

# TEST REPORT

**Technical Report:** (6822)062-0328 March 16, 2022

Date Received: March 02, 2022 Page 1 of 22

Factory Company Name: Square Denims Limited

Factory Address: Olipur, Shayestaganj, Habiganj, 3300, Bangladesh.

Not Applicable

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 02, 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

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:

Category:

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

I001) Black / blue color liquid - Raw Wastewater I002) Brownish color liquid - Treated Wastewater

March 03, 2022 To March 16, 2022

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 <a href="http://www.bursauveritas.com/inome/about-us/our-business/sps/about-us/stems-conditions/sind">http://www.bursauveritas.com/inome/about-us/our-business/sps/about-us/stems-conditions/sind</a> is 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 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 request for accredited 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 specifically 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.

**BUREAU VERITAS**CONSUMER PRODUCTS SERVICES (BANGLADESH) LTD.

MD. RASHEDUL HAQUE MANAGER, RSL OPERATIONS

<sup>\*</sup> The sampling is agreed with client.



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## **Executive Summary**

1A) Conventional Parameters	I001	1002
Temperature		
TSS		
COD		
Total-N		
pH Value		
Color [m <sup>-1</sup> ] (436nm; 525nm; 620nm)		
BOD <sub>5</sub>		
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	1002
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	34.4 (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	46 (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	96 (Foundational)	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	19.5 (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	20.8
pH value of sample	-	8.2 (Comply with ZDHC WWG requirements)
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: 2011(E), B

Tested Item(s)	Result	Unit	Conclusion
I002	6.6; 4.4; 2.8 (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 (BOD<sub>5</sub>)

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

Tested Item(s)	Result	Unit	Conclusion
I002	24 (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-NH<sub>3</sub> – B & F 22<sup>nd</sup> Edition 2012

Ī	Tested Item(s)	Result	Unit	Conclusion
Ī	I002	0.47 (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 22<sup>nd</sup> Edition -4500-P.E (2012)

ĺ	Tested Item(s)	Result	Unit	Conclusion
	I002	1.45 (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

ĺ	Tested Item(s)	Result	Unit	Conclusion
	I002	0.72 (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	2.2 (Foundational)	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	<1	Bacteria /	DATA
I002	(Aspirational)	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 22<sup>nd</sup> 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 N

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-S<sup>2</sup>-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<sub>3</sub><sup>2-</sup> (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)	. 3	
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;	0.002	0.011
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	· 1 /	
Copper( Cu )		
Foundational Limit: 1 mg/L;	0.020	0.016
Progressive Limit: 0.5 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.25 mg/L	,	, ,
Nickel (Ni)		
Foundational Limit:.0.2 mg/L;	ND	ND
Progressive Limit: 0.1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.05 mg/L	( "r ,	( "F ,
Silver (Ag)		
Foundational Limit: 0.1 mg/L;	ND	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.005 mg/L	( "r ,	( "F ,
Zinc(Zn)		
Foundational Limit: 5 mg/L;	0.001	0.115
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	0.006
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° 22' 59.88"; E 91° 25' 0.12")



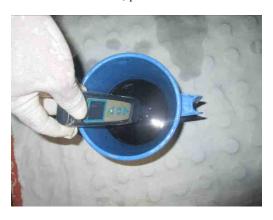
I001) Sampling Point Surrounding Environment (GPS Location: N 24° 22' 59.88"; E 91° 25' 0.12")



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° 22' 59.88"; E 91° 25' 0.12")



I002) Sampling Point Surrounding Environment (GPS Location: N 24° 22' 59.88"; E 91° 25' 0.12")



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	AI LO 1-16
	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	1
	2-Naphthylamine	91-59-8	0.1	0.2	1
	3,3`-Dichlorobenzidine	91-94-1	0.1	0.2	1
	4-Aminodiphenyl	92-67-1	0.1	0.2	1
	Benzidine	92-87-5	0.1	0.2	1
	o-Toluidine	95-53-4	0.1	0.2	1
	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	1
	5-nitro-o-toluidine	99-55-8	0.1	0.2	1
	C.I. Direct Black 38	1937-37-7	500	10	
2E. Dyes-	C.I. Direct Blue 6	2602-46-2	500	10	1
Carcionogenic or	C.I. Acid Red 26	3761-53-3	500	10	Liquid Extraction
Equivalent Concern	C.I. Acid Red 20 C.I. Basic Red 9	569-61-9	500	10	LC/MS
Equivalent Concern	C.I. Direct Red 28	573-58-0	500	10	



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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	
2E D 1'	Disperse Red 11	2872-48-2	50	2	
2F. Dyes-disperse	Disperse Red 1	2872-52-8	50	2	
(sensitizing)	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	
	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	1	
	2-ethoxyethyl acetate	111-15-9	50	10	1	
OH Chuada	Ethylene glycol dimethyl ether	110-71-4	50	10	US EPA 8270	
2H. Glycols	2-methoxyethanol	109-86-4	50	10	Liquid Extraction LC/MS	
	2-methoxyethylacetate	110-49-6	50	10	LC/IVIS	
	2-methoxypropylacetate	70657-70-4	50	10		
	Triethylene glycol dimethyl ether	112-49-2	50	10		
	1,2-Dichloroethane	107-06-2	1	2	TIGED   00 top	
2I. Halogenated	Methylene Chloride	75-09-2	1	2	USEPA 8260B	
Solvents		79-01-6	1	2	Headspace GC/MS or	
		127-18-4	1	2	Purgeand-Trap-GC/MS	
	Mono-, di- and tri-	Multiple	0.01	0.2		
2J. Organotin	Mono-, di- and tri-butyltin	Multiple	0.01	0.2	ISO 17353	
Compounds	Mono-, di- and tri-phenyltin	Multiple	0.01	0.2	Derivatisation with NaB(C2H5) GC/MS	
	Mono-, di- and tri-octyltin	Multiple	0.01	0.2	-	
	Perfluorooctanesulfonic	1763-23-1	0.01	0.10	DIN 38407-42	
	Perfluoro-n-octanoic acid	335-67-1	0.01	0.10	(modified) Ionic PFC:	
2K. Perfluorinated and Polyfluorinated	Perfluorobutanesulfonic	29420-49-3, 29420-43-3	0.01	0.10	Concentration or direct injection, LC/MS(-MS);	
Chemicals (PFCs)	Perfluoro-n-hexanoic acid	307-24-4	0.01	0.10	Non-ionic PFC (FTOH): derivatisation	
		678-39-7	1	1	with acetic anhydride,	
		647-42-7	1	1	followed by GC/MS	
	Di-2-ethylhexyl phthalate	117-81-7	10	2		
	Dimethoxyethyl phthalate	117-82-8	10	2	1	
	Di-n-octyl phthalate	117-84-0	10	2	1	
2L. Phthalates	Ints  Ints	26761-40-0	10	2	US EPA 8270D, ISO	
(including all other esthers of phthalic		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	1	
	Butyl benzyl phthalate (BBP)	85-68-7	10	2	1	
	Dinonyl phthalate (DNP)	84-76-4	10	2	1	
	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-benzenedicarboxyl 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	
(PaHs)	Benzo[k]fluoranthene	207-08-9	1	0.2	
(1 4115)	Acenaphthylene	208-96-8	1	0.2	00,1112
	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	DIN 38407-39 Solvent extraction GC/MS  ISO 11423-1 Headspace- or Purgeand-Trap-GC/MS
	Naphthalene	91-20-3	1	0.2	
	Benzene	71-43-2	1	2	
2N. Volatile	Xylene	1330-20-7	1	2	•
Organic Compound	o-cresol	95-48-7	1	2	
(VOCs)	p-cresol	106-44-5	1	_	and-frap-GC/MS
	m-cresol	108-39-4	1	2	
	Temperature	<del>-</del>	N/A	N/A	Apply the standard
	TSS COD	<del>-</del>	N/A N/A	N/A N/A	methods that best apply
	Total-N	<del>-</del>	N/A N/A	N/A N/A	to the region (ISO, EU,
	pH	<del>-</del>	N/A N/A	N/A N/A	US, China), please refer to ZDHC Wastewater
1A. Conventional	Color [m <sup>-1</sup> ] (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).
	Oil and Grease	_	N/A	N/A	
	Phenol	=	N/A	N/A	Cyanide: With
	Coliform(bacteria/100ml)	1_	N/A	N/A	reference to APHA



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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)062-0328] 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

(27)	F	TELD DATA F		N ZERO DIS				Issue Date	s			
IVA dibates i		(COM	JOITE / IN	DIVIDUAL	MINITLING)		名の文の文の					
General Data Laboratory Sample Nu	mber		1	682	2/06.	2-0	328					
Client Name	muer	_	- 1		/				-			
Field Contact Person		Franc 1		1 T. L.	Disease May 1	mer I I						
Project (Facility Name	and Address)	C 37. 1	Lare	Nontra	I braile	1811-90	18070	·	<u> </u>			
Sampling Location / De		ETP=Fol		oe nim	LIMITE	4						
Sample Identification				an	741							
Sample Type		Zero discharge with sampling plan  Composite Sample / Grab sample (Please delete as appropriate)										
Name of Sampler			MD · Asa d Hosaun									
Discharge mode					liver, Sea, Stream	. j OR Increct dis	charge to sewage	treatment plant	_			
Date of collection.			03. 20		A			Control of the contro	_			
Factory Type				nishing / Others (	please specify):							
			salected more tha						_			
Field Data for Wastey	vater											
Arrival Time.		14:00		Departure Time								
The state of the s	4	pH: 10 - 0	).	Temp 44	7 °c	Color: Bla	eick	Flow rate :	(volume/min)			
Cantrol No. of field equ												
Factory with effluent tre	eatment plant	- L		es				Vo				
		1	Incoming water									
Sample matrix:		Wastewater before treatment  Wastewater after treatment – water at discharge point										
	P0:	10						Issue Date: Version No.: 15 Business Line: Analytica  Preservation method  Without adding acid				
Sampler container num	per	12	12	12_	12	12	1					
	T In	9	2	3	4	5	6	7	8			
Recording time	Time	19.15	15:15	1000	17.11	10-10-	10:15					
eH.	Time		0 4	9.9	17:15	18:15						
pH : Temp (°C) :		44.7	45.0	44.6	49.8	40.0	1					
Color (visual estimation	1	Black	Black	Buck	Black	Black						
Flow rate (volume/time)		100	110	100	114	何(10						
Volume collected, ml.		12×167	12×167		12×167	12/167	1					
Total volume collected		12024						l				
2003/02/02/09 20 10	0/2   0/1/2   0/2		150000	ALL CONTRACTOR OF THE PROPERTY	A STATE OF STREET							
CO Symulogica	d Preservation Method MRSL Parameters)	Test required (v)	Total of sample size		ype of contains	ar .	Pr	eservation me	thod			
	1. Phthalate	-										
Combined test	2. Chlorobenzenes,	L	1000 mL total									
or Individual test	Chlorotoluene & PAH 3 SCCPs	1	or 1000 mL each									
(Remark 4)	10.550000		roov inc each									
- 500000000	4. APS											
5. APEOs			100 mL									
5 Chlorophenois & Cre	sols		100 mL									
7. Flame retardant		~	500 mL				in the second	**************************************				
B. Dyes		V	10 mL	Amber G	ass washed with r	nitric acid,						
9. Glycal		~	50 mL									
0 *Pesticides		X	1000 mL									
11 "Nitrosamine		1	10 mL									
2 Banned Azodyes		1	2000 mL									
13 *Free primary arom	atio aminas	~							1			
16.1 (8)		1	500 mL									
14 Organotin Compour		1	500 mL			ğ.						
	Solvents (Remark 6)	~	10 mL	l.			Fill to full contains	r without air gap;	acidity to pH 2 with			
15. VOC & Halegenates					washed with pesti		110010	to night manifold a	34 K+D (A			



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## FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)

CPSD-AN-00613-DA	TA 04
Issue Date:	
Version No.: 16	
Business Line: And	lutical

Tests (Conve	ntional Parameters)	Test required (V)	Total of sample size	Type of container	Preservation method	
Combined test or	17 Total suspened solids (TSS)	1	2000 mL total			
Individual test (Remark 4)	18 Total dissolved solids (TDS)		or 2000 mL each	Amber Glass, washed with nitric acid.	Without adding acid	
19 5-day Biochemical (	Dxygen Demand (BOD5)		1000 mL	Printer Suiss, Washed With (Init) 85-6.	Store sample at 2-8°C	
20 Colour		1	100 mL	9 mL PE, washed with nitric acid 500 mL Amber Glass, washed with pesticide grade acetone 95 mL 150 mL		
21. Heavy Metals excep 6)	ot Cr(VI) & Total-P (Remark	-	9 mL	PE, washed with nitric scid	Acidity to pH 2 with HNO <sub>2</sub> and store at 2-8°C	
22. Cyanide			500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.95 mt of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>2</sub> , and store sample at 2-8°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 ammonium buffer. Store sample at 2-8°C	
Chemical oxygen demand (COD)     Phemots		1	150 mL		Acidify to pH 2 with H <sub>2</sub> SQ, Store sample at 2-8°C	
			500 mL	Amber Glass, washed with nitric acid		
26. Cil.and Grease & Ti	and Grease & Total Hydrocarbon		1000 mL	9		
27 *Formaldehyde			25 mL	5	Fill to full container without air gap, acidify to pH 2 w H <sub>2</sub> SO <sub>4</sub> and store sample at 2-8°C	
28. Sulfide (Remark 5)			50 mL	PE, washed with posticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2 zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C	
9. Total Coliform (Remark 6)			125 mL	PE, clean, sterile,	Add 0.1 mt of 10% Na2s2Os keep in dark	
30.E coli (Remark 6)			125 mL	non-reactive	Store sample at 2-8°C	
31. Persistent foam			N.A	Foam higher than 45 cm (visu	usl estimation):Yes_ / No	
32 Sulfite			100 mL	Amber Glass, washed with pesticide grade scelore	Add 1mL of 2.5% EDTA Store sample at 2-8°C	
33: Total-N			100 mL		Acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub>	
34 Ammonium-N			500 mL		Store sample at 2-8°C	
35. Adsorbable organic	ally bound halogens (AOX)		100 mL		Acidify to pH 2 with HNO <sub>3</sub> and store at 2-8°C	
36. Acute aquatic toxicii Luminus Bacteria, Fish			1000 mL	Amber Glass washed with ritric acid;		
37 Sulphate			100 mL		Without adding acid Store sample at 2-8°C	
38. Chloride			100 mL			
39 Others						

#### 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 synthetic 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, nitrosamine and formaldehyde are not in the scope of ZDHC Guidline, they are tested upon request

- 4. Refer to CPSD-AN-G00019-STIP01, loadions 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 Hoscu'n

Date: 02.03.2022

Comment from factory

Acknowledgement by factor

I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in desinated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas, is/are stored in portable freezer / fridge that is maintained in 1-6°C

Signatory of Factory Representative:

CPSD-AN-D0613-DATA 04-FIELD DATA RECORD ZDHC SAMPLING-V16.xlsx

Date 02-03/22

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## FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE

CPSD-AN-00	613-DATA 04
Issue Date:	
Version No.:	: 16
Ducinege I I	not Applytical

100 de 10		(COM	DIVIDUAL S			Version No. Business L	: 16 ine: Analytical				
General Data			(1	C-22-1	al 2						
Laboratory Sample Nu	mber		16	814	662.	-031	5				
Chent Name									T.		
Field Contact Person		Brigg. Ko	mrul I	lean	Phone No. (	7711-40	8373		7. 		
Project (Facility Name	and Address):	Source	ce De	rims U	rd ( ol	ipion, st	wa hii has	ear, sh	ay estrigan		
Sampling Location / De	escription	E	T.P=1	Jutlet				Habige	my , sempla		
Sample Identification		Zero discharge	with sampling pla	ın				V	4		
Sample Type:		Composite San	ple / Grab sampl								
Name of Sampler:			MD. A	tsad hi	scun.						
Discharge mode:						) OR Indirect disc		treatment plant	29		
Date of collection:		1-	2.03			oult com	الاعا				
Factory Type:			g / Washing / Fire selected more the		please specify):				2		
Field Data for Wastey	vater		N.					TATA	foom		
Arrival Time		14.0	Ó	Departure Time				Live			
Field Parameters		pH 7 <	1	Temp: 34.	"c	color: By	ownsh	Flow rate :	(valume/min)		
Control No. of field equ	ipment						110-70		-		
Factory with effluent fre	eatment plant.	W	_ Y	es			٨	No.			
			Incoming water	(If required)		VAII			9		
Sample matrix			Wastewater bet	ore treatment		- 2					
1		1	Wastewater after	er freatmeint – wa	iter at discharge	paint					
Sampler container num	iber	29	24	24 29		29	24				
		1	2	3	4	5	6	7	8		
Recording time	ai										
	Time	14:15	15:15	16:15	17:15	18:12	19:15				
pH		7.4	7.5	7.9	7.6	7.4	7.2				
Temp (°C)		39.1	39-9	39.4	34.7	34.2	34.6				
Color (visual estimation	n):	Brownst	Brown sh	Brownsh	Brownsh	Brownsh	The state of the s				
Flow rate (volume/time	)	10.1	100	117	109	110	90				
Volume collected, mL		24×167	24×167	29×167	29×16	242147	29×167				
Total volume collected		24048	Remark: Total V	olume collected	must be greater	than total of samp	ele size required				
Analysis Required an	d Preservation Method										
	MRSL Parameters)	Test required		. 8	Type of contain	or	Pr	eservation met	thod		
		(4)	sample size		Type of outlian			Cross ration megica			
	1 Phinalate								_ 1		
Combined test or	<ol> <li>Chlorobenzenes,</li> <li>Chlorotoluene &amp; PAH</li> </ol>		1000 mL total								
Individual test (Remark 4)	3 SCCPs		or 1000 mL each								
Translight at	4 APS										
5. APEOs	116 CM 1967	-									
			100 mL								
6. Chlorophenois & Crescis			100 mL								
6. Chlorophanois & Cre			2555 V					Williams adding a	cid		
		1	500 mL						hout adding acid sample at 2-8°C		
7. Flame retardant			10 mL	Amber G	Glass,washed with	nitric acid,					
7 Flame retarcant 8 Dyes				Amber G	lass,washed with	nitric acid,					
7 Flame retarcant 8 Dyes		×	10 mL	Amber G	lass,washed with	nitric acid,					
7. Fiame retarcant 8. Dyes 9. Glycol		X	10 mL 50 mL	Amber G	Hass,washed with	nitric acid,					
7. Flame retardant 8. Dyes 9. Glycol 10. *Pesticides		X X X	10 mL 50 mL 1000 mL	Amber G	lass,washed with	nitric acid,					
7. Flame retardant 8. Dyes 9. Glycol 10. *Pesticides 11. *Nitrosamine	natic amines	XXX	10 mL 50 mL 1000 mL 10 mL	Amber G	Hass, washed with	nitric acid.					
7. Flame retardant 8. Dyes 9. Glycol 10. "Posticides 11. "Nitrosamine 12. Banned Azodyes	5.000	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10 mL 50 mL 1000 mL 10 mL 2000 mL	Amber G	blass,washed with	nitric acid.					
7. Flame retardant 8. Dyes 9. Glycol 10. "Pesticides 11. "Nitrosamine 12. Banned Azodyes 13. "Free primary arom 14. Organotin Compou	5.000	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10 mL 50 mL 1000 mL 10 mL 2000 mL 500 mL	Amber G	ifass,washed with	nknc acid.	Fill to full contains	tore sample at 2-	erc		



(6822)062-0328

March 16, 2022

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## FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)

GPSD-AN-00	0613-DATA 04
Issue Date:	
Version No.:	16
Business Li	ne: Analytical

Tests (Conve	ntional Parameters)	Test required (V)	Total of sample size	Type of container	Preservation method
Combined test or	17. Total suspened solids (TSS)	~	2000 mL total		
Individual test (Remark 4)	18. Total dissolved solids (TDS)	X	2000 mL each	Amber Glass, washed with nitric acid,	Without adding acid
19 5-day Biochemical (	Oxygen Demand (BOD5)	~	1000 mL	Anies Chas, Assista Will have deter	Store sample at 2-81C
20 Colour		V	100 mL		
21 Heavy Metals exces 6)	t Cr(VI) & Total-P (Remark	-	9 mL	PE, washed with nitric ocid	Acidify to pH 2 with HNO <sub>3</sub> 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 mi of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , and store sample at 2-8°C
23. Cr(VI) 24. Chemical oxygen demand (COD) 25. Phenols 26. Oil and Gresse & Total-Hydroesrbon 27. *Formaldehyde		/	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
			150 mL		
			500 mt,	Amber Glass; washed with nitro acid	Acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub> Store annuple at 2-8°C
		-	1000 mL		
		×	25 mL		Fill to full container without air gap; acidify to pH 2 with H <sub>2</sub> SO, 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 21 zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8*C
29. Total Coliforn (Remark 6)		-	125 mL	PE, clean, sterile	Add 0.1 ml of 10% Na2 <sub>6</sub> 2O <sub>3</sub> keep in dark
30 E.coli (Remerk 6)		X	125 mL	non-reactive	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 Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA Store sample at 2-8°C
33 Total-N		~	100 mL		Acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub>
34 Ammonium-N			500 mL		Store sample at 2-5°C
35. Adsorbable organica	ally bound halogens (AOX)		100 mL		Acidity to pH 2 with HNO <sub>3</sub> and store at 2-8°C
35 Acute aquatic toxicit Luminus Bacteria: Fish		X	1000 mL	Amber Glass; washed with nitric acid;	
37. Sulphate		1	100 mL		Without adding sold Store sample at 2-8°C
38 Chloride			100 mL		

1	Re	m	m	K8	

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 ZOHC guideline. Parameter 1-9, 12, 14-17, 19-26, 28, 29, 31-35

Scope of synthetic 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, positicides, nitrosamine and formaldehyde are not in the scope of ZDHC Guidline, they are tested upon request.

4 Refer to CPS0-AN-G00019-STIP01, loactions with those CPS0 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.

Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters

02.03.22

Recorded by

Full name Md. Aza dheseun.

Comment from factory

Acknowledgement by factor

I hereby confirmed that Bureau Ventas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in desinated container(s) and without any observation in leakage. Sample(s) collected by Bureau, Ventas is/are proved in portable feaver (filled that is exceeded as 1.5.0).

Signatory of Factory Representative

CPSD-AN-00513-DATA 04-FIELD DATA RECORD ZDHC SAMPLING-V16 xlsk

Date: 62 03 22

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APPENDIX D – Limitation Value of Legal Requirements

Not Applicable