

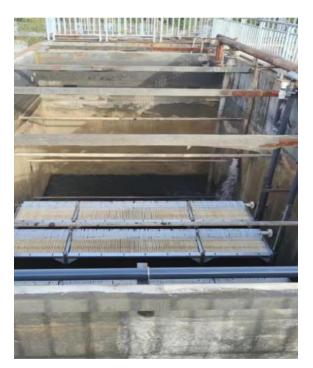
Laundry Wastewater Treatment

(Wuhan Railway Washing Center Project)

The project mainly deals with the washing sewage of quilt covers, bed sheets, pillow cases, headrest pieces and other personal items on all high-speed trains, bullet trains and ordinary speed trains from Wuhan Railway Bureau and Wuhan three railway stations.

The sewage characteristics of this project are: the waste water contains a lot of short fibers, a large number of laundry powder foam, COD_{Cr} value is higher, the wastewater is turbid, and sometimes it has a very deep color. The waste water is large and has a small amount of foam, which contains less suspended matter and smaller COD_{Cr} value. The amount of waste water drained is small, and the water quality is slightly better than that of cleaning waste water.





1. Outline of the Facility

Location	Wuhan City, Hubei Province				
Type of Wastewater	Laundry wastewater				
Flow	600m³/D				
Commissioned	Since Nov.,2021 (Peier MBR in 6 groups)				

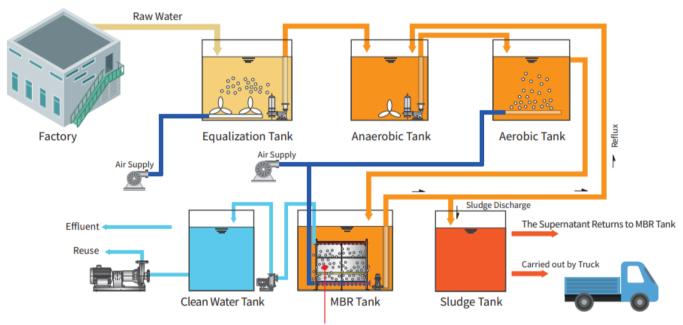


2. MBR Process Flow Sheet

According to the types of pollutants in sewage and the discharge of various sewage, the sewage treatment station

adopts the following processes for sewage treatment:

Process Flow Chart of Wastewater Treatment (Wuhan Railway Washing Center Project)



PEIER® Submerged Flat Sheet Membrane Unit (H)

3. Design Parameter and Actual Data

Туре	Parameter	Influent	Design	Actual	Capacity m ³ /D
Laundry - Wastewater -	COD _{Cr} (mg/L)	≤209	≤50	16	
	$BOD_5 (mg/L)$	≤93.5	≤25	5.4	
	SS (mg/L)	≤40	≤10	1.3	< 600
	Chroma (degrees)	≤9	≤20	3	≦ 600
	рН	6~9	6~9	7~8	
	Turbidity (NTU)	≤16	≤5	0.8	
	Escherichia Coli (PCs. / L)		1500		

"Design" values of effluent are regulatory limits. "Actual" values are average values.

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