Trinity Point Marina - Water Quality Monitoring

Month: Nov-19

Gulf Marina Management

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**
5/11/2019	A (1) - 10:17	25.2	7.32	1	94.5
	C (3) - 10:23	25.2	7.4	1	90.1
	D (4) - 10:27	25.2	7.5	1.42	88.3
	B (2) - 10:37	25.2	7.66	2.37	89.8
Weekly comments	Fine weather				
Name of sample collector	A. Chapman				
12/11/2019	A (1) - 9:40	23.95	8.01	8.3	92.1
	C (3) - 9:52	23.95	8.02	5.3	88.5
	D (4) - 10:03	23.96	8.04	4	96.9
	B (2) - 10:05	24.2	8.01	3.4	78.2[a]
Weekly comments	Weather - windy & choppy - Monthly analysis testing provided by RCA				
Name of sample collector	L. Schofield				
22/11/2019	A (1) - 9:45	25.8	8.1	2.05	87.1
	C (3) - 9:52	26.1	8.1	3.31	87.6
	D (4) - 9:55	26	8.09	3.51	89.8
	B (2) - 9:57	26.4	8.07	3.15	78.2
Weekly comments	Fine weather				
Name of sample collector	A. Chapman				
27/11/2019	A (1) - 11:22	25	8.12	1.71	91
	C (3) - 11:26	24.8	8.09	2.33	89.3
	D (4) - 11:32	25	8.09	3.51	88.3
	B (2) - 11:35	25.6	8.15	3.15	104.4
Weekly comments	Fine weather				
Name of sample collector	A. Chapman				
	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	**26.4**	**8.15**	**8.3**	**104.4**
Monthly Minimums	**24.0**	**7.32**	**<1**	**78.2[a]**

Other	**Date**	**Time**	**Location E (5)**	**Location F (6)**
Oil and grease visual inspection	12	27/11/2019	None	None
Comments				
Name of inspector	A. Chapman			

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

NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values[a]
Total suspended solids (mg/L)	12.11.19	<5	<5	10[b]
Ammonia as N (mg/L)	12.11.19	<0.1	<0.1	-
Total Nitrogen as N (mg/L)	12.11.19	<0.5	<0.5	0.3
Total Phosphorus as P (mg/L)	12.11.19	<0.05	<0.05	0.03
TPH (C6-C36) (µg/L)	12.11.19	<50	<50	-
PAHs (µg/L)	12.11.19	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	12.11.19	<1	<1	-
BTEX (Benzene) (µg/L)	12.11.19	<1	<1	-
BTEX (Toluene) (µg/L)	12.11.19	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	12.11.19	<2	<2	-
BTEX (Total Xylenes) (µg/L)	12.11.19	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	12.11.19	<0.0010	<0.0010	0.0055[d]
Dissolved metals (Cromium) (mg/L)	12.11.19	<0.010	<0.010	0.0044[e]
Dissolved metals (Copper) (mg/L)	12.11.19	<0.010	<0.010	0.0013
Dissolved metals (Tin) (mg/L)	12.11.19	<0.010	<0.010	-
Dissolved metals (Zinc) (mg/L)	12.11.19	<0.050	<0.050	0.015[d]
Comments	RCA ref 14302-709/Water/0			
Name of sample collector	L. Schofield			

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