



SPORTS TURF  
TECHNOLOGY

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## RE: Intelliweb Trial

**Dear Geoff,**

The trial of the Intelliweb system started on the 24<sup>th</sup> December 2009 at Collier Reserve. The water usage at this site is being compared to Comer Reserve, which is being watered using conventional irrigation scheduling practices.

### **Collier Reserve Irrigation Scheduling**

The instructions were as below:

Watering every day (except Saturday night) for:

45 mins per station on the main field (equivalent to 8mm)

10 mins per station on the verge (equivalent to 6mm)

25 mins per station on the depot lawn (equivalent to 6mm)

The sensor will determine which days to run

On the 13<sup>th</sup> the run time on the main field was altered to:

40 mins per station

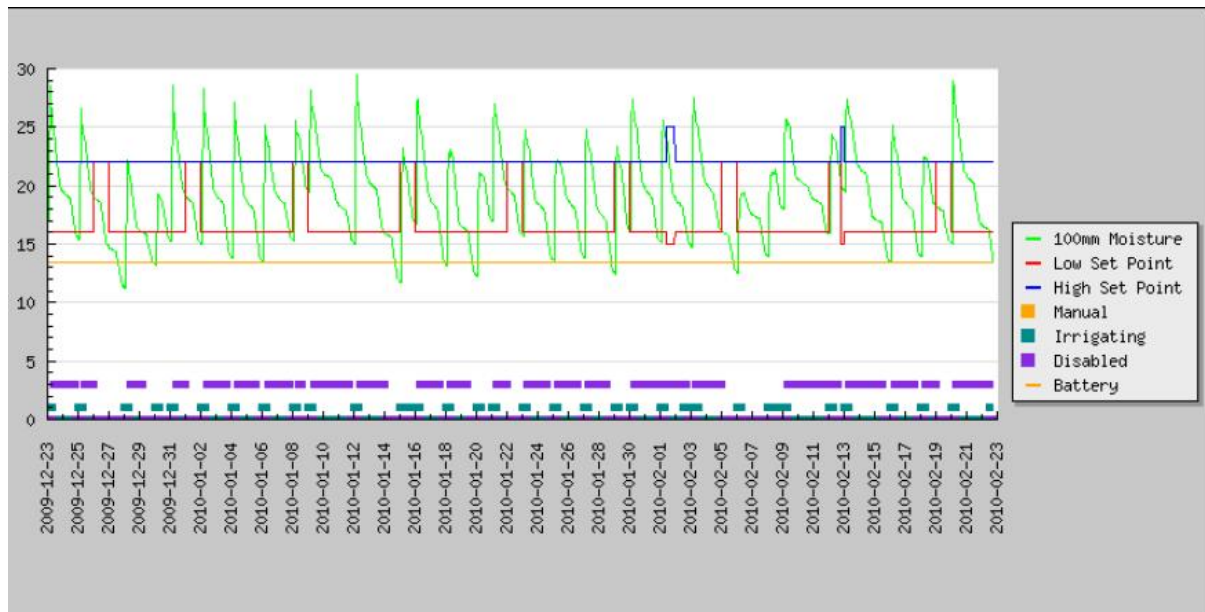
### **Comparison of Water Usage**

Collier Reserve has used approximately 40% less water than Comer Reserve on a volume per hectare basis.

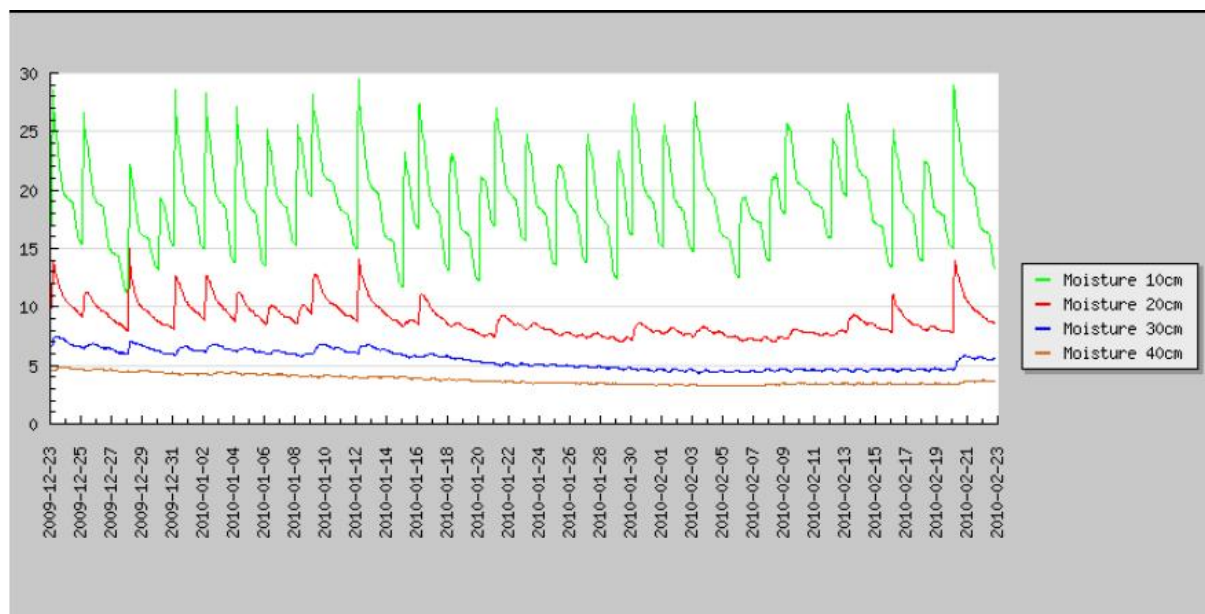
	Irrigated Area (ha)	January Water Usage (kL)	February* Water Usage (kL)	Total Water Used for trial period* (kL)	Water Usage (kL/ ha)
Collier Reserve	2.92	3217.8	1199.6	4417.4	1512.8
Comer Reserve	2.00	3296.0	1743.4	5039.4	2519.7

\*up to about the 18/2/10

The soil moisture content in the surface 10cm at Collier Reserve has been maintained in a tight band between about 14% and 26%.



There has been minimal movement of water to the 300mm depth and no water movement to 40cm. Note the reduction in the size of the spikes at 20cm when the run times were changed from 45 mins to 40 mins on 13<sup>th</sup> January. This demonstrates how valuable the soil moisture data is for fine tuning the irrigation scheduling.



Collier Reserve  
12<sup>th</sup> January 2010

The greener area in the background is an area that was re-turfed with kikuyu back in September 2009



Comer Reserve  
12<sup>th</sup> January 2010



Regards,

Ken Johnston