

TREATMENT

ON-SITE EFFLUENT TREATMENT PLANT

PGG WRIGHTSON TUAKAU SALESYARDS, AUCKLAND
(CARRFIELD LTD)

In June 2016, Kliptank completed a major tank/systems pipe network project for an On-site Effluent Treatment Plant, at PGG Wrightson Tuakau Salesyards, Auckland (Elderstock Ltd) now Carrfields Ltd.

THE SPECIFICATIONS OF THIS TANK ARE:

- ◆ Capacity: 640,000 litre
- ◆ 19.86m diameter
- ◆ 2m high
- ◆ Trussed roof cover
- ◆ KlipJet Patented Oxy aeration and mixing System
- ◆ Odour extraction manifold

The customer needed to collect and treat Salesyards effluent prior to discharging to the council WWTP as trade waste.

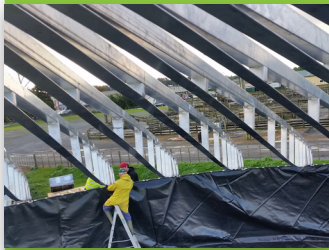
The Kliptank with KlipJet aeration and mixing provides aerobic biological treatment of the effluent reducing the BOD and creating an even TSS profile of the reuse effluent. KlipJets have no moving parts inside the tank. In most cases a standard centrifugal pump can provide the hydrodynamic DP (no compressed air nor blowers required) for optimum health and safety and maintenance.

Following biological treatment in the Kliptank, the effluent is sent to sedimentation chambers where the sludge is settled out. The treated effluent is then discharged as trade waste under the customer's resource consent conditions.

An important requirement is to capture and treat odour due to the customer's proximity to residential and city main street. The odour is collected from the odour extraction system on the Kliptank and sent to a bark filter for further treatment.

CLIENT: PGG Wrightson (Carrfield Ltd)
Tuakau Salesyards
CONSULTANT: Golder Associates
PROJECT MANAGER: Jim Robertson, PGG Wrightson Tuakau Salesyards

The series of photos shows the construction process and the workings of the Kliptank.



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