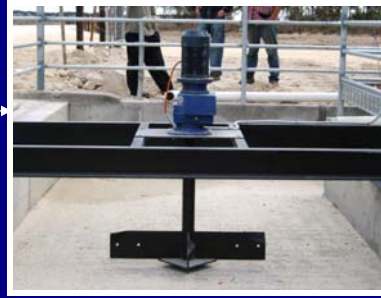


# Kurleah

(Allendale East – SA)

Average milking herd: 550 cows  
 Type of effluent system: Mechanical separation



Effluent from the dairy shed and yard gravitates in to a rectangular sump. When effluent in the sump reaches a pre-determined level the float switch initiates the agitator, then the sludge pump.



The sludge pump transfers mixed-raw effluent from the end of yard sump to the Screw Press Separator (SPS).

The SPS is elevated on a platform. Separated liquid effluent gravitates into an open storage tank, whilst solids fall below the SPS. Solids are removed and spread using a belt spreader every 2 – 3 months.



Liquid effluent is stored in an open tank and recycled for hydrant yard washing. This equates to an annual freshwater saving of approximately 14,600 kL (14.6 ML)



Surplus liquid effluent is irrigated via a Williams travelling irrigator. Application areas include:

- 30 ha of dry land during winter months; and
- 10 ha of irrigated land during summer months.



Nutrients captured at the dairy shed annually:

- 3,747 kg/yr of Nitrogen
- 707 kg/yr of Phosphorous
- 2,626 kg/yr of Potassium

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