

Trinity Point Marina - Water Quality Monitoring



Month:

Feb-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
2.2.22	A (1) - 1435	31	8.24	2.2	91.3
	C (3) - 1440	30.8	8.26	2.95	94
	D (4) - 1445	31	8.25	2.04	95
	B (2) - 1450	30.4	8.26	2.2	94.7
Weekly comments	Weather; sunny day				
Name of sample collector		G.Day			

9.2.22	A (1) - 1400	26.2	8.27	3.09	92.7
	C (3) - 1405	26.2	8.35	3.38	99.5
	D (4) - 1410	26.2	8.32	2.39	100
	B (2) - 1415	26.4	8.29	2.62	99.8
Weekly comments	Weather; sunny day, NE breeze				
Name of sample collector		S. Diamond & K. Johnson			

16.2.22	A (1) - 1430	28.1	8.26	3.62	88
	C (3) - 1434	27.5	8.33	2.77	85.5
	D (4) - 1441	27.2	8.3	2.29	89.7
	B (2) - 1445	28.3	8.31	2	90
Weekly comments	Weather; sunny day, NE breeze				
Name of sample collector		S. Diamond & K. Johnson			

24.2.22	A (1) - 0924	27.3	7.91	15.2	92.1
	C (3) - 0931	27.4	7.95	13.6	87.6
	D (4) - 0933	27.4	7.97	15.2	88.2
	B (2) - 0938	27.3	7.95	13.3	89.3
Weekly comments	Weather; rainy, overcast				
Name of sample collector		S.Luker + RCA representative - S King			

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

Monthly Maximums	31.0	8.35	15.2	100
Monthly Minimums	26.2	7.91	2.0	85.5

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	24.2.22	920	Nil	Nil
Comments	No visible signs			
Name of inspector		S. Diamond		

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

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)	24.02.22	<5	<5	10b
Ammonia as N (mg/L)	24.02.22	0.03	<0.02	-
Total Nitrogen as N (mg/L)	24.02.22	0.102	0.092	0.3
Total Phosphorus as P (mg/L)	24.02.22	0.003	0.006	0.03
TPH (C6-C36) (µg/L)	24.02.22	<50	<50	-
PAHs (µg/L)	24.02.22	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	24.02.22	2	2	-
BTEX (Benzene) (µg/L)	24.02.22	<1	<1	-
BTEX (Toluene) (µg/L)	24.02.22	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	24.02.22	<2	<2	-
BTEX (Total Xylenes) (µg/L)	24.02.22	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	24.02.22	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	24.02.22	<0.0005	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	24.02.22	0.001	0.001	0.0013
Dissolved metals (Tin) (mg/L)	24.02.22	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	24.02.22	<0.005	<0.005	0.015d
Comments	RCA ref 14302-737/0			
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
^e 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