

Meath Villages Water UV Disinfection Project

**UV Disinfection & Nitrate Removal
Contracts**
Completed 2008



Client

Meath County Council

Clients Representative

Senior Engineer Meath County Council

Plant Capacities

From 1m³/day to 26m³/day

Value

Capital Works €180,000

Project Involvement

Supply, Installation Contractor

Challenge

The following sites required enhanced water treatment to provide protection against cryptosporidium and bacterial contamination;

- Ballinacree
- Bellewstown - Collierstown
- Bellewstown - Hollymount
- Bellewstown - Woodview
- Carrickleck
- Castletown
- Castlepole
- Crossdrum
- Donore
- Grangegeeth
- Kenstown
- Lobinstown
- Newtown/Creevagh
- Ross Cross Dunsany
- Tara Hill

Eight of the above sites had elevated nitrate levels and Bellewstown - Woodview also had elevated levels of arsenic all of which required treatment to comply with drinking water standards.

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Answer

Response CSL successfully completed the project by providing, installing and commissioning the following plant items;

- Duplex resin filters with salt regeneration for nitrate removal
- Simplex resin filters for arsenic removal
- Prefiltration by polypropylene bag filters with 10 micron polyester mesh
- NSF55 Class A certified UV treatment units with minimum dose rate of 40mj/cm²
- In-line rotary piston water meters
- GSM SMS alarm units

Drinking Water Standard

Water entering supply must comply with the European Communities (Drinking Water) (No2) regulations 2007 as defined in Irish SI No 278 of 2007