

# Technical report

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Bell Bay Pulp Mill Project  
Tasmania**

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## **Phosphorous in the Final Effluent of Bell Bay Pulp Mill**

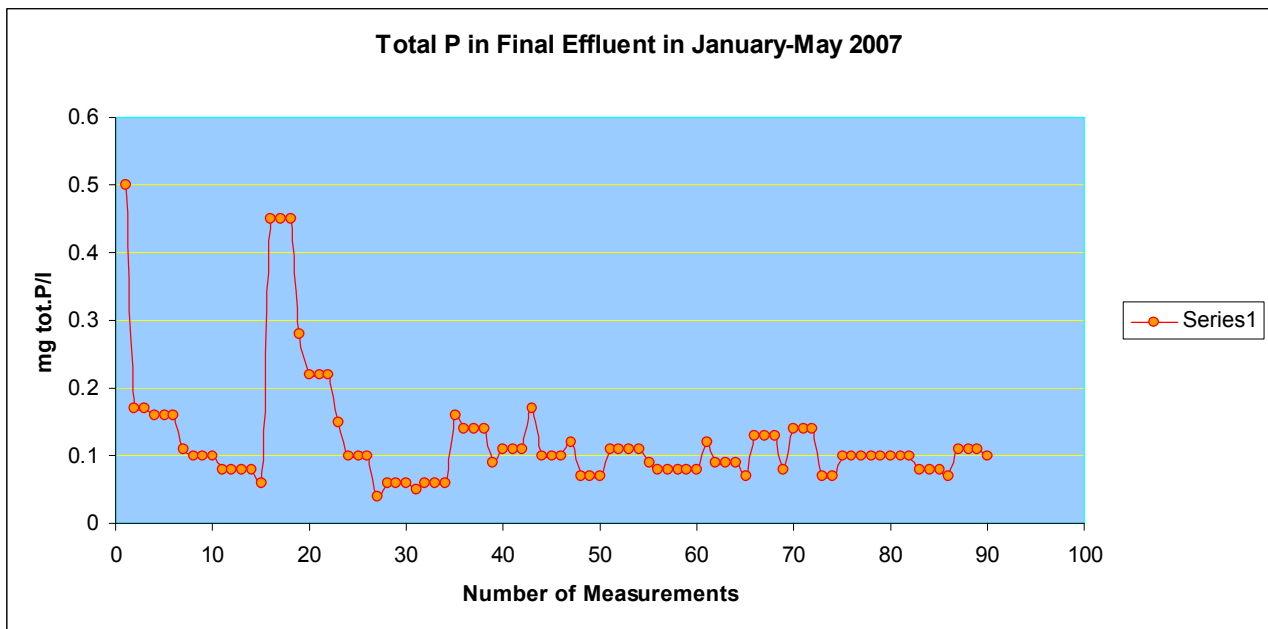
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## 1 GENERAL

The typical total P-concentration in the final effluent is 0.1-0.2 mg P/l. About 1/3 is dissolved inorganic and 2/3 organically bound P (in carryover biomass). The graph below describes the tot-P- concentrations in the final effluent of the Kaukas pulp mill, Finland.



By experience it is known that the total P in oligotrophic waters featuring no algal blooms is  $< 0.01$  mg P/l.

The theoretical total-P increase at the border of the initial mixing zone (dilution factor 500) is  $(0.1 - 0.2)/500 = 0.0002 - 0.0004$  mgP/l. From this analysis it is concluded that there is no potential for the final effluent to cause any algal blooms in the sea.