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Appendix 16–A FULL DESCRIPTION OF HISTORICAL DNRW (2010) WATER QUALITY DATA

Table 16A-1 Summary of water quality results collected at DNRW monitoring site Dawson River at Taroom (DNRW, 2010)

Parameter	Units	No. of Samples	Median	Minimum	Maximum	Relevant Guideline	Start Date	Finish Date
<i>In-situ</i>								
pH	pH units	132	7.7	6.5	8.5	6.5-7.5	1/12/1963	10/11/2006
Conductivity	µS/cm	100	258	89	522	340	1/12/1963	10/11/2006
DO	mg/L	63	5.0	2.0	10.5	x	25/06/1994	5/05/2006
Temperature	°C	136	23.0	9.0	31.0	x	3/02/1966	23/08/2006
Turbidity	NTU	97	59	1.0	2790	25	24/07/1981	10/11/2006
<i>Metals</i>								
Aluminium*	mg/L	70	0.050	0	1.230	0.055	15/11/1990	10/11/2006
Boron	mg/L	87	0.030	0	1.000	0.370	13/04/1973	10/11/2006
Copper*	mg/L	72	0.03	0	0.05	0.0014	15/11/1990	10/11/2006
Manganese*	mg/L	69	0.02	0	1.0	1.9	29/07/1984	10/11/2006
Zinc*	mg/L	66	0.01	0	0.70	0.008	3/12/1990	10/11/2006
<i>Nutrients</i>								
Nitrate as N	mg/L	99	1.0	0	10.0	0.01	13/04/1973	5/05/2006
Nitrite + Nitrate as N	mg/L	1	n/a	0.03	0.03	0.015	5/05/2006	5/05/2006
Total Kjeldahl Nitrogen as N	mg/L	1	n/a	0.67	0.67	0.225	30/11/1994	5/05/2006
Total Nitrogen as N	mg/L	40	0.670	0.18	3.80	0.25	20/08/1998	5/05/2006
Total Phosphorus as P	mg/L	63	0.140	0.004	1.38	0.03	31/08/1994	5/05/2006
Reactive Phosphorus - Filtered	mg/L	49	0.045	0.003	0.341	0.015	31/08/1994	5/05/2006

* denotes measurement as soluble not total.

x denotes the absence of a guideline value.

n/a denotes a data set too small to generate median values.

Median values that exceed the relevant guideline are highlighted and bolded in red.



Table 16A-2 Summary of water quality results collected at DNRW monitoring site Dawson River at Nathan Dam (DNRW, 2010)

Parameter	Units	No. of Samples	Median	Minimum	Maximum	Relevant Guideline	Start Date	Finish Date
<i>In-situ</i>								
pH	pH units	3	n/a	7.1	7.7	6.5-7.5	21/08/1998	14/09/1999
Conductivity	µS/cm	3	n/a	160	181	340	21/08/1998	14/09/1999
DO	mg/L	3	n/a	4.0	9.3	x	21/08/1998	14/09/1999
Temperature	°C	3	n/a	17.3	19.4	x	21/08/1998	14/09/1999
Turbidity	NTU	3	n/a	33	190	25	21/08/1998	14/09/1999
<i>Metals</i>								
Aluminium*	mg/L	3	n/a	0	0.03	0.055	21/08/1998	14/09/1999
Boron	mg/L	3	n/a	0	0	0.37	21/08/1998	14/09/1999
Copper*	mg/L	3	n/a	0	0	0.0014	21/08/1998	14/09/1999
Manganese*	mg/L	3	n/a	0	0	1.9	21/08/1998	14/09/1999
Zinc*	mg/L	3	n/a	0.01	0.04	0.008	21/08/1998	14/09/1999
<i>Nutrients</i>								
Nitrate as N	mg/L	3	n/a	0.21	1.30	0.01	21/08/1998	14/09/1999
Total Kjeldahl Nitrogen as N	mg/L	1	n/a	0.92	0.92	0.225	21/08/1998	14/09/1999
Total Nitrogen as N	mg/L	3	n/a	0.23	0.92	0.25	21/08/1998	14/09/1999
Total Phosphorus as P	mg/L	3	n/a	0.08	0.28	0.3	21/08/1998	14/09/1999
<i>Other</i>								
Colour	Hazen Units	3	n/a	17	29	50	21/08/1998	14/09/1999

* denotes measurement as soluble not total.

x denotes the absence of a guideline value.

n/a denotes a data set too small to generate median values.

Median values that exceed the relevant guideline are highlighted and bolded in red.

Table 16A-3 Summary of water quality results collected at DNRW monitoring site Dawson River at Glebe Recorder (DNRW, 2010)

Parameter	Units	No. of Samples	Median	Minimum	Maximum	Relevant Guideline	Start Date	Finish Date
<i>In-situ</i>								
pH	pH units	24	7.6	7.1	8.3	6.5-7.5	2/12/1963	15/12/2005
Conductivity	µS/cm	24	180	115	430	340	2/12/1963	15/12/2005
DO	mg/L	1	n/a	9.4	9.4	x	15/12/2005	15/12/2005
Temperature	°C	1	n/a	28.4	28.4	x	15/12/2005	15/12/2005
Turbidity	NTU	1	n/a	330	330	25	15/12/2005	15/12/2005
<i>Metals</i>								
Aluminium	mg/L	1	n/a	0.06	0.06	0.055	15/12/2005	15/12/2005
Boron	mg/L	2	n/a	0.05	0.06	0.37	14/04/1973	15/12/2005
Copper	mg/L	1	n/a	0.03	0.03	0.0014	15/12/2005	15/12/2005
Manganese	mg/L	1	n/a	0.03	0.03	1.9	15/12/2005	15/12/2005
Zinc	mg/L	1	n/a	0.07	0.07	0.008	15/12/2005	15/12/2005
<i>Nutrients</i>								
Nitrate as N	mg/L	7	n/a	0	2.40	0.01	23/08/1975	15/12/2005
Total Nitrogen as N	mg/L	1	n/a	1.42	1.42	0.25	12/12/2005	15/12/2005
Total Phosphorus as P	mg/L	1	n/a	0.48	0.48	0.03	12/12/2005	15/12/2005
<i>Other</i>								
Colour	Hazen Units	1	n	6	6	50	15/12/2005	15/12/2005

* denotes measurement as soluble not total.

x denotes the absence of a guideline value.

n/a denotes a data set too small to generate median values.

Median values that exceed the relevant guideline are highlighted and bolded in red.

Table 16A-4 Summary of water quality results collected at DNRW monitoring site Dawson River at Glebe Tailwater (DNRW, 2010)

Parameter	Units	No. of Samples	Median	Minimum	Maximum	Relevant Guideline	Start Date	Finish Date
<i>In-situ</i>								
pH	pH units	33	7.6	7.0	8.2	6.5-7.5	22/08/1975	20/11/1997
Conductivity	µS/cm	37	189	117	370	340	25/03/1984	17/08/2000
DO	mg/L	10	7.7	5.5	10.0	x	28/03/1995	17/08/2000
Temperature	°C	39	24.0	10.0	30.0	x	17/08/1982	17/08/2000
Turbidity	NTU	21	100	17	241	25	21/06/1984	20/11/1997
<i>Metals</i>								
Aluminium*	mg/L	11	0.09	0.02	0.41	0.055	5/12/1989	20/11/1997
Boron	mg/L	19	0.02	0	0.03	0.37	21/06/1984	20/11/1997
Copper*	mg/L	12	0.02	0.01	0.03	0.0014	5/12/1989	20/11/1997
Manganese*	mg/L	7	n/a	0	0.01	1.9	4/07/1985	20/11/1997
Zinc*	mg/L	6	n/a	0	0.02	0.008	5/12/1989	20/11/1997
<i>Nutrients</i>								
Nitrate as N	mg/L	2	n/a	0.02	0.05	0.01	3/12/1996	20/11/1997
Nitrite + Nitrate as N	mg/L	2	n/a	0.11	1.10	0.015	3/12/1996	10/06/1997
Total Kjeldahl Nitrogen as N	mg/L	1	n/a	0.75	0.75	0.225	20/11/1987	8/09/2006
Total Nitrogen as N	mg/L	1	n/a	2.55	2.55	0.25	8/09/2006	8/09/2006
Total Phosphorus as P	mg/L	4	n/a	0.11	0.52	0.03	3/12/1996	8/09/2006
Reactive Phosphorus - Filtered	mg/L	2	n/a	0.0179	0.084	0.015	3/12/1996	8/09/2006
<i>Other</i>								
Colour	Hazen Units	16	33	5	100	50	21/06/1984	20/11/1997

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x denotes the absence of a guideline value.

n/a denotes a data set too small to generate median values.

Median values that exceed the relevant guideline are highlighted and bolded in red.

Table 16A-5 Summary of water quality results collected at DNRW monitoring site Dawson River at Glebe Headwater (DNRW, 2010)

Parameter	Units	No. of Samples	Median	Minimum	Maximum	Relevant Guideline	Start Date	Finish Date
<i>In-situ</i>								
pH	pH units	39	7.5	6.5	8.3	6.5-7.5	22/01/1982	25/10/2005
Conductivity	µS/cm	39	164	118	340	340	22/01/1982	25/10/2005
DO	mg/L	18	5.9	3.4	10.0	x	28/03/1995	25/10/2005
Temperature	°C	29	25.0	15.7	30.0	x	10/10/1983	25/10/2005
Turbidity	NTU	36	168	2.2	887	25	22/01/1982	25/10/2005
<i>Metals</i>								
Aluminium*	mg/L	29	0.05	0	0.33	0.055	2/08/1991	25/10/2005
Boron	mg/L	36	0.02	0	0.10	0.37	25/05/1983	25/10/2005
Cadmium	mg/L	1	n/a	0.20	0.20	0.0002	13/04/1999	25/10/2005
Chromium	mg/L	1	n/a	2.0	2.0	0.001	13/04/1999	25/10/2005
Copper*	mg/L	1	n/a	4.0	4.0	0.0014	13/04/1999	25/10/2005
Lead	mg/L	1	n/a	2.0	2.0	0.0034	13/04/1999	25/10/2005
Manganese	mg/L	1	n/a	90.0	90.0	1.9	13/04/1999	25/10/2005
Nickel	mg/L	1	n/a	5.0	5.0	0.011	13/04/1999	25/10/2005
Zinc*	mg/L	1	n/a	20.0	20.0	0.008	13/04/1999	25/10/2005
<i>Nutrients</i>								
Nitrate as N	mg/L	38	1.31	0	4.60	0.01	22/01/1982	25/10/2005
Nitrite + Nitrate as N	mg/L	26	0.105	0.002	1.3	0.015	26/03/1996	27/02/2001
Total Kjeldahl Nitrogen as N	mg/L	1	n/a	1.90	1.90	0.225	18/09/1996	18/09/1996
Total Nitrogen as N	mg/L	10	0.96	0.60	1.59	0.25	19/10/1998	25/10/2005
Total Phosphorus as P	mg/L	29	0.32	0.01	0.74	0.03	28/03/1995	25/10/2005
Reactive Phosphorus - Filtered	mg/L	26	0.089	0.009	0.172	0.015	26/03/1996	27/02/2001



Parameter	Units	No. of Samples	Median	Minimum	Maximum	Relevant Guideline	Start Date	Finish Date
<i>In-situ</i>								
<i>Other</i>								
Colour	Hazen Units	33	26	7	208	50	25/05/1983	25/10/2005
Chl a	µg/L	4	n/a	8.0	28.0	0.005	7/07/1999	24/06/1905

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