Trinity Point Marina - Water Quality Monitoring

Month: Jul-24

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
3/07/2024	A (1) - 1216	16.9	8.08	14.3	92.9
	C (3) - 1220	16.6	8.08	19.2	90.8
	D (4) - 1225	17.6	8.05	13.3	105.3
	B (2) - 1230	17.7	8.06	13.2	90.7
Weekly comments	Weather; Rainy day with southerly wind				
Name of sample collector	K. Wieland & M. Louis				
10/07/2024	A (1) - 1020	16.5	8.12	2.3	97.5
	C (3) - 1025	16.7	8.13	2.3	93.7
	D (4) - 1030	17.1	8.13	3.2	92
	B (2) - 1035	16.5	8.13	1.9	93
.	Weather; Sunny NW winds				
Name of sample collector	M. Louis & M Hamonet				
17/07/2024	A (1) - 0910	14.9	7.92	7	92.9
	C (3) - 0923	15.3	8.00	5.1	85.3
	D (4) - 0926	15.6	7.99	5.5	84.7
	B (2) - 0917	15.3	7.95	6.3	88.4
Weekly comments	Weather; Sunny NW winds				
Name of sample collector	RCA representitive - S. King & M. Louis				
24/07/2024	A (1) - 0910	15.5	8.15	1.2	96
	C (3) - 0915	15.9	8.16	1.3	94
	D (4) - 0920	16	8.19	1.6	93.6
	B (2) - 0925	15.7	8.11	1.8	91.8
Weekly comments	Weather; Sunny NW winds				
Name of sample collector	M. Louis & M Hamonet				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**17.7**	**8.19**	**19.2**	**105.3**
Monthly Minimums		**14.9**	**7.92**	**1.2**	**84.7**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	17/07/2024	0938	Nil	Nil
Comments	No visible signs			
Name of inspector	S. King & M. Louis			

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 for

[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)	17/07/2024	18	<5	10b
Ammonia as N (mg/L)	17/07/2024	0.11	0.11	-
Total Nitrogen as N (mg/L)	17/07/2024	0.1	0.2	0.3
Total Phosphorus as P (mg/L)	17/07/2024	<0.05	<0.05	0.03
TPH (C6-C36) (µg/L)	17/07/2024	<50	<50	-
PAHs (µg/L)	17/07/2024	<0.1	<0.1	-
Thermotolerant coliforms (cfu/100mL)	17/07/2024	~4	~3	-
BTEX (Benzene) (µg/L)	17/07/2024	<1	<1	-
BTEX (Toluene) (µg/L)	17/07/2024	<1	<1	-
BTEX (Ethylbenzene) (µg/L)	17/07/2024	<1	<1	-
BTEX (Total Xylenes) (µg/L)	17/07/2024	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	17/07/2024	0.0001	<0.0001	0.0055d
Dissolved metals (Cromium) (mg/L)	17/07/2024	<0.001	<0.001	0.0044e
Dissolved metals (Copper) (mg/L)	17/07/2024	<0.001	<0.001	0.0013
Dissolved metals (Tin) (mg/L)	17/07/2024	0.004	0.004	-
Dissolved metals (Zinc) (mg/L)	17/07/2024	0.015	0.023	0.015d
Comments	RCA ref 14302-763/0			
Name of sample collector	RCA representitive - S. King			

10 times per year until March 2024 (2015 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