

Trinity Point Marina - Water Quality Monitoring



Month:

Sep-19

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
3.9.19	A (1) - 9;25	17.6	8.35	2.34	96.2
	C (3) - 9;30	17.6	8.34	3.17	90.3
	D (4) - 9;35	17.5	8.30	2.35	91.5
	B (2) - 9;40	17.5	8.23	2.38	91.4
Weekly comments	Weather - clear, water mirky				
Name of sample collector		C. Healy			

9.9.19	A (1) - 9;20	17.4	8.13	2.7	104.0
	C (3) - 9;29	17.4	8.11	5.6	102.1
	D (4) - 9;39	17.3	8.13	14.2	104.0
	B (2) - 9;44	17.5	8.13	10.7	102.7
Weekly comments	Weather - clear, water choppy & murky - Monthly analysis testing provided by RCA				
Name of sample collector		L. Schofield			

20.9.19	A (1) - 11:06	18.7	8.48	1.97	107.6
	C (3) - 11::10	18.6	8.33	2.14	107.2
	D (4) - 11:14	19.3	8.21	2.22	97.3
	B (2) - 11:16	19.3	8.04	2.47	94.6
Weekly comments	Weather - clear & windy, water murky and choppy - Post rain event				
Name of sample collector		A. Chapman			

24.9.19	A (1) - 14:16	20.9	8.12	<1	92.1
	C (3) - 14:30	20.4	8.13	<1	93.5
	D (4) - 14:35	20.3	8.13	1.07	91.2
	B (2) - 14:38	20.5	8.12	<1	91
Weekly comments	Weather - clear, water clear				
Name of sample collector		A. Chapman			

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

Monthly Maximums	20.9	8.48	14.2	107.6
Monthly Minimums	17.3	8.04	<1	91

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	24.9.19	16:35	None	None
Comments				
Name of inspector		A. Chapman		

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

Trinity Point Marina - Water Quality Monitoring



Gulf Marina
Management



Month:

Sep-19

NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values ^a
Total suspended solids (mg/L)	9.9.19	<5	<5	10 ^b
Ammonia as N (mg/L)	9.9.19	<0.05	<0.05	-
Total Nitrogen as N (mg/L)	9.9.19	<0.5	0.8	0.3
Total Phosphorus as P (mg/L)	9.9.19	<0.05	<0.05	0.03
TPH (C6-C36) (µg/L)	9.9.19	<50	<50	-
PAHs (µg/L)	9.9.19	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	9.9.19	1	<1	-
BTEX (Benzene) (µg/L)	9.9.19	<1	<1	-
BTEX (Toluene) (µg/L)	9.9.19	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	9.9.19	<2	<2	-
BTEX (Total Xylenes) (µg/L)	9.9.19	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	9.9.19	<0.0010	<0.0010	0.0055 ^d
Dissolved metals (Cromium) (mg/L)	9.9.19	<0.010	<0.010	0.0044 ^e
Dissolved metals (Copper) (mg/L)	9.9.19	<0.010	<0.010	0.0013
Dissolved metals (Tin) (mg/L)	9.9.19	<0.010	<0.010	-
Dissolved metals (Zinc) (mg/L)	9.9.19	<0.050	<0.050	0.015 ^d
Comments	RCA ref 14302-704/Water/0			
Name of sample collector	L. Schofield			

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)

^aValues sourced from table 3.3.2 of ANZECC guidelines (2000) unless otherwise stated; only 95% trigger values are represented

^bSourced from table 4.4.2 of ANZECC guidelines (2000)

^cSpecies for which possible bioaccumulation and secondary poisoning effects should be considered

^dFigure may not protect key test species from chronic toxicity

^eValue given specifically for Cr(IV)

^fAnalyte corresponds to "Total Phosphorus" referred to in ANZECC guidelines (2000)

^gElevated measurement is unlikely to be related to construction activities

^wrepresents a wet weather monitoring event