

Carilla Dairies

(Tintinara – SA)

Average milking herd: 2000 cows
Feed pad capacity: 500 cows
Type of effluent system: Mechanical separation



Effluent from the dairy shed, yard, exit-laneway and feed pad is treated via a Screw Press Separator (SPS). Sand traps are used to pre-treat the raw effluent to prevent heavy sand and stones from contacting the pumps and SPS.

Recycled effluent is used to floodwash the exit-laneway and feed pad. (3 x 17,500 L floodwash tanks)

The sludge pump transfers mixed-raw effluent from the collection sump to the Screw Press Separator (SPS). Separated liquid effluent gravitates into 2 HDPE lined effluent storage ponds, whilst the solids fall below the SPS. The ponds are connected in series.

The feed pad has a central feed alley and two cow alleys. The cow alleys are floodwashed 3 – 4 times per day. Effluent from the feed pad gravitates over a long sand sedimentation trap, then into a circular collection sump.

During the summer months stored effluent from the ponds is irrigated over 130 hectares of lucerne and annual pastures. This is achieved by injecting effluent into several centre pivot irrigators.

Nutrients captured at the dairy shed annually:

- 74,682 kg/yr of Nitrogen
- 14,091 kg/yr of Phosphorous
- 52,338 kg/yr of Potassium

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