

Trade Waste Requirements - Electromagnetic Flow (Magflow) Meters

1. When Magflow Meters are Required to be Installed

1.1 South East Water may require a Magflow Meter to be installed to measure the volume of trade waste which exceeds any of the following parameters:

- Volume greater than 1,000 kL/year
- Biochemical Oxygen Demand greater than 600 mg/L
- Suspended Solids greater than 600mg/L
- Total Kjeldahl Nitrogen (greater than 50mg/L)

1.2 A Magflow Meter may also be required to be installed to measure the volume of trade waste when:

- Alternative sources of water (such as bore water, reticulated recycled water supply, rainwater, on-site recycled water) may be part of the trade waste;
- Liquid inputs (such as animal fluids, brine, dairy whey) may be part of the trade waste;
- One or more quality parameters in the trade waste may be significantly variable;
- The trade waste may include concentrated waste streams;
- There is more than one dedicated trade waste treatment apparatus at the property;
- The trade waste volume may be significantly variable;
- There is a requirement to record pH, temperature or electrical conductivity at the corresponding trade waste flow rate (ie: digital data logger); or
- The trade waste may adversely impact:
 - Health and safety of people working in the sewer;
 - Sewerage system infrastructure; or
 - Sewage treatment plants.

Any requirement for an installation of a Magflow Meter is a condition of the Trade Waste Consent.

2. Exemption

An exemption from a Magflow Meter installation requirement may only be granted at South East Water's absolute discretion upon assessment of a written request provided by the customer.

3. Magflow Meter Installation Requirements

3.1 Minimum requirement for the measurement of trade waste volume is a full-bore electromagnetic flow meter excluding insertion type units.

3.2 Ultrasonic, paddlewheel, displacement, bubbler, weir or other type of meters that include internal mechanisms must not be used to measure trade waste volume.

- 3.3** Installation is required immediately downstream of the dedicated trade waste treatment apparatus at the property (trade waste site plan will show where the Magflow Meter is required to be installed).
- 3.4** A tamper proof electrical connection is required to ensure the Magflow Meter is measuring trade waste volume at all times.
- 3.5** The Magflow Meter must have a non-resettable totaliser and the read is to be displayed in kilolitres (1 kilolitre = 1000 litres).
- 3.6** The Magflow Meter is to be in a location providing safe and easy access for South East Water representatives.
- 3.7** The Magflow Meter must be compatible with other monitoring devices required by South East Water such as autosamplers or digital data loggers as stated in the Trade Waste Consent.
- 3.8** The Magflow Meter must be capable of accurately measuring all trade waste flow rates from the Premises.
- 3.9** The Magflow Meter must be installed by a suitably qualified person who produces an **installation report** demonstrating it has been installed in accordance with manufacturer requirements.
- 3.10** The Magflow Meter must be verified by a suitably qualified person who produces a **verification certificate** demonstrating it's operating in accordance with manufacturer requirements.
- 3.11** The Customer must supply South East Water with a copy of the **installation report** and **verification certificate** within 14 days of the installation.
- 3.12** The Magflow Meter must be verified at least once in every 3 years by a suitably qualified person and a copy of the verification certificate must be supplied to South East Water within 14 days of the verification.