Trinity Point Marina - Water Quality Monitoring

Month: Feb-21

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
2.2.21	A (1) - 0927	24.6	8.17	1.48	78.6
	C (3) - 0930	26.1	8.13	2.25	80
	D (4) - 0934	25.9	8.16	1.38	80.6
	B (2) - 0938	26.2	8.11	1.85	74.3
Weekly comments	After rain event				
Name of sample collector	A Champan & G.Day				
10.2.21	A (1) - 0928	26.1	8.18	2.53	78.6
	C (3) - 0931	26	8.2	2.69	77.8
	D (4) - 0934	26.2	8.15	2.15	77.8
	B (2) - 0936	26.2	8.13	4.32	74.6
Weekly comments	Weather - raining				
Name of sample collector	A Champan & G.Day				
17.2.21	A (1) - 0750	24.8	7.96	6.6	87.4
	C (3) - 0755	24.3	8.07	5.4	87.1
	D (4) - 0801	24.8	8.03	4.8	81.2
	B (2) - 0804	25.0	8.04	4.7	81.8
Weekly comments	After three days of rain - blue sky				
Name of sample collector	A Chapman + RCA representitive - S King				
26.2.21	A (1) - 0737	24.4	8.15	2.94	74.5
	C (3) - 0740	24.7	8.17	1.63	80.3
	D (4) - 0743	25.2	8.17	1.68	83.1
	B (2) - 0747	25.1	8.14	1.53	76.1
Weekly comments	Weather - calm after week of rain and wind				
Name of sample collector	A Champan				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**26.2**	**8.18**	**6.6**	**87.4**
Monthly Minimums		**24.3**	**7.96**	**1.38**	**74.3**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	2.2.21	915	Nil	Nil
Comments	No visible signs			
Name of inspector	A Champan			

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)	17.2.21	<5	<5	10[b]
Ammonia as N (mg/L)	17.2.21	<0.010	<0.010	-
Total Nitrogen as N (mg/L)	17.2.21	0.22	0.209	0.3
Total Phosphorus as P (mg/L)	17.2.21	0.004	0.004	0.03
TPH (C6-C36) (µg/L)	17.2.21	<50	<50	-
PAHs (µg/L)	17.2.21	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	17.2.21	10	14	-
BTEX (Benzene) (µg/L)	17.2.21	<1	<1	-
BTEX (Toluene) (µg/L)	17.2.21	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	17.2.21	<2	<2	-
BTEX (Total Xylenes) (µg/L)	17.2.21	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	17.2.21	<0.0002	<0.0002	0.0055[d]
Dissolved metals (Cromium) (mg/L)	17.2.21	<0.0005	<0.0005	0.0044[e]
Dissolved metals (Copper) (mg/L)	17.2.21	0.001	<0.001	0.0013
Dissolved metals (Tin) (mg/L)	17.2.21	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	17.2.21	<0.005	<0.005	0.015[d]
Comments	RCA ref 14302-725/0			
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