



ATTACHMENT C.2:

MEASURES TO PREVENT UNINTENDED DISCHARGES

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The Waste Water Treatment Works at Midleton-Carrigtwohill has been designed and incorporates the following key measures to prevent unintended discharges to the six receiving water bodies of the operational discharges.

- 13 of the 16 no. 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. The remaining 3 no. of SWO's (SW010, SW011, and SW020) will be upgraded as part of the Midleton Waste Water Network Upgrade Project to ensure they meet DoEHLG criteria, and this is expected to be completed by Q4 2029.
- Provision of 1,702m³ of storm water storage at Carrigtwohill WwTP. Flows in excess of the storm water holding tank capacity will overflow to Lough Mahon (Harper's Island) *via* SW005 which meets DoEHLG criteria.
- Alarms for both and Carrigtwohill Midleton WwTP are linked to SCADA with alarms sent to operators in the result of an emergency event.
- Midleton and Carrigtwohill are a manned site during the hours of 8:00 and 16:30 Monday to Thursday and 08:00 to 16:00 on Fridays with 24 hours call out response where the amount of time spent on site will vary depending on various factors *e.g.*, weather or breakdowns in plant or maintenance works required such as cleaning of the intake screens *etc.*
- Midleton and Carrigtwohill WwTP are equipped with backup permanent generators to provide for the continued operation of the pumping equipment in the event of an interruption in the power supply. This will enable an automatic switch over in such events.
- Provision of standby generators at 4 no. Pumping Stations to provide continued operation of the Pumping Station in the event of an interruption in the power supply (Barryscourt, IDA No.1, Old Cobh Road, and Bailick No.1).
- 2 no. of Pumping Stations include a connection point for a temporary mobile generator. This set-up is in place at Bailick No.2 and Bailick No.3.
- In the case of minor or major outages affecting smaller Pumping Stations, depending on the duration of the outage, tankering is an option and is determined on a case-by-case basis. In most cases any power cuts to date have been relatively short in duration and power has been restored quickly. Therefore, any potential discharges will be short in duration. This procedure is in place at 8 no. Pumping Stations where standby generators or a connection point to a temporary mobile generator are not in place (Ballinacurra No.2, Dwyers Road, Oakwood, Roxboro Mews, The Rock, Roxboro Housing Estate, Old Youghal Road and Ballinacurra No.1).
- Midleton and Carrigtwohill WwTP are equipped with standby pumps in place, including RAS/WAS pumps, and storm tank pumps at Carrigtwohill WwTP. The provision of standby pumps is also available at a number of Pumping Stations with auto-change over of pumps where applicable.
- Where available, all flows will be monitored continuously and recorded at the electromagnetic flowmeters at the Midleton and Carrigtwohill WwTPs and several Pumping Stations *via* flowmeter telemetry.

- An Emergency Response Plan and Procedures, Operation and Maintenance Procedures for all equipment is in place and will be implemented by the appointed plant operator for both WwTPs, as required.
- All operatives are fully familiar with all operational plans and procedures pertaining to the plant and network *etc.*

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