detected
- ND Not Detected
- NA 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) Polycyclic Aromatic Hydrocarbons 2N) Volatile Organic Compounds

Sampling Plan

Two environment samples were sampled per factory, including I001) Discharged Wastewater (Raw wastewater) and I002) 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	34.6 (Foundational)	deg. C	DATA

Note:

deg. C = degree Celsius (°C) Foundational Limit: $\blacktriangle 15 / \text{max}$. 35°C; Progressive Limit: $\blacktriangle 10 / \text{max}$. 30°C; Aspirational Limit: $\blacktriangle 5 / \text{max}$. 25°C

Total Suspended Solids (TSS)

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

Tested Item(s)	Result	Unit	Conclusion
1002	4 (Aspirational)	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 5220 D

Tested Item(s)	Result	Unit	Conclusion
1002	29 (Aspirational)	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
1002	4.20 (Aspirational)	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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<u>pH Value</u>

Test Method : Reference to EPA 150.2

-	Unit	Result
Test Item(s)	-	I002
Parameter	-	-
Temp. of sample	deg. C	21.6
pH value of sample	-	7.5 (Comply with ZDHC WWG requirements)
Conclusion	-	DATA

Note:

Temp. = Temperature Limit: 6 - 9 deg. C = degree Celsius (°C)

Color [m⁻¹] (436nm; 525nm; 620nm)

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

Tested Item(s)	Result	Unit	Conclusion
1002	1.6; 0.7; 0.4 (Aspirational)	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 (5 days)

Tested Item(s)	Result	Unit	Conclusion
1002	8 (Progressive)	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 22^{nd} Edition 2012

Tested Item(s)	Result	Unit	Conclusion
I002	0.31 (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)

Tested Item(s)	Result	Unit	Conclusion
1002	0.32 (Progressive)	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

Tested Item(s)	Result	Unit	Conclusion
1002	0.82 (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
1002	1.3 (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 : Reference to APHA 5530 C

Tested Item(s)	Result	Unit	Conclusion
1002	0.003 (Progressive)	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	197 (Foundational)	Bacteria / 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
I002	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 (Wastewater & sludge)

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 $4500-SO_3^{2-}(2012)$

Tested Item(s)	Result	Unit	Conclusion
1002	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

Parameter	I001 (mg/L)	I002 (mg/L)
Antimony (Sb)		
Direct Discharge Limit: Foundational 0.1 mg/L; Progressive 0.05 mg/L; Aspirational 0.01 mg/L	ND (Aspirational)	ND (Aspirational)
Chromium (Cr), total Direct Discharge Limit: Foundational 0.2 mg/L; Progressive 0.1 mg/L; Aspirational 0.05 mg/L	0.003 (Aspirational)	ND (Aspirational)
Cobalt (Co) Direct Discharge Limit: Foundational 0.05 mg/L; Progressive 0.02 mg/L; Aspirational 0.01 mg/L	ND (Aspirational)	ND (Aspirational)
Copper (Cu) Direct Discharge Limit: Foundational 1 mg/L; Progressive 0.5 mg/L; Aspirational 0.25 mg/L	0.025 (Aspirational)	ND (Aspirational)
Nickel (Ni) Direct Discharge Limit: Foundational 0.2 mg/L; Progressive 0.1 mg/L; Aspirational 0.05 mg/L	0.001 (Aspirational)	ND (Aspirational)
Silver (Ag) Direct Discharge Limit: Foundational 0.1 mg/L; Progressive 0.05 mg/L; Aspirational 0.005 mg/L	ND (Aspirational)	ND (Aspirational)
Zinc (Zn) Direct Discharge Limit: Foundational 5 mg/L; Progressive 1 mg/L; Aspirational 0.5 mg/L	0.05 (Aspirational)	ND (Aspirational)
Arsenic (As) Direct Discharge Limit: Foundational 0.05 mg/L; Progressive 0.01 mg/L; Aspirational 0.005 mg/L Sludge Limit: 2 mg/kg	ND (Aspirational)	0.001 (Aspirational)
Cadmium (Cd) Direct Discharge Limit: Foundational 0.1 mg/L; Progressive 0.05 mg/L; Aspirational 0.01 mg/L Sludge Limit: 2 mg/kg	ND (Aspirational)	ND (Aspirational)



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Parameter	I001 (mg/L)	I002 (mg/L)
Chromium VI (CrVI) Direct Discharge Limit: Foundational 0.05 mg/L; Progressive 0.005 mg/L; Aspirational 0.001 mg/L Sludge Limit: 2 mg/kg	ND (Aspirational)	ND (Aspirational)
Lead (Pb) Direct Discharge Limit: Foundational 0.1 mg/L; Progressive 0.05 mg/L; Aspirational 0.01 mg/L Sludge Limit: 2 mg/kg	ND (Aspirational)	ND (Aspirational)
Mercury (Hg) Direct Discharge Limit: Foundational 0.01 mg/L; Progressive 0.005 mg/L; Aspirational 0.001 mg/L Sludge Limit: 2 mg/kg	ND (Aspirational)	ND (Aspirational)



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Others Priority Chemical Groups

	I001 (µg/L)	I002 (µg/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) Polycyclic Aromatic Hydrocarbons	ND	ND
2N) Volatile Organic Compounds	ND	ND

Remark :

- Test method, reporting limit and list of chemical are summarized in Appendix B.
- ND = Not detected (Please refer to reporting limit shown in Appendix B).



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APPENDIX A - Photo of the Sample/ Sampling Location

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APPENDIX B

			Dere over 1	[::4	*	
C	Substance (Testing	CACN	Report 1	-	Name of the testing	
Group	parameter)	CAS No.	Wastewater	Sludge	method	
	1	Variana (in al. 104.40	(ug/L)	(mg/kg)	ND/OD 10057 0	
	Nonylphenol NP, mixed	Various (incl. 104-40- 5, 11066-49-2, 25154-	5	0.4	NP/OP: ISO 18857-2	
	isomers	52-3, 84852-15-3)	5	0.4	(modified dichloromethane	
		Various (incl. 140-66-			extraction) or ASTM	
2A. Alkylphenol	Octylphenol OP, mixed	9, 1806-26-4, 27193-	5	0.4	D7065 (GC/MS or	
(AP) and	isomers	28-8)	5	0.4	LC/MS(-MS)	
Alkylphenol					20,000(000)	
Ethoxylates	Octylphenol ethoxylates	Various (incl. 9002-			OPEO/NPEO:	
(APEOs): including	(OPEO)	93-1, 9036-19-5,	5	0.4	ISO18857-2 or ASTM	
all isomers		68987-90-6)			D7065(LC/MS; GC/MS	
		Various (inc. 9016-45-			or LC/MSMS for	
	Nonylphenol ethoxylates	9, 26027-38-3, 37205-	5	0.4	n=1,2)	
	(NPEO)	87-1, 68412-54-4,	5	0.4		
		127087-87-0)			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		
OD Chloraberra	3-Chlorotoluene 4-Chlorotoluene	108-41-8 106-43-4	0.2	0.2	USEPA 8260B, 8270D.	
2B. Chlorobenzenes and Chlorotoluenes	2,3-Dichlorotoluene	32768-54-0			Dichloromethane extraction followed by	
and Chiorotonuelles	2,3-Dichlorotoluene	95-73-8	0.2	0.2	GC/MS	
	2,4-Dichlorotoluene	19398-61-9	0.2	0.2	UC/WIS	
	2,5-Dichlorotoluene	19398-01-9	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	1	
	Pentachlorotoluene	877-11-2	0.2	0.2	1	
	2-Chlorophenol	95-57-8	0.5	0.05		
	3-Chlorophenol	108-43-0	0.5	0.05	USEPA 8270 D	
	4-Chlorophenol	106-48-9	0.5	0.05	Solvent extraction,	
2C. Chlorophenols	2,3-Dichlorophenol	576-24-9	0.5	0.05	derivatisation with	
	2,4-Dichlorophenol	120-83-2	0.5	0.05	KOH, acetic anhydride followed by GC/MS	
	2,5-Dichlorophenol	583-78-8	0.5	0.05	Ionowed by GC/MIS	

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			Report	Limit		
Group	Substance (Testing parameter)	CAS No.	Wastewater (ug/L)	Sludge (mg/kg)	Name of the testing method	
	2,6-Dichlorophenol	87-65-0	0.5	0.05		
	3,4-Dichlorophenol	95-77-2	0.5	0.05		
	3,5-Dichlorophenol	591-35-5	0.5	0.05		
	2,3,4-Trichlorophenol	15950-66-0	0.5	0.05		
	2,3,5-Trichlorophenol	933-78-8	0.5	0.05		
	2,3,6-Trichlorophenol	933-75-5	0.5	0.05		
	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	101-80-4	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-			0.2		
	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		
	4-Methoxy-m-	615-05-4	0.1	0.2	EN 14362.	
2D. Dyes - Azo	phenylenediamine	015-05-4	0.1		Reduction step with	
(Forming Restricted	4,4°-Methylene-di-o-	838-88-0	0.1	0.2	Sodiumdithionite,	
Amines)	toluidine		0.1		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	-	
	o-Toluidine	95-53-4	0.1	0.2		
	2,4-Xylidine	95-68-1	0.1	0.2	-	
	4-Chloro-o-toluidine 4-Methyl-m-	95-69-2	0.1	0.2	-	
	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		
	C.I. Direct Blue 6	2602-46-2	500	10		
	C.I. Acid Red 26	3761-53-3	500	10		
	C.I. Basic Red 9	569-61-9	500	10	1	
	C.I. Direct Red 28	573-58-0	500	10		
2E Dues	C.I. Basic Violet 14	632-99-5	500	10		
2E. Dyes- Carcionogenic or	C.I. Disperse Blue 1	2475-45-8	500	10	Liquid Extraction	
Equivalent Concern	C.I. Disperse Blue 3	2475-46-9	500	10	LC/MS	
Equivalent Concelli	C.I. Basic Blue 26 (with	2580-56-5	500	10		
	Michler's Ketone $> 0.1\%$)	2300-30-3	500			
	C.I. Basic Green 4	569-64-2	500	10		
	(malachite green chloride)	507 07 2	500			
	C.I. Basic Green 4	2437-29-8	500	10		
	(malachite green oxalate)					

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	Calation (Trading	Repo		Limit	Nome of the testing	
Group	Substance (Testing parameter)	CAS No.	Wastewater (ug/L)	Sludge (mg/kg)	Name of the testing method	
	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	-	
	Disperse Yellow 3 Disperse Red 11	2832-40-8 2872-48-2	50 50	2 2	-	
2F. Dyes-disperse	Disperse Red 1	2872-52-8	50	2	Liquid Extraction	
(sensitizing)	Disperse Red 17	3179-89-3	50	2	LC/MS	
	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		
	Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP)	5412-25-9	5	1		
2G. Flame	Tris(aziridinyl)- phosphineoxide (TEPA)	545-55-1	5	1	ISO 22032, USEPA527 and USEPA8321B.	
Retardants	Polybromobiphenyls (PBBs)	59536-65-1	5	1	Dichloromethane extraction GC/MS or	
	Tetrabromobisphenol A (TBBPA)	79-94-7	5	1	LC/MS(-MS)	
	(HBCDD)	3194-55-6	5	1		
	2,2-Bis(bromomethyl)-1,3- propanediol (BBMP)	3296-90-0	5	1		
	Tris(1,3-dichloro- isopropyl) phosphate	13674-87-8	5	1		
	(TDCP) Short chain chlorinated	15074-87-8	5	1	-	
	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	US EPA 8270	
2H. Glycols	Ethylene glycol dimethyl ether	110-71-4	50	10	Liquid Extraction LC/MS	
	2-methoxyethanol	109-86-4	50	10		
	2-methoxyethylacetate	110-49-6	50	10		

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			Report l	Limit	Nome of the testing		
Group	Substance (Testing parameter)	CAS No.	Wastewater (ug/L)	Sludge (mg/kg)	Name of the testing method		
	2-methoxypropylacetate	70657-70-4	50	10			
	Triethylene glycol dimethyl ether	112-49-2	50	10			
	1,2-Dichloroethane	107-06-2	1	2			
2I. Halogenated	Methylene Chloride	75-09-2	1	2	USEPA 8260B		
Solvents	Trichloroethylene	79-01-6	1	2	Headspace GC/MS or Purgeand-Trap-GC/MS		
	Tetrachloroethylene	127-18-4	1	2	Turgeand-Trap-OC/Wis		
	Mono-, di- and tri- methyltin derivatives	Multiple	0.01	0.2			
2J. Organotin	Mono-, di- and tri-butyltin derivatives	Multiple	0.01	0.2	ISO 17353		
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	1763-23-1	0.01	0.10	DIN 38407-42		
	acid (PFOS) Perfluoro-n-octanoic acid (PFOA)	335-67-1	0.01	0.10	(modified) Ionic PFC:		
2K. Perfluorinated and Polyfluorinated Chemicals (PFCs)	Perfluorobutanesulfonic acid (PFBS)	29420-49-3, 29420- 43-3	0.01	0.10	Concentration or direct injection, LC/MS(-MS);		
	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,		
	6:2 FTOH	647-42-7	1	1	followed by GC/MS		
	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			
	Di-iso-decyl phthalate (DIDP)	26761-40-0	10	2			
	Di-iso-nonyl phthalate (DINP)	28553-12-0	10	2			
	Di-n-hexyl phthalate (DnHP)	84-75-3	10	2			
	Dibutyl phthalate (DBP)	84-74-2	10	2			
2L. Phthalates	Butyl benzyl phthalate (BBP)	85-68-7	10	2	US EPA 8270D, ISO		
(including all other	Dinonyl phthalate (DNP)	84-76-4	10	2	18856		
esters of phthalic	Diethyl phthalate (DEP)	84-66-2	10	2	Dichloromethane		
acid)	Di-n-propyl phthalate (DPRP)	131-16-8	10	2	extraction GC/MS		
	Di-iso-butyl phthalate (DIBP)	84-69-5	10	2			
	Di-cyclohexyl phthalate (DCHP)	84-61-7	10	2	1		
	Di-iso-octyl phthalate (DIOP)	27554-26-3	10	2	1		
	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	71888-89-6	10	2			

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			Report 1	Limit	
Group	Substance (Testing	CAS No.	Wastewater	Sludge	Name of the testing
oroup	parameter)		(ug/L)	(mg/kg)	method
	(DIHP)		(ug/2)	(***8/**8/	
	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. Polycyclic	Benzo[b]fluoranthene	205-99-2	1	0.2	
Aromatic	Fluoranthene	206-44-0	1	0.2	DIN 38407-39
Hydrocarbons	Benzo[k]fluoranthene	207-08-9	1	0.2	Solvent extraction
(PAHs)	Acenaphthylene	208-96-8	1	0.2	GC/MS
()	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	
	Fluorene	86-73-7	1	0.2	
	Naphthalene	91-20-3	1	0.2	
	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
(1005)	m-cresol	108-39-4	1	2	
	Temperature	_	N/A	N/A	
	TSS	-	N/A	N/A	
	COD	_	N/A	N/A	Apply the standard
	Total-N	-	N/A	N/A	methods that best apply
	pH	-	N/A	N/A	to the region (ISO, EU,
	Color [m ⁻¹] (436nm;		NT/A		US, China), please refer
	525nm; 620nm)	-	N/A	N/A	to ZDHC Wastewater
	BOD5	-	N/A	N/A	Guidelines for more
	Ammonium-N	—	N/A	N/A	details on the testing
1A. Conventional	Total-P	—	N/A	N/A	method and the levels
Parameters	AoX	—	N/A	N/A	(Foundational,
1 arameters	Oil and Grease	—	N/A	N/A	Progressive, and
	Phenol	—	N/A	N/A	Aspirational).
	Coliform(bacteria/100ml)	—	N/A	N/A	
	Persistent Foam	_	Not visible	Not	Cyanide: With
			Not visible	visible	reference to APHA
	ANIONS	T			4500 CN—B,C&E and followed by UV
	Cyanide(CN-)	Various (incl. 57-12- 5)	0.02	1	analysis
	Sulfide	-	N/A	N/A	
	Sulfite	-	N/A	N/A	
	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	
1B. Conventional	Nickel (Ni)	7440-02-0	0.001	N/A	Please refer to ZDHC
Parameters -	Silver (Ag)	7440-22-4	0.001	N/A	Wastewater Guidelines
METALS	Zinc(Zn)	7440-66-6	0.001	N/A	for more details on the
	Arsenic (As)	7440-38-2	0.001	2	testing method and the
	Cadmium(Cd)	7440-43-9	0.0001	2	levels (Foundational,
	Chromium VI(CrVI)	18540-29-9	0.001	2	Progressive, and
	Lead(Pb)	7439-92-1	0.001	2	Aspirational).

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-	Substance (Testing		Report I	-	Name of the testing
Group	parameter)	CAS No.	Wastewater (ug/L)	Sludge (mg/kg)	method
	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 :

U. S. EPA = United States Environmental Protection Agency APHA = American Public Health Association

Remark: The report [(6822)205-0170] was sub-contracted to India (Testtex India Laboratories Pvt. Ltd) for Coliform, Total-N & AOX Tests.



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		FIELD DAT	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)								
THE BELLE				INDIVIDUA	- SAMPLIN	G).		Version N			
General Data		185 - vi	/		. 0			Business	Line: Analytical		
Laboratory Sample	Number		1	1.En	-1.700	6	10				
Client Name:				000	<u>) re</u>	1-	0/12	0			
Field Contact Perso	n;	MIT	1 1. 1.7					2	_		
project (Facility Nan		10.F	tatizul,	slam	Phone No:	0132	1-1716	26			
Sampling Location /		PION	een De	inim li	mited						
Sample Identification		Zero diecho	$T \cdot P = T_6$								
Sample Type:		Composite	Sample / Grab sar								
Name of Sampler:		AAJ			e)		-				
Discharge mode:	scharge mode: Md - Asad Hosain.										
Date of collection:	arge mode: Direct discharge to environment (Specify destination: River, See, Stream) of collection:						charge to sewage tre	atment plant	8		
Factory Type:			ting / Washing / F	22					-		
	· · · · · · · · · · · · · · · · · · ·	*Note: It would	be selected more if	unishing / Olhers	(please specify)	-					
Field Data for Waste	water	No. and an and	and selected more a	an one	*		2	200-000 - 000	- · ·		
Amval Time:		11:	00	Departure Tin				7			
Field Parameters		pH: 12		Temp: 35			town line	<u> </u>			
Control No. of field ec	uipment		Temp: 19.0 °C Color: Blue .				me ·	Flow rate :	(volume/min)		
actory with effluent t	realment plant:	-	Yes								
	(1		Incoming water (if required)								
Sample matrix:		-	Wastewater before treatment								
	9				vater at discharge						
Sampler container nur	nber	12	12	12	12	1	10		T		
		1	2	3	4	1.25	12	at the second			
Recording time	ID.				<u> </u>			7	8		
	Time	11:15	12:15	13:15	14:15	21:21	16:15		<u> </u>		
н:		12	11.6	12.0	10.0	9.0	12.0.				
emp ("C) ;		39.0	39.9	10-0	90.9	40.2			<u> </u>		
olor (visual estimation		Blue .	Buce	Blue	Blue.	Blue.	90.8 Blue				
low rate (volume/time)	220	180	1609	159.8	254	280				
olume collected, mL		12×167	12×162	12×167	12×167		12×167		State State of the		
otal volume collected		12.024			must be greater		121164				
nalvsis Required and	Preservation Method		13 A.R. 34				pie arza rednited				
	MRSL Parameters)	Test required (v)	Total of sample size		Type of containe		Pres	servation metho			
	1. Phthalale	-									
Combined lest or Individual test	2. Chlorobenzenes, Chlorotoluene & PAH	in	1000 mL total			1					
(Remark 4)	3. SCCPs	5	or 1000 mL each			5	8 B				
	4. APS		1								
APEOs	<u> </u>	1-	100 mL		Ξ.						
Chiorophenols & Cres	icls	5	100 mL						1 A		
7. Fleme retardant								-			
rieitite retardant			500 mt			1					
Dyes		15	500 mL 10 mL				Wi	thout adding acid e sample at 2-8*C			

Amber Glass,washed with nitric acid,

PE, washed with pe grade Acetone

10. *Pesticides

11. *Nitrosamine

15. UV absorbers

17 Preservalives

19. PFCs (Remark 6)

16. BPA

12. Banned Azodyes

14. Organotin Compounds

13. 'Free primary aromatic amines

18. VOC & Halogenated Solvents (Remark 6)

 $\frac{X}{X}$

5

 \overline{x}

5

1

-

~

1000 mL

10 mL

2000 mL

500 mL

500 mL

100

2

52

10 mL

2 mL

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Fit to full container without air gap; acidity to pH 2 with HCI and store sample at 2-8°C

doing acid vie at 2-8°C



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(di)) adatati remezia	Fie			ZERO DISCHARGE SAMPLE DIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04 Issue Date: Version No.: 17 Business Line: Analytical
Tests (Conver	tional Parameters)	Test required (V)	Total of sample size	Type of container	Preservation method
Combined test or Individual test	20. Total suspened solids (TSS) 21. Total dissolved solids	1.	2000 mL total or		
(Remark 4)	(TDS)		2000 mL each	Amber Glass, washed with nitric acid,	Without adding acid Store sample at 2-8°C
	oxygen Demand (BOD5)		1000 mL		
23 Colour	t Cr(VI) & Total-P (Remark	<u> </u>	100 mL	55	
6)		5	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO ₃ and store at 2-8°C
25. Cyanide	5 ³	1~	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
26. Cr(VI)		1-	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
27. Chemical oxygen demand (COD) 28. Phenols 29. Oil and Grease & Total Hydrocarbon		1	150 mL		buffer. Store sample at 2-8°C
			500 mi_	Amber Glass; washed with nitric acid	Acidify to pH 2 with H2SO4
			1000 mL		Store sample at 2-8°C
30. *Formaldehyde	4		25 mL		Fill to full container without air gap; acidity to pH 2 with
·····				PE, washed with posticide	H ₂ SO ₄ and store sample at 2-8°C Fill to full container wilhout air gap; add 2 drops of 2M
31. Sulfide (Remark 5)			50 mL	grade Acetone;	zinc acetate, adjust pH to 9 with 6M NaCH Store sample at 2-8°C
2.E.coli (Remark 6)		41	125 mL	PE, clean, sterile, non-reactive	Add 0.1 ml of 10% Na2S2O3 ,keep in dark Store sample at 2-8*C
33. Persistent foam			N.A.	Foam higher than 45 cm (vis	- CHO
34. Sulfite			100 mL -	Amber Glass, washed with pesticide grade acotone	Add 1mL of 2.5% EDTA Store sample at 2-8°C
35. Total-N			100 mL		Acidify to pH 2 with H ₂ SO ₄
36. Ammonium-N	14-12		500 mL		Store sample at 2-8"C
7 Adsorbable organica	lly bound halogens (AOX)		100 mL		Actility to pH 2 with HNO3 and store at 2-8°C
38. Acute aquatic toxicity _uminus Bacteria; Fish B	r: gg; Daphne; Alage:		1000 mL	Amber Glass washed with nitric acid;	
19. Sulphate		1	100 mL	· · · ·	All hard and have been a second se
0. Chioride			100 mL		Without adding acid Store sample at 2-8°C
1. Conductivity			100 mL		8 B
12. Dissolved oxygen (D	0)		N.A.	at in the second second	n an
13. Total Chlorine			N.A.	measur	e in field
14 Others:			<u></u>	<u>n - Andrek din dir dir dir.</u> A	<u>, tradica (1.4. diservite), B.B.</u> V
Observation/ Remark:		•	l		· · · · · · · · · · · · · · · · · · ·
 The minimum samplin Scope of ZDHC guided Scope of synthetic lea Scope of MMCF: Para Free primary aromatic Refer to CPSD-AN-GC Refer to CPSD-AN-00 	ine: Parameter 1-9, 12, 14-2) ther industry: Parameter 1-9, meter 5, 18, 20, 22-24, 26-24 amine, pesticides, nitrosami 0019-STIP01, loactions with	ne is 6 hours wi 9, 31-37, 39-43 12, 14-24, 26-29 9, 31, 35-38 ne and formaldel those CPSD tes streatment of sul	9, 31-33, 35, 36, 3 hyde are not in th t capability inside fide if only dissolv	e scope of ZDHC Guidline, they are tested upon TCD matrix can perform the combined test, ed sulfide is required to be tested,	
Recorded by.	A	•		Deter	23.07.22
comment from factory	Fuil name: Md . A	sad Ho	sai n.	Uare .	
0 10 10 10 10 10 10 10 10 10 10 10 10 10		2	- Tendla		
	lureau Veritas has completed			ptioned dale, time and location. All sample(s) is/s itas is/are stored in portable freezer/ fridge that i	
Signatory of Factory Rep		MJ II.	férul	lalan	02/07/0000



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(33) References	FIEI	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)				*	CPSD-AN-00613-DATA 04 Issue Date: Version No.: 17 Business Line: Analytical				
and a second s			100	011	0 -		~				
<u>Seneral Data</u>		(6822) 205-0170									
_aboratory Sample Numb					· · ·		4-		-		
Client Name:	2	AJ 11	aliant'	T. Lam	Phone No: 0	Imal-1	7167	16	- ^	7 48 4	
Field Contact Person:	a waxaana	Md. Hafizul Islam. Prone Nor 01321-17 1676 Pioneez Denim United (Horritola, Shahapur Bazar, Madhab. ET-P = Outlet Habiganj.									
Project (Facility Name an	d Address):	honeer	verum	Hak	en frui			1	Habi	1000 2	
Sampling Location / Desc	aription:	<u> </u>	r = Uu	ner						poing.	
Sample Identification:						5100		~~		, – ,	
Sample Type:		Composite Samp	1.14								
Name of Sampler:				sain		<u> </u>			-		
Discharge mode:		Direct discharge to			er. Sea, Stream)	OR Indirect dischar	ge to sewage mean	canal	-		
Date of collection:			17.20						-		
Factory Type:	2 10	Dyeing / Printing "Note: it would be a			blease specify):		- 		7 ⁰	2 R 33	
Field Data for Wastewa	ter							1			
Arrival Time:		11:00		Departure Time		Color: N.	m. m. 1	Flow rate :	(volume/min)		
Field Parameters		рH: С , 9	5	Temp : 34	, <u>}. °c</u> -	Color: Br	innn.	ciow rate :	(volumenta)		
Control No. of field equip	iment							L			
Factory with effluent trea	itment plant:	5	- Ye	8				No .			
		. R	Incoming water	(If required)							
Sample matrix:			Wastewater befo	ore treatment							
10			Wastewater afte	r treatment – w	ater at discharge	point					
Sampler container numt	er	24	24	24.	24	24	29				
		1	2	3	4	5	6	7	8		
	10				1		·		1		
Recording time	Time	11:15	12:15	13:15	14:15	15:15	16:15	•			
	1 me		7.2.15	7.9	6.9	6.8	- <u></u>				
pH :	• • • • • • • • • • • • • • • • • • •	6.8	34.8	29.9	35.0		39.8				
Temp (°C) :		34.2	27.8		Browns						
Color (visual estimation	and the second s		n Browna				92-8	pro :			
Flow rate (volume/time)		80.2		85.9	90-0	96:1	11				
Volume collected, mL	1	19×167		24×167							
Toral volume collected		29098	Remark: Total v	rolume collected	i must be greater	than lotal of san	nple size require	a			
	I Preservation Method			-							
								reservation m	ethod		
	MRSL Parameters)	Test required (V)	Total of sample size		Type of contain						
			Total of sample size		Type of contain						
Tests (ZDHC Combined test	MRSL Parameters) 1. Phthalate 2. Chlorobenzenes,		Total of sample size		Type of contain						
Combined test	MRSL Parameters) 1. Phthalate 2. Chlorobenzenes, Chlorotoluene & PAH		sample size		Type of contain						
Tests (ZDHC Combined test	MRSL Parameters) 1. Phthalate 2. Chlorobenzenes,		sample size		Type of contain	er 					
Tests (ZDHC Combined test or Individual test	MRSL Parameters) 1. Phthalate 2. Chlorobenzenes, Chlorotoluene & PAH		sample size		Type of contain	er 					
Tests (ZDHC Combined test or Individual test	MRSL Parameters) 1. Phthalate 2. Chlorobenzenes, Chlorotoluene & PAH 3. SCCPs		sample size		Type of contain	er 					
Tests (ZDHC Combined test or individual test (Remark 4) 5. APEOs	MR8L Parameters) 1. Phthalate 2. Chlorobenzenes, Chlorobenzenes, 3. SCCPs 4. APS		sample size 1000 mL total 1000 mL sach 1000 mL		Type of contain						
Tests (ZDHC Combined lest or individual test (Remark 4) 5. APEOs 6. Chiorophenols & Cri	MR8L Parameters) 1. Phthalate 2. Chlorobenzenes, Chlorobenzenes, 3. SCCPs 4. APS		sample size 1000 mL total or 1000 mL sach 100 mL 100 mL		Type of contain	er					
Tests (ZDHC Combined test or individual test (Remark 4) 5. APEOs	MR8L Parameters) 1. Phthalate 2. Chlorobenzenes, Chlorobenzenes, 3. SCCPs 4. APS		sample size 1000 mL total 1000 mL sach 1000 mL		Type of contain	er		Wildrout adding	asid 2-9°C		
Tests (ZDHC Combined lest or individual test (Remark 4) 5. APEOs 6. Chiorophenols & Cri	MR8L Parameters) 1. Phthalate 2. Chlorobenzenes, Chlorobenzenes, 3. SCCPs 4. APS		sample size 1000 mL total or 1000 mL sach 100 mL 100 mL		Type of contain	er		u.	1010 2.8°C		
Tests (ZDKC Combined lest or individual lest (Remark 4) 5. APEOs 6. Chiorophenols & Cr 7. Flame relardant 8. Dyas	MR8L Parameters) 1. Phthalate 2. Chlorobenzenes, Chlorobenzenes, A. SCCPs 4. APS		sample size 1000 mL total or 1000 mL sach 100 mL 100 mL 500 mL					Wildrout adding	bia	•	
Tests (ZDKC Combined lest or individual lest (Remark 4) 5. APEOs 6. Chlorophenols & Cri 7. Flame relardant 8. Dyes 9. Glycol	MR8L Parameters) 1. Phthalate 2. Chlorobenzenes, Chlorobenzenes, A. SCCPs 4. APS		sample size 1000 mL total or 1000 mL sach 100 mL 100 mL 500 mL 500 mL 50 mL		Type of contain			Wildrout adding	ajid 2-8°C	, , ,,	
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Tests (ZDKC Combined lest or individual lest (Remark 4) 5. APEOs 6. Chlorophenols & Cri 7. Flame relardant 8. Dyes 9. Glycol	MR8L Parameters) 1. Phthalate 2. Chlorobenzenes, Chlorobenzenes, A. SCCPs 4. APS		sample size 1000 mL total or 1000 mL sach 100 mL 100 mL 500 mL 500 mL 50 mL					Wildrout adding	adid 2.4°C	•	
Tests (ZDKC Combined test or individual test (Remark 4) 5. APEOs 6. Chtoropheriols & Cri 7. Flame retardant 8. Dyos 9. Glycol 10. *Pesticides 11. *Nitrosamine	MR8L Parameters) 1. Phthalate 2. Chlorobenzenes, Chlorobenzenes, A. SCCPs 4. APS		sample size 1000 mL total 1000 mL sach 1000 mL 100 mL 500 mL 10 mL 500 mL 10 mL 10 mL					Wildrout adding	adid 2.4°C	•	
Tests (ZDKC Combined test or individual test (Remark 4) 5. APEOs 6. Chloropheriols & Cri 7. Flame retardant 8. Dyes 9. Glycol 10. *Pesticides 11. *Nitrosamme 12. Banned Azodyes	MRBL Parameters) 1. Phdialate 2. Chlorobenzanes, Chlorobenzanes, Chlorobenzanes, 3. SCCPs 4. APS esols		sample size 1000 mL total or 1000 mL sach 100 mL 100 mL 500 mL 10 mL 10 mL 10 mL 10 mL					Wildrout adding	acid 2-9°C		
Tests (ZDKC Combined test or individual test (Remark 4) 5. APEOs 6. Chlorophenols & CA 7. Flame relardant 8. Dyes 9. Glycol 10. "Pesticides 11. "Nifrosamine 12. Banned Azodyes 13. "Free primary arou	MRBL Parameters) I. Phdalate 2. Chlorobenzanes, Chlorobenzanes, Chlorobenzanes, 3. SCCPs 4. APS asols		sample size 1000 mL total or 1000 mL sach 100 mL 500 mL 500 mL 100 mL 500 mL 1000 nL 1000 nL 2000 mL					Wildrout adding	1010 2-8°C		
Tests (ZDKC Combined test of individual test (Remark 4) 5. APEOs 6. Chlorophenols & Ch 7. Flame relardant 8. Dyns 9. Glycol 10. "Pasticides 11. "Nitrosamine 12. Banned Azodyes 13. "Free onmary arou 14. Criganatin Compo	MRBL Parameters) I. Phdalate 2. Chlorobenzanes, Chlorobenzanes, Chlorobenzanes, 3. SCCPs 4. APS asols		sample size 1000 mL total or 1000 mL each 100 mL 500 mL 500 mL 10 mL 2000 mL 2000 mL 500 mL 500 mL					Wildrout adding	said 2.9°C		
Tests (ZDKC Combined test of Individual test (Remark 4) 5. APEOs 6. Chiorophenols & Cro 7. Flame relardant 8. Dyes 9. Glycol 10. *Pasticides 11. *Nifrosamine 12. Banned Azodyes 13. *Free primary arou 14. Crigonolis Compo 15. UV absorbers	MRBL Parameters) I. Phdalate 2. Chlorobenzanes, Chlorobenzanes, Chlorobenzanes, 3. SCCPs 4. APS asols		sample size 1000 mL total or 1000 mL each 1000 mL 500 mL 500 mL 100 mL 100 mL 2000 mL 2000 mL 500 mL 500 mL 500 mL 100					Wildrout adding	säid 2-8°C		
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Tests (ZDKC Combined test of Individual test (Remark 4) 5. APEOs 6. Chiorophenols & Cro 7. Flame relardant 8. Dyes 9. Glycol 10. "Pasticides 11. "Nitrosamne 12. Banned Azodyes 13. "Free onmary arou 14. Organolin Conipo 15. UV absorbers 16. BPA 17. Preservalives	MRBL Parameters) I. Phdalate 2. Chlorobenzanes, Chlorobenzanes, Chlorobenzanes, 3. SCCPs 4. APS asols		sample size 1000 mL total or 1000 mL each 1000 mL 500 mL 100 mL 500 mL 100 mL 100 mL 2000 mL 100 mL 2000 mL 100 mL 2000 mL 100 mL 2000 mL 2			n nitrie acid.	Filio full cent	Willout adding Store sample at	ap; scidity to pH 2 with the at 22-8*C		



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N.S.	FIE			ZERO DISCHARGE SAMPLE DIVIDUAL SAMPLING)	Issue Date: Version No.: 17
1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.1		10041			Business Line: Analytical
Tests (Conve	ntional Parameters)	Test required (V)	Total of sample size	Type of container	Preservation method
Combined test or Individual test	20. Total suspened solids (TSS)	5	2000 mL total or		· · · · · · · · · · · · · · · · · · ·
(Remark 4)	21. Total dissolved solids (TDS)	\times	2000 mL each	Amber Glass, washed with nitric acid,	Wilhout adding acid
22 5-day Biochemical	Oxygen Demand (BOD5)	L	1000 mL		Store sample at 2-5°C
23. Colour		5	100 mL	м. м	
24. Heavy Metals exce 6)	pt Cr(VI) & Total-P (Remark	5	9 mL	PE, washed with nitric actd	Acidify to pH 2 with HNO3 and store at 2-8°C
25. Cyanide		5	500 mL	Amber Glass, washed with pesticide grade acctone	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
26. Cr(VI)		5	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
27. Chemical oxygen demand (COD) 28. Phenois 29. Oil and Grease & Total Hydrocarbon.		1	150 mL		buffer. Store sample at 2-8°C
		1	500 mL	Amber Glass; washed with nitric acid	Acidify to pH 2 with H ₂ SO ₄
		-	1000 mL		Store sample at 2-8°C
30. *Formaldehyde	and the second	×	25 mL		Fill to full container without air gap; acidify to pH 2 with
31. Sulfide (Remark 5)		\sim	50 mL	PE, washed with posticide grade Acetone;	H ₂ SO ₄ and store sample at 2-8°C Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH
32.E.coli (Remark 6)		X	125 mL	PE, clean, sterile,	Store sample at 2-8°C Add 0.1 ml of 10% Na2S2O3 ,keep in dark
33. Persistent foam	5	~	N.A.	non-reactive Feam higher than 45 cm (visu	Store sample at 2-8°C
34. Sulfite		5	100 mL	Amber Glass, washed with pesticide grade acctone	Add 1mL of 2.5% EDTA
35. Total-N		-	100 mL		Store sample at 2-8°C
36. Ammonium-N	9 ⁻²⁻²⁰		500 mL		Acidity to pH 2 with H ₂ SO ₄ Store sample at 2-8°C
37 Adsorbable organic	ally bound halogens (AOX)	-	100 mL		Acidify to pH 2 with HNO3 and store at 2-8°C
38. Acute aquatic toxicity: Luminus Bacteria; Fish Egg: Daphne; Alage; 39. Sulphate		-	1000 mL	Amber Glass;washed with nitric acid;	
		4	100 mL		Wilhout adding acid
40. Chloride			100 mL		Store sample at 2-8"C
41. Conductivity			100 mL		
42. Dissolved oxygen (I	(00		N.A.		2. And the state of the stat
43. Total Chlorine			N.A.	measuri	e in Reld
44. Cihers:	je – Statione	1			
Observation/ Remark:					
2. The minimum sampli 3. Scope of 2DHC guid Scope of synthetic le Scope of MMCF: Par Free primary aromati	sline: Parameter 1-9, 12, 14-2 ather industry: Parameter 1-9, ameter 5, 18, 20, 22-24, 26-26 c amine, pesticides, nitrosami 00019-STIP01, loactions with	0, 31-37, 39-43 12, 14-24, 26-21 9, 31, 35-38 ne and formaide those CPSD les cireatment of sul	9, 31-33, 35, 36, 3 hyde are not in the t capability inside fide if only dissolve	a scope of ZDHC Guidline, they are tested upon a TCD matrix can perform the combined test. ad sulfide is required to be tested.	
5. Refer to CPSD-AN-0	10613-MTHD for preparation of	field blank for s	pecino parameters		
5. Refer to CPSD-AN-0	0613-MTHD for preparation of	_			23.07.22
5. Refer to CPSD-AN-0 8. Refer to CPSD-AN-(_			23.07.22
5. Refer to CPSO-AN-0 8. Refer to CPSD-AN-C Recorded by: Comment from factory Accessivedopment by fe	ROB 13-MTHD for preparation of Full name: M. J. A. A. Eulory Bureau Verilas has completed	the stated same	Sain . Dilng sctivity at cap ed by Bureau Vari	Date: ntioned date, time and focation. All sample(a) is/a tas is/are stored in portable freezer / fridge that is	re collected in desinated I maintained in 1-5°C
5. Refer to CPSO-AN-0 8. Refer to CPSD-AN-C Recorded by: Comment from factory Accessivedopment by fe	Rel 13-MTHD for preparation of Full name: M. J. Ag Full name: M. J. Ag Relogy Bureau Verilas has completed tany observation in leakage. §	the stated same	Sain . Dilng sctivity at cap ed by Bureau Vari	Date: otioned date, time and focation. All sample(s) is/a tas is/are stored in portable freezer / fridge that is	re collected in desinated

APPENDIX D – Limitation Value of Legal Requirements

Not Applicable

END