Trinity Point Marina - Water Quality Monitoring

Month: Jun-20

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
3.6.20	A (1) - 0931	16.6	8.05	1.58	83.7
	C (3) - 0935	16.6	8.14	1.57	85.4
	D (4) - 0937	16.7	8.14	1.41	84.3
	B (2) - 0940	16.7	8.13	2.68	83.3
Weekly comments	weather - fine				
Name of sample collector	G.Day				
11.6.20	A (1) - 1547	16.7	8.16	1.3	104.8
	C (3) - 1551	16.8	8.16	2.66	99.1
	D (4) - 1553	17.1	8.14	1.59	98.8
	B (2) - 1557	17.2	8.15	1.51	99.5
Weekly comments	weather - fine following rain day				
Name of sample collector	A.Chapman				
16.6.20	A (1) - 0849	16.5	7.98	<1	108
	C (3) - 0853	16.3	8.04	<1	99.8
	D (4) - 0858	16.5	8.05	<1	86.3
	B (2) - 0901	17.3	8.02	<1	88.1
Weekly comments	weather - fine				
Name of sample collector	A.Chapman + RCA representitive				
25.6.20	A (1) - 0918	17.1	8.14	1.19	82.1
	C (3) - 0920	17.1	8.12	1.47	86.4
	D (4) - 0924	17.3	8.11	1.48	87.6
	B (2) - 0927	17.4	8.05	1.34	84.2
Weekly comments	weather - fine				
Name of sample collector	A.Chapman + G.Day				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**17.4**	**8.16**	**2.68**	**108**
Monthly Minimums		**16.3**	**7.98**	**<1**	**82.1**

Weekly monitoring testing for duration of EPA licence 20631

Other	**Date**	**Time**	**Location E (5)**	**Location F (6)**
Oil and grease visual inspection	3.6.20	1600	None	None
Comments	No hydrocarbon leak evident			
Name of inspector	G.Day			

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 (mg/L)	16.6.20	<5	<5	10[b]
Ammonia as N (mg/L)	16.6.20	<0.10	0.09	-
Total Nitrogen as N (mg/L)	16.6.20	0.315	0.313	0.3
Total Phosphorus as P (mg/L)	16.6.20	0.003	0.002	0.03
TPH (C6-C36) (µg/L)	16.6.20	<50	<50	-
PAHs (µg/L)	16.6.20	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	16.6.20	5	2	-
BTEX (Benzene) (µg/L)	16.6.20	<1	<1	-
BTEX (Toluene) (µg/L)	16.6.20	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	16.6.20	<2	<2	-
BTEX (Total Xylenes) (µg/L)	16.6.20	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	16.6.20	<0.0002	<0.0002	0.0055[d]
Dissolved metals (Cromium) (mg/L)	16.6.20	<0.0005	<0.0005	0.0044[e]
Dissolved metals (Copper) (mg/L)	16.6.20	0.001	<0.001	0.0013
Dissolved metals (Tin) (mg/L)	16.6.20	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	16.6.20	<0.005	<0.005	0.015[d]
Comments	RCA ref 14302-716/0			
Name of sample collector	S.King			

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