

Trinity Point Marina - Water Quality Monitoring



Month:

Jan-24

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
3/01/2024	A (1) - 0915	26.5	8.09	2.78	93
	C (3) - 0930	26.4	8.11	3	89.1
	D (4) - 0945	26.5	8.11	3.06	95.9
	B (2) - 1000	26.8	8.12	3.9	95.3
Weekly comments	Weather; Sunny day				
Name of sample collector		S. Diamond			

9/01/2024	A (1) - 1130	26.8	8.16	16.5	93.4
	C (3) - 1134	27.1	8.12	17.1	90.8
	D (4) - 1141	27.3	8.11	14.9	90
	B (2) - 1145	27.3	8.15	14.3	91.7
Weekly comments	Weather; Overcast				
Name of sample collector		S. Luker & RCA representative - S. King			

17/01/2024	A (1) - 1000	27.1	8.09	3.55	99
	C (3) - 1015	27.1	8.11	3.21	94.2
	D (4) - 1030	27.2	8.12	4.39	94.2
	B (2) - 1045	27.2	8.1	4.65	90.1
Weekly comments	Weather; Sunny with Northerly breeze				
Name of sample collector		S. Diamond			

24/01/2024	A (1) - 0933	27.6	8.14	3.62	97.8
	C (3) - 0936	27.8	8.1	4.4	94.6
	D (4) - 0939	27.7	8.18	4.03	97.7
	B (2) - 0946	27.6	8.15	4.49	95.9
Weekly comments	Weather; Sunny with minimal wind				
Name of sample collector		S. Diamond			

31/01/2024	A (1) - 1012	28.9	8.12	3.7	94.3
	C (3) - 1016	29.2	8.09	2.71	95.6
	D (4) - 1021	30.1	8.11	3.08	95
	B (2) - 1027	30.2	8.11	3.35	92.2
Weekly comments	Weather; Overcast with slight breeze				
Name of sample collector		S. Diamond			

Monthly Maximums	30.2	8.16	17.1	99
Monthly Minimums	26.4	8.09	2.71	89.1

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	24/01/2024	0955	Nil	Nil
Comments	No visible signs			
Name of inspector		S. Diamond		

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 for

^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)	9/01/2024	<5	<5	10b
Ammonia as N (mg/L)	9/01/2024	0.18	0.11	-
Total Nitrogen as N (mg/L)	9/01/2024	0.237	0.208	0.3
Total Phosphorus as P (mg/L)	9/01/2024	0.005	0.006	0.03
TPH (C6-C36) (µg/L)	9/01/2024	<100	<100	-
PAHs (µg/L)	9/01/2024	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	9/01/2024	~8	~2	-
BTEX (Benzene) (µg/L)	9/01/2024	<1	<1	-
BTEX (Toluene) (µg/L)	9/01/2024	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	9/01/2024	<2	<2	-
BTEX (Total Xylenes) (µg/L)	9/01/2024	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	9/01/2024	0.0002	0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	9/01/2024	0.0007	0.0006	0.0044e
Dissolved metals (Copper) (mg/L)	9/01/2024	0.001	0.001	0.0013
Dissolved metals (Tin) (mg/L)	9/01/2024	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	9/01/2024	0.019	0.019	0.015d
Comments	RCA ref 14302-758/0			
Name of sample collector		RCA representative - S. King		

10 times per year until March 2024 (2015 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