

Trinity Point Marina - Water Quality Monitoring



Month:

Sep-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
2.9.2020	A (1) - 0925	16.9	7.99	0.46	88.9
	C (3) - 0928	17	8.01	2.59	88.8
	D (4) - 0930	17.1	8.04	2.36	91.7
	B (2) -	17.6	8.07	2.54	88.1
Weekly comments	weather - fine				
Name of sample collector		A Champan & G.Day			

11.9.2020	A (1) - 0735	18.4	8.15	2.66	90.5
	C (3) - 0739	18.4	8.12	2.65	90.6
	D (4) - 0742	18.5	8.12	2.51	91.1
	B (2) - 0745	18.4	8.1	3.15	86.5
Weekly comments	weather - fine anfter rain				
Name of sample collector		A Champan			

16.9.2020	A (1) - 0930	20.33	7.92	<1	96
	C (3) - 0936	20.11	7.94	<1	93.6
	D (4) - 0942	20.51	7.92	<1	87
	B (2) - 0946	20.5	7.92	<1	89
Weekly comments	weather - fine & calm				
Name of sample collector		G.Day + RCA representative - S King			

21.9.2020	A (1) - 1010	21.5	8.15	2.62	93.2
	C (3) - 1015	22.1	8.16	1.88	88.9
	D (4) - 1027	21.5	8.17	2.13	92.4
	B (2) - 1030	22.4	8.11	2.13	87.6
Weekly comments	weather - fine				
Name of sample collector		G.Day			

30.9.2020	A (1) - 1140	20.2	8.16	2.41	86.9
	C (3) - 1212	20	8.12	2.57	92.4
	D (4) - 1215	21	8.17	2.59	94
	B (2) - 1219	21	8.17	2.40	94.3
Weekly comments	weather - overcast				
Name of sample collector		G.Day			

Monthly Maximums	22.4	8.17	3.15	94.3
Monthly Minimums	16.9	7.92	<1	86.5

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	16.9.2020	910	None	None
Comments	Nil observed, all ok			
Name of inspector		G.Day		

Notes

Results shaded in grey exceed relevant trigger values

^aResults suspected to be erroneous; possibly affected by faulty sensor or poor calibration not identified

^bsourced from section L2.4 of the EPL issued to JPG and/or Tables 3.3.2 and 3.3.3 of the ANZECC guidelines

^cReference data typically refers to site specific data collected over long periods that can be used to establish appropriate trigger values

^wrepresents a wet weather monitoring event

Weekly monitoring testing for duration of EPA licence 20631

Monthly

Trinity Point Marina - Water Quality Monitoring

Month:

Sep-20



NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values ^a
Total suspended solids (mg/L)	16.9.20	6	7	10 ^b
Ammonia as N (mg/L)	16.9.20	<0.005	<0.005	-
Total Nitrogen as N (mg/L)	16.9.20	0.134	0.116	0.3
Total Phosphorus as P (mg/L)	16.9.20	0.002	0.003	0.03
TPH (C6-C36) (µg/L)	16.9.20	<50	<50	-
PAHs (µg/L)	16.9.20	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	16.9.20	~360	40	-
BTEX (Benzene) (µg/L)	16.9.20	<1	<1	-
BTEX (Toluene) (µg/L)	16.9.20	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	16.9.20	<2	<2	-
BTEX (Total Xylenes) (µg/L)	16.9.20	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	16.9.20	<0.0002	<0.0002	0.0055 ^d
Dissolved metals (Cromium) (mg/L)	16.9.20	<0.0005	<0.0005	0.0044 ^e
Dissolved metals (Copper) (mg/L)	16.9.20	0.002	0.002	0.0013
Dissolved metals (Tin) (mg/L)	16.9.20	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	16.9.20	<0.005	<0.005	0.015 ^d
Comments	RCA ref 14302-720/0			
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 to "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