Trinity Point Marina - Water Quality Monitoring

Month: Apr-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
3/04/2024	A (1) - 0900	23.2	8.22	4.2	84.2
	C (3) - 0905	24.8	8.07	4.19	88.6
	D (4) - 0910	24.9	7.81	4.73	88.7
	B (2) - 0915	24.7	7.75	4.32	84.7
Weekly comments	Weather; Fine with NE wind - after rain event				
Name of sample collector	K. Wieland				
10/04/2024	A (1) - 0920	23.3	8.46	5.44	83.1
	C (3) - 0925	23.8	8.34	4.16	82.8
	D (4) - 0930	23.3	8.17	3.43	87.3
	B (2) - 0935	23.4	8.09	3.74	86.6
Weekly comments	Weather; Cold wind from south				
Name of sample collector	K. Wieland				
17/04/2024	A (1) - 1120	24.5	8.43	3.04	86.7
	C (3) - 1125	24.7	8.07	2.13	83.5
	D (4) - 1130	24.8	8.07	2.4	81.4
	B (2) - 1135	24.8	8.05	2.52	75.5
Weekly comments	Weather; Partly cloudy with North wind				
Name of sample collector	K. Wieland				
22/04/2024	A (1) - 1008	22.1	7.9	18	100.2
	C (3) - 1011	21.9	7.92	19.4	92.8
	D (4) - 1014	21.9	7.91	18.1	91
	B (2) - 1018	22.4	7.9	17.5	88.1
Weekly comments	Weather; Fine after heavy rainfall event				
Name of sample collector	R Wilson & RCA representitive S King				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums					
Monthly Minimums					

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	17/04/2024	1145	Nil	Nil
Comments	No visible signs			
Name of inspector	K. Wieland			

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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Month: Apr-24

NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values[a]
Total suspended solids (mg/L)	22/04/2024	9	7	10b
Ammonia as N (mg/L)	22/04/2024	0.046	0.024	-
Total Nitrogen as N (mg/L)	22/04/2024	0.3	0.3	0.3
Total Phosphorus as P (mg/L)	22/04/2024	0.05	0.05	0.03
TPH (C6-C36) (µg/L)	22/04/2024	<50	<50	-
PAHs (µg/L)	22/04/2024	<0.1	<0.1	-
Thermotolerant coliforms (cfu/100mL)	22/04/2024	4100	790	-
BTEX (Benzene) (µg/L)	22/04/2024	<1	<1	-
BTEX (Toluene) (µg/L)	22/04/2024	<1	<1	-
BTEX (Ethylbenzene) (µg/L)	22/04/2024	<1	<1	-
BTEX (Total Xylenes) (µg/L)	22/04/2024	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	22/04/2024	<0.0001	<0.0001	0.0055d
Dissolved metals (Cromium) (mg/L)	22/04/2024	<0.001	<0.001	0.0044e
Dissolved metals (Copper) (mg/L)	22/04/2024	0.001	0.001	0.0013
Dissolved metals (Tin) (mg/L)	22/04/2024	<0.001	<0.001	-
Dissolved metals (Zinc) (mg/L)	22/04/2024	0.034	0.023	0.015d
Comments	RCA ref 14302-760/0			
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