

GETEX LABORATORY ANALYSIS REPORT - Water Samples from Lake Conjola

Date Samples Taken: 12 Mar 2019

Sample Point	Location Description	GETEX RESULTS						
		Faecal Coliforms (cfu/100ml)	Enterococci (cfu/100ml)	Total Nitrogen (mg/L)	Total Phosphorous (Mg/L)	Chlorophyll a (mg/m3)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)
E-54	Fishermans Paradise Boatramp	<10	30	0.7	<0.05	5	49.5	4.15
E-748	Pattimores Lagoon - off Conley Avenue	<10	50	3.3	0.1	20	37.1	3.11
E-47	Cottee Close, Conjola Pk Drain	<10	40	0.6	<0.05	2	61	5.2
E-40	Opposite Cabin 43 - Deepwater Resort	<10	<10	0.5	<0.05	1	76.4	6.4
E-39	Boat Ramp adjacent Boardwalk	<10	<10	0.5	<0.05	3	79.1	6.71
				0.5	<0.05			
				0.5	0.01			
	Adopted Std (Recreation Contact / Aquatic Systems)	150	35	0.3	0.03	4	80-110	6.7-9.2 (calc)

SUMMARY NOTES

Faecal Coliform Level -	All sites are within Recreational Contact level (eg swimming) of 150 bacteria cfu/100 ml
Enterococci Level-	E748 Pattimores & E47 Conjola Park exceed healthy Recreational Primary Contact limit
Total Nitrogen Level -	All sample points exceed Aquatic Ecosystems level, Pattimores by over 1000%
Total Phosphorous Level -	E748 Pattimores exceeds Aquatic Ecosystems level by 300%
Chlorophyll a Level -	E748 Fishermans Paradise significantly higher than Aquatic Ecosystem level, E54 Fishermans P & E39 Boardwalk Boatramp just under/over Aquatic Ecosystem level
Dissolved Oxygen Level -	Apart from Boardwalk Boatramp, all points are below healthy Aquatic Ecosystem level
GETEX Results v Council Results	<p>Council take samples from 4 of the 5 sample points listed. They do not sample from E47, but do sample from nearby E479 which is further out into the bay off Conjola Park. Council took samples on 13 Mar 19, the day after GETEX, and according to Aquadata the results for all chemicals are similar to GETEX's (inc. the high levels of Nitrogen and Phosphorous). However, according to Aquadata, Council have not tested for Dissolved Oxygen since 2013 so we are unable to do a comparison with GETEX DO results.</p> <p>NB: According to BOM rainfall data, only 0.5mm of rain was recorded in Conjola in the 2 weeks prior to 12 Mar 2019.</p>

GETEX v COUNCIL RESULTS –

Sample Point	GETEX RESULTS							COUNCIL RESULTS				
	Faecal Coliforms (cfu/100ml)	Enterococci (cfu/100ml)	Total Nitrogen (mg/L)	Total Phosphorous (Mg/L)	Chlorophyll a (mg/m3)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Faecal Coliforms	Enterococci	Total Nitrogen (mg/L)	Total Phosphorous (Mg/L)	Chlorophyll a (mg/m3)
E-54	<10	30	0.7	<0.05	5	49.5	4.15	<1	1	0.591	0.043	7
E-748	<10	50	3.3	0.1	20	37.1	3.11	36	10	2.68	0.07	?
E-47	<10	40	0.6	<0.05	2	61	5.2	<1 (E479)	<1 (E479)	0.392 (E479)	0.013(E479)	2 (E479)
E-40	<10	<10	0.5	<0.05	1	76.4	6.4	6	<1	0.46	0.02	<1
E-39	<10	<10	0.5	<0.05	3	79.1	6.71	2	<1	0.47	0.025	<1
			0.5	<0.05								
			0.5	0.01								
Minimum Standard	150	35	0.3	0.03	4	80-110	6.7-9.2 (calc)	150	35	0.3	0.03	4