Trinity Point Marina - Water Quality Monitoring

Month: Aug-22

JOHNSON PROPERTY GROUP

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
3/08/2022	A (1) - 1026	16.5	8.16	1.09	96.3
	C (3) - 1030	16.7	8.21	1.03	102.7
	D (4) - 1035	16.7	8.15	1.22	101
	B (2) - 1039	16.6	8.2	1.12	98.5
Weekly comments	Weather; cloudy / overcast				
Name of sample collector	S. Luker & S.Diamond				
10/08/2022	A (1) - 0957	16.9	8.04	1.05	84.6
	C (3) - 1001	16.7	7.98	1.3	85.3
	D (4) - 1008	16.7	7.99	1.08	79.9
	B (2) - 1012	16.9	8.01	2.55	77.2
Weekly comments	Weather; sunny / light wind				
Name of sample collector	S. Luker & S.Diamond				
17/08/2022	A (1) - 1033	17.4	8.07	1.87	100.4
	C (3) - 1038	17.4	8.01	1.29	94.5
	D (4) - 1042	17.4	8.02	1.13	89.5
	B (2) - 1045	17.4	7.95	1.46	87.7
Weekly comments	Weather; fine / sunny				
Name of sample collector	S. Luker & S.Diamond				
24/08/2022	A (1) - 0945	16.8	8.02	2.62	86.5
	C (3) - 0949	16.7	7.92	2.25	82.7
	D (4) - 0951	16.8	7.95	3.01	84.2
	B (2) - 0955	16.9	8.01	3	85.5
Weekly comments	Weather; windy and cold				
Name of sample collector	S. Luker & S.Diamond				
31/08/2022	A (1) - 0939	19.2	8.02	1.87	88.5
	C (3) - 0943	19.7	8.07	1.91	92.7
	D (4) - 0947	19.9	7.99	2.27	92
	B (2) - 0952	20	7.98	2.23	90.2
Weekly comments	Weather; fine / sunny - light wind				
Name of sample collector	S. Luker & S.Diamond				
Monthly Maximums		**20.0**	**8.21**	**3.01**	**102.7**
Monthly Minimums		**16.5**	**7.92**	**1.03**	**77.2**

Weekly monitoring testing for duration of EPA licence 20631

Other		Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection		31/08/2022	0930	Nil	Nil
Comments	No visable 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

[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)				
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 August - see July 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