SGS WASTEWATER & SLUDGE TESTING FOR THE TEXTILE AND FOOTWEAR INDUSTRY

In 2016, Zero Discharge of Hazardous Chemicals (ZDHC) developed a ZDHC Wastewater Guidelines (WWG) V1.0 - a harmonized standard with wastewater test parameters, limit values and test methods for brands and suppliers working on the same expectation. In July 2019, ZDHC released the latest WWG to V1.1 to clarify unclear information and provide the sludge requirements. ZDHC established ZDHC Wastewater Provisional Laboratory Acceptance Process to enable accepted laboratories to conduct testing and submit data on behalf of the suppliers to the ZDHC Gateway – Wastewater Module.

WHAT PARAMETERS ARE COVERED IN WASTEWATER GUIDELINES

CONVENTIONAL PARAMETERS (TABLES 1A & 1B)			
Table 1A		Table 1B	
1. Temperature	9. Total Phosphorus	Heavy Metals	
2. Total Suspended Solid (TSS)	10. Adsorbable Organohalogens (AOX)	Antimony	Zinc
3. Chemical Oxygen Demand (COD)	11. Oil & Grease	Chromium	Arsenic
4. Total Nitrogen	12. Phenol	Cobalt	Cadmium
5. pH value	13. Coliform [bacteria /100mL]	Copper	Chromium VI
6. Color	14. Persistent Foam	Nickel	Lead
7. Biological Oxygen Demand (BOD5)	15. Anions – Cyanide, Sulfide, Sulfite	Silver	Mercury
8. Ammonium-N			

MRSL PARAMETERS (TABLES 2A to 2N)	
2A. Alkylphenol (AP) & Alkylphenol Ethoxylates (APEOs)	2H. Glycols
2B. Chlorobenzenes, Chlorotoluenes	2I. Halogenated Solvents
2C. Chlorophenols	2J. Organotin Compounds
2D. Azo Dyes	2K. Perfluorinated and Polyfluorinated Chemicals (PFCs)
2E. Carcinogenic Dyes	2L. Phthalates
2F. Disperse Dyes	2M. Polycyclic Aromatic Hydrocarbons (PAHs)
2G. Flame Retardants	2N. Volatile Organic Compounds (VOCs)

SLUDGE PARAMETERS (TABLE 3)			
Dry Mass (Total Solids)	Mercury	Disperse Dyes	Phthalates
Cyanide	AP & APEOs	Flame Retardants	PAHs
Arsenic	Chlorobenzenes, Chlorotoluenes	Glycols	VOCs
Cadmium	Chlorophenols	Halogenated Solvents	
Lead	Azo Dyes	Organotin Compounds	
Chromium VI	Carcinogenic Dyes	PFCs	

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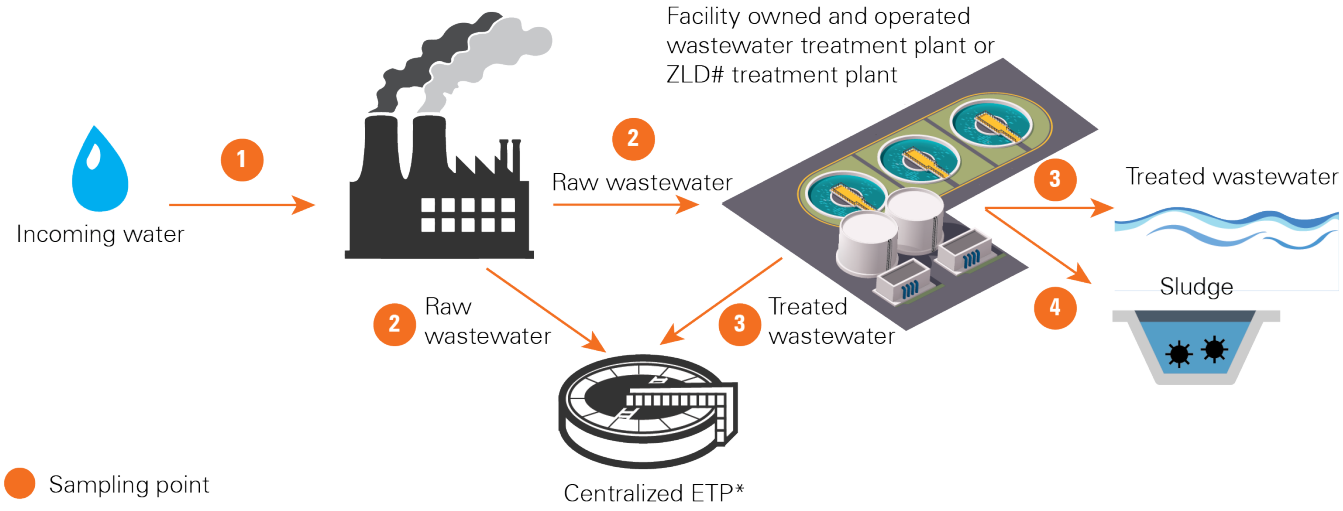
SUGGESTED WASTEWATER & SLUDGE SAMPLING POINTS AT FACTORIES



ZLD = Zero Liquid Discharge

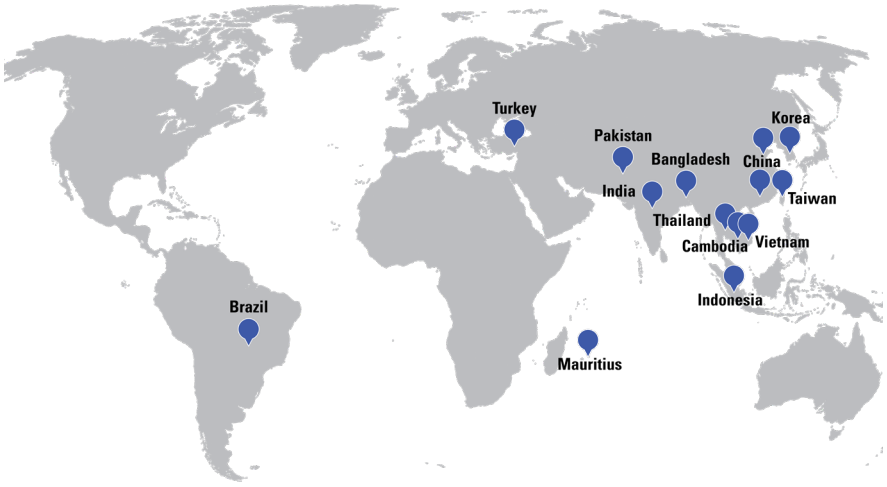
*Effluent treatment plant owned by 3rd party, e.g. government, private company, or industrial park

SERVICE PACKAGES AT SGS

SAMPLING POINT					
Package		**Incoming Water**	**Raw Wastewater**	**Treated Wastewater**	**Sludge**
A	Full Testing	(X**)	X	X	X
B	ZDHC Option 1	(X**)		X	X
C	ZDHC Option 2	(X**)	X	X	
D	Zero Liquid Discharge Facility	(X**)	X		X

**Incoming water was recommended to be tested when hazardous chemical(s) was/were detected in wastewater sample to support root cause analysis

ZDHC PROVISIONALLY ACCEPTED SGS LABORATORIES



ZDHC
ACCEPTED LABORATORY
(PROVISIONAL)

WASTEWATER TESTING SERVICE WORKFLOW
1. Service request
2. Qualified engineer on-site sampling
3. Sample delivery to ZDHC accepted laboratory
4. Laboratory testing
5. Test report issuance and result upload to ZDHC Gateway - Wastewater Module

To learn more about our Wastewater Testing Services, contact global.sl@sgs.com.

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