

Trinity Point Marina - Water Quality Monitoring



Month: May-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
1/05/2024	A (1) - 1000	19.5	7.66	16.5	96.4
	C (3) - 1005	19	7.29	17.1	98.2
	D (4) - 1015	18.9	8.1	17.3	100.1
	B (2) - 1025	19	8.1	17.8	97.1
Weekly comments	Weather; Fine after rain event				
Name of sample collector	K. Wieland & K. Louis				

7/05/2024	A (1) - 1120	19.5	8.09	25.5 ^a	102.5
	C (3) - 1125	18.5	7.66	24.5 ^a	96.2
	D (4) - 1130	18.9	7.42	34.1 ^a	98.3
	B (2) - 1138	19	7.29	38.1 ^a	96.8
Weekly comments	Weather; No rain in morning, after heavy rainfall all week				
Name of sample collector	R. Wilson & K. Louis				

15/05/2024	A (1) - 1020	18.4	8.1	17.1	98.1
	C (3) - 1025	18.2	8	16.5	96.4
	D (4) - 1030	18.1	8	17.6	97.1
	B (2) - 1035	18.4	8.1	16.2	96.2
Weekly comments	Weather; Drizzle of rain				
Name of sample collector	J. Thompson & K. Louis				

22/05/2024	A (1) - 1020	18.4	8.03	14.69	91.4
	C (3) - 1030	18.5	8.06	12.46	97.1
	D (4) - 1035	18.6	8	11.75	92.4
	B (2) - 1045	18.8	8.03	12.5	88.9
Weekly comments	Weather; Sunny with no wind				
Name of sample collector	K. Wieland & K. Louis				

27/05/2024	A (1) - 1246	21.5	8.04	<1	93.3
	C (3) - 1257	22	8.04	<1	91.3
	D (4) - 1305	22	8.05	<1	89.3
	B (2) - 1253	21.2	8.05	<1	92.8
Weekly comments	Weather; Fine				
Name of sample collector	RCA representative T. Bailey				

Monthly Maximums	22.0	8.1	38.1 ^a	102.5
Monthly Minimums	18.1	7.29	<1	88.9

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	7/05/2024	1145	Nil	Nil
Comments	No visible signs			
Name of inspector	K. Wieland			

Notes

Results shaded in grey exceed relevant trigger values

^aResults suspected to be erroneous; possibly affected by faulty sensor or poor calibration not identified

^bSourced from section L2.4 of the EPL issued to JPG and/or Tables 3.3.2 and 3.3.3 of the ANZECC guidelines

^cReference data typically refers to site specific data collected over long periods that can be used to establish appropriate trigger values for

^wrepresents a wet weather monitoring event

Weekly monitoring testing for duration of EPA licence 20631

Monthly

Trinity Point Marina - Water Quality Monitoring



Month:

May-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)	27/05/2024	13	18	10b
Ammonia as N (mg/L)	27/05/2024	0.15	0.12	-
Total Nitrogen as N (mg/L)	27/05/2024	0.2	0.2	0.3
Total Phosphorus as P (mg/L)	27/05/2024	<0.05	<0.05	0.03
TPH (C6-C36) (µg/L)	27/05/2024	<50	<50	-
PAHs (µg/L)	27/05/2024	<0.1	<0.1	-
Thermotolerant coliforms (cfu/100mL)	27/05/2024	34	70	-
BTEX (Benzene) (µg/L)	27/05/2024	<1	<1	-
BTEX (Toluene) (µg/L)	27/05/2024	<1	<1	-
BTEX (Ethylbenzene) (µg/L)	27/05/2024	<1	<1	-
BTEX (Total Xylenes) (µg/L)	27/05/2024	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	27/05/2024	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	27/05/2024	<0.002	<0.002	0.0044e
Dissolved metals (Copper) (mg/L)	27/05/2024	<0.002	<0.002	0.0013
Dissolved metals (Tin) (mg/L)	27/05/2024	<0.002	<0.002	-
Dissolved metals (Zinc) (mg/L)	27/05/2024	0.006	0.002	0.015d
Comments	RCA ref 14302-761/0, Note heavy rainfalls during May			
Name of sample collector	RCA representative - T. Bailey			

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)

^aValues sourced from table 3.3.2 of ANZECC guidelines (2000) unless otherwise stated; only 95% trigger values are represented

^bSourced from table 4.4.2 of ANZECC guidelines (2000)

^cSpecies for which possible bioaccumulation and secondary poisoning effects should be considered

^dFigure may not protect key test species from chronic toxicity

^eValue given specifically for Cr(IV)

^fAnalyte corresponds to "Total Phosphorus" referred to in ANZECC guidelines (2000)

^gElevated measurement is unlikely to be related to construction activities

^wrepresents a wet weather monitoring event