Trinity Point Marina - Water Quality Monitoring

Month: Dec-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
5/12/2019	A (1) - 11:01	23.7	7.71	3.03	109
	C (3) - 11:06	23.6	8.12	3.03	98.1
	D (4) - 11:09	23.8	8.14	1.82	85.8
	B (2) - 11:13	24.0	8.10	1.81	103
Weekly comments	Fine weather				
Name of sample collector	Gary				
10/12/2019	A (1) - 8:35	25.5	7.89	7.6	95
	C (3) - 8:47	26.7	8.02	5.4	94.8
	D (4) - 9:01	25.8	8.02	2.1	97.5
	B (2) - 9:14	26.9	8.05	4.6	94
Weekly comments	Weather - fine - Monthly analysis testing provided by RCA				
Name of sample collector	L. Schofield				
19/12/2019	A (1) - 9:17	26.0	8.12	3.53	84.2
	C (3) - 9:22	26.5	8.12	1.58	87.2
	D (4) - 9:25	26.7	8.11	2.4	84.3
	B (2) - 9:30	26.9	8.11	2.34	82.7
Weekly comments	Fine weather				
Name of sample collector	A. Chapman				
26/12/2019	A (1) - 7:00	26.1	8.16	2.24	78.9
	C (3) - 7:06	26.2	8.12	3.09	82.7
	D (4) - 7:14	26.3	8.15	3.01	83.1
	B (2) - 7:22	26.5	8.12	2.51	80.3
Weekly comments	Fine weather				
Name of sample collector	A Chapman				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**26.9**	**7.71**	**7.6**	**109**
Monthly Minimums		**24.0**	**8.16**	**1.58**	**78.9**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	26/12/2019	6:40am	None	None
Comments				
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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Month: Dec-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)	10.12.19	81	95	10[b]
Ammonia as N (mg/L)	10.12.19	<0.1	<0.1	-
Total Nitrogen as N (mg/L)	10.12.19	<1.0	<1.0	0.3
Total Phosphorus as P (mg/L)	10.12.19	<0.1	<0.1	0.03
TPH (C6-C36) (µg/L)	10.12.19	<50	<50	-
PAHs (µg/L)	10.12.19	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	10.12.19	1	12	-
BTEX (Benzene) (µg/L)	10.12.19	<1	<1	-
BTEX (Toluene) (µg/L)	10.12.19	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	10.12.19	<2	<2	-
BTEX (Total Xylenes) (µg/L)	10.12.19	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	10.12.19	<0.0010	<0.0010	0.0055[d]
Dissolved metals (Cromium) (mg/L)	10.12.19	<0.010	<0.010	0.0044[e]
Dissolved metals (Copper) (mg/L)	10.12.19	<0.010	<0.010	0.0013
Dissolved metals (Tin) (mg/L)	10.12.19	<0.010	<0.010	-
Dissolved metals (Zinc) (mg/L)	10.12.19	<0.050	<0.050	0.015[d]
Comments	RCA ref 14302-711/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