Trinity Point Marina - Water Quality Monitoring

Month: Jan-21

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
7.1.21	A (1) - 1010	24.9	8.15	7.1	79.6
	C (3) - 1013	25.1	8.11	4.35	82.8
	D (4) - 1017	25.1	8.12	3.6	83.9
	B (2) - 1021	25.2	8.00	3.6	79.6
Weekly comments	Overcast and windy				
Name of sample collector	A Champan & G.Day				
15.1.21	A (1) - 1029	27.8	8.17	2.05	79.8
	C (3) - 1032	28.4	8.21	2.3	85.3
	D (4) - 1034	28.5	8.2	1.51	86.7
	B (2) - 1036	28.6	8.18	1.47	83.6
Weekly comments	Overcast and calm				
Name of sample collector	A Champan & G.Day				
20.1.21	A (1) - 0909	26.3	7.2	17.1	62
	C (3) - 0912	26.5	7.25	18.5	64.4
	D (4) - 0917	26.4	7.23	16.8	64.7
	B (2) - 0921	26.5	7.27	16.6	68.4
Weekly comments	Overcast light wind				
Name of sample collector	G.Day + RCA representitive - S King				
27.1.21	A (1) - 0822	28.2	8.14	3.75	77.1
	C (3) - 0825	28.2	8.14	4.4	86.2
	D (4) - 0828	28.7	8.15	4.06	84.4
	B (2) - 0831	29.4	8.11	3.5	76.6
Weekly comments	Overcast strong wind - storm approaching				
Name of sample collector	A Champan & G.Day				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**29.4**	**8.21**	**18.5**	**86.7**
Monthly Minimums		**24.9**	**7.2**	**1.47**	**62**

Weekly monitoring testing for duration of EPA licence 20631

Other	**Date**	**Time**	**Location E (5)**	**Location F (6)**
Oil and grease visual inspection	7.1.21	930	Nil	Nil
Comments	No visible signs			
Name of inspector	G Day			

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)	20.1.21	<5	<5	10[b]
Ammonia as N (mg/L)	20.1.21	<0.005	<0.005	-
Total Nitrogen as N (mg/L)	20.1.21	0.25	0.251	0.3
Total Phosphorus as P (mg/L)	20.1.21	<0.001	<0.001	0.03
TPH (C6-C36) (µg/L)	20.1.21	<50	<50	-
PAHs (µg/L)	20.1.21	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	20.1.21	3	2	-
BTEX (Benzene) (µg/L)	20.1.21	<1	<1	-
BTEX (Toluene) (µg/L)	20.1.21	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	20.1.21	<2	<2	-
BTEX (Total Xylenes) (µg/L)	20.1.21	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	20.1.21	0.0002	<0.0002	0.0055[d]
Dissolved metals (Cromium) (mg/L)	20.1.21	<0.0005	<0.0005	0.0044[e]
Dissolved metals (Copper) (mg/L)	20.1.21	0.001	0.001	0.0013
Dissolved metals (Tin) (mg/L)	20.1.21	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	20.1.21	<0.005	<0.005	0.015[d]
Comments	RCA ref 14302-724/0			
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 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