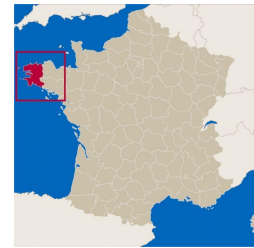




PLOUGONVELIN
29 | FRANCE

Capacity in IE : 14 000
Year of construction : 2003
Project owner : SIVU Plougouvelin, Trébabu, Le Conquet
Consultant : D.D.E.



TYPE OF TREATMENT

Water treatment

- Aeration basin 2815 m³ with 2 cells (1 working in winter, 2 in summer)
- 2 surface aerators 55 kW
- Deaerator
- Scraper settling tank Ø 23 m
- Storage and treatment of centrates from centrifugation



Sludge treatment

- Sludge recirculation
- Sludge thickener 70 m³
- Sludge storage tank 350 m³
- Mobile centrifuge decanter



TECHNICAL DATA OF PLANT

	Capacity of treatment	Treated water discharge standards
Capacity of treatment	14 000 IE	
Daily volume	2 300 m ³ /d	
Peak flow	230 m ³ /h	
Biological oxygen demand (BOD5)	840 kg/d	25 mg/l
Chemical oxygen demand (COD)	1 680 kg/d	90 mg/l
Suspended solids	1 260 kg/d	25 mg/l
Total Kjeldahl nitrogen	210 kg/d	10 mg/l
Total nitrogen	210 kg/d	15 mg/l
Total phosphorus	56 kg/d	



The Inhabitant Equivalent (IE) is a notion used in sanitation to evaluate the size of waste water treatment plants, it corresponds to an estimate of pollution caused by the "inhabitant equivalent" defined thus :

- 60 g/inhabitant/day for DBO5
- 90 g/inhabitant/day for suspended matter
- 15 g/inhabitant/day for total nitrogen
- 4 g/inhabitant/day for total phosphor