Trinity Point Marina - Water Quality Monitoring

Month: Jun-19

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
11.6.19	A (1) - 8:22	18.7	7.74	2.4	89.0
	C (3) - 8:38	18.5	7.82	0.9	93.1
	D (4) - 8:48	19.4	7.83	0.9	104.0
	B (2) - 8:50	19.3	7.82	1.2	107.2
Weekly comments	Weather - clear, water clear - Monthly analysis testing provided by RCA				
Name of sample collector	L Schofield - RCA				
18.6.19	A (1) - 9:15	17.8	8.12	1.23	87.3
	C (3) - 9:18	18.0	8.10	1.07	85.3
	D (4) - 9:22	18.4	8.11	0.98	84.9
	B (2) - 9:27	18.4	8.11	1.10	82.5
Weekly comments	Weather - clear, water clear - Day after rain event [w]				
Name of sample collector	A. Chapman				
25.6.19	A (1) - 3:44	17.6	8.13	0.91	99.5
	C (3) - 3:48	17.6	8.12	1.00	96.6
	D (4) - 3:52	17.9	8.08	1.56	93.0
	B (2) - 3:58	18.0	8.10	1.96	91.6
Weekly comments	Weather - showers, water clear - Day after rain event [w]				
Name of sample collector	A. Chapman				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**19.4**	**8.13**	**2.4**	**107.2**
Monthly Minimums		**17.6**	**7.74**	**<1**	**82.5**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	25.6.19	3:35pm	not present	not present
Comments	Weather - showers			
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

Trinity Point Marina - Water Quality Monitoring

Month: Jun-19

NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values[a]
Total suspended solids (mg/L)	11.6.19	<5	<5	10[b]
Ammonia as N (mg/L)	11.6.19	0.03	<0.01	-
Total Nitrogen as N (mg/L)	11.6.19	<1.0	<1.0	0.3
Total Phosphorus as P (mg/L)	11.6.19	<0.10	<0.10	0.03
TPH (C6-C36) (µg/L)	11.6.19	<50	<50	-
PAHs (µg/L)	11.6.19	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	11.6.19	18	324	-
BTEX (Benzene) (µg/L)	11.6.19	<1	<1	-
BTEX (Toluene) (µg/L)	11.6.19	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	11.6.19	<2	<2	-
BTEX (Total Xylenes) (µg/L)	11.6.19	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	11.6.19	<0.0010	<0.0010	0.0055[d]
Dissolved metals (Cromium) (mg/L)	11.6.19	<0.010	<0.010	0.0044[e]
Dissolved metals (Copper) (mg/L)	11.6.19	<0.010	<0.010	0.0013
Dissolved metals (Tin) (mg/L)	11.6.19	<0.010	<0.010	-
Dissolved metals (Zinc) (mg/L)	11.6.19	<0.050	<0.050	0.015[d]
Comments	RCA ref 14302-701/Water/0			
Name of sample collector	L. Schofield			

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