Trinity Point Marina - Water Quality Monitoring

Month: Apr-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
8/04/2021	A (1) - 1300	25.2	8.48	1.89	92.5
	C (3) - 1306	25	8.49	2.22	94.4
	D (4) - 1310	25	8.49	2.47	88.8
	B (2) - 1314	25.2	8.44	2.63	93.6
Weekly comments	Overcast Light SE				
Name of sample collector	Garry Day / Scott Diamond				
16/04/2021	A (1) - 1102	21.6	8.33	1.53	93.9
	C (3) - 1107	21.9	8.34	1.74	99.1
	D (4) - 1111	22.1	8.28	1.81	97.7
	B (2) - 1115	22	8.34	1.48	96.4
Weekly comments	Fine weather				
Name of sample collector	Scott Diamond				
20/04/2021	A (1) - 9.10	20	7.89	1.8	82.2
	C (3) - 9.19	19.9	7.96	2	81.1
	D (4) - 9.25	20.1	8	1.7	79.5
	B (2) - 9.30	20.1	7.95	1.9	83
Weekly comments	Sunny Day				
Name of sample collector	Scott Diamond				
28/04/2021	A (1) - 9.30	21.5	8.44	1.63	85.3
	C (3) - 9.39	21.3	8.44	1.75	89.9
	D (4) - 9.46	21.3	8.46	1.47	90.9
	B (2) - 9.50	21.4	8.45	1.76	90.9
Weekly comments	No breeze - Sunny Day				
Name of sample collector	Scott Diamond + RCA representitive - S King				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**25.2**	**8.49**	**2.63**	**99.1**
Monthly Minimums		**19.9**	**7.89**	**1.47**	**79.5**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	16/04/2021	9:10am	Nil	Nil
Comments	No visible signs			
Name of inspector	Garry 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)	20/04/2021	<5	<5	10[b]
Ammonia as N (mg/L)	20/04/2021	0.015	0.016	-
Total Nitrogen as N (mg/L)	20/04/2021	0.251	0.223	0.3
Total Phosphorus as P (mg/L)	20/04/2021	<0.001	<0.001	0.03
TPH (C6-C36) (µg/L)	20/04/2021	<50	<50	-
PAHs (µg/L)	20/04/2021	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	20/04/2021	2	1	-
BTEX (Benzene) (µg/L)	20/04/2021	<1	<1	-
BTEX (Toluene) (µg/L)	20/04/2021	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	20/04/2021	<2	<2	-
BTEX (Total Xylenes) (µg/L)	20/04/2021	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	20/04/2021	<0.0002	<0.0002	0.0055[d]
Dissolved metals (Cromium) (mg/L)	20/04/2021	<0.0005	<0.0005	0.0044[e]
Dissolved metals (Copper) (mg/L)	20/04/2021	0.002	0.002	0.0013
Dissolved metals (Tin) (mg/L)	20/04/2021	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	20/04/2021	<0.005	<0.005	0.015[d]
Comments	RCA ref 14302-726/0			
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