

TEST REPORT

Technical Report May 6th, 2022 (7222)096-0078

April 15th, 2022 Date Received Page 1 of 26

BOSSA TAS Factory Company Name:

Factory Address: ADANA HACI SABANCI ORGANIZE SANAYI BOLGESI 1410 SARICAM-

ADANA/TURKEY

Project No.: N/A Client Reference No.: N/A

Sampling Method: I001) Incoming water - Grab

> I002) Raw Wastewater - 6 hours - Time - weighted Composite I003) Treated Wastewater - 6 hours - Time - weighted Composite

Sample Pick Up Date: April 14th,2022 Wastewater Discharge to: Centralized ETP

On-Site Effluent Treatment

Plant (ETP): Discharge Type: Indirect Discharge

Off-site ETP name (if

Adana Haci Sabanci Organized Industrial Zone applicable):

Off-site ETP address (if applicable):

Adana Haci Sabanci Organize Sanayi Bolgesi Bolge Mudurlugu Binası OSB Cukurova

Tablo 25: Atiksularin Atiksu Altyapi Tesislerine Desarjinda Ongorulen Atiksu

Caddesi No:4 (Ceyhan Yolu Uzeri 25 Km) Saricam - Adana

Local Regulation: / Ordinance /

requirements related to wastewater discharged are

followed:

Permit Validation Date: 21/02/2023

Parameters Exceeded Local

Regulation

Legal compliance:

Conventional Parameters

Overall Category:

Not comply

Standartlari (See Appendix D)

1A)Conventional Parameters (TSS)

Not comply with discharge license criteria

Test Period: April 15th,2022- May 5th,2022

Sample Description:

I001) Colorless liquid – Incoming water I002) Black liquid- Raw Wastewater I003) Black liquid – Treated Wastewater

Parameters exceeded maximum

holding time:

N/A

Bureau Veritas Consumer Products Services, Inc. Yalçın Koreş Caddesi No:22 Erdinç Binaları A Blok 2. Kule 1. Kat 34209 Güneşli, İstanbul / Turkey Tel:+90.212.494 35 35 Fax:+90.212.494 35 60 email:info.turkey@bvcps.com.tr website: www.bureauveritas.com/cps

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REMARK1: Analysis of Table-1A conventional parameters, except pH, temperature, heavy metals, coliform have subcontracted to local accredited laboratories. (Accreditation number no: AB-0363-T AB-0012-T AB-0241-T)

REMARK2: Please refer to discharge criteria of the offsite ETP attached at the end of this report.

REMARK

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

General enquiry and invoicing Kerem Can Kerem.can@bureauveritas.com

Technical enquiry-Chemical Ayca Cevikus <u>Ayca.cevikus@bureauveritas.com</u>

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.

Ayca Cevikus Regional Manager-Turkey, Middle East

PREPARED BY: &Africa ZDHC- Higg FEM-

Chemical Discharge Monitoring Kerem Can

Deputy General Manager & Operation Manager

Jane J.



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Executive Summary

1A) Conventional	I001	1002	1003
Temperature			
TSS			•
COD			
Total-N			N/A
pH Value			
Color [m ⁻¹] (436nm;			N/A
BOD ₅			N/A
Ammonium-N		NR	N/A
Total-P	NR		N/A
AOX			N/A
Oil and Grease			
Phenol			
Coliform			N/A
Persistent Foam			N/A
ANIONS - Cyanide			
ANIONS - Sulfide			
ANIONS - Sulfite			N/A
1B) Conventional Parameters – METALS	N/A	N/A	

Note / Key:

- □ Meet discharge license criteria
- ■ Exceeding discharge license criteria
- NR Not Requested / Not required
- N/A Not Applicable

ZDHC MRSL Substances	1001	1002	1003
2A) APs and APEOs	NR	О	О
2B) Chlorobenzenes and Chlorotoluenes	NR	0	О
2C) Chlorophenols	NR	О	О
2D) Azo Dyes	NR	0	О
2E) Carcinogenic Dyes	NR	О	О
2F) Disperse Dyes	NR	О	О
2G) Flame Retardants	NR	О	О
2H) Glycols	NR	О	О
2I) Halogenated Solvents	NR	0	О
2J) Organotin Compounds	NR	О	О
2K) Perfluorinated and Polyfluorinated	NR	0	О
2L) Phthalates	NR	0	О
2M) Poly Aromatic Hydrocarbons	NR	0	О
2N) Volatile Organic Compounds	NR	О	О

Note / Key:

- ● Detected
- o-Not Detected
- $\hbox{-} \quad NR-Not\ Requested$
- 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, three environment samples were sampled per factory, including 1) Incoming water; 2) Raw Wastewater and 3) 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 is with reference to below standards:
 - 1) South Australia EPA Guidelines (June 2007), Regulatory Monitoring and Testing Water and Wastewater Sampling.
 - 2) Australia EPA (Victoria) Guideline (June 2009), Sampling and Analysis of Waters, Wastewaters, Soils and Wastes.
 - 3) ISO 5667-3:2003, Water Quality Sampling Part 3: Guidance on the Preservation and Handling of Water Samples.
 - 4) ASTM D3976-92 (Reapproved 2010), Standard Practice for Preparation of Sediment Samples for Chemical Analysis.
- Field data records are attached in Appendix C.



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Test Result

1A) Conventional Parameters

Temperature

Test Method: Measurement by U. S. EPA170.1

Tested Item(s)	Result	Unit	Conclusion
1003	▲11.9 / max. 35 °C (Comply with discharge license)	deg. C	DATA

Note:

deg. C = degree Celsius (°C)

Discharge License Criteria: 40°C

Total Suspended Solids (TSS)

Test Method: Reference to APHA 2540 D

Tested Item(s)	Result	Unit	Conclusion
1003	650 (Not comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 500 mg/L

Chemical Oxygen Demand (COD)

Test Method : Reference to APHA 5220 D

Tested Item(s)	Result	Unit	Conclusion
I003	2256.5 (Comply with discharge license)	mg/L	DATA

Note:

 $mg/L = milligram \ per \ liter$

Discharge License Criteria: 4000 mg/L

Total Nitrogen (Total-N)

Test Method: Reference to APHA 4500-Norg:B, SM 4500-NO3:E

Tested Item(s)	Result	Unit	Conclusion
I003	46.86	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not applicable



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pH Value

Test Method: Reference to U. S. EPA 150.1

-	Unit	Result
Test Item(s)	-	I003
Parameter	-	-
Temp. of sample	deg. C	25
pH value of sample	-	9.97 (Comply with discharge license)
Conclusion	-	DATA

Note:

Temp. = Temperature deg. C = degree Celsius (°C)

Discharge License Criteria: 6.5-10

Color [m⁻¹] (436nm; 525nm; 620nm)

Test Method: With reference to ISO 7887-B

Tested Item(s)	Result	Unit	Conclusion
I003	34.2;34.1;39.3	m ⁻¹	DATA

Note:

Discharge License Criteria: Not Applicable

Biochemical Oxygen Demand (BOD₅)

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

Tested Item(s)	Result	Unit	Conclusion
I003	836	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not applicable

Ammonium Nitrogen

Test Method: Reference to APHA 4500 NH₃ B,F

Tested Item(s)	Result	Unit	Conclusion
I003	2.18	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable



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Total Phosphorus (Total-P)

Test Method : Reference to APHA 4500-P B,C

Tested Item(s)	Result	Unit	Conclusion
I003	18.61	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not applicable

Adsorbable Organic Halogens (AOX)

Test Method : Reference to ISO 9562

Tested Item(s)	Result	Unit	Conclusion
I003	2.78	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

Oil and Grease

Test Method : Reference to ISO 9377-2

Tested Item(s)	Result	Unit	Conclusion
I003	0.94 (Comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 250 mg/L

Phenol

Test Method: Reference to APHA 5530 B, D

Tested Item(s)	Result	Unit	Conclusion
I003	< 0.1 (Comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 20 mg/L



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Coliform

Test Method : Reference to ISO 9308-1

Tested Item(s)	Result	Unit	Conclusion
I003	8000	bacteria/ 100 mL	DATA

Note:

bacteria/100 mL = bacteria per 100 milliliters Discharge License Criteria: Not Applicable

Remark: Due to the colonies is huge, result of coliform content is base on sample having dilution factor 100 times

Persistent Foam

Test Method : Visual

Tested Item(s)	Result	Unit	Conclusion
I003	No foam	-	DATA

Discharge License Criteria: Not Applicable

ANIONS - Cyanide

Test Method : Reference to APHA 4500-CN C/ APHA 4500-CN E

Tested Item(s)	Result	Unit	Conclusion
I003	< 0.01 (Comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 10 mg/L

ANIONS - Sulfide

Test Method : Reference to APHA 4500 S²—D

Tested Item(s)	Result	Unit	Conclusion
I003	0.14 (Comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 2 mg/L

ANIONS - Sulfite

Test Method: Reference to SM 4500-SO3-2 C

Tested Item(s)	Result	Unit	Conclusion
I003	0.9	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable



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1B) Conventional Parameters – METALS

Heavy Metals	I001 (mg/L)	I002 (mg/L)	I003 (mg/L)
Antimony(Sb)			
Discharge License Criteria: Not applicable	ND	0.0181	0.0787
Chromium(Cr), total Discharge License Criteria: 5 mg/L	0.0021	0.0159	0.0173 (Comply with discharge license)
Cobalt(Co) Discharge License Criteria: Not applicable	ND	ND	ND
Copper(Cu) Discharge License Criteria: 2 mg/L	ND	0.2753	0.0235 (Comply with discharge license)
Nickel (Ni) Discharge License Criteria: 5 mg/L	0.0026	0.0165	0.0224 (Comply with discharge license)
Silver (Ag) Discharge License Criteria: 5 mg/L	ND	ND	ND (Comply with discharge license)
Zinc(Zn) Discharge License Criteria: 10 mg/L	0.0495	0.2398	0.2011 (Comply with discharge license)
Arsenic (As) Discharge License Criteria: 3 mg/L	ND	ND	0.0014 (Comply with discharge license)
Cadmium(Cd) Discharge License Criteria: 2 mg/L	ND	ND	ND (Comply with discharge license)
Chromium VI(CrVI) Discharge License Criteria: Not applicable	ND	ND	ND
Lead(Pb) Discharge License Criteria: 3 mg/L	ND	0.0027	0.0021 (Comply with discharge license)
Mercury (Hg) Discharge License Criteria: 0.2 mg/L	ND	ND	ND (Comply with discharge license)



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Others Priority Chemical Groups

	I001 (ug/L)	I002 (ug/L)	I003 (ug/L)
2A) APs and APEOs	NR	ND	ND
2B) Chlorobenzenes and Chlorotoluenes	NR	ND	ND
2C) Chlorophenols	NR	ND	ND
2D) Azo Dyes	NR	ND	ND
2E) Carcinogenic Dyes	NR	ND	ND
2F) Disperse Dyes	NR	ND	ND
2G) Flame Retardants	NR	ND	ND
2H) Glycols	NR	ND	ND
2I) Halogenated Solvents	NR	ND	ND
2J) Organotin Compounds	NR	ND	ND
2K) Perfluorinated and Polyfluorinated Chemicals	NR	ND	ND
2L) Phthalates	NR	ND	ND
2M) Poly Aromatic Hydrocarbons	NR	ND	ND
2N) Volatile Organic Compounds	NR	ND	ND

Remark:

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



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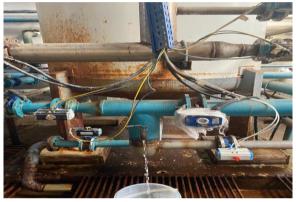
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APPENDIX A - Photo of the Sample/ Sampling Location

I001) Sampling Point N/S 36° 58′ 25.44″ E/W 35° 35′ 38.16″



I001) Sampling Point Surrounding Environment N/S 36° 58′ 25.44″ E/W 35° 35′ 38.16″



I001) All sampled bottles with label



I001) pH value



I001) Sample for Phthalate Testing



I001) Packaging





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I002) Sampling Point N/S 36° 58′ 25.44″ E/W 35° 35′ 38.16″



I002) Sampling Point Surrounding Environment N/S 36° 58′ 25.44″ E/W 35° 35′ 38.16″



I002) All sampled bottles with label



I002) pH value



I002) Sample for Phthalate Testing



I002) Packaging





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I003) Sampling Point N/S 36° 58′ 25.44″ E/W 35° 35′ 38.16″



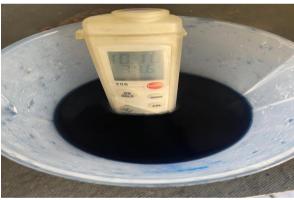
I003) Sampling Point Surrounding Environment N/S 36° 58′ 25.44″ E/W 35° 35′ 38.16″



I003) All sampled bottles with label



I003) pH value



I003) Sample for Phthalate Testing



I003) Packaging





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APPENDIX B

			Repor	t Limit		
	ubstance (Testing arameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method	
	onylphenol NP, mixed omers	Various (incl. 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3)	5	0.4	NP/OP: ISO 18857-2 (modified dichloromethane	
(AP) and iso	ctylphenol OP, mixed omers	Various (incl. 140-66-9, 1806-26-4, 27193-28-8)	5	0.4	extraction) or ASTM D7065 (GC/MS or LC/MS(-MS)	
	ctylphenol ethoxylates DPEO)	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	
	onylphenol 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	
M	lonochlorobenzene	108-90-7	0.2	0.2		
	2-Dichlorobenzene	95-50-1	0.2	0.2		
	3-Dichlorobenzene	541-73-1	0.2	0.2		
I	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		
	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		
	2,4,5-Tetrachlorobenzene	95-94-3	0.2	0.2		
Pe	entachlorobenzene	608-93-5	0.2	0.2		
He	exachlorobenzene	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		
	4,5-Trichlorotoluene	6639-30-1	0.2	0.2		
	4,6-Trichlorotoluene	23749-65-7	0.2	0.2		
3,	4,5-Trichlorotoluene	21472-86-6	0.2	0.2		
	3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.2		
	3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2		
	3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2		
	entachlorotoluene	877-11-2	0.2	0.2		
	Chlorophenol	95-57-8	0.5	0.05	USEPA 8270 D	
	Chlorophenol	108-43-0	0.5	0.05	Solvent extraction,	
	Chlorophenol	106-48-9	0.5	0.05	derivatisation with	
Σ,.	3-Dichlorophenol	576-24-9	0.5	0.05	KOH, acetic anhydride	
2.	4-Dichlorophenol	120-83-2	0.5	0.05		
	5-Dichlorophenol	583-78-8	0.5	0.05	followed by GC/MS	



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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
	2,6-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-	101-14-4	0.1	0.2	
	chloro-aniline)				
	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	
	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-	95-80-7	0.1	0.2	
	phenylenediamine				
	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	
1	C.I. Basic Red 9	569-61-9	500	10	
2E. Dyes-	C.I. Direct Red 28	573-58-0	500	10	Liquid Extraction
Carcionogenic or	C.I. Basic Violet 14	632-99-5	500	10	LC/MS
Equivalent Concern	C.I. Disperse Blue 1	2475-45-8	500	10	
	C.I. Disperse Blue 3 C.I. Basic Blue 26 (with	2475-46-9	500	10 10	
	Michler's Ketone > 0.1%) C.I. Basic Green 4	2580-56-5 569-64-2	500	10	
[C.I. Dasic Green 4	307-04-2	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
	(malachite green chloride)				
	C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	10	
	C.I. Basic Green			10	
	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 2	
	Disperse Orange 37/59/76 Disperse Brown 1	13301-61-6 23355-64-8	50	2	
	Disperse Orange 1	2581-69-3	50	2	
	Disperse Yellow 3	2832-40-8	50	2	
	Disperse Red 11	2872-48-2	50	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)
	Hexabromocyclododecane (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 (TDCP)	13674-87-8	5	1	
	Short chain chlorinated paraffins (SCCPs) (C10-C13)	85535-84-8	5	1	
2H. Glycols	Bis(2-methoxyethyl)-ether	111-96-6	50	10	US EPA 8270



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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-ethoxyethanol	110-80-5	50	10	Liquid Extraction
	2-ethoxyethyl acetate	111-15-9	50	10	LC/MS
	Ethylene glycol dimethyl ether	110-71-4	50	10	
	2-methoxyethanol	109-86-4	50	10	
	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	79-01-6	1	2	Purgeand-Trap-GC/MS
	Tetrachloroethylene	127-18-4	1	2	
	Mono-, di- and tri- methyltin derivatives	Multiple	0.01	0.2	
	Mono-, di- and tri-butyltin derivatives	Multiple	0.01	0.2	
	Mono-, di- and tri-phenyltin derivatives	Multiple	0.01	0.2	
	Mono-, di- and tri-octyltin derivatives	Multiple	0.01	0.2	
	Monomethyltin	Multiple	0.01	0.2	
2J. Organotin	Dimethyltin	Multiple	0.01	0.2	ISO 17353
Compounds	Trimethyltin	Multiple	0.01	0.2	Derivatisation with
1	Monobutyltin	Multiple	0.01	0.2	NaB(C2H5) GC/MS
	Dibutyltin	Multiple	0.01	0.2	
	Tributyltin	Multiple	0.01	0.2	
	Monophenyltin	Multiple	0.01	0.2	
	Diphenyltin	Multiple	0.01	0.2	
	Triphenyltin	Multiple	0.01	0.2	
	Monooctyltin	Multiple	0.01	0.2	
	Dioctyltin	Multiple	0.01	0.2	
	Trioctyltin Perfluorooctanesulfonic	Multiple 1763-23-1	0.01	0.2	DIN 29407-42
	acid (PFOS) Perfluoro-n-octanoic acid				DIN 38407-42 (modified)
2K. Perfluorinated	(PFOA) Perfluorobutanesulfonic	335-67-1	0.01	0.10	Ionic PFC: Concentration or direct
and Polyfluorinated Chemicals (PFCs)	acid (PFBS) Perfluoro-n-hexanoic acid	29420-49-3, 29420-43-3	0.01	0.10	injection, LC/MS(-MS); Non-ionic PFC
	(PFHxA)	307-24-4	0.01	0.10	(FTOH): derivatisation with acetic anhydride,
	8:2 FTOH	678-39-7	1	1	followed by GC/MS
	6:2 FTOH	647-42-7	1	1	,
	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	2	
2L. Phthalates	Dimethoxyethyl phthalate (DMEP)	117-82-8			US EPA 8270D, ISO
(including all other esthers of phthalic	Di-n-octyl phthalate (DNOP)	117-84-0	10	2	18856 Dichloromethane
acid)	Di-iso-decyl phthalate (DIDP)	26761-40-0	10	2	extraction GC/MS
	Di-iso-nonyl phthalate (DINP)	28553-12-0	10	2	
	Di-n-hexyl phthalate	84-75-3	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
	(DnHP)				
	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	
	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
(1 4113)	Acenaphthylene	208-96-8	1	0.2	GC/IVIS
	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
	m-cresol	108-39-4	1	2	
	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,
1A. Conventional	Total-N	_	N/A	N/A	US, China), please refer
Parameters	pH Color [m ⁻¹] (436nm;	_	N/A N/A	N/A N/A	to ZDHC Wastewater Guidelines for more
	525nm; 620nm)				details on the testing
	BOD5	_	N/A	N/A	method and the levels



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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
	Ammonium-N	<u> </u>	N/A	N/A	(Foundational,
	Total-P	<u> </u>	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)	_	N/A	N/A	reference to APHA
	Persistent Foam		Not	Not	4500 CN—B,C&E and
	Persistent Foam	1-	visible	visible	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	1
	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,
METALS	Chromium VI(CrVI)	18540-29-9	0.001	2	Progressive, and
	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



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APPENDIX C - Onsite Field Data Record Sheet

(CA)					7,000			CPSD-AN-0	0613-DATA
	F	IELD DATA F						Issue Date:	
EUREAU		(COM	POSITE / IN	DIVIDUAL	SAMPLING	3)		Version No	
YERITAS								Business L	ine: Analytica
General Data									
Laboratory Sample Nun	nber:	72220960078	ı						
Client Name:		BOSSA T.A.Ş							
Field Contact Person:		Neslihan Ateş			Phone No:+9	0 322 3552000			-
Project (Facility Name a	nd Address):	Hacı Sabancı C	Hacı Sabancı Organize Sanayi Bölgesi Acıdere OSB Mah. Celal Bayar Bul. No:3 Sarıçam/Adana						-
Sampling Location / De:	scription:	INCOMING							-
Sample Identification:		Zero discharge	with sampling pla	an					- /
Sample Type:		Grab sample							a i
Name of Sampler:		Ahm	+ 45	las Ri	7				-0
Discharge mode:			to environment (Sp			m) OR Indirect di	scharge to sewage	treatment plant	-
Date of collection:		14,04	2022	,					-
Factory Type:			g / Washing / Fin		please specify):				-0
			selected more tha		•	-			-
Field Data for Wastew	ater								
Arrival Time:				Departure Tim	e:			7	
Field Parameters		pH:		Temp :	°C	Color:		Flow rate :	(volume/min
Control No. of field equip	pment								
Factory with effluent trea	atment plant:		(,	/es				No	
		×	Incoming water	(If required)					
Sample matrix:			Wastewater before treatment						
			Wastewater after	er treatment – w	ater at discharg	e point			
Sampler container numb	per							1	
		1	2	3	4	5	6	7	8
	ID								
Recording time	Time	1400					-		
pH:		8 76			7.100.00.00.00.00	- P. C	1		
Temp (°C) :		17.1					+		
Color (visual estimation)	:	rolaters							
Flow rate (volume/time)									
Volume collected, mL									
Total volume collected			Remark: Total v	rolume collected	must be greate	r than total of sam	ple size required	1	
Analysis Required and		Test required	Total of						
Tests (ZDHC	MRSL Parameters)	(v)	sample size		Type of contai	ner		Preservation met	hod
recelled and the contract of	1. Phthalate	1						training to star	Library Barriera
Combined test	2. Chlorobenzenes,	٧	1000 mL total				COLUMN TO THE REAL PROPERTY.		-
or Individual test	Chlorotoluene & PAH 3. SCCPs		or				d appropria		
(Remark 4)	CONTRACTOR CO.	V	1000 mL each				明年の事にお		
	4. APS	V							
5. APEOs		√	100 mL	1					
5. Chlorophenols & Cres	iols		100 mL				2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		-					Section 1		
7. Flame retardant		√	500 mL					Without adding ac	id
B. Dyes		1	10 mL	Amber Glass,washed with nitric acid, Store sample a		Store sample at 2-8	°C		
9. Glycol	The second second second	V	50 mL	1					
0. *Pesticides			1000 mL	1					
				-					
11. *Nitrosamine			10 mL						
2. Banned Azodyes		1	2000 mL						
3. *Free primary aroma	tic amines		500 mL						
Organotin Compound		V					And the Avenue of Avenue o		
			500 mL				trees and the	277	
5. VOC & Halogenated	Solvents (Remark 6)	1	10 mL				Fill to full contai	iner without air gap; and store sample a	scidify to pH 2 wit 2-8°C
16. PFCs (Remark 6)		1	2 mL	PI	, washed with per	sticide	Finefil	Without adding ac	





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

CPSD-AN-00	0613-DATA 04
Issue Date:	
Version No.:	
Bueinage Li	

-					Business Line: Analytical
Tests (Conven	tional Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	or (TSS) Individual test 18. Total dissolved solids		2000 mL total or 2000 mL each		Without adding acid
19. 5-day Biochemical Oxygen Demand (BOD5)			1000 mL	Amber Glass, washed with nitric acid,	Store sample at 2-8°C
20. Colour			100 mL		DARRICHS RESIDENCE TO
21. Heavy Metals except	Cr(VI) & Total-P (Remark 6)	1	9 mL	PE, washed with nitric acid	Acidify 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)		1	95 mL	13.4	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 oxygen der	mand (COD)		150 mL		South Control
25. Phenois			500 mL	Amber Glass; washed with nitric acid	Acidify to pH 2 with H ₂ SO ₄ Store sample at 2-8°C
26. Oil and Grease & Tol	al Hydrocarbon		1000 mL		
27. *Formaldehyde			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
28. Sulfide (Remark 5)			50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C
29. Total Coliform (Rema	ark 6)		125 mL	PE, clean, sterile,	Add 0.05 ml of 10% Na2 ₃ 2O ₃
30. Faecal Coliform (Ren	nark 6)		125 mL	non-reactive	Store sample at 2-8°C
31. Persistent foam			N.A.	Foam higher than 45 cm (visi	ual estimation):Yes / No
32. Sulfite			100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 2-8°C
33. Total-N			100 mL		
34. Ammonium-N			500 mL	200	Acidify to pH 2 with H ₂ SO ₄ Store sample at 2-8°C
35. Adsorbable organica	lly bound halogens (AOX)		100 mL		
36. Acute aquatic toxicity Luminus Bacteria; Fish E			1000 mL	Amber Glass;washed with nitric acid;	
37. Sulphate			100 mL		Without adding acid Store sample at 2-8°C
38. Chloride			100 mL		
39. Others:					
Observation/ Remark:					

- 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, 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:		Date:	
Full name:	 		
Comment from factory			

Acknowledgement by factory

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

Deniz CIVAN YIGIT Date: 14.04.2022

SOSSA TİÇARET VE SANAYİ İŞLETMELERİ T.A.Ş.



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

CPSD-AN-00613-DATA 04 Issue Date: Version No.: 14 Business Line: Analytical

Laboratori Camala Nive									
Laboratory Sample Num Client Name:	nber:	7222096007	8						_ :
Client Name: Field Contact Person:		BOSSA T.A.Ş							_
		Neslihan Ateş			Phone No:+90				_
Project (Facility Name a			Organize Sanayi I	Bölgesi Acıdere (OSB Mah. Celal B	Bayar Bul. No:3	Sarıçam/Adana		
Sampling Location / Des	scription;	BEFORE TREA							
Sample Identification:			with sampling pl	an					_
Sample Type:		Composite Sar	TANK TO THE PARTY OF THE PARTY	1					
Name of Sampler:		Ahn		Molon	302				
Discharge mode:		4 .			River, Sea, Stream) OR Indirec di	scharge to sewage	treatment plant	_
Date of collection:			04.20%						_
Factory Type:			g / Washing / Fin		olease specify):				
		*Note: It would be	e selected more tha	an one					
Field Data for Wastewa Arrival Time:	iter							_	
Field Parameters		pH:		Departure Time	-				
Control No. of field equip		pH:		Temp :	. ℃	Color:		Flow rate :	(volume/min)
Factory with effluent trea				<u> </u>					
r actory with emiderit trea	urient plant.		_	(es)				No	
Sample matrix:		100	Incoming water						
Cample matrix.		×	Wastewater bet						
Sampler container numb	0.5		Wastewater after	er treatment – wa	ater at discharge	point			
Sampler Container Humb	ei								
		1	2	3	4	5	6	7	8
Recording time	ID Time	A) 11 -	10 11-	20.4					
pH:	Time	11.40	12,40		14,60	95.40	16,40		
		12,20		11172	10,69	11,76	11,78		
Temp (°C) : Color (visual estimation):		34,3	36,1	32,4	30,7	32,5	33,1		
	×	black	black	block	black	block	block.		
Flow rate (volume/time)							-1.11		
Volume collected, mL					1				
Total volume collected			Remark: Total v	olume collected	must be greater t	han total of sam	ple size required		
Analysis Required and	Preservation Method								
Tests (ZDHC N	MRSL Parameters)	Test required (v)	Total of sample size		Type of contain	er	P	reservation me	thod
	1. Phthalate	1						Wom - To	Maril Company
Combined test	2. Chlorobenzenes,	1	1000 mL total						
Individual test	Chlorotoluene & PAH 3. SCCPs	1	or 1000 mL each				S Course		
(Remark 4)			1000 IIIL each				Section 1		
	4. APS	1					F. F. A. C.		
5. APEOs		1	100 mL				told to the septiment		
6. Chlorophenols & Creso	ols	1	100 mL				BUTTON SERVICE		
7. Flame retardant		٧	500 mL				nd digitarion	Without adding ac	e a main and a large
8. Dyes		1	10 mL	Amber G	lass,washed with r	itric acid,		tore sample at 2-8	
9. Glycol		1	50 mL						
10. *Pesticides			1000 mL						
11. *Nitrosamine			10 mL						
12. Banned Azodyes		V	2000 mL						
13. *Free primary aromati	c amines		500 mL						
14. Organotin Compound	s	√	500 mL						topina před tev
15. VOC & Halogenated S	Solvents (Remark 6)	1	10 mL				Fill to full containe	er without air gap; nd store sample a	acidify to pH 2 with
16. PFCs (Remark 6)	2208-116	1	2 mL	PE,	washed with pestion	cide		Without adding actore sample at 2-8	id
								a amilyle at 2-8	-





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

CPSD-AN-00613-DATA 04 Issue Date: Version No.: 14 Business Line: 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		2 41 /42004	
Individual test (Remark 4)	ual test 18. Total dissolved solids 2000 ml		2000 mL each	Amber Glass, washed with nitric acid,	Without adding acid	
19. 5-day Biochemical (Oxygen Demand (BOD5)		1000 mL		Store sample at 2-8°C	
20. Colour			100 mL		parties (ME)	
21. Heavy Metals excep	ot Cr(VI) & Total-P (Remark 6)	1	9 mL	PE, washed with nitric acid	Acidify 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)		٧	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 oxygen de	emand (COD)		150 mL		6819 V159002	
25. Phenois			500 mL	Amber Glass; washed with nitric acid	Acidify to pH 2 with H ₂ SO ₄ Store sample at 2-8°C	
26. Oil and Grease & To	otal Hydrocarbon		1000 mL			
27. *Formaldehyde			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	
28. Sulfide (Remark 5)			50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C	
29. Total Coliform (Rem	nark 6)		125 mL	PE, clean, sterile,	Add 0.05 ml of 10% Na2s2O ₃	
30. Faecal Coliform (Re	emark 6)		125 mL	non-reactive	Store sample at 2-8°C	
31. Persistent foam			N.A.	Foam higher than 45 cm (visi	ual estimation): Yes / No	
32. Sulfite			100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 2-8°C	
33. Total-N			100 mL			
34. Ammonium-N			500 mL		Acidify to pH 2 with H ₂ SO ₄ Store sample at 2-8°C	
35. Adsorbable organic	ally bound halogens (AOX)		100 mL		0.0,01	
	36. Acute aquatic toxicity: .uminus Bacteria; Fish Egg; Daphne; Alage; 37. Sulphate		1000 mL	Amber Glass;washed with nitric acid;	- 184 - 184	
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, 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.

Ahmet Hilm Boz

Date: 14,04,2022.

Comment from factory

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

Deniz CIVAN YIGIT Date: 14.04.202Z

BOSSA TİCARET VE SANAYİ İŞLETMELERİ T.A.Ş.

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

CPSD-AN-00613-DATA 04 Issue Date: Version No.: 14 Business Line: Analytical

Laboratory Sample Nur									
	mber:	72220960078	3						
Client Name:		BOSSA T.A.Ş							_
Field Contact Person:		Neslihan Ateş			Phone No:+90	322 3552000			_
Project (Facility Name a	and Address):	Hacı Sabancı O	rganize Sanayi 8	Bölgesi Acıdere C	SB Mah. Celal B	ayar Bul. No:3 S	arıçam/Adana		-
Sampling Location / De	scription:	AFTER TREAT							-
Sample Identification:		Zero discharge with sampling plan							_
Sample Type:		Composite Sam	nple					-	
Name of Sampler:		Ahme	of t	1:62: 1	302				-
Discharge mode:					tiver, Sea, Stream.) OR Indirec dis	charge to sewage t	reatment plant	_
Date of collection:		6406	0 0 -	2.				\$1000000 \$ 10000	-
Factory Type:		Dyeing / Printing	g / Washing / Fin	ishing / Others (p	lease specify):				-
			selected more tha						_
Field Data for Wastew	ater								
Arrival Time:				Departure Time				1	
Field Parameters		pH:		Temp:	°C	Color:		Flow rate :	(volume/min)
Control No. of field equi	pment								(
Factory with effluent tre	atment plant:		(res				No	
			Incoming water	(If required)					
Sample matrix:			Wastewater bet						
		×	Wastewater after	er treatment – wa	ter at discharge p	oint			
Sampler container num	ber								
		1	2	3	4	5	6	7	8
	ID							,	0
Recording time	Time	11,50	17.50	13.50	14.50	10 00	11.5-		-
pH:		10,42	10,09	10,08	12,12	15.70	16170		
Temp (°C):		35,0	2418	34,3	D. /	3103	22 24		
Color (visual estimation)):	Hack	11.1		black	2)17	1111		
Flow rate (volume/time)		BACK	DIOCH	block.	ord Ch	black.	Slock.		-
Volume collected, mL									
Total volume collected	/a_aaaa		Remark: Total v	olume collected r	nuet ha granter th	on total of some	de also son to d		
			Tomark, Total V	oldine collected i	nust be greater tr	ian total of samp	ole size required		
Analysis Required and	Preservation Method								
Tests (ZDHC	MRSL Parameters)	Test required (v)	Total of sample size	1	ype of containe	r	Pr	eservation met	hod
	Phthalate	1							0.000.000
				area and a second					
Combined test or	Chlorobenzenes, Chlorotoluene & PAH	1	1000 mL total				ingues a Cura		
or Individual test			or				esessora Consider		
or	Chlorotoluene & PAH 3. SCCPs	1					estes d'Out E-61 esté d' 24 d'Après		
or Individual test (Remark 4)	Chlorotoluene & PAH	1	or						
or Individual test (Remark 4)	Chlorotoluene & PAH 3. SCCPs	1	or						
or Individual test (Remark 4)	Chlorotoluene & PAH 3. SCCPs 4. APS	1	or 1000 mL each						
or Individual test (Remark 4) 5. APEOs 6. Chlorophenols & Cres	Chlorotoluene & PAH 3. SCCPs 4. APS	1 1	or 1000 mL each 100 mL						
or Individual test (Remark 4) 5. APEOs 6. Chlorophenois & Cres 7. Flame retardant	Chlorotoluene & PAH 3. SCCPs 4. APS	1 1	or 1000 mL each 100 mL	Amber G	ass,washed with ni	tric acid,	S	Without adding acores sample at 2-8	id °C
or Individual test (Remark 4) 5. APEOs 6. Chlorophenols & Cres 7. Flame retardant 8. Dyes	Chlorotoluene & PAH 3. SCCPs 4. APS	1	or 1000 mL each 100 mL 100 mL 500 mL	Amber G	ass,washed with ni	tric acid,	S	Without adding ac tore sample at 2-8	id ''C
or individual test (Remark 4) 5. APEOs 6. Chlorophenois & Cres 7. Flame retardant 8. Dyes 9. Glycol	Chlorotoluene & PAH 3. SCCPs 4. APS	1	or 1000 mL each 100 mL 100 mL 500 mL	Amber G	ass,washed with ni i	tric acid,	1,5	Without adding acore sample at 2-8	id "C
or individual test (Remark 4) 5. APEOs 6. Chlorophenois & Cres 7. Flame retardant 8. Dyes 9. Glycol	Chlorotoluene & PAH 3. SCCPs 4. APS	1	or 1000 mL each 100 mL 100 mL 500 mL 10 mL	Amber G	ass,washed with ni	tric acid.	s	Mithout adding ac 2-6	id *C
or Individual test	Chlorotoluene & PAH 3. SCCPs 4. APS	1	or 1000 mL each 100 mL 100 mL 500 mL 10 mL 500 mL	Amber G	ass,washed with ni	tric acid,	s	Affibut adding ac tore sample at 2-6	id °°C
or Individual test (Remark 4) 5. APEOs 6. Chlorophenols & Crest 7. Flame retardant 8. Dyes 9. Glycol 10. *Pesticides 11. *Nitrosamine	Chlorotoluene & PAH 3. SCCPs 4. APS	1 1 1	100 mL each 100 mL 100 mL 500 mL 10 mL 10 mL 10 mL	Amber G	ass,washed with ni	tric acid,	s	Without adding ac tore sample at 2-E	id "C
or Individual test (Remark 4) 5. APEOs 6. Chlorophenols & Cres 7. Flame retardant 8. Dyes 9. Glycol 10. *Pesticides 11. *Nitrosamine 12. Banned Azodyes 13. *Free primary aroma	Chlorotoluene & PAH 3. SCCPs 4. APS tols ttc amines	1 1 1	or 1000 mL each 100 mL 100 mL 500 mL 10 mL 50 mL 1000 mL 10 mL 2000 mL	Amber G	ass,washed with ni	tric acid,	S	Without adding an action of the sample at 2-E	id no
or Individual test (Remark 4) 5. APEOs 6. Chlorophenols & Cres 7. Flame retardant 8. Dyes 9. Glycol 10. *Pesticides 11. *Nitrosamine 12. Banned Azodyes	Chlorotoluene & PAH 3. SCCPs 4. APS cols cols cols dic amines	1	or 1000 mL each 100 mL 100 mL 500 mL 10 mL 50 mL 1000 mL 1000 mL 2000 mL	Amber Gi	ass,washed with ni	tric acid.	Fill to full contains	r without air gap;	acidify to oH 2 with
or Individual test (Remark 4) 5. APEOs 6. Chlorophenols & Crest 7. Flame retardant 8. Dyes 9. Glycol 10. *Pesticides 11. *Nitrosamine 12. Banned Azodyes 13. *Free primary aroma 14. Organotin Compounce 14. Organotin Compounce 15. *Pesticides 14. Organotin Compounce 16. *Pesticides 16. *Pesticides 17. *Pesticides 17. *Pesticides 17. *Pesticides 18. *Pesticides 18. *Pesticides 19.	Chlorotoluene & PAH 3. SCCPs 4. APS cols cols cols dic amines	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	or 1000 mL each 100 mL 100 mL 500 mL 10 mL 50 mL 1000 mL 100 mL 2000 mL 500 mL		ass,washed with ni		Fill to full containe HCl ar	lore sample at 2-6	acidify to pH 2 with 2-8*C





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

CPSD-AN-00613-DATA 04 Issue Date: Version No.: 14

Tests (Conve	ntional Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method	
Combined test or	17. Total suspened solids (TSS)	4	2000 mL total		A TANKE	
Individual test (Remark 4)	18. Total dissolved solids (TDS)		2000 mL each	Amber Glass, washed with nitric acid,		Without adding acid
19. 5-day Biochemical Oxygen Demand (BOD5)		1			Store sample at 2-8°C	
20. Colour		1	100 mL		Market All	
21. Heavy Metals excep	ot Cr(VI) & Total-P (Remark 6)	٧	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO ₃ and store at 2-8°C	
22. Cyanide		4	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)		4	95 mL	Spen St. 1	Filter by 0.45µm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonlum buffer. Store sample at 2-8°C	
24. Chemical oxygen de	emand (COD)	1	150 mL		e a control	
25. Phenols		4	500 mL	Amber Glass; washed with nitric acid	Acidify to pH 2 with H ₂ SO ₄ Store sample at 2-8°C	
26. Oil and Grease & To	otal Hydrocarbon	1	1000 mL		2876	
27. *Formaldehyde			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	
28. Sulfide (Remark 5)		4	50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2N zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C	
29. Total Coliform (Rem	ark 6)	1	125 mL	PE, clean, sterile,	Add 0.05 ml of 10% Na2 _s 2O ₃	
30. Faecal Coliform (Re	mark 6)		125 mL	non-reactive	Store sample at 2-8°C	
31. Persistent foam		4	N.A.	Foam higher than 45 cm (vis	ual estimation): Yes / No	
32. Sulfite		1	100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 2-8°C	
33. Total-N		1	100 mL			
34. Ammonium-N		1	500 mL		Acidify to pH 2 with H ₂ SO ₄ Store sample at 2-8°C	
35. Adsorbable organic	ally bound halogens (AOX)	1	100 mL		2002	
36. Acute aquatic toxicit Luminus Bacteria; Fish			1000 mL	Amber Glass;washed with nitric acid;	Y X Z	
37. Sulphate			100 mL	10 10	Without adding acid Store sample at 2-8°C	
38. Chloride			100 mL			
39. Others:						

- 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, 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.

Date: 14.04.2077

Comment from factory

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

Deniz CIVAN YIOT Date: 14.04.2022

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APPENDIX D – Limitation Value of Legal Requirements

	ÖNGÖRÜLEN ATIKSULARIN ATIKSU A ÖNGÖRÜLEN ATIKSU STANDARTL	ALTYAPI TESİSLERİNE DEŞARJINDA ARI
	PARAMETRE	KANALIZASYON SISTEMLERI TAM ARITMA ILE SONUÇLANAN ATIKSU ALTYAPI TESISLERINDE
1	+Sıcaklık (°C)	40
2	+Ph	6.5-10.0
3	+Askıda katı madde (mg/L)	500
4	+Yağ ve gres (mg/L)	250
5	Katran ve petrol kökenli yağlar (mg/L)	50
6	+Kimyasal oksijen ihtiyacı (KOİ) (mg/L)	4000
7	Biyokimyasal Oksijen İhtiyacı BOİ5	
8	+Sülfat (SO4=) (mg/L)	1700
9	+Toplam sülfür (S) (mg/L)	2
10	+Fenol (mg/L)	20
11	+Serbest klor (mg/L)	5
12	Toplam azot (N) (mg/L)	- (a)
13	Toplam fosfor (P) (mg/L)	- (a)
14	+Arsenik (As) (mg/L)	3
15	+Toplam siyanür (Toplam CN ⁻) (mg/L)	10
16	Toplam kurşun (Pb) (mg/L)	3
17	Toplam kadmiyum (Cd) (mg/L)	2
18	+Toplam krom (Cr) (mg/L)	5
19	Toplam civa (Hg) (mg/L)	0.2
20	Toplam bakır (Cu) (mg/L)	2
21	Toplam nikel (Ni) (mg/L)	5
22	Toplam çinko (Zn) (mg/L)	10
23	Toplam kalay (Sn) (mg/L)	5
24	Toplam gümüş (Ag) (mg/L)	5
25	+Cl ⁻ (Klorür) (mg/L)	10000
	Metilen mavisi ile reaksiyon veren yüzey aktif maddeleri(MBAS) (mg/L)	Biyolojik olarak parçalanması Türk Standartları Enstitüsü standartlarına uygun olmayan maddelerin boşaltımı prensip olarak yasaktır.
	(a) Bu parametrelere atıksu değerlendirili	mesinde bakılmıyacaktır.
	(b) Bünyesinde %2 den fazla inert KOİ iç atıksular için KÖİ yerine BOİ5 değeri esa	çeren 5000 mg/l den fazla olan kuvvetli organik as alınır.