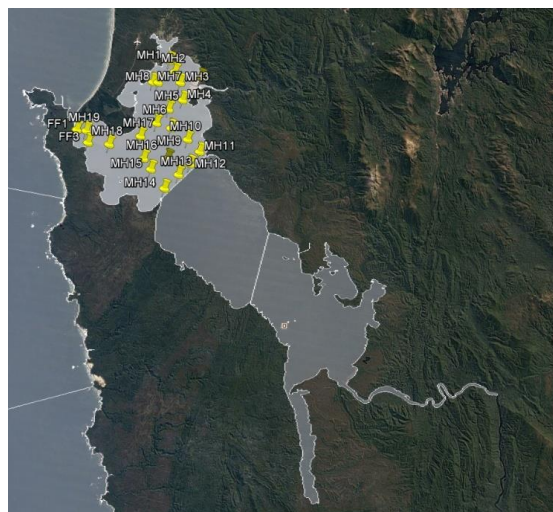


Macquarie Harbour – Segment 121

The interim default guideline values (DGVs) for aquatic ecosystems presented herein have been derived from site specific information in accordance with the National Water Quality Management Strategy ([NWQMS](#)).



Water Body Name: Macquarie Harbour

Segment: 121

IMCRA Mesoscale Region: Franklin

IMCRA Provincial Region: Tasmanian Shelf

Ecosystem Classification: Slightly to Moderately Disturbed Ecosystem

Data Provider: EPA

EPA Sites: FF1, FF2, MH1, MH2, MH3, MH4, MH5, MH6, MH7, MH8, MH9, MH10, MH11, MH12, MH13, MH14, MH15, MH16, MH17, MH18, MH19, MH20 and King River at delta.

Period of record: 04/05/1993 to 14/10/2009

Interim Default Guideline Values

Data from twenty-three locations (as listed above) have been used in the derivation of the interim default guideline values (DGVs) presented here in. For each site field based measurements and laboratory based data from near the surface, at the halocline and approximately 1 metre from bottom have been used for this analysis.

The following tables display the combined data as percentiles for the surface, halocline and bottom of the water column. The surface figures apply to the top 2 metres of the water column. The halocline figures apply to the interface between the surface freshwater layer and marine water dominated layer where salinity is approximately 20 PPT. The bottom water figures apply to the bottom metre or so of the water column. Annual interim DGVs have also been derived for the depth ranges of 6-10 m, 11-15 m, 16-20 m and 21-25 m for field based measurements only as well as seasonal values for dissolved oxygen. The laboratory data for the halocline and bottom waters can be considered for nutrient interim DGVs for these depth ranges. The shaded values represent the interim DGVs for aquatic ecosystems for the depth or position indicated on an annual or seasonal basis.. These can be applied as interim DGVs for aquatic ecosystems of waters encompassed within Segment 121 (as highlighted above). The interim DGVs for aquatic ecosystems are summarised in Appendix A.

The following links provide information on the [IMCRA spatial network](#) and the Interim [Default guideline values for Coastal and Marine waters](#) of Tasmania.

Annual interim DGVs for Aquatic Ecosystems for Surface waters (Shaded)

Parameter	5th %ile	10th %ile	20th %ile	Median	80th %ile	90th %ile	95th %ile	Sample Number
Dissolved Oxygen (mg/L)	8.2	8.4	8.8	9.5	10.4	10.8	11.4	1327
Dissolved Oxygen (%)	90.6	92.7	94.9	98.5	103.4	107.6	112.0	1409
Salinity (PPT)	2.2	4.0	6.5	10.4	13.6	16.1	18.0	1451
SpCond (µS/cm)	4654	7493	11400	17606	22535	26372	29220	1429
pH field - sensor TC	6.8	6.9	7.1	7.5	7.8	7.9	8.0	1441
Temperature (Celsius)	8.8	9.5	10.7	14.4	18.2	19.8	21.0	1449
Turbidity (NTU)	0.8	1.5	2.4	6.7	17.0	30.4	44.9	801
Redox (mV)	264	273	285	325	376	393	404	1082
Chlorophyll a (µg/L)*					ND			
TAN as N (µg/L)	1.0	1.0	1.0	3.0	6.0	8.4	13.7	207
Nitrite and Nitrate as N µg/L	1.0	5.0	9.0	18.0	36.0	56.0	67.0	151
Nitrate as N µg/L	2.7	4.0	7.0	15.0	26.2	31.0	34.9	75
Nitrite as N µg/L	1.0	1.0	1.0	2.0	2.0	3.0	3.0	227
Nitrogen (Total) as N µg/L					ND			
Phosphorus (Total) as P µg/L					ND			
DRP as P µg/L	1.0	1.0	1.0	1.0	2.0	3.0	4.0	227
TSS (mg/L)	2.0	3.4	5.5	11.1	16.0	20.0	22.8	752

*Integrated sample 0 to 12 metres, TAN=Total Ammonia Nitrogen (NH₃ and NH₄⁺), DRP= Dissolved Reactive Phosphorous, ND = No data collected.

Summer interim DGVs for Aquatic Ecosystems for Surface waters (Shaded)

Parameter	5th %ile	10th %ile	20th %ile	Median	80th %ile	90th %ile	95th %ile	Sample Number
Dissolved Oxygen (mg/L)	8.1	8.2	8.4	8.9	9.5	9.8	10.1	416
Dissolved Oxygen (%)	92.7	94.3	96.4	100.5	106.8	109.7	112.9	501
Salinity (PPT)	3.3	4.8	8.9	11.3	14.2	16.5	17.3	502
SpCond (µS/cm)	6000	8540	15000	19000	23500	27000	28250	491
pH field - sensor TC	6.8	7.0	7.3	7.7	7.9	7.9	8.0	501
Temperature (Celsius)	15.0	15.5	16.2	18.4	20.5	21.3	21.7	500
Turbidity (NTU)	1.1	1.5	2.6	6.4	15.3	24.0	40.8	235
Redox (mV)	261	265	275	311	382	395	404	424
Chlorophyll a (µg/L)*					ND			
TAN as N (µg/L)	1.0	1.0	1.0	3.0	5.0	7.4	10.0	57
Nitrite and Nitrate as N µg/L	1.0	1.0	3.0	8.0	13.0	14.4	15.7	27
Nitrate as N µg/L	2.0	2.1	3.2	7.5	10.0	13.9	15.0	32
Nitrite as N µg/L	1.0	1.0	1.0	2.0	2.0	3.0	3.0	60
Nitrogen (Total) as N µg/L					ND			
Phosphorus (Total) as P µg/L					ND			
DRP as P µg/L	1.0	1.0	1.0	1.0	2.0	3.0	3.0	60
TSS (mg/L)	3.0	3.5	5.3	12.0	18.8	22.7	25.5	216

*Integrated sample 0 to 12 metres, TAN=Total Ammonia Nitrogen (NH₃ and NH₄⁺), DRP= Dissolved Reactive Phosphorous, ND = No data collected.

Autumn interim DGVs for Aquatic Ecosystems for Surface waters (Shaded)

Parameter	5th %ile	10th %ile	20th %ile	Median	80th %ile	90th %ile	95th %ile	Sample Number
Dissolved Oxygen (mg/L)	8.1	8.4	9.0	9.7	10.4	10.6	10.8	360
Dissolved Oxygen (%)	92.5	93.5	95.3	98.1	100.8	104.4	112.2	360
Salinity (PPT)	1.1	2.7	5.5	9.4	13.5	15.9	18.2	391
SpCond (µS/cm)	2757	4959	9928	16200	22660	26296	29753	387
pH field - sensor TC	6.7	6.9	7.2	7.4	7.7	7.8	7.9	382
Temperature (Celsius)	10.7	11.1	11.3	13.3	16.1	17.0	19.2	390
Turbidity (NTU)	0.9	1.8	2.6	9.0	25.5	40.8	55.4	239
Redox (mV)	271	285	303	346	378	389	404	305
Chlorophyll a (µg/L)*					ND			
TAN as N (µg/L)	1.0	1.0	1.0	3.0	8.0	10.2	15.1	50
Nitrite and Nitrate as N µg/L	1.0	6.0	10.0	16.0	24.4	28.0	34.9	52
Nitrate as N µg/L~	18.5	19.0	19.0	28.0	32.0	34.0	35.5	11
Nitrite as N µg/L	1.0	1.0	1.0	2.0	3.0	3.0	4.9	63
Nitrogen (Total) as N µg/L					ND			
Phosphorus (Total) as P µg/L					ND			
DRP as P µg/L	1.0	1.0	1.0	1.0	3.0	4.0	4.0	63
TSS (mg/L)	3.1	5.0	6.3	11.3	15.5	18.0	21.3	182

*Integrated sample 0 to 12 metres, TAN=Total Ammonia Nitrogen (NH₃ and NH₄⁺), DRP= Dissolved Reactive Phosphorous, ND = No data collected.

Winter interim DGVs for Aquatic Ecosystems for Surface waters (Shaded)

Parameter	5 th %ile	10 th %ile	20 th %ile	Median	80 th %ile	90 th %ile	95 th %ile	Sample Number
Dissolved Oxygen (mg/L)	9.0	9.3	9.6	10.3	11.2	11.7	12.7	266
Dissolved Oxygen (%)	87.0	88.8	92.4	97.2	102.0	106.2	113.7	266
Salinity (PPT)	3.0	4.2	5.6	9.4	13.9	16.7	21.8	266
SpCond (µS/cm)	5987	7674	10014	16054	22820	27263	34695	264
pH field - sensor TC	6.7	6.9	7.1	7.3	7.7	7.8	7.9	266
Temperature (Celsius)	8.0	8.4	8.7	9.4	10.3	10.7	11.6	267
Turbidity (NTU)	0.5	1.0	1.8	4.4	13.9	24.4	39.6	167
Redox (mV)	291	299	304	322	348	361	370	182
Chlorophyll a (µg/L)*					ND			
TAN as N (µg/L)	1.0	1.0	3.0	5.0	8.4	16.3	21.1	50
Nitrite and Nitrate as N µg/L	5.9	11.0	14.0	37.5	64.0	70.1	74.8	50
Nitrate as N µg/L					ND			
Nitrite as N µg/L	1.0	1.0	1.0	2.0	2.0	2.0	2.0	50
Nitrogen (Total) as N mg/L					ND			
Phosphorus (Total) as P mg/L					ND			
DRP as P µg/L	1.0	1.0	1.0	1.5	3.0	3.1	6.1	50
TSS (mg/L)	2.0	4.0	5.9	9.8	14.4	17.5	20.3	157

*Integrated sample 0 to 12 metres, TAN=Total Ammonia Nitrogen (NH₃ and NH₄⁺), DRP= Dissolved Reactive Phosphorous, ND = No data collected.

Spring interim DGVs for Aquatic Ecosystems for Surface waters (Shaded)

Parameter	5th %ile	10th %ile	20th %ile	Median	80th %ile	90th %ile	95th %ile	Sample Number
Dissolved Oxygen (mg/L)	8.8	9.0	9.2	9.7	10.2	10.7	11.2	285
Dissolved Oxygen (%)	89.8	91.5	94.1	97.7	102.1	104.1	106.4	282
Salinity (PPT)	2.2	5.3	6.8	9.9	12.2	14.7	17.2	292
SpCond (µS/cm)	6413	10151	12296	16900	20697	24364	28097	287
pH field - sensor TC	6.8	6.9	7.1	7.4	7.6	7.6	7.7	292
Temperature (Celsius)	9.9	10.6	11.1	12.8	14.7	15.4	16.1	292
Turbidity (NTU)	1.0	1.7	3.0	6.9	15.3	23.8	34.8	160
Redox (mV)	268	273	278	325	390	399	458	171
Chlorophyll a (µg/L)*					ND			
TAN as N (µg/L)	1.0	1.0	1.0	2.0	3.0	4.0	4.0	50
Nitrite and Nitrate as N µg/L	8.3	13.2	20.2	25.0	28.0	31.9	43.4	22
Nitrate as N µg/L	9.1	10.1	14.4	20.5	28.0	32.8	38.4	32
Nitrite as N µg/L	1.0	1.0	1.0	2.0	2.0	2.7	3.0	54
Nitrogen (Total) as N µg/L					ND			
Phosphorus (Total) as P µg/L					ND			
DRP as P µg/L	1.0	1.0	1.0	2.0	2.0	3.0	3.3	54
TSS (mg/L)	2.0	3.0	4.0	11.0	15.7	18.5	22.7	197

*Integrated sample 0 to 12 metres, TAN=Total Ammonia Nitrogen (NH₃ and NH₄⁺), DRP= Dissolved Reactive Phosphorous, ND = No data collected.

Annual interim DGVs for Aquatic Ecosystems for Halocline (Shaded)

Parameter	5th %ile	10th %ile	20th %ile	Median	80th %ile	90th %ile	95th %ile	Sample Number
Dissolved Oxygen (mg/L)	7.0	7.4	7.7	8.2	8.8	9.2	9.4	973
Dissolved Oxygen (%)	80.4	83.0	85.4	90.6	95.1	97.5	99.5	1047
Salinity (PPT)	15.8	17.7	18.9	20.4	22.4	23.6	24.8	1067
SpCond (µS/cm)	25817	28638	30484	32700	35432	37281	38800	1056
pH field - sensor TC	7.1	7.2	7.4	7.6	7.8	7.9	7.9	1061
Temperature (Celsius)	10.8	11.1	11.7	13.8	16.3	17.2	18.1	1064
Turbidity (NTU)	0.8	1.1	1.6	3.8	13.2	15.9	18.6	724
Redox (mV)	272	279	290	337	385	399	410	801
Chlorophyll a (µg/L)*					ND			
TAN as N (µg/L)	1.0	1.0	2.6	5.0	9.0	10.7	14.0	184
Nitrite and Nitrate as N µg/L	8.0	14.0	17.8	35.0	56.4	78.6	88.6	125
Nitrate as N µg/L	9.0	10.0	14.0	29.0	41.0	49.0	52.0	61
Nitrite as N µg/L	1.0	1.0	2.0	2.0	3.0	3.0	3.0	186
Nitrogen (Total) as N µg/L					ND			
Phosphorus (Total) as P µg/L					ND			
DRP as P µg/L	1.0	1.0	1.0	2.0	3.0	3.0	4.0	186
TSS (mg/L)	3.0	5.2	9.0	15.0	20.0	24.0	27.0	658

*Integrated sample 0 to 12 metres, TAN=Total Ammonia Nitrogen (NH₃ and NH₄⁺), DRP= Dissolved Reactive Phosphorous, ND = No data collected.

Summer interim DGVs for Aquatic Ecosystems for Halocline (Shaded)

Parameter	5th %ile	10th %ile	20th %ile	Median	80th %ile	90th %ile	95th %ile	Sample Number
Dissolved Oxygen (mg/L)	6.8	7.1	7.4	7.8	8.3	8.5	8.7	313
Dissolved Oxygen (%)	79.2	82.1	85.0	90.2	95.3	97.8	99.7	388
Salinity (PPT)	15.4	17.0	18.9	20.6	22.5	24.2	25.4	388
SpCond (µS/cm)	25361	27693	30384	32970	35700	38047	39800	378
pH field - sensor TC	7.2	7.3	7.5	7.7	7.9	7.9	7.9	388
Temperature (Celsius)	13.5	14.2	15.0	16.1	17.4	18.2	18.8	388
Turbidity (NTU)	1.1	1.3	1.7	3.7	11.8	15.6	16.5	217
Redox (mV)	267	274	283	317	392	403	411	325
Chlorophyll a (µg/L)*					ND			
TAN as N (µg/L)	1.0	1.0	3.0	4.0	8.0	9.0	9.1	40
Nitrite and Nitrate as N µg/L	7.8	11.0	16.4	35.0	40.0	47.2	56.5	15
Nitrate as N µg/L	8.0	8.4	9.8	14.0	27.2	28.6	29.0	25
Nitrite as N µg/L	1.0	1.0	2.0	2.0	2.0	2.0	3.0	40
Nitrogen (Total) as N µg/L					ND			
Phosphorus (Total) as P µg/L					ND			
DRP as P µg/L	1.0	1.0	1.0	1.0	2.0	2.1	3.0	40
TSS (mg/L)	4.4	5.8	9.2	16.8	23.0	25.8	28.7	191

*Integrated sample 0 to 12 metres, TAN=Total Ammonia Nitrogen (NH₃ and NH₄⁺), DRP= Dissolved Reactive Phosphorous, ND = No data collected.

Autumn interim DGVs for Aquatic Ecosystems for Halocline (Shaded)

Parameter	5th %ile	10th %ile	20th %ile	Median	80th %ile	90th %ile	95th %ile	Sample Number
Dissolved Oxygen (mg/L)	7.0	7.3	7.6	8.1	8.7	8.9	9.1	289
Dissolved Oxygen (%)	79.7	82.4	85.1	90.2	94.7	96.8	101.2	288
Salinity (PPT)	16.9	17.9	18.8	20.2	22.1	23.3	24.4	300
SpCond (µS/cm)	27479	28900	30280	32400	35149	37004	38351	300
pH field - sensor TC	7.2	7.3	7.4	7.6	7.8	7.8	7.9	295
Temperature (Celsius)	12.3	12.4	12.7	13.9	15.5	16.7	17.8	299
Turbidity (NTU)	0.8	1.0	1.3	3.4	14.1	16.0	20.5	252
Redox (mV)	282	292	323	356	384	397	408	241
Chlorophyll a (µg/L)*					ND			
TAN as N (µg/L)	1.0	1.0	1.0	5.0	10.0	13.0	14.0	56
Nitrite and Nitrate as N µg/L	15.3	17.6	21.2	28.0	41.6	52.8	58.0	47
Nitrate as N µg/L~	23.5	27.0	28.0	33.0	39.0	39.0	39.0	11
Nitrite as N µg/L	1.0	2.0	2.0	2.0	3.0	3.3	4.2	58
Nitrogen (Total) as N µg/L					ND			
Phosphorus (Total) as P µg/L					ND			
DRP as P µg/L	1.0	1.0	1.0	2.0	3.0	4.0	4.0	58
TSS (mg/L)	3.0	7.5	10.2	14.4	18.6	21.7	28.6	158

*Integrated sample 0 to 12 metres, TAN=Total Ammonia Nitrogen (NH₃ and NH₄⁺), DRP= Dissolved Reactive Phosphorous, ND = No data collected.

Winter interim DGVs for Aquatic Ecosystems for Halocline (Shaded)

Parameter	5 th %ile	10 th %ile	20 th %ile	Median	80 th %ile	90 th %ile	95 th %ile	Sample Number
Dissolved Oxygen (mg/L)	7.7	7.9	8.3	8.9	9.4	9.6	9.8	186
Dissolved Oxygen (%)	81.9	84.2	87.7	93.3	96.5	98.0	99.5	186
Salinity (PPT)	17.3	18.5	19.3	20.5	22.4	23.8	26.0	187
SpCond (µS/cm)	28135	29850	31000	32743	35145	37065	40075	186
pH field - sensor TC	7.0	7.1	7.2	7.4	7.7	7.8	7.9	186
Temperature (Celsius)	10.0	10.2	10.4	11.2	11.8	12.2	12.3	186
Turbidity (NTU)	0.9	1.2	2.0	5.4	12.2	14.3	15.5	122
Redox (mV)	295	302	310	331	356	367	375	134
Chlorophyll a (µg/L)*					ND			
TAN as N (µg/L)	1.0	1.0	3.0	8.0	9.0	14.0	16.0	48
Nitrite and Nitrate as N µg/L	8.0	13.0	15.4	46.0	80.2	89.6	91.7	48
Nitrate as N µg/L					ND			
Nitrite as N µg/L	1.0	1.0	1.0	2.0	2.0	2.0	2.0	48
Nitrogen (Total) as N µg/L					ND			
Phosphorus (Total) as P µg/L					ND			
DRP as P µg/L	1.0	1.0	1.0	2.0	3.0	4.0	7.0	48
TSS (mg/L)	1.5	4.7	8.0	14.5	17.4	19.3	23.3	150

*Integrated sample 0 to 12 metres, TAN=Total Ammonia Nitrogen (NH₃ and NH₄⁺), DRP= Dissolved Reactive Phosphorous, ND = No data collected.

Spring interim DGVs for Aquatic Ecosystems for Halocline (Shaded)

Parameter	5 th %ile	10 th %ile	20 th %ile	Median	80 th %ile	90 th %ile	95 th %ile	Sample Number
Dissolved Oxygen (mg/L)	7.7	7.8	8.0	8.5	8.9	9.1	9.3	185
Dissolved Oxygen (%)	82.7	84.0	85.6	89.8	93.8	95.6	96.5	185
Salinity (PPT)	14.9	17.0	19.1	20.2	22.0	23.3	24.6	192
SpCond (µS/cm)	24572	27728	30769	32410	34884	36724	38690	192
pH field - sensor TC	7.2	7.2	7.3	7.5	7.7	7.8	7.9	192
Temperature (Celsius)	11.0	11.1	11.3	12.0	13.2	13.7	14.0	191
Turbidity (NTU)	0.5	0.8	1.6	3.5	14.3	17.7	20.4	133
Redox (mV)	269	276	280	339	395	402	457	101
Chlorophyll a (µg/L)*					ND			
TAN as N (µg/L)	2.0	2.0	3.0	4.0	8.0	8.1	10.1	40
Nitrite and Nitrate as N µg/L	7.7	15.6	31.0	43.0	56.8	72.4	89.4	15
Nitrate as N µg/L	22.4	28.4	31.6	41.0	52.0	52.6	58.6	25
Nitrite as N µg/L	1.0	1.0	1.0	2.0	3.0	3.0	3.0	40
Nitrogen (Total) as N µg/L					ND			
Phosphorus (Total) as P µg/L					ND			
DRP as P µg/L	1.0	1.0	1.0	2.0	3.0	3.0	5.1	40
TSS (mg/L)	3.0	4.7	8.1	14.7	19.3	23.0	25.4	159

Annual interim DGVs for Aquatic Ecosystems for bottom waters (Shaded)

Parameter	5th %ile	10th %ile	20th %ile	Median	80th %ile	90th %ile	95th %ile	Sample Number
Dissolved Oxygen (mg/L)	3.7	3.9	4.3	5.1	6.4	7.6	8.3	1192
Dissolved Oxygen (%)	43.8	46.3	50.2	59.5	73.3	86.7	94.8	1270
Salinity (PPT)	25.3	26.7	28.3	30.3	31.1	31.6	32.2	1317
SpCond (µS/cm)	39515	41600	43826	46500	47619	48311	49342	1304
pH field - sensor TC	7.3	7.4	7.5	7.6	7.8	7.9	8.0	1312
Temperature (Celsius)	12.5	12.8	13.1	13.7	14.5	14.9	15.2	1314
Turbidity (NTU)	0.8	1.1	1.7	4.4	14.0	15.7	17.4	909
Redox (mV)	273	281	294	339	389	404	414	967
Chlorophyll a (µg/L)*					ND			
TAN as N (µg/L)	1.0	2.4	5.0	8.0	13.0	14.0	16.0	195
Nitrite and Nitrate as N µg/L	1.0	1.0	18.0	46.0	93.8	113.4	120.1	119
Nitrate as N µg/L	5.2	8.0	12.0	32.0	47.2	62.8	80.4	73
Nitrite as N µg/L	1.0	1.0	1.0	2.0	2.0	3.0	3.0	195
Nitrogen (Total) as N µg/L					ND			
Phosphorus (Total) as P µg/L					ND			
DRP as P µg/L	1.0	1.0	2.0	3.0	5.4	8.0	10.0	194
TSS (mg/L)	2.0	6.0	13.5	22.8	29.0	32.0	36.0	602

*Integrated sample 0 to 12 metres, TAN=Total Ammonia Nitrogen (NH₃ and NH₄⁺), DRP= Dissolved Reactive Phosphorous, ND = No data collected.

Summer interim DGVs for Aquatic Ecosystems for bottom waters (Shaded)

Parameter	5 th %ile	10 th %ile	20 th %ile	Median	80 th %ile	90 th %ile	95 th %ile	Sample Number
Dissolved Oxygen (mg/L)	3.8	4.0	4.4	5.2	6.3	7.4	7.9	388
Dissolved Oxygen (%)	45.0	47.2	51.7	60.8	73.0	86.0	94.7	466
Salinity (PPT)	25.4	26.5	28.1	30.1	31.0	31.5	32.3	471
SpCond (µS/cm)	39695	41280	43510	46179	47500	48296	49361	460
pH field - sensor TC	7.3	7.3	7.5	7.7	7.8	7.9	8.0	475
Temperature (Celsius)	12.9	13.2	13.4	13.9	14.6	15.1	16.0	469
Turbidity (NTU)	0.8	1.1	1.5	3.7	12.5	15.6	17.1	287
Redox (mV)	272	277	286	323	397	408	415	399
Chlorophyll a (µg/L)*					ND			
TAN as N (µg/L)	5.0	5.0	6.0	8.0	11.0	12.0	14.5	56
Nitrite and Nitrate as N µg/L	1.0	1.0	1.0	22.0	45.2	75.0	85.7	24
Nitrate as N µg/L	3.0	3.9	7.0	12.0	22.2	28.4	34.2	30
Nitrite as N µg/L	1.0	1.5	2.0	2.0	2.0	3.0	4.0	56
Nitrogen (Total) as N µg/L					ND			
Phosphorus (Total) as P µg/L					ND			
DRP as P µg/L	1.0	2.0	2.0	2.0	3.0	5.5	7.3	56
TSS (mg/L)	5.3	7.2	13.2	25.9	32.0	35.0	37.7	174

*Integrated sample 0 to 12 metres, TAN=Total Ammonia Nitrogen (NH₃ and NH₄⁺), DRP= Dissolved Reactive Phosphorous, ND = No data collected.

Autumn interim DGVs for Aquatic Ecosystems for bottom waters (Shaded)

Parameter	5 th %ile	10 th %ile	20 th %ile	Median	80 th %ile	90 th %ile	95 th %ile	Sample Number
Dissolved Oxygen (mg/L)	3.7	3.8	4.1	4.7	5.8	6.6	7.5	312
Dissolved Oxygen (%)	43.5	44.7	48.5	56.3	67.9	75.8	85.9	312
Salinity (PPT)	26.2	27.0	28.2	30.3	31.0	31.3	31.8	344
SpCond (µS/cm)	40930	42005	43690	46600	47619	47836	48568	344
pH field - sensor TC	7.4	7.5	7.5	7.7	7.8	7.9	8.0	336
Temperature (Celsius)	13.5	13.7	14.0	14.4	14.8	15.0	15.2	345
Turbidity (NTU)	1.0	1.3	1.6	2.9	13.0	15.2	16.9	284
Redox (mV)	283	289	319	360	391	405	414	261
Chlorophyll a (µg/L)*					ND			
TAN as N (µg/L)	1.0	1.7	3.0	10.0	13.6	14.3	15.0	48
Nitrite and Nitrate as N µg/L	1.0	14.4	35.2	47.0	71.4	107.6	121.6	37
Nitrate as N µg/L~	26.5	34.0	41.0	44.0	60.0	62.0	66.0	11
Nitrite as N µg/L	1.0	1.0	2.0	2.0	2.0	2.0	3.0	48
Nitrogen (Total) as N µg/L					ND			
Phosphorus (Total) as P µg/L					ND			
DRP as P µg/L	1.0	1.0	1.0	3.0	4.0	4.0	4.7	48
TSS (mg/L)	0.7	9.0	16.3	23.0	26.7	30.0	35.2	128

*Integrated sample 0 to 12 metres, TAN=Total Ammonia Nitrogen (NH₃ and NH₄⁺), DRP= Dissolved Reactive Phosphorous, ND = No data collected.

Winter interim DGVs for Aquatic Ecosystems for bottom waters (Shaded)

Parameter	5 th %ile	10 th %ile	20 th %ile	Median	80 th %ile	90 th %ile	95 th %ile	Sample Number
Dissolved Oxygen (mg/L)	3.6	3.9	4.4	5.2	6.9	8.1	8.7	242
Dissolved Oxygen (%)	42.2	45.6	51.1	60.4	77.8	90.8	95.9	242
Salinity (PPT)	24.8	27.2	29.1	30.6	31.4	31.7	32.0	243
SpCond (µS/cm)	38910	42327	44889	47000	48045	48500	48892	243
pH field - sensor TC	7.3	7.4	7.4	7.6	7.8	7.9	7.9	243
Temperature (Celsius)	11.9	12.3	12.8	13.5	13.9	14.2	14.4	243
Turbidity (NTU)	0.7	0.8	1.6	5.1	13.6	14.2	15.8	155
Redox (mV)	296	302	309	332	353	370	375	161
Chlorophyll a (µg/L)*					ND			
TAN as N (µg/L)	1.1	2.0	4.0	10.0	12.0	15.7	17.0	42
Nitrite and Nitrate as N µg/L	8.3	16.1	22.8	65.5	113.0	118.8	121.9	42
Nitrate as N µg/L					ND			
Nitrite as N µg/L	1.0	1.0	1.0	2.0	2.0	2.0	2.0	42
Nitrogen (Total) as N µg/L					ND			
Phosphorus (Total) as P µg/L					ND			
DRP as P µg/L	1.0	1.0	1.0	6.0	9.0	10.9	12.0	42
TSS (mg/L)	1.0	5.3	14.5	21.7	25.3	28.0	30.5	128

*Integrated sample 0 to 12 metres, TAN=Total Ammonia Nitrogen (NH₃ and NH₄⁺), DRP= Dissolved Reactive Phosphorous, ND = No data collected.

Spring interim DGVs for Aquatic Ecosystems for bottom waters (Shaded)

Parameter	5 th %ile	10 th %ile	20 th %ile	Median	80 th %ile	90 th %ile	95 th %ile	Sample Number
Dissolved Oxygen (mg/L)	3.8	4.1	4.4	5.3	7.2	8.3	8.6	250
Dissolved Oxygen (%)	43.7	47.4	51.5	60.4	79.7	93.7	99.0	250
Salinity (PPT)	23.8	26.4	28.6	30.1	31.1	32.0	33.2	259
SpCond (µS/cm)	37359	41002	44153	46305	47616	48840	50544	257
pH field - sensor TC	7.3	7.4	7.4	7.5	7.7	7.8	7.9	258
Temperature (Celsius)	11.8	12.2	12.7	13.1	13.5	13.7	13.9	257
Turbidity (NTU)	0.7	1.8	2.8	10.5	15.3	17.7	31.4	183
Redox (mV)	269	272	282	337	388	410	461	146
Chlorophyll a (µg/L)*					ND			
TAN as N (µg/L)	1.0	1.8	4.0	7.0	14.0	14.2	16.8	49
Nitrite and Nitrate as N µg/L	13.8	18.0	25.0	63.0	93.0	102.5	109.0	16
Nitrate as N µg/L	22.0	24.2	31.0	41.0	62.2	83.4	87.3	32
Nitrite as N µg/L	1.0	1.0	1.0	2.0	3.0	3.0	3.0	49
Nitrogen (Total) as N µg/L					ND			
Phosphorus (Total) as P µg/L					ND			
DRP as P µg/L	1.0	1.0	2.0	3.0	6.0	8.0	10.0	48
TSS (mg/L)	3.0	5.0	10.9	22.0	29.0	31.0	38.6	172

*Integrated sample 0 to 12 metres, TAN=Total Ammonia Nitrogen (NH₃ and NH₄⁺), DRP= Dissolved Reactive Phosphorous, ND = No data collected.

Annual interim DGVs for Aquatic Ecosystems for 6 to 10 metres (Shaded)

Parameter	5 th %ile	10 th %ile	20 th %ile	Median	80 th %ile	90 th %ile	95 th %ile	Sample Number
Dissolved Oxygen (mg/L)	5.8	6.3	6.9	7.9	8.9	9.3	9.6	7908
Dissolved Oxygen (%)	67.7	72.5	78.3	87.3	94.0	96.8	99.0	8471
Salinity (PPT)	12.8	15.1	17.6	23.0	26.9	28.2	29.0	8667
SpCond (µS/cm)	21300	24800	28400	36300	41799	43478	44932	8585
pH field - sensor TC	7.1	7.3	7.4	7.6	7.8	7.9	7.9	8652
Temperature (Celsius)	10.9	11.4	12.0	13.7	15.4	16.1	16.7	8686
Turbidity (NTU)	0.0	0.7	1.4	3.4	13.1	15.5	18.0	6279
Redox (mV)	272	279	290	335	385	400	413	7134

Consider halocline and bottom waters for nutrient interim DGVs.

Annual interim DGVs for Aquatic Ecosystems for 11 to 15 metres (Shaded)

Parameter	5 th %ile	10 th %ile	20 th %ile	Median	80 th %ile	90 th %ile	95 th %ile	Sample Number
Dissolved Oxygen (mg/L)	4.4	4.8	5.2	6.2	7.0	7.5	7.8	5721
Dissolved Oxygen (%)	51.5	55.7	60.9	70.3	79.1	83.3	86.7	6124
Salinity (PPT)	24.3	25.6	27.1	28.8	29.8	30.2	30.6	6298
SpCond (µS/cm)	38200	40000	42100	44447	45783	46400	47057	6224
pH field - sensor TC	7.3	7.4	7.5	7.6	7.8	7.9	7.9	6269
Temperature (Celsius)	12.1	12.4	12.8	13.7	14.4	14.8	15.0	6294
Turbidity (NTU)	0.4	0.8	1.4	3.1	12.9	14.8	16.1	4475
Redox (mV)	273	281	292	337	389	403	415	5164

Consider halocline and bottom waters for nutrient interim DGVs.

Annual interim DGVs for Aquatic Ecosystems for 16 to 20 metres (Shaded)

Parameter	5 th %ile	10 th %ile	20 th %ile	Median	80 th %ile	90 th %ile	95 th %ile	Sample Number
Dissolved Oxygen (mg/L)	3.8	4.0	4.3	5.0	5.7	6.1	6.5	4309
Dissolved Oxygen (%)	43.7	47.0	50.4	57.4	65.3	70.2	74.1	4645
Salinity (PPT)	27.2	28.4	29.2	30.0	30.6	31.0	31.5	4807
SpCond (µS/cm)	42200	44000	45000	46156	47000	47619	48200	4737
pH field - sensor TC	7.3	7.4	7.4	7.6	7.7	7.8	7.9	4778
Temperature (Celsius)	12.8	12.9	13.2	13.7	14.2	14.5	14.7	4801
Turbidity (NTU)	0.6	0.9	1.4	3.2	13.1	14.8	15.9	3347
Redox (mV)	274	282	297	342	392	406	417	4020

Consider halocline and bottom waters for nutrient interim DGVs.

Annual interim DGVs for Aquatic Ecosystems for 21 to 25 metres (Shaded)

Parameter	5 th %ile	10 th %ile	20 th %ile	Median	80 th %ile	90 th %ile	95 th %ile	Sample Number
Dissolved Oxygen (mg/L)	3.5	3.7	4.0	4.5	5.2	5.4	5.7	3059
Dissolved Oxygen (%)	40.5	43.4	46.6	52.9	59.8	63.3	66.3	3260
Salinity (PPT)	27.6	28.9	29.7	30.4	30.9	31.3	31.8	3365
SpCond (µS/cm)	42800	44600	45700	46700	47500	48000	48700	3327
pH field - sensor TC	7.3	7.3	7.4	7.6	7.7	7.8	7.9	3355
Temperature (Celsius)	12.8	13.0	13.3	13.7	14.2	14.4	14.6	3368
Turbidity (NTU)	0.7	1.0	1.6	3.5	13.4	14.7	15.6	2356
Redox (mV)	274	283	298	341	391	407	419	2913

Consider halocline and bottom waters for nutrient interim DGVs.

Summer interim DGVs for Aquatic Ecosystems for depth ranges (Shaded)

Parameter	Depth Range	5 th %ile	10 th %ile	20 th %ile	Median	80 th %ile	90 th %ile	95 th %ile	Sample Number
DO (mg/L)	6-10m	5.6	6.1	6.6	7.5	8.3	8.7	8.9	2607
DO (%)	6-10m	66.3	70.6	76.3	85.3	92.7	96.5	98.6	3171
DO (mg/L)	11-15m	4.6	4.9	5.3	6.0	6.7	7.0	7.3	1967
DO (%)	11-15m	52.4	56.6	60.9	68.9	76.2	80.0	82.8	2369
DO (mg/L)	16-20m	3.8	4.2	4.5	5.1	5.7	6.1	6.3	1485
DO (%)	16-20m	43.9	48.1	51.5	58.2	65.1	69.6	72.8	1824
DO (mg/L)	21-25m	3.6	3.8	4.1	4.7	5.3	5.6	5.8	1064
DO (%)	21-25m	40.9	43.4	47.5	54.1	60.9	64.8	67.5	1270

DO = Dissolved Oxygen

Autumn interim DGVs for Aquatic Ecosystems for depth ranges (Shaded)

Parameter	Depth Range	5 th %ile	10 th %ile	20 th %ile	Median	80 th %ile	90 th %ile	95 th %ile	Sample Number
DO (mg/L)	6-10m	5.3	5.8	6.6	7.8	8.9	9.3	9.6	2243
DO (%)	6-10m	62.4	68.3	76.7	87.5	93.8	96.9	100.2	2242
DO (mg/L)	11-15m	4.0	4.3	4.7	5.7	6.6	7.0	7.4	1630
DO (%)	11-15m	47.2	50.8	55.2	66.0	76.2	80.9	84.4	1630
DO (mg/L)	16-20m	3.5	3.8	4.0	4.5	5.2	5.6	6.0	1244
DO (%)	16-20m	40.4	44.6	47.5	53.0	60.7	65.4	69.5	1241
DO (mg/L)	21-25m	3.4	3.6	3.8	4.2	4.9	5.2	5.4	842
DO (%)	21-25m	40.0	42.5	45.0	49.8	57.2	60.3	63.6	838

DO = Dissolved Oxygen

Winter interim DGVs for Aquatic Ecosystems for depth ranges (Shaded)

Parameter	Depth Range	5 th %ile	10 th %ile	20 th %ile	Median	80 th %ile	90 th %ile	95 th %ile	Sample Number
DO (mg/L)	6-10m	6.4	6.7	7.2	8.2	9.1	9.6	10.0	1602
DO (%)	6-10m	71.9	75.1	79.2	88.2	94.4	96.5	98.3	1602
DO (mg/L)	11-15m	5.0	5.4	5.6	6.4	7.3	7.7	8.1	1120
DO (%)	11-15m	58.0	61.9	64.7	72.5	82.0	85.4	88.6	1121
DO (mg/L)	16-20m	4.0	4.2	4.6	5.2	5.8	6.3	6.6	870
DO (%)	16-20m	45.9	49.2	53.2	60.0	66.9	71.9	75.7	870
DO (mg/L)	21-25m	3.4	3.8	4.1	4.6	5.2	5.4	5.7	609
DO (%)	21-25m	40.2	44.2	48.1	53.7	60.0	62.6	65.7	608

DO = Dissolved Oxygen

Spring interim DGVs for Aquatic Ecosystems for depth ranges (Shaded)

Parameter	Depth Range	5 th %ile	10 th %ile	20 th %ile	Median	80 th %ile	90 th %ile	95 th %ile	Sample Number
DO (mg/L)	6-10m	6.9	7.2	7.7	8.5	9.2	9.5	9.8	1456
DO (%)	6-10m	76.9	79.4	83.8	90.0	95.4	97.6	99.4	1456
DO (mg/L)	11-15m	5.1	5.5	6.0	6.8	7.5	7.9	8.2	1004
DO (%)	11-15m	58.8	62.8	68.0	76.5	83.6	87.6	91.0	1004
DO (mg/L)	16-20m	4.0	4.3	4.6	5.3	6.1	6.5	6.7	710
DO (%)	16-20m	46.1	49.4	52.9	60.6	69.5	74.1	77.0	710
DO (mg/L)	21-25m	3.6	3.7	4.1	4.6	5.2	5.5	5.7	544
DO (%)	21-25m	41.8	43.9	47.9	53.4	60.0	63.2	65.3	544

DO = Dissolved Oxygen

Appendix A – Summary of interim DGVs

Surface	Physico-chemical indicators and interim default guideline values for aquatic ecosystems																				
	DO (mg/L)		DO (% sat)		Salinity	SpCond	pH		Temp (°C)		Turb	Redox	Chl a	TAN as N	NO _x as N	NO ₃ as N	NO ₂ as N	Total N as N	Total P as P	DRP as P	TSS
	lower	upper	lower	upper	(PPT)	(µS/cm)	lower	upper	lower	upper	NTU	(mV)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Annual	8.8	10.4	94.9	103.4	13.6	22535	7.1	7.8	10.7	18.2	17.0	376	ND	6.0	36.0	26.2	2.0	ND	ND	2.0	16.0
Summer	8.4	9.5	96.4	106.8	14.2	23500	7.3	7.9	16.2	20.5	15.3	382	ND	5.0	13.0	10.0	2.0	ND	ND	2.0	18.8
Autumn	9.0	10.4	95.3	100.8	13.5	22660	7.2	7.7	11.3	16.1	25.5	378	ND	8.0	24.4	32.0~	3.0	ND	ND	3.0	15.5
Winter	9.6	11.2	92.4	102.0	13.9	22820	7.1	7.7	8.7	10.3	13.9	348	ND	8.4	64.0	ND	2.0	ND	ND	3.0	14.4
Spring	9.2	10.2	94.1	102.1	12.2	20697	7.1	7.6	11.1	14.7	15.3	390	ND	3.0	28.0	28.0	2.0	ND	ND	2.0	15.7

NB: DO (dissolved oxygen), SPCond (Specific conductance), Turb (turbidity), Redox (Reduction / Oxidation potential), Chl a (Chlorophyll a – Lab analysis), TAN (Total Ammonia Nitrogen (NH₃ and NH₄⁺)), NO_x (Nitrite and Nitrate), NO₃ (Nitrate), NO₂ (Nitrite), DRP (Dissolved reactive phosphorous), ND = No Data, ~ <95% confidence. Figures shown are based on data collected from 04/05/1993 to 14/10/2009.

Halocline	Physico-chemical indicators and interim default guideline values for aquatic ecosystems																				
	DO (mg/L)		DO (% sat)		Salinity	SpCond	pH		Temp (°C)		Turb	Redox	Chl a	TAN as N	NO _x as N	NO ₃ as N	NO ₂ as N	Total N as N	Total P as P	DRP as P	TSS
	lower	upper	lower	upper	(PPT)	(µS/cm)	lower	upper	lower	upper	NTU	(mV)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Annual	7.7	8.8	85.4	95.4	22.4	35432	7.4	7.8	11.7	16.3	13.2	385	ND	9.0	56.4	41.0	3.0	ND	ND	3.0	20.0
Summer	7.4	8.3	85.0	95.3	22.5	35700	7.5	7.9	15.0	17.4	11.8	392	ND	8.0	40.0	27.2	2.0	ND	ND	2.0	23.0
Autumn	7.6	8.7	85.1	94.7	22.1	35149	7.4	7.8	12.7	15.5	14.1	384	ND	10.0	41.6	39.0~	3.0	ND	ND	3.0	18.6
Winter	8.3	9.4	87.7	96.5	22.4	35145	7.2	7.7	10.4	11.8	12.2	356	ND	9.0	80.2	ND	2.0	ND	ND	3.0	17.4
Spring	8.0	8.9	85.6	93.8	22.0	34884	7.3	7.7	11.3	13.2	14.3	395	ND	8.0	56.8	52.0	3.0	ND	ND	3.0	19.3

NB: DO (dissolved oxygen), SPCond (Specific conductance), Turb (turbidity), Redox (Reduction / Oxidation potential), Chl a (Chlorophyll a – Lab analysis), TAN (Total Ammonia Nitrogen (NH₃ and NH₄⁺)), NO_x (Nitrite and Nitrate), NO₃ (Nitrate), NO₂ (Nitrite), DRP (Dissolved reactive phosphorous), ND = No Data, ~ <95% confidence. Figures shown are based on data collected from 04/05/1993 to 14/10/2009.

Bottom	Physico-chemical indicators and interim default guideline values for aquatic ecosystems																				
	DO (mg/L)		DO (% sat)		Salinity	SpCond	pH		Temp (°C)		Turb	Redox	Chl a	TAN as N	NO _x as N	NO ₃ as N	NO ₂ as N	Total N as N	Total P as P	DRP as P	TSS
	lower	upper	lower	upper	(PPT)	(µS/cm)	lower	upper	lower	upper	NTU	(mV)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Annual	4.3	6.4	50.2	73.3	31.1	47619	7.5	7.8	13.1	14.5	14.0	389	ND	13.0	93.8	47.2	2.0	ND	ND	5.4	29.0
Summer	4.4	6.3	51.7	73.0	31.0	47500	7.5	7.8	13.4	14.6	12.5	397	ND	11.0	45.2	22.2	2.0	ND	ND	3.0	32.0
Autumn	4.1	5.8	48.5	67.9	31.0	47619	7.5	7.8	14.0	14.8	13.0	391	ND	13.6	71.4	60.0~	2.0	ND	ND	4.0	26.7
Winter	4.4	6.9	51.1	77.8	31.4	48045	7.4	7.8	12.8	13.9	13.6	353	ND	12.0	113.0	ND	2.0	ND	ND	9.0	25.3
Spring	4.4	7.2	51.5	79.7	31.1	47616	7.4	7.7	12.7	13.5	15.3	388	ND	14.0	93.0	62.2	3.0	ND	ND	6.0	29.0

NB: DO (dissolved oxygen), SpCond (Specific conductance), Turb (turbidity), Redox (Reduction / Oxidation potential), Chl a (Chlorophyll a – Lab analysis), TAN (Total Ammonia Nitrogen (NH₃ and NH₄⁺)), NO_x (Nitrite and Nitrate), NO₃ (Nitrate), NO₂ (Nitrite), DRP (Dissolved reactive phosphorous), ND = No Data, ~ <95% confidence. Figures shown are based on data collected from 04/05/1993 to 14/10/2009.

Depth Ranges (Annual)	Physico-chemical indicators and interim default guideline values for aquatic ecosystems											
	DO (mg/L)		DO (% sat)		Salinity	SpCond	pH		Temp (°C)		Turb	Redox
	lower	upper	lower	upper	(PPT)	(µS/cm)	lower	upper	lower	upper	NTU	(mV)
6-10m	6.9	8.9	78.3	94.0	26.9	41799	7.4	7.8	12.0	15.4	13.1	385
11-15m	5.2	7.0	60.9	79.1	29.8	45783	7.5	7.8	12.8	14.4	12.9	389
16-20m	4.3	5.7	50.4	65.3	30.6	47000	7.4	7.7	13.2	14.2	13.1	392
21-25m	4.0	5.2	46.6	59.8	30.9	47500	7.4	7.7	13.3	14.2	13.4	391

NB: DO (dissolved oxygen), SpCond (Specific conductance), Turb (turbidity), Redox (Reduction / Oxidation potential).
Figures shown above are based on data collected from 04/05/1993 to 14/10/2009.

Summer	Physico-chemical indicators and interim default guideline values for aquatic ecosystems											
	DO (mg/L)		DO (% sat)		Salinity	SpCond	pH		Temp (°C)		Turb	Redox
	lower	upper	lower	upper	(PPT)	(µS/cm)	lower	upper	lower	upper	NTU	(mV)
6 – 10 m	6.6	8.3	76.3	92.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11 – 15 m	5.3	6.7	60.9	76.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16 – 20 m	4.5	5.7	51.5	65.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21 – 25 m	4.1	5.3	47.5	60.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NB: DO (dissolved oxygen), SpCond (Specific conductance), Turb (turbidity), Redox (Reduction / Oxidation potential).
Figures shown above are based on data collected from 04/05/1993 to 14/10/2009. N/A = Not Available.

Autumn	Physico-chemical indicators and interim default guideline values for aquatic ecosystems											
	DO (mg/L)		DO (% sat)		Salinity	SpCond	pH		Temp (°C)		Turb	Redox
	lower	upper	lower	upper	(PPT)	(µS/cm)	lower	upper	lower	upper	NTU	(mV)
6 – 10 m	6.6	8.9	76.7	93.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11 – 15 m	4.7	6.6	55.2	76.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16 – 20 m	4.0	5.2	47.5	60.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21 – 25 m	3.8	4.9	45.0	57.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NB: DO (dissolved oxygen), SPCond (Specific conductance), Turb (turbidity), Redox (Reduction / Oxidation potential).
Figures shown above are based on data collected from 04/05/1993 to 14/10/2009. N/A = Not Available.

Winter	Physico-chemical indicators and interim default guideline values for aquatic ecosystems											
	DO (mg/L)		DO (% sat)		Salinity	SpCond	pH		Temp (°C)		Turb	Redox
	lower	upper	lower	upper	(PPT)	(µS/cm)	lower	upper	lower	upper	NTU	(mV)
6 – 10 m	7.2	9.1	79.2	94.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11 – 15 m	5.6	7.3	64.7	82.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16 – 20 m	4.6	5.8	53.2	66.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21 – 25 m	4.1	5.2	48.1	60.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NB: DO (dissolved oxygen), SPCond (Specific conductance), Turb (turbidity), Redox (Reduction / Oxidation potential).
Figures shown above are based on data collected from 04/05/1993 to 14/10/2009. N/A = Not Available.

Spring	Physico-chemical indicators and interim default guideline values for aquatic ecosystems											
	DO (mg/L)		DO (% sat)		Salinity	SpCond	pH		Temp (°C)		Turb	Redox
	lower	upper	lower	upper	(PPT)	(µS/cm)	lower	upper	lower	upper	NTU	(mV)
6 – 10 m	7.7	9.2	83.8	95.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11 – 15 m	6.0	7.5	68.0	83.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16 – 20 m	4.6	6.1	52.9	69.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21 – 25 m	4.1	5.2	47.9	60.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NB: DO (dissolved oxygen), SPCond (Specific conductance), Turb (turbidity), Redox (Reduction / Oxidation potential).
Figures shown above are based on data collected from 04/05/1993 to 14/10/2009. N/A = Not Available.

Environment Protection Authority

GPO Box 1550 Hobart 7001

T (03) 6165 4599

E enquiries@epa.tas.gov.au

W www.epa.tas.gov.au



ENVIRONMENT PROTECTION AUTHORITY