



**SPIRAC**<sup>®</sup>

Conveying Technology

## Project Summary No. PS-4313-AU-SL

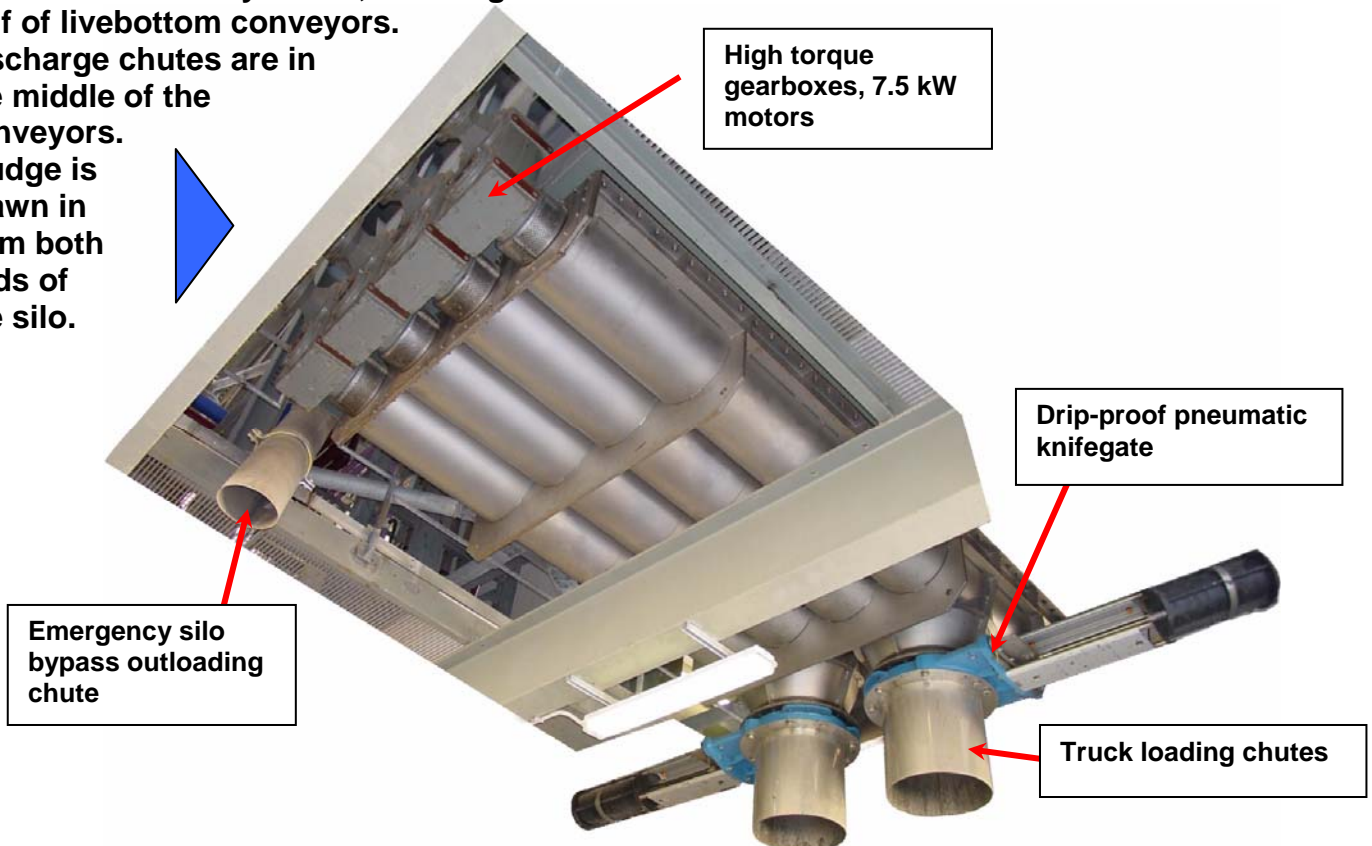
**Beenyup WWTP – Sludge Silo / Outloading system – 2003**  
**150m<sup>3</sup> sludge silo**

### The site:

The Beenyup Wastewater treatment plant is located in Perth, Western Australia. The plant serves a regional population of up to 700,000. The plant underwent a large scale upgrade in 2002/03 and SPIRAC played an integral part in supplying a screening system, a grit washer and a sludge transport, storage and outloading conveying system.



View from truck bay below, showing half of livebottom conveyors. Discharge chutes are in the middle of the conveyors. Sludge is drawn in from both ends of the silo.



**Silo capacity = 150 m<sup>3</sup>**

**Outloading capacity = >150 m<sup>3</sup>/hr of sludge at 18-25% DS**  
**(Fills 2 x 25m<sup>3</sup> trailers in 15 mins)**

### Contact:

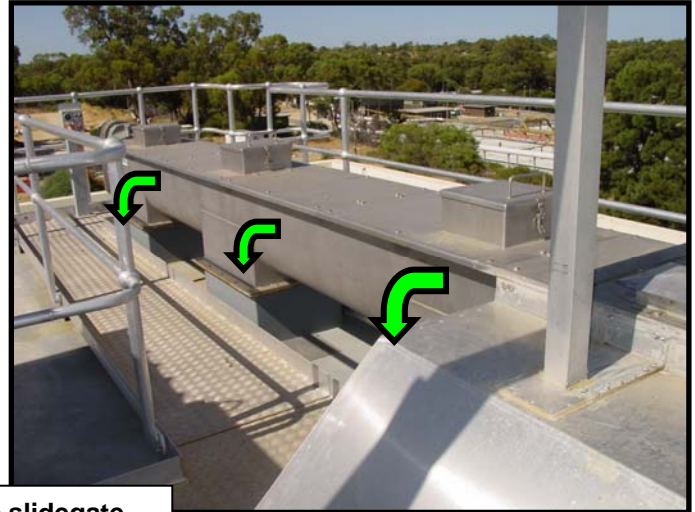
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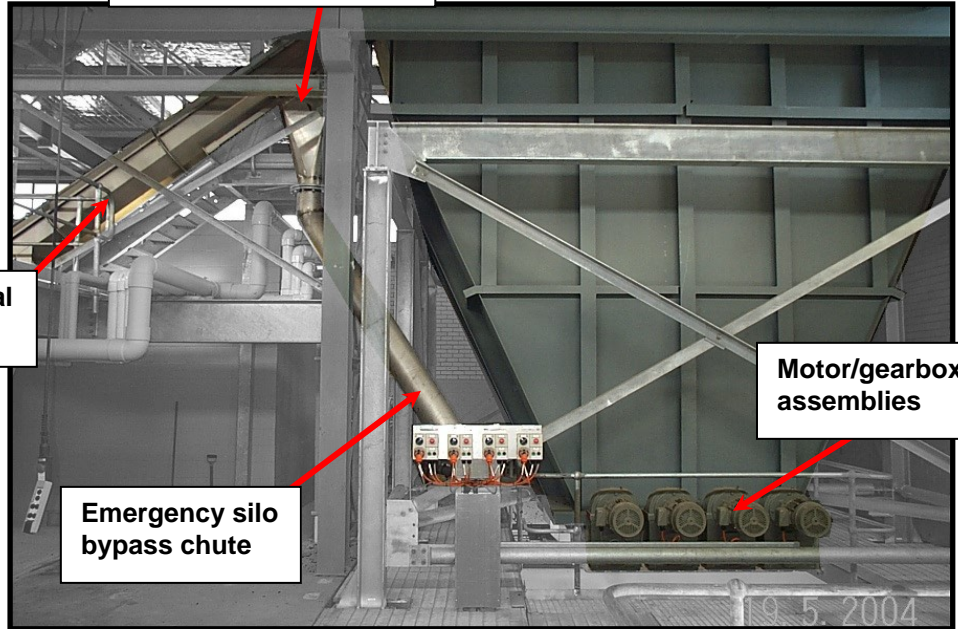
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On top of the silo, distribution conveyor to ensure maximum silo utilization.



Pneumatic slidegate

View above truck loading bay

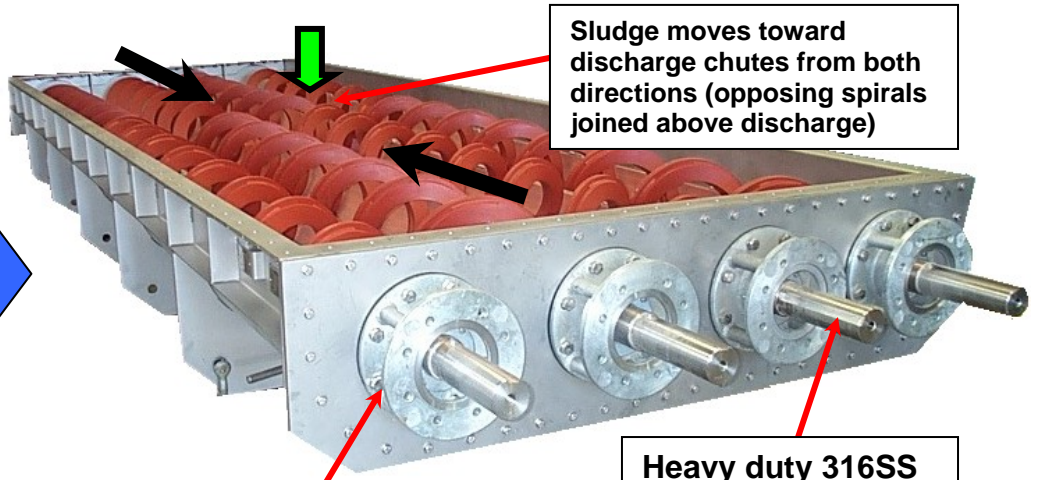


Inclined octagonal (OK) conveyor

Emergency silo bypass chute

Motor/gearbox assemblies

Livebottom assembly in the factory. Outloading chutes are located in the middle of the troughs, with spirals feeding from two directions, to provide maximum outloading capacity at low RPM (high torque).



Sludge moves toward discharge chutes from both directions (opposing spirals joined above discharge)

Bell housings with gland packing leakproof to 10m of water

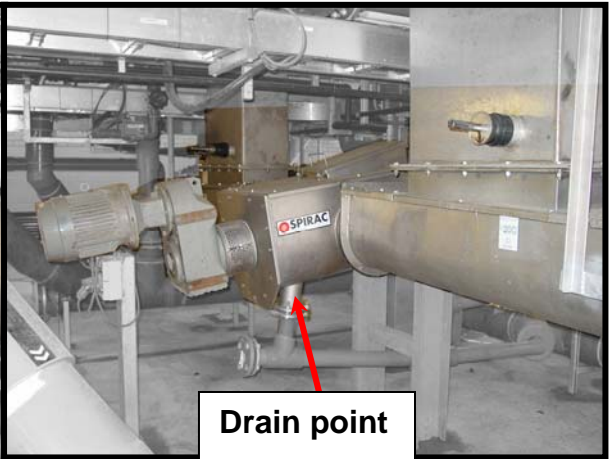
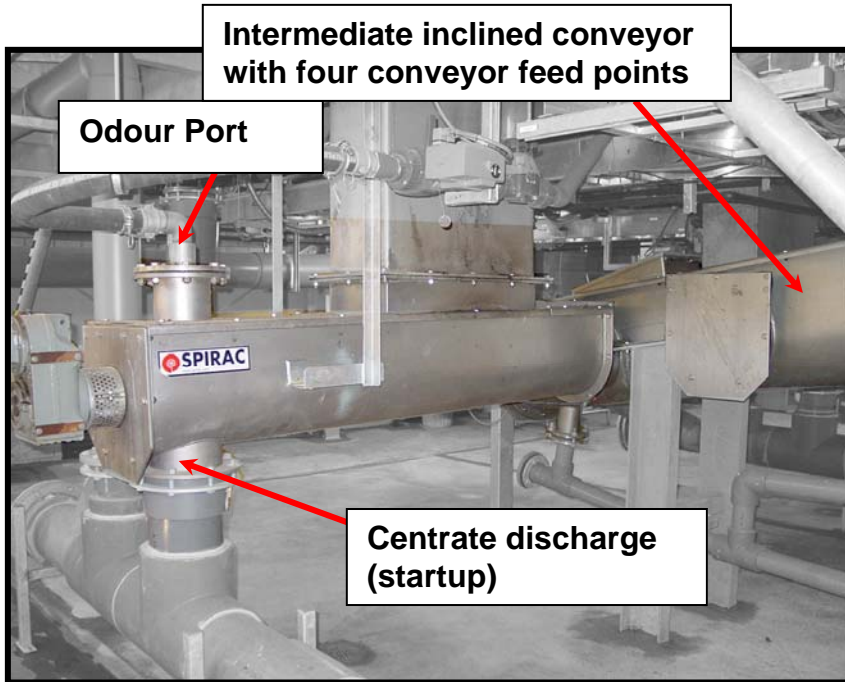
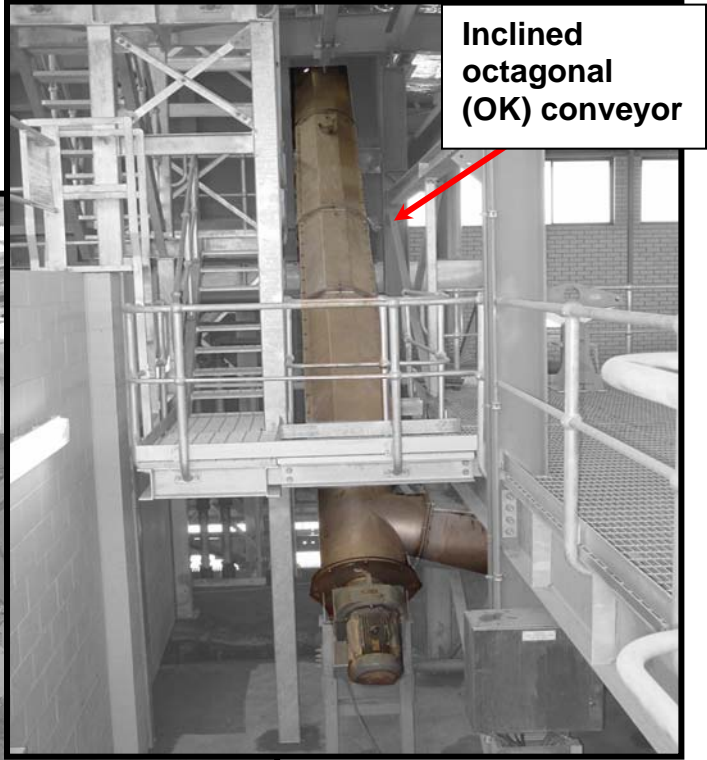
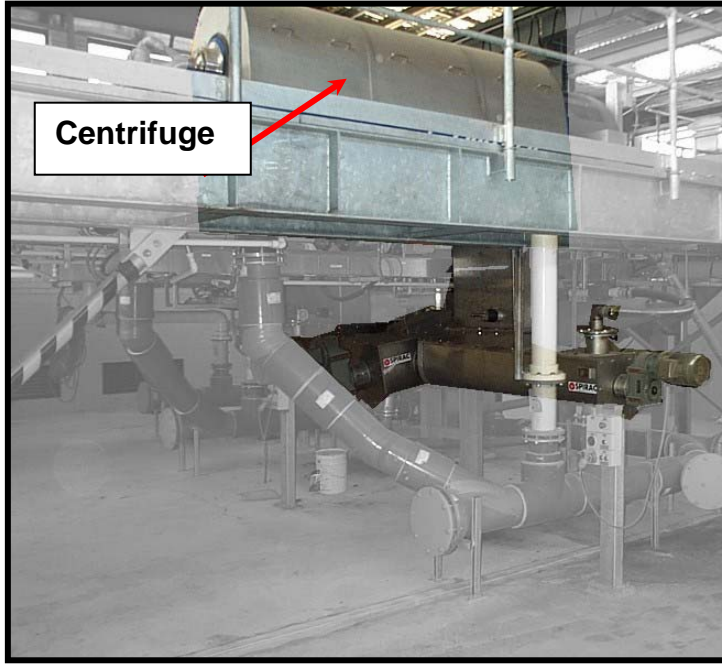
Heavy duty 316SS drive shafts



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Conveyor views below the centrifuge deck



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