Trinity Point Marina - Water Quality Monitoring

Month: Jul-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
4.7.22	A (1) - 1230	17.5	8.02	17.43	105.5
	C (3) - 1245	17.6	7.81	18.45	97.6
	D (4) - 1300	17.6	7.91	12.93	98.2
	B (2) - 1315	17.3	7.89	8.79	96.6
Weekly comments	Weather; sunny with no breeze - Heavy rain on previous days				
Name of sample collector	S. Diamond				
13.7.22	A (1) - 1008	14.9	7.88	2.12	97
	C (3) - 1013	15.1	7.88	2.64	96.7
	D (4) - 1017	15.6	7.84	2.85	97.8
	B (2) - 1020	15.7	7.82	2.33	90.2
Weekly comments	Weather; sunny with NE breeze				
Name of sample collector	S. Luker & S.Diamond				
18.7.22	A (1) - 0924	14.9	8.01	1.57	96.9
	C (3) - 0930	15	8.03	1.07	99.6
	D (4) - 0935	16.3	7.98	1.72	97.4
	B (2) - 0939	15.3	7.98	1.78	98.2
Weekly comments	Weather; sunny				
Name of sample collector	S. Luker & S.Diamond				
28.7.22	A (1) - 0912	15.2	8.21	5.5	89.1
	C (3) - 0918	15.1	8.18	5.3	81
	D (4) - 0921	15.3	8.17	5.1	91.3
	B (2) - 0927	15.2	8.19	4.9	82.4
Weekly comments	Weather; sunny with light breeze				
Name of sample collector	G. Day + RCA representitive - S. King				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					

Weekly monitoring testing for duration of EPA licence 20631

Monthly Maximums	**17.6**	**8.21**	**18.45**	**105.5**
Monthly Minimums	**14.9**	**7.82**	**1.07**	**81**

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	28.7.22	0900	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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Month: Jul-22

NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values[a]
Total suspended solids (mg/L)	28.7.22	7	5	10b
Ammonia as N (mg/L)	28.7.22	<0.1	<0.1	-
Total Nitrogen as N (mg/L)	28.7.22	<0.5	<0.5	0.3
Total Phosphorus as P (mg/L)	28.7.22	0.01	0.01	0.03
TPH (C6-C36) (µg/L)	28.7.22	<50	<50	-
PAHs (µg/L)	28.7.22	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	28.7.22	<1	<1	-
BTEX (Benzene) (µg/L)	28.7.22	<1	<1	-
BTEX (Toluene) (µg/L)	28.7.22	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	28.7.22	<2	<2	-
BTEX (Total Xylenes) (µg/L)	28.7.22	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	28.7.22	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	28.7.22	<0.0005	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	28.7.22	0.002	0.001	0.0013
Dissolved metals (Tin) (mg/L)	28.7.22	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	28.7.22	0.023	0.012	0.015d
Comments	RCA ref 14302-743/0			
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