

Appendix II.2

The 2004-2006 Biological Survey of Rivers

Exceedences of limits set in the Salmonid Waters Regulation

Appendix II.2

River locations at which parameter values exceeded limits set in the Salmonid Waters Regulation in the period 2004-2006. Table shows the total number of samples taken and the number exceeding the prescribed limit(s).

Suspended Solids:

Criteria: Average annual value must not exceed 25mg/l

Code	River	Station	Location	No. of Samples	Average
22M01	Maine	800	Castlemaine Bridge	34	48
39S02	Swilly	350	u/s Sprack Burn	8	54

Dissolved Oxygen (DO):

Criteria: All values to be greater than 6 mg/l O₂ and 50% of values to be greater than 9 mg/l O₂

Code	River	Station	Location	No. of Samples	No <6	No <9	% <9
15N01	Nore	200	Nore Br, SE of Roscrea	27	1	12	44
15N01	Nore	300	Quaker's Br	28	1	14	50
22M01	Maine	50	Bridge S.w Of Tobermaing House	33	17	15	97
27F01	Fergus	100	Poplar Bridge	28	1	5	18
27F01	Fergus	300	Bridge in Corofin	28	1	6	21
27F01	Fergus	400	Addroon Bridge	28	1	8	29
27F01	Fergus	500	Nutfield Bridge	29	1	10	34
27F01	Fergus	600	Drehidnagower Bridge	29	1	8	28
27F01	Fergus	700	Bridge near Clonroad House	29	1	7	24

BOD:

Criteria: 95% of values to be not greater than 5 mg/l O₂

Code	River	Station	Location	No. of Samples	No > 5	% > 5
01F01	Finn	700	Footbridge, Ballybofey	25	3	12.0
01F01	Finn	800	Bridge S. of Stranorlar	25	2	8.0
01F01	Finn	900	Br S of Killygordon	14	1	7.1
22M01	Maine	600	Maine Br - Currans	33	2	6
22M01	Maine	800	Castlemaine Bridge	33	2	6
23F01	Feale	600	Listowel Bridge	36	2	6
27F01	Fergus	300	Bridge in Corofin	31	3	10
27F01	Fergus	700	Bridge near Clonroad House	31	2	6
39L02	Lurg	280	d/s Kilmacrennan STW	28	9	32
39S02	Swilly	300	Old Town, Letterkenny	8	1	13

TOTAL AMMONIUM:

Criteria: 95% of samples to be less than 1 mg/l NH₄

Code	River	Station	Location	No. of Samples	No > 1	% > 1
22M01	Maine	50	Bridge S.w Of Tobermaing House	32	2	6
39L02	Lurg	280	d/s Kilmacrennan STW	28	6	21
39S02	Swilly	350	u/s Sprack Burn	7	1	14
39S02	Swilly	370	d/s Sprack Burn	7	1	14

UN-IONISED AMMONIA:

Criteria: 95% of samples to be less than 0.02 mg/l NH₃

Code	River	Station	Location	No. of Samples	No > 0.02	% > 0.02
39S02	Swilly	370	d/s Sprack Burn	7	1	14

Appendix II.2 Contd.**NITRITES:****Criteria: 95% of samples to be less than 0.05 mg/l NO₂**

Code	River	Station	Location	No. of Samples	No > 0.05	% > 0.05
01F01	Finn	700	Footbridge, Ballybofey	24	5	21
01F01	Finn	800	Bridge S. of Stranorlar	24	8	33
01F01	Finn	900	Br S of Killygordon	14	5	36
01F01	Finn	1000	Liscooley Br	15	3	20
01F01	Finn	1100	Castlefin Bridge	18	3	17
07B04	Boyne	400	Ballyboggan Br	50	38	76
07B04	Boyne	500	Leinster Br	29	22	76
07B04	Boyne	600	Ashfield Br	79	62	78
07B04	Boyne	700	Stonyford Br	37	29	78
07B04	Boyne	800	Inchamore Br	86	24	28
07B04	Boyne	900	Scarriff Br	79	51	65
07B04	Boyne	1000	Derrinydaly Br	37	26	70
07B04	Boyne	1200	West Br Trim	30	23	77
07B04	Boyne	1300	Newtown Trim Br	37	25	68
07B04	Boyne	1400	u/s Knightsbrook R confl (RHS)	81	51	63
07B04	Boyne	1450	600 d/s confl of Boycetown	81	53	65
07B04	Boyne	1500	Bective Br	37	25	68
07B04	Boyne	1600	Ballinter Br	85	47	55
07B04	Boyne	1700	Kilcarn Old Bridge	37	22	59
07B04	Boyne	1800	Railway Br Navan	81	48	59
07B04	Boyne	1810	Br u/s Blackwater confl Navan	4	4	100
07B04	Boyne	1900	2km d/s Navan (LHS)	83	70	84
07B04	Boyne	2000	Broadboyne Br	37	28	76
07B04	Boyne	2100	Slane Br	87	64	74
07B04	Boyne	2150	Ford S of Broc Ho	28	17	61
07B04	Boyne	2200	Oldbridge (Obelisk Br)	98	64	65
10D01	Dargle	200	D/s Glencullen R confl	34	3	9
10D00	Dargle	250	1km u/s Bray Br	34	4	12
10V02	Vartry	100	Annagolan Br	35	6	17
10V00	Vartry	200	Ashford Br	4	1	25
10V01	Vartry	300	Newrath Br	34	16	47
12S02	Slaney	400	Waterloo Bridge	35	2	6
12S02	Slaney	600	Tuckmill Bridge	35	3	9
12S02	Slaney	700	Just d/s Baltinglass Bridge	35	8	23
12S02	Slaney	770	Maidens Ford	26	5	19
12S02	Slaney	800	Aldborough Br	9	2	22
12S02	Slaney	950	0.2 km u/s Rathvilly Br	26	4	15
12S02	Slaney	1300	Tullow Br	26	7	27
12S02	Slaney	1400	Ford 3km d/s Tullow Br	25	8	32
12S02	Slaney	1600	Kilcarrig Br	26	11	42
12S02	Slaney	1800	Slaney Br Bunclody	26	9	35
12S02	Slaney	2000	1.3km d/s Clohamon Br	24	6	25
12S02	Slaney	2200	Scarawalsh Br	26	11	42
12S02	Slaney	2300	Enniscorthy Br	25	7	28
12S02	Slaney	2500	Edermine Br	24	10	42
15N01	Nore	100	Curragunneen Br	30	9	30
15N01	Nore	200	Nore Br, SE of Roscrea	29	21	72
15N01	Nore	300	Quaker's Br	30	25	83
15N01	Nore	400	New Br	29	23	79
15N01	Nore	600	Castletown (New Road) Br	29	7	24
15N01	Nore	800	New Br	28	9	32
15N01	Nore	1000	Waterloo Br	30	20	67
15N01	Nore	1200	New Br	30	20	67
15N01	Nore	1300	Tallyho Br	30	26	87
15N01	Nore	1400	0.5 km u/s Ballyragget	30	24	80

Appendix II.2 Contd.**Criteria: 95% of samples to be less than 0.05 mg/l NO₂**

Code	River	Station Location		No. of Samples	No > 0.05	% > 0.05
NITRITES: (Contd)						
15N01	Nore	1500	1.5 km d/s Ballyragget	27	22	81
15N01	Nore	1700	Threecastles Br	29	24	83
15N01	Nore	1750	Troyswood	41	28	68
15N01	Nore	1950	Ossory Br	30	22	73
15N01	Nore	2100	Bennettsbridge	30	26	87
15N01	Nore	2200	Ballylinch Br	30	26	87
15N01	Nore	2300	Thomastown Br (Mid)	30	26	87
15N01	Nore	2500	Inistioge Br	30	24	80
16A01	Aherlow	300	Stagdale Br	31	23	74
16A01	Aherlow	600	College Br	31	10	32
16A01	Aherlow	800	Cappa Old Br	31	7	23
16A01	Aherlow	900	Killardry Br	31	12	39
18B02	Blackwater (Munster)	200	Nohoval Br.	34	4	12
18B02	Blackwater (Munster)	300	Duncannon B	34	4	12
18B02	Blackwater (Munster)	700	Charles Br.	34	6	18
18B02	Blackwater (Munster)	900	Colthurst B	34	7	21
18B02	Blackwater (Munster)	1000	Ballymaquirke Br.	33	6	18
18B02	Blackwater (Munster)	1300	Lombardstown	34	9	26
18B02	Blackwater (Munster)	1510	Ten Arches	34	9	26
18B02	Blackwater (Munster)	1690	1.5 d/s Mal	30	11	37
18B02	Blackwater (Munster)	1900	Killavullen Br	34	10	29
18B02	Blackwater (Munster)	2000	Ballyhooley Br	34	10	29
18B02	Blackwater (Munster)	2100	Cregg Castle	34	10	29
18B02	Blackwater (Munster)	2300	Illeclash	34	10	29
18B02	Blackwater (Munster)	2450	Kilmurry	34	13	38
18B02	Blackwater (Munster)	2500	Ballyduff Br	27	11	41
18B02	Blackwater (Munster)	2600	Lismore Br	26	11	42
18B02	Blackwater (Munster)	2700	2km d/s Lismore Br	24	8	33
18B02	Blackwater (Munster)	2900	1 km d/s Cappoquin	26	7	27
18B02	Blackwater (Munster)	3000	Dromana Ferry	26	13	50
18B05	Bride (Blackwater)	800	Tallowbridge	26	9	35
18B05	Bride (Blackwater)	1000	Br u/s Blackwater R. Conf.	26	12	46
18B05	Bride (Blackwater)	700	Mogeely Br.	34	12	35
18B05	Bride (Blackwater)	500	Beal Ford B	34	7	21
18B05	Bride (Blackwater)	400	Brides Br	34	10	29
18B05	Bride (Blackwater)	320	Dr.Barry Br	34	6	18
18B05	Bride (Blackwater)	50	Old Bride B	34	3	9
19L03	Lee (Cork)	360	Bealahaglashin Br.	33	6	18
19L03	Lee (Cork)	400	Carrigadrohid	34	8	24
19L03	Lee (Cork)	500	Rooves Beg	34	10	29
19L03	Lee (Cork)	600	Inniscarra	34	16	47
19L03	Lee (Cork)	700	Ang.Rest.Br	34	16	47
19L03	Lee (Cork)	800	Co.Corp.Int	34	19	56
20A02	Argideen	30	Br. at Inchinattin Cross.	34	3	9
20A02	Argideen	45	Argideen Br	34	3	9
20A02	Argideen	60	Ballycummer	34	4	12
20A02	Argideen	100	Jones Br.	34	5	15
20A02	Argideen	150	Castleview	34	5	15
20A02	Argideen	200	Kilmaloda B	34	4	12
22M01	Maine	50	Bridge S.w Of Tobermaing House	33	4	12
22M01	Maine	300	Herbert Bridge	33	3	9
22M01	Maine	400	Br 2km D/S Castleisland	33	4	12
22M01	Maine	500	Br Nw Of Currans	33	5	15
22M01	Maine	700	Maine Br (Lower)	34	4	12
22M01	Maine	800	Castlemaine Bridge	34	5	15
23F01	Feale	860	At Old Railway Bridge	35	3	9

Appendix II.2 Contd.**NITRITES: (Contd)****Criteria:** 95 % of samples to be less than 0.05 mg/l NO₂

Code	River	Station	Location	No. of Samples	No > 0.05	% > 0.05
39G01	Glashagh (Upper)	300	Cabra Br	26	4	15
39G02	Glashagh(Lower)	170	Barrack Bridge	24	7	29
39L01	Leannan	500	Ballydone Br (u/s L Fern)	26	5	19
39L01	Leannan	550	AGHAWONEY	22	5	23
39L01	Leannan	700	Bridge at Claragh	26	7	27
39L01	Leannan	800	DRUMONAGHAN BR.	26	4	15
34C05	Castlebar	300	Bridge at FisherHill	37	4	11
39L02	Lurgy	250	Upstream Kilmacrennan	29	7	24
39L02	Lurgy	280	Downstream Kilmacrennan	28	10	36
39M01	Maggy's Burn	150	d/s Br in Milford (u/s STW)	28	8	29
39M01	Maggy's Burn	200	d/s Milford (d/s STW)	28	27	96
39S02	Swilly	50	Swilly Br (near Breenagh)	8	1	13
39S02	Swilly	300	Old Town, Letterkenny	8	1	13
39S02	Swilly	350	u/s Sprack Burn near Church	8	2	25
39S02	Swilly	370	d/s Sprack Burn	8	2	25
30C02	Corrib	0400	Menlough Castle	36	4	11
34C06	Corroy	0200	Bridge u/s Moy River confl	37	6	16
34M03	Mullaghanoe	0300	Bridge 1 km u/s Moy River	36	4	11

Dissolved Copper:**Criteria:**95% of samples to be less than 0.005 mg/l Cu where Hardness is 10 mg/l CaCO₃.95% of samples to be less than 0.022 mg/l Cu where Hardness is 50 mg/l CaCO₃.95% of samples to be less than 0.04 mg/l Cu where Hardness is 100 mg/l CaCO₃.95% of samples to be less than 0.112 mg/l Cu where Hardness is 300 mg/l CaCO₃.

Code	River	Station	Location	No. of Samples	No > limit	% > limit
10D01	Dargle	10	Ballinagee bridge	10	1	10.0
10V01	Vartry	50	Ballinastoe Br	10	1	10
12S02	Slaney	100	Seskin Bridge	10	3	30.0
12S02	Slaney	200	Kelsha Bridge	10	1	10.0
12S02	Slaney	400	Waterloo Bridge	10	1	10.0
22B03	Brown Flesk	100	Rice Bridge	24	3	12.5
22B03	Brown Flesk	250	Fords S Of Ballybeg House	21	2	9.5
23F01	Feale	300	Bridge In Abbeyfeale	25	2	8.0
23F01	Feale	400	2.3 Km D/S Abbeyfeale	24	2	8.3
23F01	Feale	650	700m D/S Kerry Ingredients	23	3	13.0

Total Zinc**Criteria:**95% of samples to be less than 0.03 mg/l Zn where Hardness is 10 mg/l CaCO₃.95% of samples to be less than 0.2 mg/l Zn where Hardness is 50 mg/l CaCO₃.95% of samples to be less than 0.3 mg/l Zn where Hardness is 100 mg/l CaCO₃.95% of samples to be less than 0.5 mg/l Zn where Hardness is 300 mg/l CaCO₃.

Code	River	Station	Location	No. of Samples	No > limit	% > limit
10D01	Dargle	10	Ballinagee bridge	10	1	10.0
12S02	Slaney	100	Seskin Bridge	10	2	20.0

Assessment of compliance with criteria for phenols, petroleum hydrocarbons, residual chlorine and suspended solids has not been determined largely because of a general scarcity of information on these parameters

Appendix III.1

The 2004-2006 Survey of Lakes

