

Charge Types and Components

Calculating TE is tricky. Before jumping into the complex formulas, this handy cheat sheet helps outline the charging types and the basic components in a TE calculation.

Fixed Charges

There are 2 types of fixed charges. The wholesaler sets them and either could be applicable:

- 01** TE Supply Point Fixed Charge: A TE standing charge is a fee imposed by water and sewerage companies on businesses or organizations that discharge trade effluent into the public sewer system.
- 02** TE Band Charge. The Charging Band assigns the appropriate charge to the site (associated with the DPID in CMOS). Each band represent a different type of discharge and corresponds to a specific annual fixed charge, prorated across each invoice for the year. If applicable, it's assigned with the T121 Notify DPID transaction.

Operational Charge

The Operational Charge can be likened to the volumetric charge for treating a site's discharged effluent.

TE sites have different requirements for treating effluent. Each one's a component, applied by a treatment indicator via a T121 – Submit DPID transaction and updated through a T122 – Update Trade Effluent Operating data transaction.

After calculating the overall volume of treatable effluent, the Operational Charge per m3 is calculated (by the Wholesaler) using The Mogden Formula: **Daily Unit Charge = R + [(V + Bv) or M] + B(Ot/Os) + S(St/Ss)**

It can be simplified by breaking down each component and only factoring ones in the relevant treatment indicator applied to the DPID:

COMPONENT	DESCRIPTION
R – Reception	Charge for receiving the effluent, per m3
V – Volumetric	Charge for primary treatment of effluent, per m3
Bv – Additional Volumetric	Additional volumetric charge if the wastewater needs to be treated biologically. (Wholesaler dependent)
M - Marine	Additional charge if the water is discharged into the ocean, per m3
B – Biological	Charge depending on the biological oxidation of sewage.
Ot	Chemical Oxygen Demand of the effluent. This is customer specific
Os	Chemical Oxygen Demand of the foul sewage. This is listed on the scheme of charges document.
S – Sludge disposal	Charge for getting rid of primary sewage sludge, in kg.
St/Ss	Measurement of total suspended solids in the effluent, measured per litre.

To determine the overall Operational Charge, this figure will be multiplied by the TE site's total TE volume.

Minimum Charge

A TE Minimum Charge is a fixed fee that may be charged to cover expenses associated with maintaining sewer infrastructure and TE treatment processes. The minimum charge is applicable only when the annual minimum charge will not be surpassed. The minimum charge applied would be the shortfall from the minimum charge and total operational charge, to ensure the minimum charge is reached by the end of the year.

Future topics in our TE series will include:

1. Intro to TE
2. TE Volume, Allowances & Calculated Discharge
3. Charge Types and Components
4. England Charge Calculations
5. Scotland Charge Calculations
6. TE Calculation Examples
7. Valytica Cloud and Trade Effluent