

Waterford Wastewater Treatment Works, Waterford City



This Design, Build and Operate contract for Irish Water, located on a Greenfield site at Gorteens, Co. Kilkenny, provides a wastewater treatment facility to meet EU, Irish Government Standards and EPA Wastewater Discharge Licence limits by providing secondary and tertiary

treatment for a population equivalent of 188,000 PE. The Works was commissioned in 2010 and immediately thereafter, CAW entered into a 20 year Operations and Maintenance Contract to operate the Works on behalf of Waterford City Council /Irish Water.

Celtic Anglian Water provides 20 years of Operations & Maintenance on behalf of Irish Water.

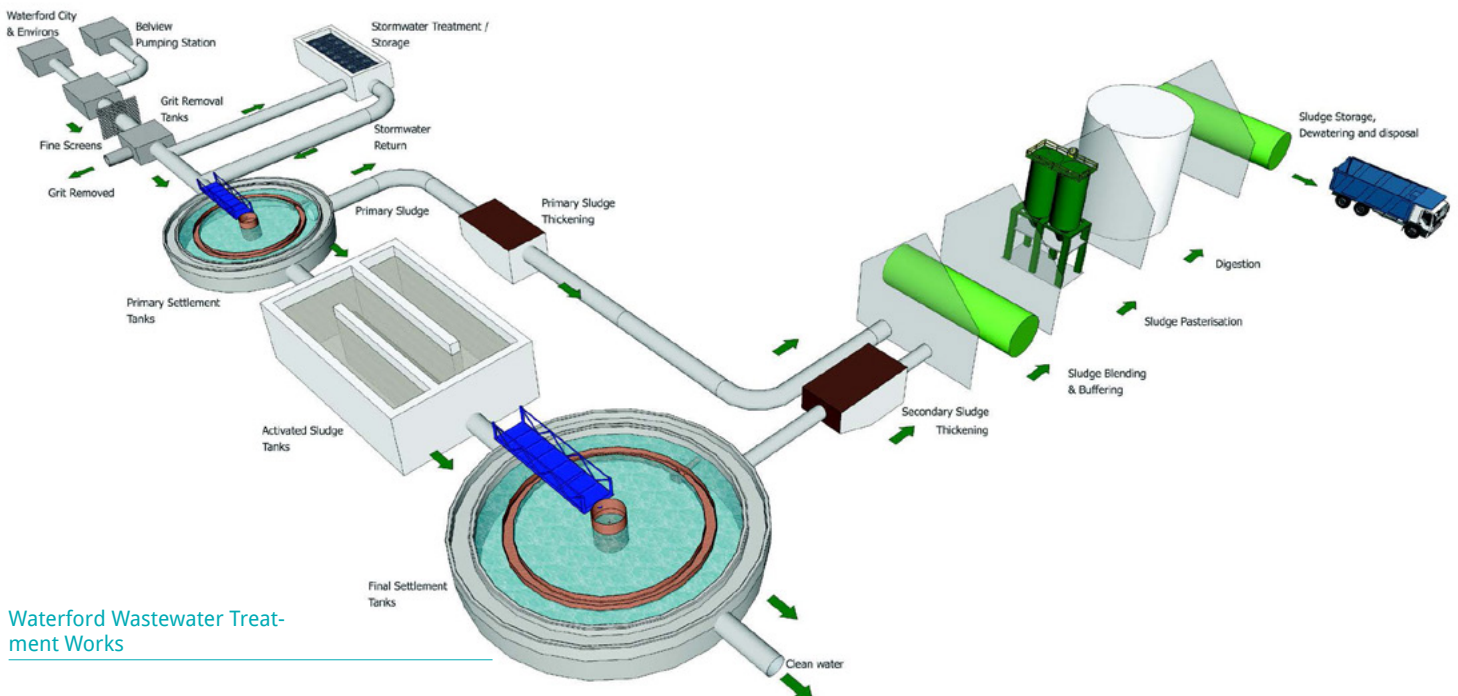
The plant provides primary settlement along with activated sludge treatment to achieve BOD/COD and nitrogen removal. Process treatment includes:

- Inlet Screening;
- Grit and FOG removal;
- Odour control;
- Primary settlement;
- Activated Sludge secondary treatment;
- Sludge Pasteurization;
- Sludge digestion, and
- Sludge dewatering

Sludges are treated by pasteurization, digestion and dewatering and re-used as a fertiliser conditioning material in agriculture. The sludges must receive this level of treatment to reach the standards necessary to be classified as "Class A" Biosolids to be recycled onto agricultural land.

KEY DATA:

Population Equivalent:	188,000
Dry Weather Flow:	0.318m3/sec
Flow to Full Treatment:	0.964m3/sec
Maximum flow to storm Treatment:	0.733m3/sec
Maximum flow to Works 5.3 DWF:	1.687m3/sec
Biological Oxygen Demand BOD:	13,723kg/day
Suspended Solids:	9,606kg/day



Waterford Wastewater Treatment Works