Trinity Point Marina - Water Quality Monitoring

Month: Jul-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
2.7.19	A (1) - 9:09	17.6	9.93	<1	105
	C (3) - 9:21	17.8	8.03	8.6	97
	D (4) - 9:32	17.9	8.06	7.5	98
	B (2) - 9:36	17.9	8.06	9.9	98
Weekly comments	Weather - clear, water clear - Monthly analysis testing provided by RCA				
Name of sample collector	L. Schofield				
11.7.19	A (1) - 9:13	16.7	8.12	2.28	86.9
	C (3) - 9:17	16.7	8.13	3.21	88.4
	D (4) - 9:21	16.5	8.18	1.47	86.8
	B (2) - 9:24	16.7	8.10	2.26	83.9
Weekly comments	Weather - clear but windy, water choppy				
Name of sample collector	A. Chapman				
16.7.19	A (1) - 9:02	14.5	8.12	1.98	90.8
	C (3) - 9:07	14.5	8.15	1.29	84.6
	D (4) - 9:12	14.4	8.18	1.13	84.0
	B (2) - 9:17	14.6	8.14	1.79	83.1
Weekly comments	Weather - clear, water clear				
Name of sample collector	C. Healy				
25.7.19	A (1) - 3:25	17.8	8.09	1.19	99
	C (3) - 3:30	17.5	8.05	1.27	94.2
	D (4) - 3:34	17.5	8.05	1.42	92.9
	B (2) - 3.37	17.9	8.05	1.46	92.6
Weekly comments	Weather - clear, water clear				
Name of sample collector	A. Chapman				
30.7.19	A (1) - 9:12	18.1	8.00	<1	94.5
	C (3) - 9:16	18.1	8.00	1.05	98.1
	D (4) - 9:19	18.2	8.20	<1	91.5
	B (2) - 9:22	18.1	8.00	1.07	89.6
Weekly comments	Weather - showers, water clear				
Name of sample collector	A. Chapman				
Monthly Maximums		**17.9**	**9.93**	**9.9**	**105**
Monthly Minimums		**14.4**	**8.03**	**<1**	**83.1**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	30.7.19	8:50	not present	not present
Comments				
Name of inspector	A. Chapman			

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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NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values[a]
Total suspended solids (mg/L)	2.7.19	<5	<5	10[b]
Ammonia as N (mg/L)	2.7.19	<0.05	<0.05	-
Total Nitrogen as N (mg/L)	2.7.19	<0.5	<0.5	0.3
Total Phosphorus as P (mg/L)	2.7.19	<0.05	<0.05	0.03
TPH (C6-C36) (µg/L)	2.7.19	<50	<50	-
PAHs (µg/L)	2.7.19	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	2.7.19	1	<1	-
BTEX (Benzene) (µg/L)	2.7.19	<1	<1	-
BTEX (Toluene) (µg/L)	2.7.19	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	2.7.19	<2	<2	-
BTEX (Total Xylenes) (µg/L)	2.7.19	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	2.7.19	<0.0010	<0.0010	0.0055[d]
Dissolved metals (Cromium) (mg/L)	2.7.19	<0.010	<0.010	0.0044[e]
Dissolved metals (Copper) (mg/L)	2.7.19	<0.010	<0.010	0.0013
Dissolved metals (Tin) (mg/L)	2.7.19	<0.010	<0.010	-
Dissolved metals (Zinc) (mg/L)	2.7.19	<0.050	<0.050	0.015[d]
Comments	RCA ref 14302-702/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)

[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