

ROADTRAIN® PACKAGED SEWAGE PLANT FOR WUJAL WUJAL COUNCIL

CASE STUDY



THE CLIENT

Wujal Wujal Aboriginal Shire Council is located on the north and south sides of the Bloomfield River in Northern Queensland.

OVERVIEW

The plant is to be protected by a primary settling tank, will provide for primary removal of BOD, suspended solids and TOG.

The biological system consists of a pre-anoxic tank, for nitrate removal, a single RBC unit equipped with 3 internal cascades, for BOD and ammonia oxidation, and a de-oxygenation tank for the removal of residual oxygen from the RBC unit, generating a low oxygen feed for the pre-anoxic tank.

The treated secondary effluent is further polished in a tertiary sand filtration system.



The Roadtrain® treatment system included:

- Mixed Equalisation Tank
- Fine Screening for solids removal
- Pre-Anoxic zone
- Rotating Biological Contactor
- De-oxygenation tank
- Secondary Clarification
- Tertiary Sand Filtration
- Chem P removal
- UV Disinfection
- Sludge Drying Beds
- Controls and HMI

RoadTrain® systems are ideal for remote locations, where a robust process and mechanical design along with minimal operator attendance is required.

Item	Value
Capacity	205 m3/d
Process	RBC Based
BOD Limit	5 mg/L 80%ile
Turbidity	2 NTU
TN Limit	10 mg/L 80%ile
TP Limit	1 mg/L 80%ile
Faecal Coliforms	10 cfu/100mL 80%ile
Year	2006