

Client: Andy Plantowner General Production Nursery  
 Sunset Hwy Broadacres Phone:

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

Summary

The dam water has relatively low salts and low hardness. Sodium and chloride are low and there is no sodium hazard. However both nitrate and phosphate are slightly above normal background levels and therefore may encourage algal growth.

The water is slightly discoloured with turbidity and UV transparency similar to slightly compromised surface waters.

Physical:

Measurement	Result	Units	Method	Levels	Comments
Conductivity (EC)	150.4	uS/cm	EC meter	low	only slightly elevated salts
Hardness total	30.8	ppm	EDTA	low	classified as soft water
Langelier Index	-1.8		Calculated	low	small corrosion potential
ORP	296	mV	REDOX meter	moderate	moderate oxidizing conditions
pH	7.11		pH meter	near neutral	
SAR	2.6		Calculated	low	no sodium hazard
Turbidity	14	FTU	Absorption	moderate	slightly discoloured
UV transmission	63.8	%	UVT 254 nm	low	unsuitable for UV disinfection

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Sample Number:

Chemical:

Measurement	Result	Units	Method	Levels	Comments
Bicarbonate	41.5	mg/l	Acid titration		
Calcium	5.5	mg/l	EGTA	low	
Chloride	22.8	mg/l	Argentometric	low	
CO2 (aq)	5.3	ppm	Base titration	low	carbon dioxide not excessive
DOC*	11.8	ppm	UVA 254 nm	moderate	around average for surface waters
Magnesium	4.1	mg/l	Calculated	low	calculated from calcium and hardness
Sodium	33.5	mg/l	Sodium electrode	low	

Nutrients:

Measurement	Result	Units	Method	Levels	Comments
Nitrate	4.63	mg/l	Cadmium reduction	low	just slightly elevated
Phosphate	0.056	mg/l	Ascorbic acid reduction	low	lower end of problem range

Metals:

Biological:

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.