

>80% SLUDGE ELIMINATION, ODOUR ELIMINATION, AND 80% COST REDUCTION



After the implementation of the Ydro Process® the following targets were achieved:

- Elimination of excess sludge by more than 80%
- Costs associated with sludge treatment and disposal have decreased by more than 80%
- Elimination of odours. H2S decreased at the measuring points from 32 mg/m3 to 5mg/m3, and to 0.5mg/m3
- Effluent parameters reduced to acceptable levels
- Results achieved within 12 weeks, with significant improvements within 6 weeks.

Case Study	SHYMKENT W.W.T.P.
Location	Kazakhstan
Target	Sludge Elimination, Odour Control
Population Equivalent	1.000.000
Flowrate	150 000 m³/day
Treated wastewater	Municipal
Project Initiation	04/01/2024

Parameter	Units	Input during application (Average)	Output during application (Average)	Sludge Production Before Application (Average) tn /day	Sludge Production After Application (Average) tn/day	Reduction
COD	mg/l	415	40	1400	280	> 80 %
BOD ₇	mg/l	205	22			
TN	mg/l	42.88	25.60			
TP	mg/l	7.60	1.20			
SS	mg/l	262	26			
NO ₃ -N	mg/l	0.54	18			
NH ₄ -N	mg/l	42	6,70			