



Advetec/NRP Ireland in conjunction with
Feed Test Services

Johnston Farm – Co Antrim N Ireland
Advetec 900 Case Study

Feed Test Services, Antrim, N.Ireland conducted an independent study into the effects of Advetec 900 product on the waste effluent within a dairy farm. The aim of the tests was to see if an environmental solution could be achieved to farm pollution problems in a cost effective manner.

Background: With increasing demands from DEFRA resulting from EC Directives the spotlight within the agriculture industry is firmly on the need to reduce the pollution of land, air and water in a cost effective manner.

Advetec Ltd Case Study:

Johnston Farm - Conducted by Feed Test Services.

Implementation: The Dairy Farm of Mr Johnston is a modern dairy unit with a total number of 280 cattle housed between the 5 main sheds. Each shed has a pit which empties into the main lagoon. This lagoon measures 36 ft wide x 81ft long x 6ft deep and was where Advetec 900 product was dispensed into the lagoon by a drip feed method. Advetec's dispensing system was installed into the outdoor lagoon system. During the 30-day test period, effluent samples were collected and analysis was performed independently by Feed Test Services Antrim .

- **Objectives:** To reduce:
 - Ammonia Nitrogen Levels
 - TSS and TVS Levels
- Scum Reduction /Crust formation
- Lagoon Sulphide Production
 - Phosphate levels



Scum and crust formation before application of Advetec 900.



Scum and crust formation 1 week after application of Advetec 900.



Results:

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- Ammonia nitrogen reduced by **58%**
 - TSS & TSV reduced by **84%**
 - Scum reduced significantly
 - Phosphate's reduced by **58%**