## Trinity Point Marina - Water Quality Monitoring

**Month:** Oct-19

| 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 |
| 1/10/2019 | A (1) - 13:24 | 23 | 7.22 | 2.17 | 94.2 |
| | C (3) - 13:28 | 20.9 | 8.08 | 2.5 | 91.6 |
| | D (4) - 13:34 | 21 | 8.07 | 2.3 | 91.9 |
| | B (2) - 13:37 | 21.2 | 8.06 | 1.8 | 92.1 |
| Weekly comments | Fine weather | | | | |
| Name of sample collector | A. Chapman | | | | |
| 8/10/2019 | A (1) - 9:23 | 22.6 | 8.01 | 2.6 | 101.7 |
| | C (3) - 9:39 | 22.6 | 8.04 | <1 | 107.2 |
| | D (4) - 9:47 | 23.2 | 8.01 | 7 | 105.5 |
| | B (2) - 9:50 | 23.4 | 7.99 | 5.8 | 107 |
| Weekly comments | Weather - clear, water clear - Monthly analysis testing provided by RCA | | | | |
| Name of sample collector | L. Schofield | | | | |
| 15/10/2019 | A (1) - 10.02 | 22 | 8.1 | 1.57 | 87.2 |
| | C (3) - 10.05 | 23.6 | 8.07 | 1.53 | 93.2 |
| | D (4) - 10.10 | 22.9 | 8.06 | 1.57 | 91.6 |
| | B (2) - 10.13 | 21.7 | 8.05 | 1.4 | 92.4 |
| Weekly comments | Fine weather | | | | |
| Name of sample collector | A. Chapman | | | | |
| 23/10/2019 | A (1) - 9:22 | 23.8 | 8.1 | 2.6 | 87.5 |
| | C (3) - 9:27 | 23.5 | 8.06 | 1.83 | 87.7 |
| | D (4) - 9:32 | 23.9 | 8.07 | 2.17 | 87.8 |
| | B (2) - 9:34 | 24 | 8.06 | 1.82 | 89.2 |
| Weekly comments | Fine weather | | | | |
| Name of sample collector | A. Chapman | | | | |
| 31/10/2019 | A (1) - 9:27 | 25.6 | 8.07 | 1.48 | 91 |
| | C (3) - 9:31 | 25.6 | 5.06 | 1.39 | 89.5 |
| | D (4) - 9:34 | 26.1 | 8.06 | 1.72 | 85.5 |
| | B (2) - 9:37 | 26.1 | 8.05 | 1.80 | 82.5 |
| Weekly comments | Fine weather | | | | |
| Name of sample collector | A. Chapman | | | | |
| **Monthly Maximums** | | **26.1** | **8.08** | **5.8** | **107.2** |
| **Monthly Minimums** | | **21.0** | **7.22** | **<1** | **82.5** |

Weekly monitoring testing for duration of EPA licence 20631

| Other | Date | Time | Location E (5) | Location F (6) |
|---|---|---|---|---|
| Oil and grease visual inspection | 31/10/2019 | 10:00 | None | None |
| Comments | Fine weather | | | |
| 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) | 8.10.19 | <5 | <5 | 10[b] |
| Ammonia as N (mg/L) | 8.10.19 | 0.03 | 0.42 | - |
| Total Nitrogen as N (mg/L) | 8.10.19 | <1.0 | <1.0 | 0.3 |
| Total Phosphorus as P (mg/L) | 8.10.19 | <0.10 | <0.10 | 0.03 |
| TPH (C6-C36) (µg/L) | 8.10.19 | <50 | <50 | - |
| PAHs (µg/L) | 8.10.19 | <1.0 | <1.0 | - |
| Thermotolerant coliforms (cfu/100mL) | 8.10.19 | 1 | 1 | - |
| BTEX (Benzene) (µg/L) | 8.10.19 | <1 | <1 | - |
| BTEX (Toluene) (µg/L) | 8.10.19 | <2 | <2 | - |
| BTEX (Ethylbenzene) (µg/L) | 8.10.19 | <2 | <2 | - |
| BTEX (Total Xylenes) (µg/L) | 8.10.19 | <2 | <2 | - |
| Dissolved metals (Cadmium) (mg/L) | 8.10.19 | <0.0010 | <0.0010 | 0.0055[d] |
| Dissolved metals (Cromium) (mg/L) | 8.10.19 | <0.010 | <0.010 | 0.0044[e] |
| Dissolved metals (Copper) (mg/L) | 8.10.19 | <0.010 | <0.010 | 0.0013 |
| Dissolved metals (Tin) (mg/L) | 8.10.19 | <0.010 | <0.010 | - |
| Dissolved metals (Zinc) (mg/L) | 8.10.19 | <0.050 | <0.050 | 0.015[d] |
| | | | | |
| | | | | |
| Comments | RCA ref 14302-707/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