Trinity Point Marina - Water Quality Monitoring

Month: May-19

Gulf Marina Management

JOHNSON PROPERTY GROUP

Date (Hand held insitu measurements)	Location and time	Temperature (c)	PH	Turbidity (NTU)	DO (%) - 1m depth
	Relevant trigger values[b]		6.5-8.5	20	80-110
1.5.19	A (1) - 9:45am	22.2	7.7	2.4	95.9
	C (3) - 9:56am	22.3	7.7	2.2	86.4
	D (4) - 10:05am	22.6	7.8	3.7	86.5
	B (2) - 10:20am	22.9	7.8	4.1	84.4
Weekly comments	Weather - cloudy, wind calm				
Name of sample collector	J. Gleeson				
10.5.19	A (1) - 10:30am	20.3	7.8	2.3	92.7
	C (3) - 10:42am	19.7	7.8	2.1	87.5
	D (4) - 10:57am	20.0	7.8	2.7	82.9
	B (2) - 11:20am	20.5	7.8	2.6	98.5
Weekly comments	Weather - cloudy, wind calm				
Name of sample collector	J. Gleeson				
17.5.19	A (1) - 3:35pm	22.3	8.26	1.03	87.3
	C (3) - 3:52pm	22.9	8.35	0.98	81.6
	D (4) - 4:05pm	21.3	8.42	1.02	80.4
	B (2) - 4:21pm	22.0	8.43	1.32	81.7
Weekly comments	Weather - clear, water clear				
Name of sample collector	A Chapman				
23.5.19	A (1) - 9:20am	22.5	8.43	2.06	82.25
	C (3) - 9:25am	22.4	8.38	1.09	88.57
	D (4) - 9:30am	23.1	8.42	0.97	87.24
	B (2) - 9:34am	23.7	8.42	0.90	83.69
Weekly comments	Weather - clear, water clear				
Name of sample collector	A Chapman				
30.5.19	A (1) - 9:07am	17.6	7.4	1.44	86.4
	C (3) - 9:12am	17.5	7.66	1.22	83.7
	D (4) - 9:17am	17.5	7.76	1.14	83.8
	B (2) - 9:21am	17.6	7.82	0.85	82.8
Weekly comments	Weather - clear, water clear				
Name of sample collector	A Chapman				
Monthly Maximums		**23.7**	**8.43**	**4.1**	**98.5**
Monthly Minimums		**17.5**	**7.4**	**<1**	**80.4**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	23.5.19	9:05am	not present	not present
Comments	Weather - clear			
Name of inspector	A Chapman			

Monthly

Notes

Results shaded in grey exceed relevant trigger values

[a]Results suspected to be erroneous; possibly affected by faulty sensor or poor calibration not identified

[b]sourced from section L2.4 of the EPL issued to JPG and/or Tables 3.3.2 and 3.3.3 of the ANZECC guidelines

[c]Reference data typically refers to site specific data collected over long periods that can be used to establish appropriate trigger values

[w]represents a wet weather monitoring event

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NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values[a]
Total suspended solids				10[b]
Ammonia as N				-
Total Nitrogen				0.3
Total Phosphorus				0.03
TPH (C6-C36)				-
PAHs				-
Faecal (thermol tolerant) coliforms				-
BTEX (Benzene)				-
BTEX (Toluene)				-
BTEX (Ethylbenzene)				-
BTEX (Total Xylenes)				-
Dissolved metals (Cadmium)				0.0055[d]
Dissolved metals (Cromium)				0.0044[e]
Dissolved metals (Copper)				0.0013
Dissolved metals (Tin)				-
Dissolved metals (Zinc)				0.015[d]
Comments	see April laboratory testing			
Name of sample collector				

10 times per year until March 2021 (2014 CEMP)

Notes

Shaded results indicate exceedence of 95% ANZECC trigger value(s) and/or value is 20% greater than that of background sites

Dashes (-) indicate applicable data is not provided in ANZECC guidelines (2000)

[a]Values sourced from table 3.3.2 of ANZECC guidelines (2000) unless otherwise stated; only 95% trigger values are represented

[b]Sourced from table 4.4.2 of ANZECC guidelines (2000)

[c]Species for which possible bioaccumulation and secondary poisoning effects should be considered

[d]Figure may not protect key test species from chronic toxicity

[a]Value given specifically for Cr(IV)

[f]Analyte corresponds tp "Total Phosphorus" referred to in ANZECC guidelines (2000)

[g]Elevated measurement is unlikely to be related to construction activities

[w]represents a wet weather monitoring event