

**Case Study RBC**  
**Yara Pilbara Fertilisers**  
**Karratha**  
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ABCO Water Systems was contracted to supply and install a replacement effluent system to provide for the processing plant at Karratha, Western Australia.

The existing individual pump stations were connected to the primary pump station, which pumped the influent to a below ground 19kl balance tank. From here it was pumped to a BL Series RBC wastewater treatment plant. The flow rate was controlled by use of a gravity return line back into the balance tank, thus keeping the primary section of the RBC at a constant level while inflow was available.

Due to current low population at the production plant, two of the bailing buckets were removed to allow maximum time within the plant for biological treatment.

The treated effluent was then discharged by gravity into a pump station where it was pumped to an evaporation pond for disposal.





