

ATTACHMENT C.2. MEASURES TO PREVENT UNINTENDED DISCHARGES

The Waste Water Treatment Plant at Ringsend has been designed and incorporates the following key measures to prevent unintended discharges to the receiving waterbodies (Liffey Estuary Lower, Liffey Estuary Upper, Tolka Estuary, Dublin Bay, Dollymount Strand and Sandymount Strand):

- 52 no. out of 101 no. assessed Storm Water Overflows (SWOs) 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. Refer to **Attachment B.8**: Improvement Programme for further details.
- Provision of 6 no. open stormwater tanks with a combined storage volume of 62,100m³ of storm storage at the WwTP.
- Provision of 7,400m³ of storm storage at West Pier Pumping Station, 30,000m³ at Network storage 9C; Storm storage of 5,005m³ at Sutton; Current DAPS will detail out full DWF storage provision and requirements as part of ongoing studies.
- Provision of backup generators and bunded fuel tanks at the Ringsend WwTP.
- Standby generator available at Ringsend Main Lift Pumping Station (MLPS), Sutton Pumping Station and West Pier Pumping Station. Sites serving over 10,000 p.e will be assessed for their need in terms of standby electricity generation.
- At the WwTP, a standby pump will activate automatically upon failure of duty pump.
- At all Pumping Stations, a standby pump will activate automatically upon failure of duty pump.
- Uninterruptible Power Supply (UPS) backup for telemetry/plant controllers at WwTP.
- Alarms for WwTP fed to SCADA with alarms sent to operators.
- The majority of Ringsend Pumping Stations have either local telemetry (not via Uisce Éireann system) or full connection to Uisce Éireann telemetry system. Connection to the Uisce Éireann telemetry system is dependent on the Local authority area. Uisce Éireann have an existing telemetry programme which will migrate existing sites located in the Ringsend catchment not on the Uisce Éireann telemetry system to the national telemetry system. New sites will be added during commissioning. New monitors for SWO's are also being installed on a priority basis under the programme where currently not monitored.
- 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 continue to be monitored continuously and recorded at the electromagnetic flowmeters installed at the WwTP.

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