

Trinity Point Marina - Water Quality Monitoring



Month:

May-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
4/05/2022	A (1) - 1030	22	8	1.15	75.3
	C (3) - 1035	22.3	8.1	<1	84.7
	D (4) - 1039	23.2	8.1	1.55	80.9
	B (2) - 1042	23.2	8.1	1.56	80.3
Weekly comments	Weather; sunny, light wind				
Name of sample collector		S. Luker & K. Johnson			

11/05/2022	A (1) - 1121	20.1	7.84	equip error ^a	75.4 ^a
	C (3) - 1127	20.4	8.01	equip error ^a	70.8 ^a
	D (4) - 1130	20.5	7.76	equip error ^a	69 ^a
	B (2) - 1135	20.5	7.86	equip error ^a	68.5 ^a
Weekly comments	Turbidity not reading - error				
Name of sample collector		S. Luker & K. Johnson			

18/05/2022	A (1) - 0923	20.1	7.92	equip error ^a	66.8 ^a
	C (3) - 0926	20.3	7.76	equip error ^a	69.3 ^a
	D (4) - 0929	20.1	7.63	equip error ^a	68.6 ^a
	B (2) - 0931	20.5	7.75	equip error ^a	66.8 ^a
Weekly comments	Turbidity not reading - error (equipment sent for calibration on post testing)				
Name of sample collector		S. Diamond & K. Johnson			

26/05/2022	A (1) - 1304	20.63	7.85	1.4	99.8
	C (3) - 1312	20.4	7.88	2.9	98.9
	D (4) - 1318	21.13	7.75	2.8	92.1
	B (2) - 1323	21.86	7.72	1.3	82.1
Weekly comments					
Name of sample collector		G. Day + RCA representative - S King			

	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					

Monthly Maximums	23.2	8.1	2.9	99.8
Monthly Minimums	20.1	7.72	<1	66.8 ^a

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	26/05/2022	1300	Nil	Nil
Comments	No visible signs			
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

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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)	26/05/2022	5	<5	10b
Ammonia as N (mg/L)	26/05/2022	0.05	0.05	-
Total Nitrogen as N (mg/L)	26/05/2022	0.194	0.247	0.3
Total Phosphorus as P (mg/L)	26/05/2022	0.008	0.007	0.03
TPH (C6-C36) (µg/L)	26/05/2022	<50	<50	-
PAHs (µg/L)	26/05/2022	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	26/05/2022	6	29	-
BTEX (Benzene) (µg/L)	26/05/2022	<1	<1	-
BTEX (Toluene) (µg/L)	26/05/2022	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	26/05/2022	<2	<2	-
BTEX (Total Xylenes) (µg/L)	26/05/2022	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	26/05/2022	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	26/05/2022	<0.0005	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	26/05/2022	0.001	0.001	0.0013
Dissolved metals (Tin) (mg/L)	26/05/2022	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	26/05/2022	0.013	0.013	0.015d
Comments	RCA ref 14302-740/0			
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