



DUNSHAUGHLIN SEWERAGE SCHEME

Construction of Wastewater Treatment Works to serve 12,000 PE

Client: Meath County Council

SUMMARY:

Value: €34 million

Services Provided:

Preliminary and EIS Reports, Detailed Design, Project Management, Operational Support

Status: Substantially complete

The Dunshaughlin Sewerage Scheme provides for the immediate and long term improvement and expansion of the existing system of collection and disposal of wastewater generated from the Town of Dunshaughlin and its environs, namely the villages of Kilmessan, Dunsany and Drumree and the developments of Warrenstown College and Killeen Castle.

For various reasons the old treatment works at Dunshaughlin was unable to satisfactorily treat the wastewater generated from the town to meet the standards required for its discharge to the Skane River, a tributary to the River Boyne. The facility provides effluent discharge bypassing the Skane River to the River Boyne. Considerable emphasis is given to the visual impact of the proposed development and renovation of the existing facilities and pumping stations. These facilities are screened from the surrounding countryside by extensive landscaping. The buildings are designed to blend with the other buildings in the vicinity.

The Project provides for the construction of:

- Trunk Gravity and pumping mains sizes from 225 mm to 600 mm dia. Total length app. 35 km, complete with 8 No. river crossings and an outfall and six outlying Sewage Pump Stations.
- Refurbishment of existing Sewage Works at Drumree providing Screening and Storm Flow Separation and Detention Tanks.
- New Sewage Treatment Plant at Castletown Tara comprising Inlet Works, Primary Clarifiers, Aeration Tanks, Final Settlement Tanks and under river bed level effluent diffusers discharging to the River Boyne.
- Dewatering of Sludge including Imported Sludge from other Treatment Works within County Meath.
- Use of wastewater effluent after filtration and disinfection for site hydrants and cleaning of dewatering Centrifuges.
- Provision of Phosphate removal and denitrification of effluent.
- Telemetry System for remote monitoring and operational data transfer to Ferganstown Works.



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