ATTACHMENT C.2:

MEASURES TO PREVENT UNINTENDED DISCHARGES

ATTACHMENT C.2. MEASURES TO PREVENT UNINTENDED DISCHARGES

The Upgraded Waste Water Treatment Works at Mallow has been designed and incorporates the following key measures to prevent unintended discharges to the Blackwater River (Blackwater (Munster)_140):

- The Dual Function Overflow (SW010) has been designed to meet the definition of '*Storm Water Overflow*' as per Regulation 3 of the Waste Water Discharge (Authorisation) Regulations, 2007, as amended and the criteria as set out in the DoEHLG '*Procedures and Criteria in Relation to Storm Water Overflows*', 1995.
- A 2,400m^3 Stormwater Holding Tank will be provided at the new Pumping Station.
- Overflows from the Storm Water Holding Tank will be screened by a self-cleaning mechanical screens with a maximum passage of 6mm.
- All equipment at the WwTP is Duty/Standby with fault and high level alarms.
- The works will include the installation of a new SCADA and telemetry system, this system will ensure compliance and compatibility with Irish Water's Design Specifications.
- All alarms at the WwTP and Bridge Street Pumping Station will be linked to level measurement to alert to any spillage and will be linked to SCADA with alarms sent to operators in the result of an emergency event.
- Full formal training will be provided to the plant operators during the last 30 days of the Operation Service Period in order to ensure operators are capable of running the works safely and successfully.
- Provision for a standby power supply will be made at Bridge Street Pumping station to provide for continued operation of the pumping equipment in the event of an interruption in the power supply.
- Provision for a standby power supply will be made at the Mallow WwTP to provide for continued operation of the wastewater treatment equipment in the event of an interruption in the power supply.
- All flows will be monitored continuously and recorded by flowmeters which will be installed at the WwTP and Bridge Street Pumping Station.

Refer to **Section C.2** of the application form for further details on the proposed prevention and monitoring measures at the WwTP and on the network.

The Mallow WwTW has been designed to prevent unintended discharges from the works and to ensure that all emissions from the agglomeration comply with or will not result in the contravention, of any national or European legislation.