Trinity Point Marina - Water Quality Monitoring

Month: Oct-23

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
4/10/2023	A (1) - 0922	23.7	8.11	2.87	101.1
	C (3) - 0927	23.7	8.11	2.82	96.6
	D (4) - 0931	23.9	8.15	2.47	99.3
	B (2) - 0934	23.9	8.11	2.42	98.7
Weekly comments	Weather; Fine				
Name of sample collector	S.Diamond				
11/10/2023	A (1) - 1030	23.6	7.96	2.09	99.8
	C (3) - 1040	23.6	8.02	1.91	97.4
	D (4) - 1050	23.7	7.99	1.9	100.5
	B (2) - 1100	24.2	7.99	2.24	101.8
Weekly comments	Weather; Sunny with westerly breeze				
Name of sample collector	S.Diamond				
20/10/2023	A (1) - 0900	22.4	8.09	2.85	96.5
	C (3) - 0910	22.4	8.06	2.63	98.4
	D (4) - 0920	23.8	8.1	3.88	98.1
	B (2) - 0930	23.6	8.11	3.19	97.9
Weekly comments	Weather; Fine				
Name of sample collector	S.Diamond				
25/10/2023	A (1) - 0935	24.4	7.95	3.01	99.4
	C (3) - 0939	24.6	7.98	2.78	100.5
	D (4) - 0946	24.8	7.99	2.88	99.2
	B (2) - 0950	25.3	7.95	2.57	89.2
Weekly comments	Weather; Sunny and breezy				
Name of sample collector	S.Diamond				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					

Weekly monitoring testing for duration of EPA licence 20631

Monthly Maximums	**25.3**	**8.15**	**3.88**	**101.8**
Monthly Minimums	**22.4**	**7.95**	**1.9**	**89.2**

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	25/10/2023	10am	Nil	Nil
Comments	No visible signs			
Name of inspector	S.Diamond			

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: Oct-23

NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values[a]
Total suspended solids (mg/L)				
Ammonia as N (mg/L)				
Total Nitrogen as N (mg/L)				
Total Phosphorus as P (mg/L)				
TPH (C6-C36) (µg/L)				
PAHs (µg/L)				
Thermotolerant coliforms (cfu/100mL)				
BTEX (Benzene) (µg/L)				
BTEX (Toluene) (µg/L)				
BTEX (Ethylbenzene) (µg/L)				
BTEX (Total Xylenes) (µg/L)				
Dissolved metals (Cadmium) (mg/L)				
Dissolved metals (Cromium) (mg/L)				
Dissolved metals (Copper) (mg/L)				
Dissolved metals (Tin) (mg/L)				
Dissolved metals (Zinc) (mg/L)				
Comments	Not completed for October - see September testing			
Name of sample collector				

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