



# R&D Snapshot

## NAMMP – Pork Greenhouse Gas Mitigation

**Investigator:** Eugene McGahan, Feedlot Services Australia Pty Ltd.

**Purpose:**

- Develop strategies to mitigate greenhouse gas (GHG) emissions from piggery effluent systems and identify potential Emission Reduction Fund (ERF) methods

**Take home messages:**

- GHG emissions may be reduced by up to 79% by storing effluent for shorter periods (short hydraulic retention time) i.e. irrigating more often/direct application compared with traditional effluent ponds (long hydraulic retention time)
- Converting pig housing from conventionally flushed sheds to deep litter systems can reduce GHG emissions by 66–80% (i.e. litter stockpiles or no stockpiles/direct application)
- Covering manure stockpiles reduced emissions by 74% compared with uncovered stockpiles
- A cost benefit analysis identified that there is economic potential for all three mitigation strategies to be developed into ERF methodologies offering the potential for producers to generate carbon credits and a subsequent income source. This is currently being explored

**Additional information:**

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