Trinity Point Marina Water Quality		Contractor		Most Recent Event		
Historical Chemical and Physical Measurements		Enviropacifc Services		27-Apr-16		
		Depth-Average Parameter				
Site	Date	Temperature [C]	pH	Turbidity [NTU]	DO [%]	EC [mS/cm]
A	17-Feb-16	28.1	8.3	0.1	65.45[a]	46.6
	24-Feb-16	27.8	8.0	0.4	88.8	46.6
	2-Mar-16	27.5	8.1	0.5	79.2	49.2
	9-Mar-16	27.7	8.2	1.1	87.5	49.1
	16-Mar-16[w]	27.1	8.2	1.3	73.4	51.9
	23-Mar-16	23.1	8.2	3.3	85.6	50.5
	1-Apr-16	24.9	8.2	0.0	84.6	53.2
	6-Apr-16	24.6	8.2	0.4	85.7	53.6
	20-Apr-16	23.1	8.2	0.0	94.1	51.6
	27-Apr-16	21.9	8.4	0.0	89.2	53.3
	Max	**28.1**	**8.4**	**3.3**	**94.1**	**53.6**
	Min	**21.9**	**8.0**	**0.0**	**73.4**	**46.6**
B	17-Feb-16	28.1	8.2	1.5	53.1[a]	46.5
	24-Feb-16	28.1	8.0	0.2	72.2	49.2
	2-Mar-16	27.5	8.1	0.0	83.5	51.2
	9-Mar-16	27.9	8.1	1.1	80.6	50.4
	16-Mar-16[w]	27.0	8.2	0.3	77.6	52.1
	23-Mar-16	23.2	8.2	1.8	89.6	52.1
	1-Apr-16	24.8	8.2	0.3	86.9	53.2
	6-Apr-16	24.5	8.2	0.1	89.1	52.3
	20-Apr-16	23.2	8.2	0.0	97.0	51.2
	27-Apr-16	22.2	8.4	0.0	89.6	52.2
	Max	**28.1**	**8.4**	**1.8**	**97.0**	**53.2**
	Min	**22.2**	**8.0**	**0.0**	**72.2**	**46.5**
C	17-Feb-16	28.0	8.3	0.0	45.9[a]	48.1
	24-Feb-16	27.5	8.0	0.2	87.9	50.3
	2-Mar-16	28.2	8.1	0.0	82.7	50.1
	9-Mar-16	27.2	8.2	2.6	82.5	49.1
	16-Mar-16[w]	27.1	8.2	1.3	76.8	51.2
	23-Mar-16	23.0	8.2	0.1	86.1	51.8
	1-Apr-16	24.4	8.2	0.0	88.4	51.7
	6-Apr-16	24.5	8.2	0.0	86.1	59.4
	20-Apr-16	23.1	8.2	0.0	93.8	50.3
	27-Apr-16	21.9	8.5	0.0	88.1	53.6
	Max	**28.2**	**8.5**	**2.6**	**93.8**	**59.4**
	Min	**21.9**	**8.0**	**0.0**	**76.8**	**48.1**
D	17-Feb-16	28.0	8.3	0.0	51.0[a]	48.3
	24-Feb-16	28.0	8.0	0.2	79.1	48.1
	2-Mar-16	27.9	8.1	0.0	89.6	50.4
	9-Mar-16	27.8	8.2	1.5	80.7	50.2
	16-Mar-16[w]	27.1	8.2	0.3	87.4	51.1
	23-Mar-16	23.2	8.2	0.4	94.7	51.3
	1-Apr-16	24.6	8.2	0.0	86.3	51.7
	6-Apr-16	24.5	8.2	0.0	86.6	52.5
	20-Apr-16	23.3	8.2	0.0	91.2	53.2
	27-Apr-16	22.1	8.4	0.0	87.9	54.0
	Max	**28.0**	**8.4**	**1.5**	**94.7**	**54.0**
	Min	**22.1**	**8.0**	**0.0**	**79.1**	**48.1**
Relevant Trigger Values[b]		**Reference[c]**	**6.5 - 8.5**	**20**	**80 - 110**	**Reference[c]**

NOTES

Results shaded in grey exceed relevant Trigger Value(s)

[a]Results suspected to be erroneous; possibly affected by faulty sensor or poor calibration; not identified as min values

[b]Sourced from section L2.4 of the EPL issued to JPG and/or Tables 3.3.2 and 3.3.3 of ANZECC Guidelines 2000

[c]Reference data typically refers to site-specific data collected over long periods (preferably 12 months) that can be used to establish appropriate trigger values for that particular area

[w]Represents a wet weather monitoring event

Trinity Point Marina Water Quality	Site	Contractor	Most Recent Event				
Historical Analytical Laboratory Results	A	Enviropacifc Services	20-Apr-16				
Analysis	**LOR**	**Unit**	**Date**				**Trigger Values[a]**
			24-Feb-16	9-Mar-16	23-Mar-16	6-Apr-16	20-Apr-16	
Suspended Solids	1	mg/L	4.8	5.9	2.6	2.6[g]	110	10[b]
Total Nitrogen	0.2	mg/L	0.5[g]	0.5[g]	< 0.1	0.5[g]	< 0.2	0.3
Total PAH	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Phosphate Total as P[f]	0.05	mg/L	< 0.05	0.79[g]	0.039[g]	0.078[g]	0.057[g]	0.03
TRH C10 - C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-
TRH C6 - C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-
BTEX								
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.7
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Total Xylenes	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-
Dissolved Metals								
Cadmium[c]	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	0.0055[d]
Chromium	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	0.0044[e]
Copper	0.001	mg/L	0.001	0.001	0.001	< 0.001	< 0.005	0.0013
Tin	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	-
Zinc	0.001	mg/L	0.009	0.001	< 0.001	0.001	< 0.005	0.015[d]

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

[e]Value given specifically for Cr(IV)

[f]Analyte corresponds to "Total Phosphorus" referred to in ANZECC Guidelines (2000)

[g]Elevated measurement is unlikely to be related to construction activities

Trinity Point Marina Water Quality	Site	Contractor	Most Recent Event
Historical Analytical Laboratory Results	B	Enviropacifc Services	20-Apr-16

Analysis	LOR	Unit	Date					Trigger Values[a]
			24-Feb-16	9-Mar-16	23-Mar-16	6-Apr-16	20-Apr-16	
Suspended Solids	1	mg/L	3.6	5	2.8	3.6[g]	2.7	10[b]
Total Nitrogen	0.2	mg/L	0.3[g]	0.5[g]	< 0.1	0.4[g]	< 0.2	0.3
Total PAH	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Phosphate Total as P[f]	0.05	mg/L	< 0.05	< 0.05	0.038[g]	0.05[g]	0.027	0.03
TRH C10 - C36	0.1	mg/L	< 0.1	< 0.1	0.3	< 0.1	< 0.1	-
TRH C6 - C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-
BTEX								
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.7
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Total Xylenes	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-
Dissolved Metals								
Cadmium[c]	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	0.0055[d]
Chromium	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	0.0044[e]
Copper	0.001	mg/L	0.001	0.001	< 0.001	< 0.001	< 0.005	0.0013
Tin	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	-
Zinc	0.001	mg/L	0.002	0.004	0.004	0.002	< 0.005	0.015[d]

NOTES

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[g]Elevated measurement is unlikely to be related to construction activities

Trinity Point Marina Water Quality Historical Analytical Laboratory Results		Site C	Contractor Enviropacifc Services		Most Recent Event 20-Apr-16			
Analysis	**LOR**	**Unit**	**Date**					**Trigger Values[a]**
			24-Feb-16	9-Mar-16	23-Mar-16	6-Apr-16	20-Apr-16	
Suspended Solids	1	mg/L	10[g]	5.7	< 1	2	3.1	10[b]
Total Nitrogen	0.2	mg/L	0.2	0.2	< 0.1	0.4[g]	< 0.2	0.3
Total PAH	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Phosphate Total as P[f]	0.05	mg/L	< 0.05	< 0.05	0.031[g]	0.044[g]	0.039[g]	0.03
TRH C10 - C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-
TRH C6 - C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-
BTEX								
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.7
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Total Xylenes	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-
Dissolved Metals								
Cadmium[c]	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	0.0055[d]
Chromium	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	0.0044[e]
Copper	0.001	mg/L	0.001	0.001	< 0.001	< 0.001	< 0.005	0.0013
Tin	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	-
Zinc	0.001	mg/L	0.001	0.002	0.002	< 0.001	< 0.005	0.015[d]

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Trinity Point Marina Water Quality	Site	Contractor	Most Recent Event				
Historical Analytical Laboratory Results	D	Enviropacifc Services	20-Apr-16				
Analysis	**LOR**	**Unit**	**Date**				**Trigger Values[a]**
			24-Feb-16	9-Mar-16	23-Mar-16	6-Apr-16	20-Apr-16	
Suspended Solids	1	mg/L	6.5	4.6	3.6	1.2	2.8	10[b]
Total Nitrogen	0.2	mg/L	<0.1	0.2	0.5[g]	0.7[g]	< 0.2	0.3
Total PAH	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Phosphate Total as P[f]	0.05	mg/L	< 0.05	< 0.05	0.034[g]	0.041[g]	0.035[g]	0.03
TRH C10 - C36	0.1	mg/L	< 0.1	< 0.1	0.3	< 0.1	< 0.1	-
TRH C6 - C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-
BTEX								
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.7
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Total Xylenes	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-
Dissolved Metals								
Cadmium[c]	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	0.0055[d]
Chromium	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	0.0044[e]
Copper	0.001	mg/L	0.001	0.001	0.001	< 0.001	< 0.005	0.0013
Tin	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	-
Zinc	0.001	mg/L	0.002	0.005	0.005	0.002	< 0.005	0.015[d]

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