



POWER TESTING ASSESSMENT REPORT

Report Number : 1622005

COMPANY NAME: **TAYLEX INDUSTRIES PTY LTD**
SITE ADDRESS: 14 Activity Crescent Molendinar Queensland 4214
PHONE: 0755715122
Assessment: Power Usage Clearwater 90 Compact System modified with 24 inch sand filter
Testing Period: 15- 16 February 2005
PREPARED BY: Bruce Smith
REFERENCE DOCUMENTS:
Energex electricity account 12/10/2004
Clipsal Cent-A-Meter User manual

SUMMARY

Taylex requested a verification of the power usage of a Clearwater 90 system fitted with a sand filter. An electricity Monitoring Meter was fitted to the power supply of the unit and the power usage monitored in a household with 5 persons, 4 adults and one child.

The unit is running on a power saving mode with the aeration disc running 40 minutes on and 20 minutes off every hour. The unit has been operating effectively in this power saving mode with good results in BOD and SS removal achieved BOD <6 and SS 4 achieved. However, due to the number of starts every day the motor and control panel may have a reduced life running in this mode.

Accordingly a test was also conducted using the aeration system running full time.

The meter, which gives instantaneous readings for both kWh usage and Cents per hour usage at a given Power cost, was installed by Aspark Technology and monitored by Bruce Smith of Sci-Qual International Pty Ltd a third party Certification Body. Electricity cost used Tariff 11@ 12.4 cents per kWh including GST.

The results show the following:-

Total cost per day under power save mode:- 29.85 cents per day, Power:- 2.394 kWh per day

Total Cost per day under continuous mode:- 50.04 cents per day, Power:- 4.026 kWh per day

Maximum Power used during pump out for 5 minutes:-

Cost:- 0.6417 cents per pump out

Power:- 0.0519 kWh per pump out

A handwritten signature in black ink, appearing to read 'Bruce Smith', written in a cursive style.

Bruce Smith

COMPANY SECRETARY
SCI-QUAL INTERNATIONAL PTY LTD
16 FEBRUARY 2005