Trinity Point Marina - Water Quality Monitoring

Month: Jun-22

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
3/06/2022	A (1) - 0915	17.9	7.89	3.1	89.3
	C (3) - 0922	17	7.88	2.4	84.7
	D (4) - 0927	17.7	7.87	1.7	82
	B (2) - 0932	17.5	7.87	1.7	82.7
Weekly comments	Weather; sunny, still and 30% cloud cover				
Name of sample collector	G. Day + RCA representitive - Laura				
10/06/2022	A (1) - 1021	14.9	8.04	1.43	105.1
	C (3) - 1026	14.8	8.11	1.34	99.3
	D (4) - 1030	14.8	8.12	<1	99.2
	B (2) - 1035	14.9	8.11	<1	93
Weekly comments	Weather; sunny with breeze from west				
Name of sample collector	S. Luker & S.Diamond				
15/06/2022	A (1) - 1040	15	8.08	<1	101
	C (3) - 1050	15.2	8.09	<1	100
	D (4) - 1054	15.8	8.08	<1	99.2
	B (2) - 1058	16	8.08	<1	99
Weekly comments	Weather; sunny and still				
Name of sample collector	S. Luker				
22/06/2022	A (1) - 1023	16.3	7.81	2.2	87
	C (3) - 1036	16	7.87	1.5	87.3
	D (4) - 1042	16.7	7.9	1.7	82.1
	B (2) - 1047	17.1	7.91	1.1	86.9
Weekly comments	Weather; clear, sunny light wind				
Name of sample collector	S. Luker + RCA representitive - S. King				
28/06/2022	A (1) - 1227	16.2	7.92	1.11	98.4
	C (3) - 1232	16.1	7.99	1.27	98.9
	D (4) - 1236	16	8.01	1.19	98.7
	B (2) - 1241	16.1	8.02	<1	96.2
Weekly comments	Weather; fine				
Name of sample collector	G. Day				
Monthly Maximums		**17.9**	**8.12**	**3.1**	**105.1**
Monthly Minimums		**14.8**	**7.87**	**<1**	**82**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	22/06/2022	1220	Nil	Nil
Comments	No visable signs			
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)	22.6.22	6	5	10b
Ammonia as N (mg/L)	22.6.22	<0.005	<0.005	-
Total Nitrogen as N (mg/L)	22.6.22	0.152	0.136	0.3
Total Phosphorus as P (mg/L)	22.6.22	0.003	0.003	0.03
TPH (C6-C36) (µg/L)	22.6.22	<50	<50	-
PAHs (µg/L)	22.6.22	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	22.6.22	<1	<1	-
BTEX (Benzene) (µg/L)	22.6.22	<1	<1	-
BTEX (Toluene) (µg/L)	22.6.22	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	22.6.22	<2	<2	-
BTEX (Total Xylenes) (µg/L)	22.6.22	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	22.6.22	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	22.6.22	0.0005	0.0006	0.0044e
Dissolved metals (Copper) (mg/L)	22.6.22	0.001	<0.001	0.0013
Dissolved metals (Tin) (mg/L)	22.6.22	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	22.6.22	0.019	0.016	0.015d
Comments	RCA ref 14302-741/0			
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