

## Chapter 8 WATER

- Appendix 8.1 EPA Water Quality Data

DRAFT

## HYDROMETRIC AREA 06

BALLYMASCANLAN	06B02
BIG (LOUTH)	06B01
CARRICKASLANE LOUGH STREAM *	06C04
CASTLETOWN	06C01
COUNTY WATER	06C03
CULLY WATER	06C02
DEE	06D01
DRUMSALLAGH STREAM *	06D07
FANE	06F01
FLURRY	06F02
GENTLE OWEN'S LAKE STREAM *	06G04
GLYDE	06G02
KILCURRY	06K02
KILLARY WATER	06K01
KILMAINHAM *	06K04
MAGHERACLOONE STREAM *	06M01
PROULES	06P01
TERMONFECKIN	06T01
WHITE (LOUTH)	06W01

\* Formerly Carrickaslane Lough Branch of Fane River

\* Formerly: 06G02 Glyde Drumsallagh Branch

\* Formerly: 06F01 Fane East Branch

\* Formerly 06D01:Dee Kilmainham Wood Branch

\* Formerly Magheracloone Branch of the Glyde River 06G02

River and Code: **BALLY MASCANLAN**

06B02

Tributary Of: 06F02 FLURRY

OS Catchment No: 91

OS Grid Ref of confluence: J 081 100

Date(s) Surveyed: 31/12/1990, 31/12/1991, 31/12/1994, 31/12/1997, 5/7/2000, 11/8/2003, 10/7/2006, 24/10/2007, 7/10/2008, 5/10/2009, 16/9/2010, 6/9/2012

Station Nos.	Biological Quality Ratings (Q Values)											
	1990	1991	1994	1997	2000	2003	2006	2007	2008	2009	2010	2012
0100	2-3	-	3/0	4	3/0	2/0	2/0	2/0	2-3/0	3-4	3-4	3-4
0200	-	-	-	-	-	-	-	-	3	-	-	-
0300	4-5	-	-	-	3	-	-	-	-	-	-	-
0400	-	-	-	-	-	-	-	-	-	-	-	-
0450	-	-	-	-	-	-	-	-	-	-	-	-
0500	1-2	1	3	4	3	-	-	-	-	-	-	-

Assessment: The improvement to moderate ecological condition recorded at Jonesborough Bridge in 2009 and 2010 was maintained in 2012 .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Jonesborough Br	306465	314446	36	LH
0200	Br nr Carrickaneena House	306700	313600	36	
0300	New Br	307128	311816	29	LH
0400	Br d/s New Br	0	0	0	
0450	U/s Ballymascanlan Br	0	0	0	
0500	Ballymascanlan Br	308085	310187	29	LH

area.

River and Code: **CULLY WATER**

06C02

Tributary Of: 06K02 KILCURRY

OS Catchment No: 92

OS Grid Ref of confluence: J 025 109

Date(s) Surveyed: 31/12/1978, 31/12/1982, 31/12/1986, 31/12/1990, 31/12/1994, 31/12/1997, 6/7/2000, 12/8/2003, 11/7/2006, 24/6/2009, 6/9/2012

Station Nos.	Biological Quality Ratings (Q Values)										
	1978	1982	1986	1990	1994	1997	2000	2003	2006	2009	2012
0100	4-5	5	4-5	4-5	4-5	4-5	4-5	4	4	-	-
0200	4-5	4-5	4-5	4-5	3-4	4-5	4-5	4-5	4	4	4

Assessment: The macroinvertebrate fauna indicated continuing good ecological conditions on the Cully Water just upstream of the Kilcurry River confluence in September 2012 .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Dungooly Br	300322	314006	36	LH
0200	Br u/s Kilcurry R confl	302435	310849	36	LH

## Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	30	0	100	0	100	0	0	0	0	0	0
0200	10	6	66	34	47	0	0	0	53	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **DEE**

06D01

Tributary Of: 06G02 GLYDE

OS Catchment No: 96

OS Grid Ref of confluence: O 086 935

Date(s) Surveyed: 31/12/1974, 31/12/1977, 31/12/1978, 31/12/1980, 31/12/1983, 31/12/1986, 31/12/1990, 31/12/1994, 31/12/1997, 20/7/2000, 21/7/2000, 19/8/2003, 20/8/2003, 21/8/2003, 18/7/2006, 25/7/2006, 25/9/2006, 1/10/2009, 30/9/2009, 4/10/2011, 31/8/2012, 8/9/2012

Station Nos.	Biological Quality Ratings (Q Values)														
	1974	1977	1978	1980	1983	1986	1990	1994	1997	2000	2003	2006	2009	2011	2012
0015a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0016	-	-	-	-	-	-	4-5	4	4	3-4	4	3-4	3-4	-	3-4
0025	-	-	-	-	-	-	5	4	4	4	4	4	-	-	-
0030	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-
0035	-	-	-	-	-	-	4-5	3	3	3-4	3	3	3-4	-	3
0054a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0149a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0150	-	-	-	3-4	4	-	-	-	-	-	-	-	-	-	3
0200	3-4	-	2-3	3-4	4	4	4	3	3	3-4	3-4	3-4	3	-	3-4
0300	4	-	3	4	4	3-4	4-5	-	-	-	-	-	-	-	-
0360	-	-	-	-	-	-	4	3-4	3-4	4	4	4	4	-	4

0400	-	-	-	4	4	3-4	4-5	-	-	-	-	-	-	-	-
0450	-	-	-	-	-	-	-	3-4	3-4	3-4	3-4	4	-	-	-
0500	4-5	-	3	4	4	3-4	4-5	-	-	-	-	-	-	-	-
0600	4	3-4	4	4	4-5	3-4	4-5	3-4	3	4	4	4	4	4	-
0670	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
0680	-	-	-	-	4	4	4	3-4	3-4	4	3-4	-	-	-	3
0690	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0700	2	3-4	3-4	3	3-4	3	4	-	-	-	-	-	-	-	-
0710	-	-	-	-	-	-	4	3-4	3-4	3-4	3	3	3	-	-
0790	-	-	-	-	-	-	-	-	-	-	-	3-4	-	-	-
0800	4	3-4	3-4	4	4	3-4	4-5	3	3	3-4	3	-	-	-	-
0900	-	-	-	-	-	3-4	-	-	-	-	-	-	-	-	-
0910	-	-	-	4	4	3-4	4	-	-	-	-	-	-	-	-
1000	4	3-4	3	3-4	3-4	3-4	3-4	3	3	3-4	3	3-4	3-4	-	-
1100	-	-	-	4	4	4	3-4	-	-	-	-	-	-	-	3

Assessment: The macroinvertebrate fauna indicated unsatisfactory conditions at all sites assessed on the River Dee in September 2012, with the exception of Rockfield Bridge (0360) where satisfactory ecological condition was recorded .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0015a	Ervy Lough Branch	0	0	0	
0016	Br u/s Ervy Lough	276240	294830	35	CN
0025	Br to N. of Ervy X-Rds	277250	292710	35	MH
0030	Br u/s Newcastle L	278698	291501	35	MH
0035	Tom's Br	279580	289130	35	MH
0054a	Kilmainham Wood Branch See Kilmainham R 06K04	0	0	0	
0149a	Main Channel	0	0	0	
0150	Wooden Br W of Nobber Br	281907	286754	35	MH
0200	Deegvee Br	283040	285760	35	MH
0300	Ballanagirrisk Br	284466	284456	35	MH
0360	Rockfield Br	287143	285571	35	MH
0400	Yellow Ford Br	288539	286830	35	MH
0450	Hem Br	289630	288065	35	MH
0500	Bogie Br	291066	289447	35	MH
0600	Burley Br	292551	289685	36	MH
0670	1km u/s Ardee Br	295281	290330	36	LH
0680	Dawson's Br	296593	290520	36	LH
0690	U/s Sewage Trtmt Wks	0	0	0	
0700	1.5 km d/s Ardee	0	0	0	
0710	150 m d/s Old Rly Br (LHS)	297279	291051	36	LH
0790	New Br u/s Drumgoolestown Br. (d/s) .	302862	291051	36	LH
0800	Drumgoolestown Br	303066	290878	36	LH
0900	Charville Weir	0	0	0	
0910	Cappoge Br	305064	290619	36	LH
1000	Br at Drumcar	306596	291170	36	LH
1100	At Williamstown House	307391	292195	36	LH

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0015a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0016	129	10	100	0	98	0	0	0	0	0	2
0025	-99	14	100	0	99	0	0	0	0	0	1
0030	60	19	100	0	99	0	0	0	0	0	1
0035	51	31	67	33	98	0	0	0	1	0	1
0054a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0149a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0150	48	70	70	30	97	0	0	0	2	1	0

0200	47	6	0	100	77	0	0	2	21	0	0
0300	43	95	52	48	95	0	0	1	4	0	0
0360	39	110	50	50	92	0	0	0	6	0	0
0400	35	157	64	36	89	0	0	0	10	0	0
0450	31	170	60	40	89	0	0	0	10	0	0
0500	28	173	59	41	89	0	0	0	10	0	0
0600	26	176	58	42	89	0	0	0	10	0	0
0670	23	277	53	46	81	0	0	0	17	0	1
0680	23	286	54	46	79	0	0	1	18	0	1
0690	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0710	22	287	54	46	79	0	0	1	19	0	1
0790	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0800	13	305	56	44	76	0	0	1	22	0	1
0900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0910	10	317	58	42	75	0	0	1	22	0	1
1000	10	376	65	35	72	1	0	1	25	0	1
1100	8	386	66	34	71	1	0	2	26	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **DRUMSALLAGH STREAM**

06D07

Tributary Of: 06G02 GLYDE

OS Catchment No: 95

OS Grid Ref of confluence: N 803 981

Date(s) Surveyed: 31/12/1990, 31/12/1994, 31/12/1997, 19/7/2000, 19/8/2003, 14/7/2006, 30/9/2009, 2/9/2012, 31/8/2012, 29/7/2013

Formerly: 06G02 Glyde Drumsallagh Branch

Station Nos.	Biological Quality Ratings (Q Values)								
	1990	1994	1997	2000	2003	2006	2009	2012	
0056	5	3	4-5	4-5	4-5	4	4	4	
0066	4-5	4-5	4-5	4	4	-	-	-	
0070	4-5	4-5	4-5	4-5	4-5	4	4-5	3-4	

Assessment: The macroinvertebrate fauna indicated continuing good ecological condition at the upper site west of Drumsallagh (0056). However there has been a very disappointing deterioration in ecological status at County Br (0070) from high in 2009 to moderate in September 2012. Cattle access is an issue at this location

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0056	Br W of Drumsallagh	276200	297520	35	CN
0066	Murphy's Br	278130	297220	35	CN
0070	County Br (u/s Magheraclone Branch)	280160	298260	35	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0056	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

0066	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0070	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **FANE**

06F01

Tributary Of: DUNDALK BAY

OS Catchment No: 94

OS Grid Ref of confluence: J 064 018

Date(s) Surveyed: 31/12/1974, 31/12/1976, 31/12/1980, 31/12/1982, 31/12/1986, 31/12/1990, 31/12/1994, 31/12/1997, 17/7/2000, 18/7/2000, 6/7/2000, 7/7/2000, 13/8/2003, 14/8/2003, 11/7/2006, 12/7/2006, 13/7/2006, 24/10/2007, 23/9/2009, 25/9/2009, 4/9/2012, 6/9/2012, 8/9/2012

### Biological Quality Ratings (Q Values)

Station Nos.	1974	1976	1980	1982	1986	1990	1994	1997	2000	2003	2006	2007	2009	2012
0039a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0080	-	-	-	-	-	4	-	-	-	-	-	-	-	-
0114a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0134a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0155	-	-	-	-	-	-	2-3	2-3	2-3	2-3	2/0	3	3	3
0180	-	-	-	-	-	-	3	3	3	3	3	-	-	-
0200	-	3-4	4	3-4	3-4	3-4	3	3-4	3	3	3-4	-	3-4	3
0299a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0300	-	3-4	3-4	3-4	3-4	3-4	3	3	3	3	3	-	-	-
0400	-	-	3	3	3	3-4	3	3	3-4	3	3	-	3	3
0500	-	5	5	4-5	4	4-5	4	4	4	4	3-4	-	-	-
0600	-	-	5	4-5	4-5	-	-	-	-	-	-	-	-	-
0650	-	-	-	-	-	5	3-4	4	4	3-4	3-4	-	4	4
0700	5	5	5	4	4	5	4	4-5	4-5	4	3-4	-	-	-
0800	-	-	4	4	4	4	-	-	-	-	-	-	-	-
0900	5	5	4	4-5	-	4	3-4	4-5	4-5	4	4	-	4	4
1000	-	-	4-5	4-5	-	-	-	-	-	-	-	-	-	-

Assessment: The Fane River continued to be in generally unsatisfactory ecological condition in its upper section in September 2012, with poor ecological condition recorded at South Bridge at Dunfelimy (0150), Derrycreevy Br. (0200) and Ballynacarry Br (0400). The lower section of the river retained its good ecological condition at Inniskeen Br (0650) and at Stephenstown Br (0900) . .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0039a	East Branch (See Gentle Owen's Stream 06G04)	0	0	0	
0080	Br u/s Muckno Mill Lough	284723	322660	0	
0114a	Carrickaslane Lough Branch	0	0	0	
0134a	West Branch	0	0	0	
0155	South Br Dunfelimy	276630	324080	28	MN
0180	2nd Br u/s Laragh L (Main Rd)	279200	322360	28	MN
0200	Derrycreevy Br	282770	320680	28	MN
0299a	Main Channel	0	0	0	
0300	Clarebane Br	287357	316783	28	MN
0400	Ballynacarry Br	287460	314120	28	MN
0500	Magoney Br	290853	309669	35	MN
0600	Br at Moyle's Mill	291871	307634	35	MN
0650	Innishkeen Br	293175	307040	36	MN
0700	Castlerring Br	296636	303711	36	LH
0800	Knock Br	298812	303159	36	LH

River and Code: **GLYDE**

06G02

Tributary Of:

OS Catchment No: 95

OS Grid Ref of confluence: O 090 940

Date(s) Surveyed: 31/12/1977, 31/12/1978, 31/12/1979, 31/12/1981, 31/12/1983, 31/12/1985, 31/12/1990, 31/12/1994, 31/12/1997, 18/7/2000, 19/7/2000, 14/8/2003, 15/8/2003, 18/8/2003, 17/7/2006, 25/9/2009, 30/9/2009, 5/10/2009, 2/9/2012, 6/9/2012, 8/9/2012

Station Nos.	Biological Quality Ratings (Q Values)													
	1977	1978	1979	1981	1983	1985	1990	1994	1997	2000	2003	2006	2009	2012
0049a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0073a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0099a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0100	-	3	-	4-5	4	5	4-5	4-5	4-5	4-5	4	4	4	3-4
0200	-	4-5	-	4	4-5	4-5	4-5	-	-	-	-	-	-	-
0300	-	4	-	-	-	-	-	-	-	-	-	-	-	-
0400	-	4	-	4	4	3-4	4	4	3	4	4	4-5	4-5	4
0500	4	-	3-4	4	3-4	3-4	3	3	-	4	4	-	4	4
0600	4-5	-	4	4	5	4-5	4-5	4	3-4	4	4	3-4	4	4
0700	4	-	-	-	4	4	4	3-4	3-4	3-4	3-4	-	-	3-4
0800	-	-	-	4	4	3-4	-	-	-	-	-	-	-	-
0900	-	-	4	4	4-5	4-5	5	3-4	3	4	4-5	4	4	4
1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1001	4-5	-	4	4	4	3-4	4	-	-	-	-	-	-	-
1002	-	-	-	1	1	2-3	4	3	4	4	4-5	4	-	-
1100	-	-	-	-	-	3	-	-	-	-	-	-	-	-
1200	3-4	-	3-4	3-4	4	3	3-4	3-4	3-4	3-4	3-4	3-4	4	3-4
1230	-	-	-	-	-	-	-	-	-	-	-	-	-	3-4
1240	-	-	-	-	-	-	3	-	-	-	-	-	-	-
1270	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Assessment: Macroinvertebrate fauna indicated a general overall deterioration in the condition of the Glyde since 2009. Despite satisfactory ecological conditions recorded at all sites assessed in 2009, currently only the middle reaches of the river (Lagan Br (0400) , Aclint Br (0500) and Br W Mullacrew (0600)) merited good ecological condition in 2012. Disappointingly, the other five sites were downgraded to moderate ecological condition . .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0049a	Drumsallagh Branch	0	0	0	
0073a	Magheracloone Branch	0	0	0	
0099a	Main Channel	0	0	0	
0100	Cormey Br	280537	297971	35	MN
0200	Tobermannan Br	282535	296614	35	LH
0300	Ballyhoe Br	285716	295404	35	LH
0400	Lagan Br	287438	296456	35	LH
0500	Aclint Br	289375	298093	35	LH
0600	Br W of Mullacrew	294294	299538	36	LH
0700	Tallanstown Br	295497	297731	36	LH
0800	0.5km d/s Tallanstown Br	295824	297384	36	LH
0900	Mapastown Br	298637	295436	36	LH
1000	Mansfieldstown Br (Mid)	302350	295250	36	LH
1001	Mansfieldstown Br (LHS)	302337	295243	36	LH
1002	Mansfieldstown Br (RHS)	302322	295237	36	LH
1100	200m u/s Castlebellingham Br	305772	294961	36	LH
1200	Castlebellingham Br	305976	295149	36	LH
1230	200 m d/s Castlebellingham Br	306076	295303	36	LH

1240	1.5km d/s Castlebellingham Br	306868	294568	36	LH
1270	Weir u/s Annagassan	0	0	0	
1300	Annagassan Br	308029	293826	36	LH

## Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0049a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0073a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0099a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0100	34	63	73	27	86	3	0	4	6	0	2
0200	30	75	61	39	85	4	0	3	6	0	1
0300	28	119	50	50	85	3	0	2	8	0	1
0400	26	134	49	51	84	3	0	2	9	0	2
0500	24	149	47	53	84	3	0	2	10	0	1
0600	21	268	54	46	83	2	0	2	12	0	1
0700	18	276	55	45	81	2	0	2	14	0	1
0800	17	276	55	45	81	2	0	2	14	0	1
0900	7	318	61	39	73	2	0	2	22	0	1
1000	5	346	64	36	69	2	0	2	26	0	1
1001	5	346	64	36	69	2	0	2	26	0	1
1002	5	346	64	36	69	2	0	2	26	0	1
1100	2	357	65	35	68	2	0	2	28	0	1
1200	2	357	65	35	68	2	0	2	28	0	1
1230	3	357	65	35	68	2	0	2	28	0	1
1240	2	358	65	35	68	2	0	2	28	0	1
1270	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1300	1	360	66	34	67	2	0	2	28	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **KILCURRY**

06K02

Tributary Of: 06C01 CASTLETOWN

OS Catchment No: 92

OS Grid Ref of confluence: J 028 098

Date(s) Surveyed: 31/12/1978, 31/12/1982, 31/12/1986, 31/12/1990, 31/12/1994, 31/12/1997, 6/7/2000, 12/8/2003, 11/7/2006, 24/6/2009, 6/9/2012

Station Nos.	Biological Quality Ratings (Q Values)										
	1978	1982	1986	1990	1994	1997	2000	2003	2006	2009	2012
0100	-	4-5	4-5	4	3-4	-	-	-	-	-	-
0200	4	4-5	4-5	4-5	3	4-5	4	4	4	4	4

Assessment: Macroinvertebrate fauna indicated continuing good ecological conditions in the Kilcurry River in 2012 .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br nr Lurgankeel	302729	311975	29	LH
0200	Br at Mill nr Falmore Hall	302451	310875	29	LH



## Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	24	1	92	8	46	0	0	0	54	0	0
0200	10	2	80	20	45	0	0	0	55	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **KILLARY WATER**

06K01

Tributary Of: 06D01 DEE

OS Catchment No: 96

OS Grid Ref of confluence: N 884 760

Date(s) Surveyed: 31/12/1990, 31/12/1994, 31/12/1997, 20/7/2000, 20/8/2003, 27/7/2006, 1/10/2009, 31/8/2012

## Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009	2012
0100	3	3	3-4	3-4	3-4	3-4	-	-
0300	3-4	-	-	-	-	-	-	-
0400	3-4	-	-	-	-	-	-	-
0500	3-4	3-4	3-4	3-4	4	3-4	3	3

Assessment: Ecological condition remains poor and unchanged upstream of the Dee river confluence (0500) in 2012 .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Killary Br Upper	287865	281331	35	MH
0300	Killary Br Lower	287963	282920	35	MH
0400	Mitchelstown Br	287761	284351	35	MH
0500	SW Br u/s Dee R confl	288601	285461	35	MH

## Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	62	25	100	0	75	0	0	0	25	0	0
0300	52	28	100	0	74	0	0	0	26	0	0
0400	43	34	100	0	76	0	0	0	24	0	0
0500	38	36	100	0	77	0	0	0	23	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **KILMAINHAM**

06K04

Tributary Of: 06D01 DEE

OS Catchment No: 96

OS Grid Ref of confluence: N 792 885

Date(s) Surveyed: 31/12/1971, 31/12/1974, 31/12/1978, 31/12/1980, 31/12/1983, 31/12/1986, 31/12/1990, 31/12/1994, 31/12/1997, 20/7/2000, 19/8/2003, 18/7/2006, 30/9/2009, 31/8/2012

Formerly 06D01:Dee Kilmainham Wood Branch

## Biological Quality Ratings (Q Values)

Station Nos.	1971	1974	1978	1980	1983	1986	1990	1994	1997	2000	2003	2006	2009	2012
0055	-	-	-	-	-	-	-	4	3-4	4	4	4	4	3-4
0075	-	-	-	-	-	-	-	3	4	4	4	-	-	-
0100	4-5	5	4-5	4	4-5	4-5	4-5	4-5	4	4	4	4	4	3-4

Assessment: A disappointing decline in ecological condition from good to moderate was recorded at both sites assessed on the Kilmainham in September 2012 .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0055	Breaky Br	274500	291870	35	MH
0075	Br N of Kilflannan (at T junction)	275880	290540	35	MH
0100	Br u/s Whitewood L	278950	289180	35	MH

## Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0055	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0075	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **MAGHERACLOONE STREAM**

06M01

Tributary Of: 06G02 GLYDE

OS Catchment No: 95

OS Grid Ref of confluence: N 803 981

Date(s) Surveyed: 31/12/1990, 31/12/1994, 31/12/1997, 19/7/2000, 18/8/2003, 14/7/2006, 30/9/2009, 2/9/2012

## Formerly Magheraclone Branch of the Glyde River 06G02

## Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009	2012
0082	5	3-4	4-5	-	-	-	-	-
0096	4-5	4-5	4-5	4-5	4	4	4	4

Assessment: Macroinvertebrate fauna indicate continuing good ecological condition in the Magheraclone Stream in 2012 .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0082	Br E of Bench Mark 484'	277450	300010	35	MN
0096	Br N of Lisnakeeny	279550	299580	35	MN

## Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0082	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

0096                    N/A N/A    N/A N/A N/A            N/A            N/A    N/A    N/A            N/A    N/A

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **PROULES**

06P01

Tributary Of: 06G02 GLYDE

OS Catchment No: 95

OS Grid Ref of confluence: N 912 993

Date(s) Surveyed: 31/12/1974, 31/12/1976, 31/12/1978, 31/12/1980, 31/12/1982, 31/12/1984, 31/12/1990, 31/12/1991, 31/12/1994, 31/12/1997, 18/7/2000, 18/8/2003, 13/7/2006, 29/7/2009, 30/7/2009, 2/9/2012

#### Biological Quality Ratings (Q Values)

Station Nos.	1974	1976	1978	1980	1982	1984	1990	1991	1994	1997	2000	2003	2006	2009	2012
0100	-	5	5	5	4	4-5	5	-	4	4-5	-	-	-	-	4
0110	-	-	-	-	-	-	3	-	-	-	4-5	4-5	4	4	4
0200	1	1-2	2-3	3	4	4	4	-	-	-	-	-	-	-	-
0300	1	1	3	1	3	3-4	1-2	1-2	2-3	2	2-3	2-3	2-3	n/s	2-3
0400	2	2-3	2-3	2	3-4	3	2	2	2	2	2-3	3	-	-	-
0500	3	3	4	4	4	4-5	3-4	-	-	-	-	-	-	-	3-4
0600	-	4	3-4	4	4	4	3-4	-	3	3	3-4	3	3-4	3-4	3-4

Assessment: The Proules River had good ecological condition at both sites assessed upstream of Carrickmacross in 2012. Downstream of Carrickmacross (0900) the macroinvertebrate fauna indicated poor ecological condition, unchanged since last assessed in 2006. In the lower section of the river, moderate condition was recorded at Ballymackey Br (0500) and at the bridge near Killanny (0600).

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Dry Br	283385	304013	35	MN
0110	500m d/s Dry Br (d/s St 0100)	283385	304013	35	MN
0200	Ardee Rd Br Carrickmacross	284120	303395	35	MN
0300	Just u/s Lough Naglack	284961	302669	35	MN
0400	Broken Br	285669	302902	35	MN
0500	Ballymackey Br	287803	301952	35	MN
0600	Br at Killanny	289348	301043	35	LH

#### Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	44	8	52	48	85	0	0	0	15	0	0
0110	44	8	52	48	85	0	0	0	15	0	0
0200	34	10	43	57	77	0	0	8	15	0	0
0300	26	17	25	75	75	7	0	9	9	0	0
0400	30	18	24	76	75	7	0	9	9	0	0
0500	29	87	49	51	87	1	0	3	8	0	0
0600	28	91	52	48	87	1	0	3	8	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **WHITE (LOUTH)**

06W01

Tributary Of: 06D01 DEE

OS Catchment No: 96

OS Grid Ref of confluence: O 062 908

Date(s) Surveyed: 31/12/1974, 31/12/1976, 31/12/1978, 31/12/1980, 31/12/1982, 31/12/1986, 31/12/1990, 31/12/1991, 31/12/1994, 31/12/1997, 24/7/2000, 21/8/2003, 27/7/2006, 29/7/2009, 5/10/2009, 6/10/2011, 8/9/2012

## Biological Quality Ratings (Q Values)

Station Nos.	1974	1976	1978	1980	1982	1986	1990	1991	1994	1997	2000	2003	2006	2009	2011	2012
0040	-	-	-	-	-	-	4	-	4-5	4-5	3-4	4	4	4	-	-
0050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0080	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-
0100	-	-	3-4	4-5	3-4	4-5	4-5	-	4	4	3-4	3-4	-	-	-	4
0200	3	3	3-4	4	4-5	4-5	4	-	-	-	-	-	3-4	4	-	-
0290	-	-	-	-	-	-	3-4	-	3	3	3-4	3-4	-	-	-	-
0300	-	-	2/0	3	4-5	4-5	2-3	-	-	-	-	-	-	-	-	-
0400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
0500	2-3/0	1/0	3/0	3	3/0	1/0	2	2	2-3	2-3	3-4	3-4	3-4	3-4	3	-
0530	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Assessment: Satisfactory ecological conditions were maintained in the upper reaches of the White River (New Br. 0100) in 2012. However, the lower reaches remain unsatisfactory, downstream of Dunleer Railway Bridge (0400).

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br u/s White River Br	300889	284557	36	LH
0050	White River Br	301366	284638	36	LH
0080	Gibbers Bridge	303172	284927	36	LH
0100	New Br	304628	285661	36	LH
0200	Athclare Br	305896	286586	36	LH
0290	Grangebellew Rd Br Dunleer	305873	287870	36	LH
0300	Main Rd Br Dunleer	305753	288205	36	LH
0400	500m d/s Dunleer Ry Br	305723	289025	36	LH
0500	Coneyburrow Br	305719	289280	36	LH
0530	800 m d/s Coneyburrow Br	305820	289705	36	LH

## Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	98	7	100	0	67	8	0	0	26	0	0
0050	93	8	100	0	63	8	0	0	29	0	0
0080	68	10	100	0	58	6	0	0	36	0	0
0100	53	30	100	0	66	4	0	1	29	0	0
0200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0290	28	45	100	0	59	3	0	2	37	0	0
0300	24	45	100	0	59	3	0	2	37	0	0
0400	20	47	100	0	58	3	0	3	36	0	0
0500	17	55	100	0	58	2	0	3	37	0	0
0530	13	57	100	0	58	2	0	3	37	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

HYDROMETRIC AREA 07

ATHBOY	07A01
BLACKWATER (KELLS)	07B01
BLACKWATER (LONGWOOD)	07B02
BOYCETOWN	07B03
BOYNE	07B04
CASTLEJORDAN	07C04
CHAPEL LAKE STREAM	07C05
CLADY (MEATH)	07C01
CROSS WATER	07C02
CROSSKEYS STREAM*	07C07
D'ARCY'S CROSSROADS STREAM*	07D06
DEEL (RAHARNEY)	07D01
DEVLIN'S	07D02
DRUMKEERY LOUGH STREAM	07D03
GLASH	07G02
KINNEGAD	07K01
KNIGHTSBROOK	07K02
LISLEA	07L01
LOUGH LENE-ADEEL STREAM	07L03
MATTOCK	07M01
MILLTOWNPASS	07M04
MOYNALTY	07M03
MULLAGH LOUGH STREAM*	07M06
NADREEGEEL LOUGH STREAM	07N01
RIVERSTOWN	07R01
ROCHFORTBRIDGE STREAM	07R04
SKANE	07S01
STONYFORD	07S02
TROMMAN STREAM	07T01
YELLOW (BLACKWATER)	07Y01
YELLOW (CASTLEJORDAN)	07Y02

- \* Formerly Stonyford 07S02 West Branch
- \* Formerly Stonyford 07S02 East Branch
- \* Formerly Mullagh Branch of Moynalty 07M03

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River and Code: **ATHBOY** 07A01  
 Tributary Of: 07B04 BOYNE OS Catchment No: 159  
 OS Grid Ref of confluence: N 774 566  
 Date(s) Surveyed: 31/12/1973, 31/12/1975, 31/12/1979, 31/12/1981, 31/12/1985, 31/12/1990, 31/12/1994,  
 31/12/1997, 24/8/2000, 25/8/2000, 22/9/2003, 24/9/2003, 11/5/2006, 12/5/2006, 17/6/2009, 23/7/2009,  
 24/7/2009, 27/7/2009, 19/9/2012, 20/9/2012, 29/8/2012

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Station Nos.	Biological Quality Ratings (Q Values)												
	1973	1975	1979	1981	1985	1990	1994	1997	2000	2003	2006	2009	2012
0020	-	-	-	-	-	-	4	4	3-4	4	3	4	4*
0040	-	-	-	-	-	4	-	-	-	-	-	-	-
0050	-	-	-	-	-	3-4	3-4	3-4	3	3-4	4	3-4	3-4
0070	-	-	-	-	-	4	4	4	3	4	4	-	3-4
0100	-	-	-	4	3-4	3-4	3-4	4	4	3-4	4	4	4
0200	4-5	4	3-4	4	3	3-4	3	3	3-4	3	4	-	-
0300	3-4	2-3	2-3	3-4	4	3-4	3-4	3-4	3-4	3	3	3-4	3-4
0400	3	3	3-4	4	4	3-4	3-4	3-4	-	-	-	-	3-4
0500	3-4	4	3-4	4	3	3-4	3	3	3-4	3-4	4	3-4	3-4

Assessment: The macroinvertebrate fauna indicated that only two (0020, 0100) of the seven stations surveyed on the Athboy River were in a satisfactory good ecological condition in 2012. Enriched conditions were however evident at these two stations with enhanced algal and or plant growth, excessive siltation, calcification and compaction of the river bed substratum observed. The paucity of sensitive macroinvertebrate taxa and dominance of pollution tolerant taxa indicated moderate ecological conditions near Kilskeer (0050), Johnsbrook (0070), downstream of Athboy (0300), at Tremblestown (0400) and at Kilnagross Brdge (0500) just upstream of its confluence with the Boyne River .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Br NW of Dogstown - .	262637	275950	42	MH
0040	Martinstown Br	263751	273559	42	MH
0050	Br W of Kilskeer	264793	271654	42	MH
0070	Br W of Johnsbrook Ho	267591	269148	42	MH
0100	Br nr Clonleasan Ho	269518	268149	42	MH
0200	Just u/s Athboy Br	271686	264261	42	MH
0300	Br 2km SE of Athboy	272823	262772	42	MH
0400	Tremblestown Br	275605	257665	42	MH
0500	Kilnagross Br	277055	256686	42	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	114	10	40	60	97	0	0	0	3	0	0
0040	99	24	33	67	86	0	0	0	14	0	0
0050	93	34	27	73	86	0	0	0	14	0	0
0070	80	51	19	81	87	0	0	0	13	0	0
0100	72	78	21	79	84	2	1	0	13	0	0
0200	67	111	15	85	83	2	0	0	15	0	0
0300	65	116	14	86	82	1	0	1	16	0	0
0400	61	164	10	90	76	2	0	0	21	0	0
0500	54	167	10	90	75	2	0	0	22	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **BLACKWATER (KELLS)**

07B01

Tributary Of: 07B04 BOYNE

OS Catchment No: 159

OS Grid Ref of confluence: N 872 680

Date(s) Surveyed: 31/12/1973, 31/12/1974, 31/12/1975, 31/12/1977, 31/12/1978, 31/12/1980, 31/12/1982, 31/12/1984, 31/12/1987, 31/12/1988, 31/12/1989, 31/12/1990, 31/12/1994, 31/12/1997, 11/9/2000, 12/9/2000, 13/9/2000, 8/9/2000, 10/9/2003, 11/9/2003, 8/9/2003, 9/9/2003, 4/7/2006, 5/7/2006, 6/7/2006, 7/7/2006, 22/7/12

Biological Quality Ratings (Q Values)

Station Nos. 1973197419751977197819801982198419871988198919901994199720002003200620092012

0100	-	3-4	-	-	4-5	4	4-5	4-5	-	-	-	-	4	4	4-5	4-5	4	4	4*
0170	-	-	-	1	-	1	1	1	1	2	1	1	2	2-3	2	2-3	2-3	3	3-4
0200	-	1-2	-	-	1	1	1	1/0	1	1	1	1	2	-	-	-	-	-	2-3
0280	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3*	3	-	3	-
0300	-	4	-	4	-	4	3-4	3-4	-	-	-	-	-	-	-	-	-	-	-
0400	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0420	-	-	-	-	-	-	3-4	-	-	-	3-4	3-4	3-4	4	3-4	3-4	3-4	3-4	3-4
0450	-	-	-	-	-	4	4	4	-	-	-	3-4	-	-	-	-	-	-	-

0500	-	4-5	-	5	4-5	3-4	3-4	3-4	-	5	-	4	3-4	3-4	3-4	4	4	4	4
0600	-	-	-	-	4	4	3-4	3-4	-	-	-	3-4	3-4	3-4	3-4	3-4	4	4	4
0700	-	5	-	-	4	4-5	3-4	3-4	-	-	-	3-4	-	-	-	-	-	-	-
0800	-	5	-	-	4	4	4	4	-	-	-	4	3-4	4	4	4	4	4	4
0810	-	-	-	-	-	-	-	1	-	-	-	3-4	-	-	-	-	-	-	-
0900	-	3-4	-	-	2-3	3	-	3	-	-	-	3	3	3	3	3	3	-	-
1000	-	4	-	-	3-4	-	3-4	4	-	-	-	3-4	3	3	3-4	3	3	3	3
1100	-	4-5	-	-	4	4	-	4	-	-	-	4	4	4	4	3-4	3-4	3-4	3-4
1200	-	5	-	-	4-5	4	-	4-5	-	-	-	4	3-4	4	3-4	3-4	3-4	3-4	3-4
1300	-	4-5	-	-	4	3-4	-	3-4	-	-	-	4	3-4	3-4	3-4	3-4	3-4	n/s	-
1400	4	-	4	5	-	4	-	4	-	-	-	4	4	4	4	4	4	-	-
1500	5	-	5	5	-	4	-	4	-	-	-	4	3-4	4	3-4	4	4	4	3-4
1790	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3-4	3-4	-	3-4	3-4
1800	4-5	-	4	4-5	-	4	-	3-4	-	-	-	4	3-4	3	-	-	-	-	-

Assessment: The Blackwater (Kells) River was in a generally unsatisfactory ecological condition at nine of the thirteen stations surveyed in 2012. A slight improvement to moderate ecological conditions was noted at station 0170 (Lear Br) downstream of Baileboro. The macroinvertebrate fauna indicated an unwelcome decline from good to moderate ecological conditions at Donaghpatrick Bridge (1500) downstream of Kells & the Moynalty River confluence. The dominance of pollution tolerant macroinvertebrate taxa continues to indicate unsatisfactory ecological conditions in the Baileboro area (0170) and downstream (0200, 0280, 0420), downstream of Lough Ramor (1000, 1100, 1200) and downstream of Kells (1500) and at Navan (1790) ..

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 2km NE of Bailieborough	269725	298169	35	CN
0170	just d/s Lear Br Drumbannon	267540	298104	35	CN
0200	Footbridge u/s Castle L	267057	298780	35	CN
0280	3rd Br d/s Castle L	265973	298103	35	CN
0300	Br at XRds SW (u/s) Castle L	265386	297966	35	CN
0400	Parker's Br	264676	297251	35	CN
0420	Br d/s Parker's Br	263602	296696	35	CN
0450	Br at Carricknaveagh	262394	293935	35	CN
0500	Br in Killinkere	261085	293566	35	CN
0600	Stramaquerty Br (nr Drumagolan)	259535	292018	35	CN
0700	Murmod Br (2km u/s Virginia)	0	0	35	
0800	Just u/s L Ramor (RHS)	260413	287071	35	CN
0810	Just u/s L Ramor (LHS)	260411	287059	35	CN
0900	Nine Eyes Bridge	263056	283388	35	CN
1000	Daly's Br	265306	280332	35	MH
1100	Br nr Carnaross	268635	277954	42	MH
1200	Mabe's Br	273697	277272	42	MH
1300	Sedenrath Br (Headford Br)	276335	275822	42	MH
1400	Bloomsberry Br (250m u/s)	279186	274042	42	MH
1500	Donaghpatrick Br	281941	272314	42	MH
1790	100m d/s New Bypass Br	286845	268194	42	MH
1800	Pollboy Br (Slane Rd) Navan	287182	268027	42	MH

#### Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	150	13	100	0	62	0	3	2	33	0	0
0170	136	25	100	0	74	0	2	3	21	0	0
0200	133	26	100	0	75	1	1	3	20	0	0
0280	131	40	100	0	74	3	1	2	14	3	2
0300	128	43	100	0	75	3	1	2	14	3	2
0400	121	47	100	0	76	3	1	2	14	3	3
0420	119	49	100	0	76	3	1	2	14	3	3
0450	111	57	100	0	78	2	1	2	12	2	3
0500	105	83	100	0	69	2	0	1	24	2	2

## Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0060	72	51	0	100	43	4	33	0	11	0	9
0070	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0100	68	125	0	100	65	4	15	1	11	0	4
0200	66	142	0	100	67	3	13	1	12	0	4
0300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0400	63	184	0	100	69	2	11	1	14	0	3
0500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0600	61	197	0	100	70	2	10	1	14	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **BOYCETOWN**

07B03

Tributary Of: 07B04 BOYNE

OS Catchment No: 159

OS Grid Ref of confluence: N 833 564

Date(s) Surveyed: 31/12/1976, 31/12/1981, 31/12/1985, 31/12/1990, 31/12/1994, 31/12/1997, 5/9/2000, 24/9/2003, 25/9/2003, 9/5/2006, 30/7/2009, 6/6/2012

## Biological Quality Ratings (Q Values)

Station Nos.	1976	1981	1985	1990	1994	1997	2000	2003	2006	2009	2012
0100	-	-	-	-	-	-	-	-	-	-	3
0200	-	3	3	3-4	3-4	3	3	3*	3-4	3-4*	3
0300	4	3-4	4	4	3-4	3	3	3*	4	3-4	3-4

Assessment: The Boycetown River was in an unsatisfactory ecological condition when surveyed in 2012. The complete lack of sensitive macroinvertebrate fauna indicated unsatisfactory poor ecological conditions at Derrypatrick Bridge (0100) and at Boycetown Bridge (0200). Excessive siltation was noted at both stations. Enriched conditions were also evident at Scurlockstown (0300) where the macroinvertebrate fauna indicated unsatisfactory moderate ecological conditions .

Station No.	Station Location	National		Discovery Series No.	County Code
		X	Y		
0100	Derrypatrick Br	288702	251397	42	
0200	Boycetown Br. (Br. N Martinstown)	287220	253489	42	MH
0300	Scurlockstown Br	283237	256131	42	MH

## Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0200	71	21	0	100	71	0	0	0	29	0	0
0300	51	34	0	100	74	0	0	0	26	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code: **BOYNE**

07B04

Tributary Of:

OS Catchment No: 159

OS Grid Ref of confluence: O 091 751

Date(s) Surveyed: 31/12/1973, 31/12/1974, 31/12/1975, 31/12/1977, 31/12/1979, 31/12/1981, 31/12/1986, 31/12/1990, 31/12/1994, 31/12/1997, 17/8/2000, 18/8/2000, 25/8/2000, 6/9/2000, 7/9/2000, 11/9/2003, 16/9/2003, 22/8/2003, 24/9/2003, 26/9/2003, 29/9/2004, 19/7/2005, 20/6/2006, 26/6/2006, 3/7/2006, 6/6/2006, 8/5/200

## Biological Quality Ratings (Q Values)

Station Nos. 1973197419751977197919811986199019941997200020032004200520062007200820092012

0100	-	-	-	-	-	3-4	4	4	-	3	3-4	3	-	-	-	-	-	-
0160	4-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0200	3-4	-	3-4	3	4	4	4	3	4	2-3	3-4	3	-	-	4	-	4	3-4
0300	2-3	-	2	1-2	2-3	4	4	-	3	2	1-2	3	-	-	3-4	-	3-4*	3-4
0400	3	-	-	4-5	4	4	4	4	4	3	3	4	-	-	4	-	4	4
0500	-	-	-	4-5	-	4	-	4	-	-	-	-	-	-	-	-	-	-
0600	-	4	-	4	4	4	4-5	4	4	3-4	3	3	-	-	3-4	-	3-4	3-4
0700	-	-	-	-	-	3-4	4	3-4	-	-	-	-	-	-	-	-	-	-
0800	-	3	-	-	4	4-5	4-5	4	4	3-4	3-4	4	-	-	4	-	4-5	4
0900	-	3-4	-	-	4-5	5	5	4	4	4	4	3-4	-	-	4	-	-	3-4
1000	-	4	-	-	4	5	5	3-4	3-4	4	3-4	4	-	-	4	-	4	4
1100	-	-	-	-	3-4	4	4	3-4	-	-	-	-	-	-	-	-	-	-
1200	-	4-5	-	-	-	4	4-5	3-4	3-4	4	3-4	3-4	-	-	4	-	3-4	3-4
1300	-	-	-	-	3-4	4	4	3-4	-	-	-	-	-	-	-	-	-	-
1400	-	4	-	-	3-4	3-4	4	3-4	3-4	3	3	3-4	-	-	4	-	3-4	3-4
1500	-	4-5	-	-	4-5	5	4	3-4	3-4	3-4	3-4	3-4	-	-	3-4	-	3-4*	3-4
1600	-	-	-	-	-	4	4-5	3-4	3-4	3-4	3-4	3-4	-	-	-	-	-	-
1700	-	4	-	-	3-4	4	4-5	3-4	-	-	-	-	-	-	3-4	-	3-4	3-4
1800	-	-	-	-	4	4-5	4-5	3-4	3-4	3-4	3-4	3-4	-	-	-	-	-	-
1900	4	-	4	3-4	3	3-4	4	2-3	3	2-3	3-4	3-4	-	-	-	-	-	-
2000	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	-	-	-	-	4	3-4	3-4	3	3-4	3-4	-	-	3-4	-	3-4	4
2100	4-5	-	4	4	4	4-5	4	4	3-4	3	3-4	3-4	3-4	3-4	3-4	3-4	3-4	4
2150	-	-	-	-	-	-	-	4-5	3-4	3-4	4	3-4	-	-	3-4	-	4	4
2200	4-5	-	3-4	4	4	4	4	-	-	3-4	3-4	3-4	-	-	3-4	-	3-4	3-4

Assessment: The majority of the fifteen stations surveyed on the Boyne River remain in an unsatisfactory ecological condition in 2012. The macroinvertebrate fauna indicated satisfactory ecological conditions at six of the stations examined. An unwelcome decline in ecological status was noted at three stations. The macroinvertebrate fauna indicated a decline from good to moderate ecological conditions in the upper reaches at Boyne Bridge (0200) and at Scarriff Bridge (0900) and a decline from high to good ecological conditions at Inchamore Bridge (0800). A welcome improvement from moderate to good ecological conditions was noted downstream of Broadboyne Bridge (2010). Unsatisfactory ecological conditions continue downstream of Edenderry (0300), at Ashfield Bridge downstream of the Glash River confluence (0600), downstream of the Blackwater (Longwood) confluence (0900), at Trim and downstream (1200, 1400), at Bective Bridge downstream of the Knightsbrook and Boycetown confluences (1500), Kilcarn Old Bridge, downstream of the Clady and Skane river confluences (1700) and at Obelisk Bridge, upstream of Drogheda (2200).

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	River Br	266855	232768	49	KE
0160	Kishawanny Br	264567	233456	49	OF
0200	Boyne Br	263605	234529	49	OF
0300	Kinnafad Br	261428	235002	49	OF
0400	Ballyboggan Br	263807	240222	49	MH
0500	Leinster Br	266554	243756	49	MH
0600	Ashfield Br	268374	244832	49	MH
0700	Stonyford Br	268939	247361	49	MH
0800	Inchamore Br	271089	250000	42	MH

0900	Scarriff Br	273445	252734	42	MH
1000	Derrinydaly Br	276708	253872	42	MH
1100	D/s Athboy R confl	0	0	42	
1200	West Br Trim	279790	257004	42	MH
1300	Newtown Trim Br	281648	256859	42	MH
1400	u/s Knightsbrook R confl (RHS)	282514	256693	42	MH
1500	Bective Br	286038	259705	42	MH
1600	Ballinter Br	289519	262675	42	MH
1700	Kilcarn Old Bridge	288535	265524	42	MH
1800	Railway Br Navan	287430	267428	42	MH
1900	2km d/s Navan (LHS)	288493	269122	42	MH
2000	Broadboyne Br	291863	271315	42	MH
2010	d/s Broadboyne Br (RHS)	292440	271435	43	MH
2100	Slane Br	296414	273631	43	MH
2150	Ford S of Broc Ho	300003	271834	43	MH
2200	Obelisk Br	304510	276200	43	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	71	21	0	100	70	1	8	3	18	0	0
0160	67	46	0	100	59	2	15	3	17	0	3
0200	66	60	0	100	63	2	12	4	16	0	3
0300	66	78	0	100	66	2	10	5	15	0	2
0400	65	304	0	100	62	3	18	2	10	0	5
0500	65	327	0	100	64	3	17	2	10	0	5
0600	64	436	0	100	67	2	15	2	11	0	4
0700	63	446	0	100	67	2	14	2	10	0	4
0800	61	737	1	99	72	2	11	1	9	1	5
0900	59	965	1	99	72	2	10	1	10	1	4
1000	56	1162	0	100	72	2	10	1	10	1	4
1100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1200	50	1362	2	98	72	2	9	1	12	0	4
1300	49	1371	2	98	72	2	9	1	12	0	4
1400	48	1372	2	98	72	2	9	1	12	0	4
1500	43	1491	1	99	72	2	8	1	13	0	3
1600	37	1576	1	99	72	2	8	1	14	0	3
1700	33	1675	1	99	71	2	7	1	15	0	3
1800	31	1685	1	99	71	2	7	1	15	0	3
1900	27	2415	22	78	73	2	5	2	15	1	3
2000	23	2428	22	78	73	2	5	2	16	1	3
2010	21	2430	22	78	73	2	5	2	16	1	3
2100	13	2486	23	77	73	2	5	2	16	1	3
2150	8	2495	23	77	73	2	5	2	16	1	3
2200	2	2619	25	75	73	2	5	1	16	1	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **CASTLEJORDAN**

07C04

Tributary Of: 07Y02 YELLOW (CASTLEJORDAN)

OS Catchment No: 159

OS Grid Ref of confluence: N 592 378

Date(s) Surveyed: 31/12/1976, 31/12/1981, 31/12/1985, 31/12/1990, 31/12/1994, 31/12/1997, 15/8/2000, 17/8/2000, 15/9/2003, 7/6/2006, 10/8/2009, 11/8/2009, 13/9/2012, 14/9/2012

Station Nos.	Biological Quality Ratings (Q Values)										
	1976	1981	1985	1990	1994	1997	2000	2003	2006	2009	2012
0010	-	-	-	3	-	-	-	-	-	-	-
0040	-	-	-	-	-	-	-	-	-	-	3
0050	-	-	-	-	-	-	-	-	2-3	3	n/s
0060	-	-	-	3-4	2-3	2-3	3	-	-	-	-
0100	-	4-5	3-4	4	3-4	3-4	4	3	3-4	3-4	3-4
0190	-	-	-	4	3-4	3-4	4	3	4	4	4
0200	4-5	4	3-4	-	-	-	-	-	-	-	-

Assessment: The complete lack of sensitive macroinvertebrate fauna, dominance of pollution tolerant species, abundant instream macrophyte growth and excessive siltation indicated unsatisfactory poor ecological conditions in the upper reaches (0040) of the Castlejordan river in September 2012. The dominance of pollution tolerant macroinvertebrate species and abundant macrophyte growth continues to indicate moderate ecological conditions at Baltinoran Bridge (0100). Good ecological conditions persist in the lower reaches (0190) however calcification and compaction of the substratum was noted .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Mongagh Br	0	0	48	
0040	Br SE of Rochfortbridge	246931	240271	49	
0050	Br to SW of Rahinine	247273	240476	48	
0060	SE of Rahinine	247546	240452	48	MH
0100	Baltinoran Br	255347	240809	49	OF
0190	Castlejordan Br	259054	238765	49	MH
0200	0.5km d/s Castlejordan Br	0	0	49	

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0040	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0060	81	25	0	100	82	0	5	2	8	0	4
0100	73	91	0	100	56	2	27	0	6	0	7
0190	69	106	0	100	59	2	24	1	7	0	7
0200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **CHAPEL LAKE STREAM**

07C05

Tributary Of: 07B01 BLACKWATER (KELLS)

OS Catchment No: 159

OS Grid Ref of confluence: N 614 945

Date(s) Surveyed: 31/12/1990, 31/12/1994, 31/12/1997, 11/9/2000, 8/9/2003, 4/7/2006, 27/6/2012

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	2000	2003	2006	2012
0400	-	-	4	4	-	-	-
0700	3	4	4	4	4-5	4	4-5

Assessment: The macroinvertebrate fauna indicated high ecological conditions in the lower reaches (0700) of the Chapel lake stream in June 2012 .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br E of Drumanespick	262734	298537	35	CN
0700	Br u/s Blackwater R confl	261581	295009	35	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	145	3	100	0	43	0	0	0	57	0	0
0700	108	24	100	0	43	0	0	0	56	1	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **CLADY (MEATH)**

07C01

Tributary Of: 07B04 BOYNE

OS Catchment No: 159

OS Grid Ref of confluence: N 858 609

Date(s) Surveyed: 31/12/1981, 31/12/1983, 31/12/1985, 31/12/1987, 31/12/1988, 31/12/1989, 31/12/1990, 23/7/2009, 12/6/2012

Biological Quality Ratings (Q Values)

Station Nos.	1981	1983	1985	1987	1988	1989	1990	2009	2012
0100	-	2	2	2	2	2-3	2	2-3	-
0200	3	2	2-3	3	3	-	2-3	3	3
0300	3-4	3-4	3	-	-	-	3	-	-

Assessment: The dominance of pollution tolerant macroinvertebrate taxa and complete lack of pollution sensitive taxa indicated poor ecological conditions on the Clady (Meath) River in June 2012 .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Dunderry Br	281225	262610	42	
0200	Br nr Ballybrigh Ho	284033	260265	42	
0300	Br u/s Boyne R confl	285600	260800	42	

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **CROSS WATER**

07C02

Assessment: The dominance of pollution tolerant macroinvertebrate fauna and paucity of sensitive species indicated moderate ecological conditions at three of the four stations surveyed on the Kinnegad River in 2012. Enriched conditions were evident with luxuriant instream plant growth observed. The macroinvertebrate fauna indicated good ecological conditions at Clonard Bridge (0300) although abundant plant growth was also noted .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br NE of Eskertown	0	0	49	
0060	Br SE of Cloonfad Ho	255729	244371	49	MH
0100	Ballivor Rd Br Kinnegad	260303	245270	49	MH
0200	Kilwarden Br	262260	246075	49	
0300	Clonard Br	265731	244909	49	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0060	76	25	0	100	73	4	3	0	20	0	0
0100	70	43	0	100	75	2	7	2	12	0	1
0200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0300	67	70	0	100	78	2	6	2	10	0	2

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **KNIGHTSBROOK**

07K02

Tributary Of: 07B04 BOYNE

OS Catchment No: 159

OS Grid Ref of confluence: N 829 564

Date(s) Surveyed: 31/12/1976, 31/12/1981, 31/12/1985, 31/12/1990, 31/12/1994, 31/12/1997, 25/8/2000, 5/9/2000, 25/9/2003, 9/5/2006, 30/7/2009, 12/6/2012, 20/9/2012

Biological Quality Ratings (Q Values)

Station Nos.	1976	1981	1985	1990	1994	1997	2000	2003	2006	2009	2012
0100	-	3-4	3	-	3	-	-	-	-	-	-
0200	-	4	3	-	-	-	-	-	-	-	-
0300	-	3-4	3	3	3	3	2-3	2-3	2-3	2-3	3
0360	-	-	-	-	3-4	3-4	3	4	-	-	-
0400	4	3-4	3-4	3-4	-	-	-	-	4	3-4	4
0500	4	4	4	3-4	4	4	3	3-4	3-4	-	3

Assessment: The dominance of pollution tolerant macroinvertebrate fauna indicated poor ecological conditions at Dangan Bridge (0300) and upstream of the Boyne River confluence (0500), excessive siltation and abundant algal growth was also observed. The macroinvertebrate fauna indicated good ecological conditions near Laracor (0400) .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Moynalvy Br	0	0	49	
0200	Clonmeath Br	0	0	49	
0300	Dangan Br	283265	250874	42	MH
0360	Br nr Summerstown Ho	280346	252154	42	MH
0400	Br nr Laracor	280686	253826	42	
0500	Br u/s Boyne R confl	282990	256345	42	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0300	72	42	0	100	86	3	0	1	7	0	2
0360	64	54	0	100	81	2	0	1	13	0	2
0400	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0500	48	71	0	100	79	2	0	1	17	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **LISLEA**

07L01

Tributary Of:

OS Catchment No: 159

OS Grid Ref of confluence: N 622 862

Date(s) Surveyed: 31/12/1980, 31/12/1988, 31/12/1994, 31/12/1997, 12/9/2000, 9/9/2003, 5/7/2006, 9/7/2009, 29/8/2012

Biological Quality Ratings (Q Values)

Station Nos.	1980	1988	1994	1997	2000	2003	2006	2009	2012
0100	4	4	4	4	4	4	4	4	4

Assessment: Continuing satisfactory in 2012, although some signs of enrichment were evident with enhanced macroalgal growth noted .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br u/s Lough Ramor	262295	286204	35	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	89	29	100	0	85	4	1	0	4	0	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **LOUGH LENE-ADEEL STREAM**

07L03

Tributary Of: 07D01 DEEL (RAHARNEY)

OS Catchment No:

OS Grid Ref of confluence: N562 666

Date(s) Surveyed: 31/12/1990, 31/12/1994, 31/12/1997, 22/8/2000, 18/9/2003, 21/6/2006, 5/9/2012

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2012
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## Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	84	13	0	100	93	1	2	0	2	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **MOYNALTY**

07M03

Tributary Of: 07B01 BLACKWATER (KELLS)

OS Catchment No: 159

OS Grid Ref of confluence: N 787 742

Date(s) Surveyed: 31/12/1978, 31/12/1980, 31/12/1984, 31/12/1986, 31/12/1990, 31/12/1994, 31/12/1997, 13/9/2000, 14/9/2000, 10/9/2003, 9/9/2003, 5/7/2006, 6/7/2006, 21/7/2009, 11/10/2012, 21/9/2012, 27/6/2012, 27/9/2012

## Biological Quality Ratings (Q Values)

Station Nos.	1978	1980	1984	1986	1990	1994	1997	2000	2003	2006	2009	2012
0015	-	-	-	-	3-4	-	-	-	-	-	-	-
0020	-	-	-	-	1	2-3	-	-	-	-	-	-
0050	-	-	-	-	4	4	3	3-4	3-4	-	-	-
0060	-	-	-	-	3	-	-	-	-	-	-	-
0070	-	-	-	-	3	3	3-4	3	4	3-4	3-4*	4
0085	-	-	-	-	4-5	-	-	-	-	-	-	-
0090	-	-	-	-	3	3	4	3-4	4	-	-	-
0100	5	3-4	4	3-4	3	-	-	-	-	3-4	-	3-4
0200	-	3-4	3-4	3	3-4	-	-	-	-	3-4	-	3-4
0300	4	3-4	3-4	3-4	3-4	3-4	3	3	3-4	3-4	3-4	3
0500	4-5	3-4	3-4	4	3-4	-	-	-	-	-	-	-
0600	4-5	3-4	-	3-4	3-4	4	3-4	3-4	3-4	3-4	3-4	3
0700	-	-	4	3-4	3-4	-	-	-	-	-	-	-
0800	-	4	-	4	4	4	3-4	3	3-4	4	4	3
0900	3-4	4	-	4	-	4	4	3	3-4	4	4	3

Assessment: The Moynalty River was in an unsatisfactory ecological condition when surveyed in 2012. Good ecological conditions persist in the upper reaches (0070) however some signs of enrichment were evident with enhanced macrophyte and algal growth. The paucity of sensitive macroinvertebrate fauna continues to indicate moderate ecological conditions at Annesbrooke Bridge (0100) and Rosehill Bridge (0200). The complete lack of pollution sensitive macroinvertebrate fauna indicated a decline from moderate to poor ecological conditions at Mullagh Bridge (0300). The complete lack of any sensitive macroinvertebrate species coupled with dominance of pollution tolerant leeches and worms indicated a significant decline to poor ecological conditions at Moynalty Bridge (0600), Carlanstown Bridge (0800) and at Fryanstown Bridge (0900).

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0015	100 m d/s 3rd Br d/s Chapel L	0	0	35	
0020	Br N of Greaghamale	0	0	35	
0050	Br nr Lurganbane	269219	295381	35	CN
0060	Br E of Wilton Ho	0	0	35	
0070	Cloggagh Br	267572	291639	35	MH
0085	Br u/s Skearke Br	0	0	35	
0090	Skearke Br	269016	287986	35	MH
0100	Rathbourne's Br	270228	287014	35	MH
0200	Rosehill Br	271636	285052	35	MH
0300	Mullagh Br	271112	284107	35	MH
0500	Br nr Shancarnan Ho	0	0	35	

0600	Moynalty Br	273499	282537	35	MH
0700	Br nr Mahonstown	0	0	35	
0800	Carlanstown Br	276484	279242	42	MH
0900	Fyanstown Br	279048	275738	42	MH

## Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0050	140	8	100	0	80	0	4	0	3	0	13
0060	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0070	121	26	100	0	89	0	1	0	4	0	5
0085	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0090	100	35	100	0	91	0	1	0	3	0	5
0100	96	50	100	0	92	0	1	0	3	0	4
0200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0300	88	72	100	0	94	0	0	0	2	0	3
0500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0600	73	83	98	2	93	0	0	1	3	0	2
0700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0800	57	121	85	15	90	0	0	1	7	0	2
0900	49	188	61	39	83	0	0	0	14	0	2

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **MULLAGH LOUGH STREAM**

07M06

Tributary Of: 07M03 MOYNALTY

OS Catchment No: 159

OS Grid Ref of confluence: N 710 840

Date(s) Surveyed: 31/12/1978, 31/12/1980, 31/12/1984, 31/12/1986, 31/12/1990, 31/12/1994, 31/12/1997, 14/9/2000, 10/9/2003, 9/10/2006, 21/7/2009, 30/8/2012

## Formerly Mullagh Branch of Moynalty 07M03

Station Nos.	Biological Quality Ratings (Q Values)											
	1978	1980	1984	1986	1990	1994	1997	2000	2003	2006	2009	2012
0400	3	3-4	3-4	3	3	3	3	3	3	3	3-4	3-4*

Assessment: The lack of sensitive macroinvertebrate taxa indicated continuing unsatisfactory moderate ecological conditions on the lower reaches of Mullagh Lough Stream in August 2012. Excessive siltation of the instream river bed was also noted .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Just u/s Moynalty R confl	270948	284142	35	MH

## Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	87	78	100	0	93	0	0	1	3	1	3



River and Code: **SKANE**

07S01

Tributary Of: 07B04 BOYNE

OS Catchment No: 159

OS Grid Ref of confluence: N 871 613

Date(s) Surveyed: 31/12/1979, 31/12/1981, 31/12/1983, 31/12/1985, 31/12/1987, 31/12/1988, 31/12/1989, 31/12/1990, 31/12/1991, 31/12/1994, 31/12/1997, 6/9/2000, 25/9/2003, 11/5/2006, 9/5/2006, 30/7/2009, 12/6/2012

## Biological Quality Ratings (Q Values)

Station Nos.	1979	1981	1983	1985	1987	1988	1989	1990	1991	1994	1997	2000	2003	2006	2009	2012
0100	3-4	3-4	2-3	2-3	3	-	-	2-3	-	-	-	-	-	-	-	-
0150	-	-	-	-	-	-	-	3-4	-	3	2-3	2-3	2-3	3	-	-
0200	1	3	3	2	2	2	2	2	2	-	-	-	-	-	-	-
0300	-	-	3	2-3	2	-	2	2	2	2-3	2-3	3	2-3	3	3	3
0400	-	-	4	2-3	-	-	-	2-3	-	-	-	-	-	-	-	-
0500	-	-	4	3	-	-	-	-	-	-	-	-	-	-	-	-
0510	-	-	-	-	-	-	-	3	-	3	3	3	3-4	3-4	3*	3-4*
0600	3-4	3-4	3-4	3	-	-	-	3-4	-	3	3	3	3-4*	3-4	3	3-4

Assessment: The macroinvertebrate communities at all three stations surveyed on the River Skane indicated continuing unsatisfactory ecological conditions in June 2012. Poor ecological conditions persist in the upper reaches at Athronan Bridge (0300) while a slight improvement to moderate ecological conditions was noted downstream of Kilmessan (0510) and at Dowdstown Bridge (0600).

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Drumree Br	294491	251800	43	
0150	2 km d/s Drumree Br	293338	253207	43	MH
0200	Dunsany Br	290700	254653	42	
0300	Athronan Br	290252	255398	42	MH
0400	E Br Kilmessan	288703	257299	42	
0500	2.5 km d/s Kilmessan	0	0	42	
0510	Br NE of Balgeeth	289128	260094	42	MH
0600	Dowdstown Br	290379	262357	42	MH

## Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0150	77	16	0	100	83	0	0	4	12	0	0
0200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0300	67	38	0	100	64	2	0	2	32	0	0
0400	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0510	54	63	0	100	66	1	0	1	32	0	0
0600	43	87	0	100	64	1	0	2	34	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **STONYFORD**

07S02

Tributary Of: 07B04 BOYNE

OS Catchment No: 159

OS Grid Ref of confluence: N 737 531

Date(s) Surveyed: 31/12/1985, 31/12/1990

Station Nos.	Biological Quality Ratings (Q Values)	
	1985	1990
0100	4	3-4
0200	4	-
0300	3	-
0400	3-4	3-4

Assessment: No current assessment

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br N.N.E. of Kilballyporter	0	0	49	
0200	Tromman Bridge	276506	250454	42	MH
0300	Castletown Bridge	0	0	42	
0400	Bridge u/s Boyne River confl	276399	252699	42	MH

## Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0200	64	24	0	100	84	4	0	2	9	0	1
0300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0400	58	34	0	100	81	3	1	2	13	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **YELLOW (BLACKWATER)**

07Y01

Tributary Of: 07B01 BLACKWATER (KELLS)

OS Catchment No: 159

OS Grid Ref of confluence: N 834 710

Date(s) Surveyed: 31/12/1990, 31/12/1994, 31/12/1997, 8/9/2000, 11/9/2003, 7/7/2006, 22/7/2009, 27/9/2012

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1997	2000	2003	2006	2009	2012
0900	4	-	-	-	-	-	-	-
1100	4	3-4	3	3	3	3	3	3

Assessment: The absence of pollution sensitive macroinvertebrate taxa indicated continuing unsatisfactory ecological conditions on the lower reaches (1100) of the Yellow (Blackwater) River in September 2012 .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0900	Moortown Br	284400	274600	42	
1100	Br u/s Blackwater R confl	283561	271093	42	MH

## Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
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Environmental Protection Agency

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## IT: EPA - Environmental Protection Agency, Ireland

### Biological Q value Results

**\*view printable version\***

**\*Note: depending on your connection, and the size of the hydrometric area requested, results could take a few minutes to appear in the print window\***

### HYDROMETRIC AREA 09

<a href="#">ANNALECKA BROOK</a>	09A01
<a href="#">BALLINAGEE</a>	09B08
<a href="#">BALLYDONNELL BROOK</a>	09B03
<a href="#">BALLYLOW BROOK</a>	09B04
<a href="#">BRITTAS</a>	09B02
<a href="#">CAMAC</a>	09C02
<a href="#">CLONSHANBO</a>	09C03
<a href="#">COCK BROOK</a>	09C04
<a href="#">DODDER</a>	09D01
<a href="#">DOUGLAS (LIFFEY)</a>	09D02
<a href="#">DUNBOYNE STREAM *</a>	09D04
<a href="#">GLASHABOY BROOK</a>	09G02
<a href="#">GRIFFEEN</a>	09G01
<a href="#">KILCULLEN STREAM</a>	09K02
<a href="#">KING'S (LIFFEY)</a>	09K01
<a href="#">LEMONSTOWN STREAM</a>	09L03
<a href="#">LIFFEY</a>	09L01
<a href="#">LYREEN</a>	09L02
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<a href="#">RYE WATER</a>	09R01
<a href="#">SANTRY</a>	09S01
<a href="#">#TOLKA</a>	09T01

\* DUNBOYNE STREAM Formerly Tolka Dunboyne Branch 09T01

River and Code: **ANNALECKA BROOK**

**09A01**

Tributary of: 09K01 KING'S (LIFFEY)

OS Catchment No: 168

OS Grid Ref of confluence: O 053 015

Date(s) Surveyed: 31/12/1996, 18/8/1998, 27/3/2002, 17/5/2005, 18/4/2007, 8/7/2010, 16/8/2013

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

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River and Code: **DUNBOYNE STREAM**

**09D04**

Tributary of: 09T01 TOLKA

OS Catchment No: 167

OS Grid Ref of confluence: O 027 415

Date(s) Surveyed: 31/12/1971, 31/12/1973, 31/12/1975, 31/12/1977, 31/12/1981, 31/12/1988, 31/12/1989, 31/12/1990, 31/12/1994, 31/12/1996, 27/8/1998, 26/6/2002, 17/6/2005, 9/5/2007, 22/7/2010, 21/8/2013

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Formerly Tolka Dunboyne Branch 09T01

**Biological Quality Ratings (Q Values)**

Station Nos.	1971	1973	1975	1977	1981	1988	1989	1990	1994	1996	1998	2002	2005	2007	2010	2013
0500	2	2	1-2	3	2-3	2	2	2	2	2	2	2-3	3	3	3	3-4

**Assessment:** The macroinvertebrate community indicated unsatisfactory conditions in 2013 however a welcome improvement from poor to moderate ecological conditions was noted at Rusk Bridge (0500). This is the first time that moderate ecological conditions has been achieved at this site since monitoring began in 1971 .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Rusk Br	301600	241800	50	MH

**Site Altitude and Upstream Catchment Characteristics (where available):**

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

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River and Code: **GLASHABOY BROOK**

**09G02**

Tributary of: 09A01 ANNALECKA BROOK

OS Catchment No: 168

OS Grid Ref of confluence: O 066 017

Date(s) Surveyed: 31/12/1996, 18/8/1998, 27/3/2002, 17/5/2005, 18/4/2007, 8/7/2010, 16/8/2013

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**Biological Quality Ratings (Q Values)**

Station Nos.	1996	1998	2002	2005	2007	2010	2013
0100	4	3-4*	3/0	4	4	3-4*	4

**Assessment:** The improved diversity of macroinvertebrate fauna indicated a welcome improvement to good ecological conditions when surveyed in August 2013 . .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Glashaboy Br	306557	201692	56	WW

0400	Kildare Br	294607	238610	50	MH
0500	Sandford's Br	297902	237593	50	KE
0600	Br in Leixlip	300427	235996	50	KE

**Site Altitude and Upstream Catchment Characteristics (where available):**

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0090	74	17	0	100	90	0	0	2	8	0	0
0100	69	32	0	100	95	0	0	1	4	0	0
0200	66	36	0	100	94	0	0	3	4	0	0
0300	54	56	0	100	92	0	0	2	6	0	0
0350	48	80	0	100	92	0	0	1	7	0	0
0400	48	168	0	100	81	1	0	2	15	0	0
0500	40	193	0	100	80	2	0	2	16	0	0
0600	28	204	0	100	78	2	0	3	16	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

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River and Code: **SANTRY**

**09S01**

Tributary of: Sea - at Dollymount

OS Catchment No: 166

OS Grid Ref of confluence: O 203 376

Date(s) Surveyed: 31/12/1988, 31/12/1989, 31/12/1990, 31/12/1991, 31/12/1993, 31/12/1994, 31/12/1996, 27/8/1998, 27/6/2002, 21/6/2005, 10/5/2007, 22/7/2010, 21/8/2013

**Biological Quality Ratings (Q Values)**

Station Nos.	1988	1989	1990	1991	1994	1996	1998	2002	2005	2007	2010	2013
0300	1	1	1	2/0	1	2	1-2	2	2-3	2-3	3	3
0800	1	-	-	-	-	-	-	-	-	-	-	-

**Assessment:** Ecological conditions at Clonshaugh Road Bridge remains Poor (Q3) .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Clonshaugh Rd Br	318793	240030	50	DN
0800	Harmonstown Rd Br	0	0	50	

**Site Altitude and Upstream Catchment Characteristics (where available):**

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	0	9	0	100	4	0	0	67	29	0	0
0800	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

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River and Code: **TOLKA**

**09T01**

Tributary of: Sea - Dublin Bay

OS Catchment No: 167

OS Grid Ref of confluence: O 176 358

Date(s) Surveyed: 31/12/1973, 31/12/1975, 31/12/1977, 31/12/1979, 31/12/1981, 31/12/1983, 31/12/1985, 31/12/1987, 31/12/1988, 31/12/1989, 31/12/1990, 31/12/1991, 31/12/1994, 31/12/1996, 27/8/1998, 26/6/2002, 17/6/2005, 21/6/2005, 10/5/2007, 9/5/2007, 28/10/2008, 9/6/2008, 22/7/2010, 26/7/2010, 21/8/2013

**Biological Quality Ratings (Q Values)**

Station Nos. **197319751977197919811983198519871988198919901991199419961998200220052007200820102013**

0100	-	-	-	1	4	3-4	3	-	3	-	-	3	3	-	-	-	-	-	-	-	-
0130	-	-	-	3	3	4	3	-	3	-	-	-	3	-	-	-	-	-	-	-	-
0140	-	-	-	-	-	-	-	-	3	-	-	3	3	-	-	-	-	-	-	-	-
0300	-	-	-	-	3-4	-	3	-	3	-	-	3	3	2	3	3	3-4	3-4	-	3	3
0310	-	-	-	-	-	-	-	-	3	-	-	-	3	-	-	-	-	-	-	-	-
0400	-	-	-	3-4	3-4	3-4	3-4	-	3	-	-	3	3-4	-	-	-	-	-	-	-	-
0600	4	3-4	3-4	3-4	3-4	3-4	3-4	-	2	2	2	2-3	3	3	3	3-4	3-4	3-4	-	3	3
0700	3-4	2-3	3-4	2-3	3	2-3	2-3	-	2	-	-	2	2-3	-	-	-	-	-	-	-	-
0800	2	2-3	3-4	3	3	3	2	3	2	2-3	-	2-3	3	2-3	3	3	3	2-3	-	2-3	2
0900	3-4	4	3-4	3	3-4	3-4	3	-	2	3	-	3	3	-	-	-	-	-	-	-	-
1000	4	2-3	3	2-3	2-3	2-3	2-3	-	2-3	3	-	2-3	-	3	2-3	2-3	3	2	2-3	-	3
1050	-	-	-	-	3	3	3	-	3	3	-	3	3	-	-	-	-	-	-	-	-
1100	1	1/0	1	1	3/0	1/0	2	2	1-2	1-2	1	1/0	2-3/0	3	2-3	2-3	2/0	3	-	3	3
1200	1	-	1	1	1-2	2	2	2	2	1/0	1-2	2	2-3	-	-	-	-	-	-	-	-

**Assessment:** The complete lack of pollution sensitive macroinvertebrate fauna, dominance of pollution tolerant taxa and excessive filamentous algal growth at the majority of stations surveyed indicated unsatisfactory poor ecological conditions on the Tolka River in 2013. The macroinvertebrate community indicated an unwelcome further decline to Bad ecological conditions (Q2) at Mulhuddart Bridge (0800) in 2013.

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Portan Br	0	0	50	
0130	3d Br d/s Portan Br	0	0	50	
0140	Br at Woodpark Stud	0	0	50	
0300	Br at Black Bull	300722	245600	50	MH
0310	Br W of The Flat House	0	0	0	
0400	Br NNE of Dunboyne	0	0	50	
0600	Loughsallagh Br	302782	241683	50	MH
0700	Clonee Br	0	0	50	
0800	Mulhuddart Br	306710	240384	50	DN
0900	Old Corduff Rd Br u/s Blanchardstown	0	0	50	
1000	Dunsink Lane Br (Abbotstown Br)	309292	238346	50	DN
1050	Cardiff's Br	312422	237746	50	
1100	Violet Hill Drive Finglas	314313	237425	50	DN
1200	Drumcondra Rd Br	316200	236730	50	

**Site Altitude and Upstream Catchment Characteristics (where available):**

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0130	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0140	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0300	75	18	0	100	80	0	0	1	19	0	0
0310	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0400	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0600	64	44	0	100	83	0	0	3	15	0	0
0700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0800	52	103	0	100	67	0	0	10	23	0	0
0900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1000	40	116	0	100	61	0	0	17	22	0	0
1050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1100	15	136	0	100	53	0	0	27	20	0	0
1200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.