

Drip Distribution System National School -Latton 2014

An upgrade to the existing septic tank was urgent but no space was available until a decision was made to put a Drip distribution system into the school playing field. 100% funding was approved by the Department of Education based on the drip solution.

An upgrade from the septic tank to a secondary treatment system and mole ploughing of the dripline into the playing field was completed in November 2014. The dripline was Geoflow pressure compensating with root inhibitor and anti-microbial coating. Drip design and commissioning was by Ash Environmental with project engineering and funds application by FJ Coyle & Assoc.

Site Address: Latton NS, Castleblaney, Co Monaghan

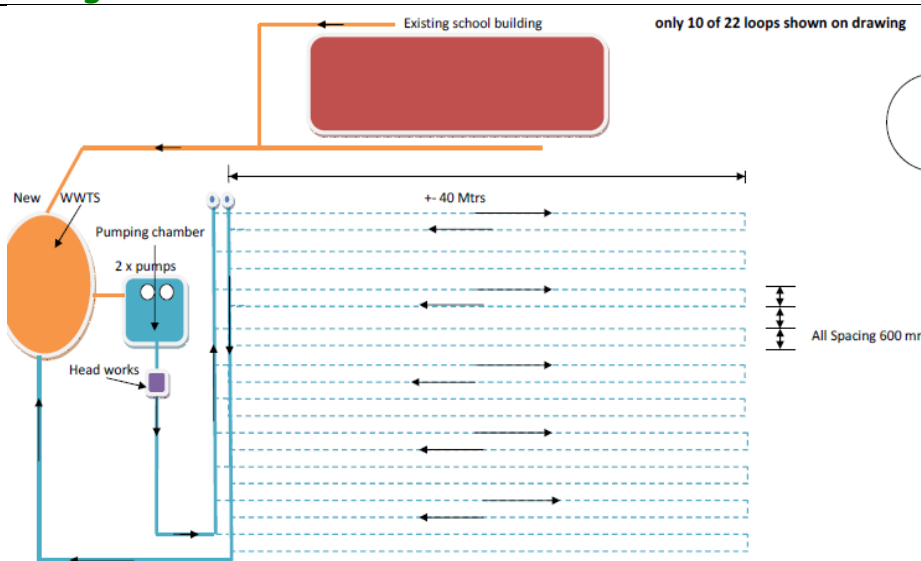
Design details:

Flow: 10,800 litres/day
Wastewater quality: Secondary treated domestic strength wastewater
Infiltration rate: 10 l/m²/day
Area: 1,080 m²
Nominal dimensions: 27 m x 40 m in a single zone
Pump capacity: 130 litres/min
Head (TDH): 30 metres
Pump tank : 14 m³ concrete tank (2 x 7000L)



Existing septic tank was polluting the adjoining stream.

Design Schematic



Piping schematic for Scoil Mhuire, Latton. C.Penston 11-06-14



O'Reilly Oakstown secondary treatment system



Drip headworks with 120 µ filter and backwashing solenoids



Mole ploughing of dripline into the playing field using a farm tractor attachment with little or no damage to the soil structure and no aggregate



Drip distribution system completed and the playing field back in use.



Connections to PVC manifold by Ash Environmental