

Client: Stan and Lindy Donaldson Tall Timbers Recreation Park
 Main Rd Wesburn East Phone:

Sample: Number: Date:
 Location:
 Situation:
 Feature:
 Conditions:
 Application

Summary

The tank water appears to have slightly higher alkalinity and hardness than expected. There was some discolouration but % UV transmission was high enough so that UV disinfection could be effective. Organic load measured as UV absorbance was slightly elevated for tank water. Oxygenation level was within the desirable range and carbon dioxide was not elevated. The water has a small corrosion potential at 20 deg C and pH 7.14.

Total bacteria as aerobic plate count and coliforms were both low but slightly elevated for rainwater tanks.

Physical:

Measurement	Result	Units	Method	Levels	Comments
Conductivity (EC)	231.4	uS/cm	EC meter	moderate	slightly elevated for rain water
Langelier Index	-1.67		Calculated	low	small corrosion potential
ORP	296	mV	REDOX meter	moderate	indicates oxygenation level
pH	7.14		pH meter		
TDS	155	ppm	Calculated		calculated from EC
Turbidity	7	FTU	Absorption	slightly elevated	slightly discoloured yellow
UV transmission	74.6	%	UVT 254 nm	high	minimum for UV disinfection

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Sample Number:

Chemical:

Measurement	Result	Units	Method	Levels	Comments
Bicarbonate	33.2	mg/l	Acid titration		
CO2 (aqueous)	3.3	ppm	Base titration	low	low carbon dioxide
DOC*	7.7	ppm	UVA 254 nm	moderate	slightly elevated for tank water
Hardness total	54	ppm	EDTA / Calmagite	low	slightly elevated for rainwater

Nutrients:

Metals:

Biological:

Measurement	Result	Units	Method	Levels	Comments
Aerobic plate count	8727	CFU's100 ml	Plate count	low	slightly elevated for tanks
Coliforms	680	CFU's100 ml	Chromogenic / enzyme	moderate	similar to protected surface waters
E. coli	0	CFU's100 ml	Chromogenic / enzyme	0	none detected

To help with interpreting your water test report please refer to [www.appslabs.com.au/What do your water test results mean.doc](http://www.appslabs.com.au/What%20do%20your%20water%20test%20results%20mean.doc).

* DOC = Dissolved Organic Carbon. DOC is directly proportional to UVA 254 for most waters. Here it is estimated from UVA at 254 nm based on an approximate relationship derived from published data from a variety of waters.