

ATTACHMENT C.2. Measures to Prevent Unintended Discharges

The Waste Water Treatment Works at Ballyvourney/Ballymakeera has been designed and incorporates the following key measures to prevent unintended discharges to the Sullane River:

- SWOs (SW002 and SW003) have been designed in compliance with 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.
- Provision of 195m³ of storm storage at the WwTP.
- Provision of 12.4m³ of storm storage at the Pumping Station.
- At the Pumping Station a standby pump will activate automatically upon failure of duty pump.
- The provision for the connection of a mobile power generator facility at the Pumping Station in the event of power failure.
- Upgraded mechanical screen at the Pumping Station which will ensure that overflows will be screened to 6 mm in all directions before discharging to the river.
- Upgrade of pump capacity from 15.7l/s to 39 l/s, *i.e.*, Formula A flow as set out in the DoEHLG Procedures and Criteria in Relation to Storm Water Overflows 1995, ensuring discharges occur during periods of high rainfall, which allows for increase dilution of discharge in receiving waterbody.
- All alarms 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.
- Connection for temporary generator. Uninterruptible Power Supply (UPS) backup for telemetry/plant controllers.
- An Emergency Response Plan and Procedures, Operation and Maintenance Procedures for all equipment will be in place and implemented by the appointed plant operator, as required.
- All operators will be fully familiar with all operational plans and procedures pertaining to the plant and network *etc.*
- All flows will be monitored continuously and recorded at the electromagnetic flowmeters which will be installed at the WwTP.

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

The Ballyvourney/Ballymakeera 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.