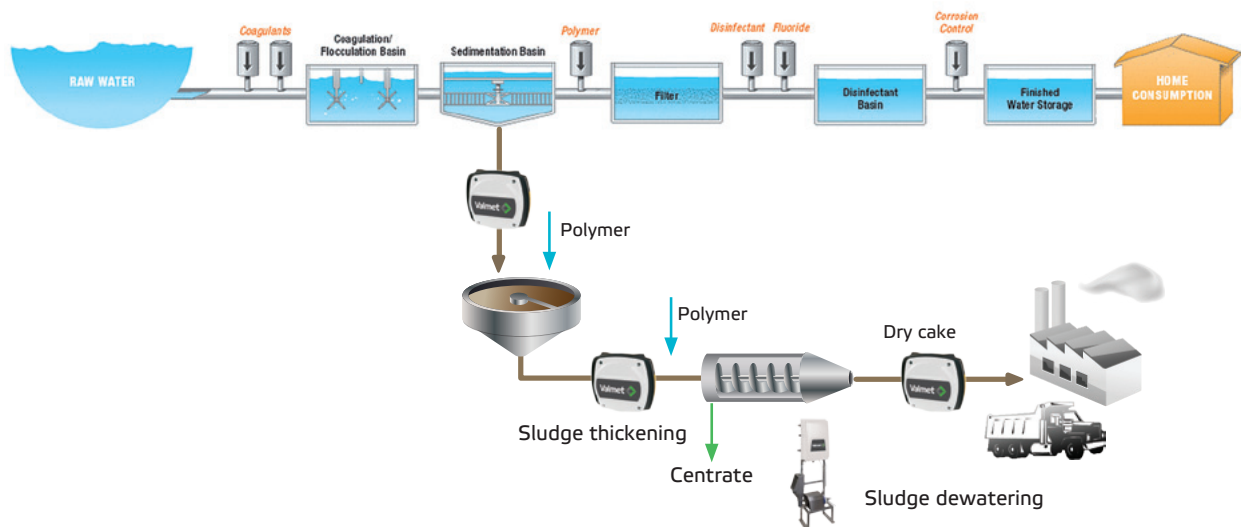


Surface Water Treatment Plants Benefit from Valmet TS Measurement

Typical Surface Water Treatment Plants pull raw water from lakes and rivers with the goal of removing solids and purifying for the local water supply. The multi-step process benefits from accurate solids measurements. Possible Applications for Valmet TS in Surface Water Treatment are as follows:



Post Coagulation/Flocculation Basin

After polymer addition some Basins are designed for solids to settle to the bottom. The solids are then pumped from the bottom of the Basin. To optimize this process and facilitate the pumping of the highest solids possible the Valmet TS can be installed on the Basin Discharge pump outlet. This allows for the pumping of the highest solids possible to the next process stage.



Sedimentation Basin/Gravity Thickener

Solids settle to the bottom of the Gravity Thickener and installing a Valmet TS allows for pumping optimization of solids to the next stage. The pump cycle is based on solids percentage and not time based. This results in higher solids to the next stage – dewatering.



Dewatering

When dewatering process is included in a Surface Water Treatment Facility measuring solids is critical. The Valmet TS installed on the feed to dewatering process allows for polymer addition based on dry tonnage. This not only reduces polymer usage but provides for a drier cake.

Valmet TS benefits

- No Moving Parts
- No Periodic Calibration Required
- Measures wide range of solids
- Non intrusive
- Years of maintenance free use



Valmet TS