



## EPA RIVER QUALITY SURVEYS: BIOLOGICAL

Biotic indices ("Q Values") reflect average water quality at any location as follows:

Q Value*	WFD Status	Pollution Status	Condition **
Q5, Q4-5	High	Unpolluted	Satisfactory
Q4	Good	Unpolluted	Satisfactory
Q3-4	Moderate	Slightly polluted	Unsatisfactory
Q3, Q2-3	Poor	Moderately polluted	Unsatisfactory
Q2, Q1-2,	Bad	Seriously polluted	Unsatisfactory

\* These Values are based primarily on the relative proportions of pollution sensitive to tolerant macroinvertebrates (the young stages of insects primarily but also snails, worms, shrimps etc.) resident at a river site. The intermediate values (Q1-2, 2-3, 3-4 etc.) denote transitional conditions. The scheme mainly reflects the effects of organic pollution (i.e. de-oxygenation and eutrophication) but where a toxic effect is apparent or suspected the suffix '0' is added to the biotic index (e.g. Q1/0, 2/0 or 3/0). An asterisk after the Q value (e.g. Q3\*) indicates something worthy of special attention, typically heavy siltation of the substratum.

\*\* "Condition" refers to the likelihood of interference with beneficial or potential beneficial uses.

Also presented is a description of the exact location surveyed with relevant OS Grid Reference, WFD river water body code and relevant Local Authority.

## Hydrometric Area 17

Name	Code
ARAGLIN (COLLIGAN)	17A01
BRICKEY	17B01
COLLIGAN	17C01
DALLIGAN	17D01
DUNHILL	17D02
KILMURRIN COVE STREAM	17K03
LEPERSTOWN STREAM	17L01
MAHON	17M01
MORRAGEN	17M02
TAY	17T01

ARAGLIN (COLLIGAN)

17A01

Date Surveyed (last survey year only): 09/06/22

Biological Quality Rating (Q Values)

Station Code	1987	1991	1996	1998	2001	2004	2007	2010	2013	2016	2019	2022
RS17A010300	4	4-5	4-5	4-5	4	4-5	4	4-5	4	4-5	4-5	4-5
RS17A010400	4	4	4-5	4-5	4	4-5						

Most Recent Assessment:

Continuing satisfactory and maintaining High Ecological Quality since 2016.

Station Details

Station Code	Station Location	WFD Waterbody Code	Easting	Northing	Local Authority
RS17A010300	Coum Br	IE_SE_17A010300	224839	103634	Waterford City & County Council
RS17A010400	Br u/s Colligan R confl	IE_SE_17C010150	223225	102434	Waterford City & County Council

BRICKEY

17B01

Date Surveyed (last survey year only): 15/06/22

Biological Quality Rating (Q Values)

Station Code	1987	1991	1996	1998	2001	2004	2007	2010	2013	2016	2019	2022
RS17B010030	3	3										
RS17B010050			3	3	3	4	3	3-4	3	3	3	3
RS17B010070	3-4	3*										
RS17B010090	3-4	3-4	3-4	3-4	3-4	3-4					3	

Most Recent Assessment:

Continuing unsatisfactory, maintaining Poor ecological quality at Knockmahon Bridge (0050).

Station Details

Station Code	Station Location	WFD Waterbody Code	Easting	Northing	Local Authority
RS17B010030	BRICKEY - Canty Br	IE_SE_17B010050	217806	93696	Waterford City & County Council
RS17B010050	Knockmahon Br	IE_SE_17B010050	218760	93350	Waterford City & County Council
RS17B010070	BRICKEY - Drehidatogher Br	IE_SE_17B010090	218777	93216	Waterford City & County Council
RS17B010090	Br u/s Twomile Br	IE_SE_17B010090	222141	91313	Waterford City & County Council

**COLLIGAN****17C01**

Date Surveyed (last survey year only): 09/06/22, 14/06/22

**Biological Quality Rating (Q Values)**

Station Code	1981	1984	1987	1991	1996	1998	2001	2004	2007	2010	2013	2016	2019	2022
RS17C010090			4-5	4	4-5	4-5	4	4-5	4-5	4-5	4	4-5	4-5	4-5
RS17C010100	5	4	4-5	4	4-5	4-5	4	4-5	4	4-5	4	4-5	4-5	4-5
RS17C010150					4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
RS17C010180			4	4	4-5	4-5	4-5	4-5						
RS17C010250				4	4	4	4	4	4	4	3-4	4	4	4

**Most Recent Assessment:**

Continuing satisfactory along its entire length, with the three uppermost stations maintaining High ecological quality and the lowermost station maintaining Good quality

**Station Details**

Station Code	Station Location	WFD Waterbody Code	Easting	Northing	Local Authority
RS17C010090	Scart Br (West)	IE_SE_17C010100	222989	104814	Waterford City & County Council
RS17C010100	Scart Br (East)	IE_SE_17C010100	222991	104811	Waterford City & County Council
RS17C010150	Br ESE of Lackandarra	IE_SE_17C010150	223070	102066	Waterford City & County Council
RS17C010180	COLLIGAN - Colligan Br	IE_SE_17C010180	222026	97970	Waterford City & County Council
RS17C010250	Br nr Killadangan	IE_SE_17C010300	223229	95118	Waterford City & County Council

DALLIGAN

17D01

Date Surveyed (last survey year only): 14/06/22

Biological Quality Rating (Q Values)

Station Code	1987	1991	1996	1998	2001	2004	2007	2010	2013	2016	2019	2022
RS17D010050	4	4	4	4	4	4		4-5	4-5	4-5	4-5	4-5
RS17D010100	4	4	3-4	4	4	4						
RS17D010300	4	4	3-4	4	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5

Most Recent Assessment:

Continuing satisfactory with High ecological quality at both locations sampled.

Station Details

Station Code	Station Location	WFD Waterbody Code	Easting	Northing	Local Authority
RS17D010050	DALLIGAN - Br E of Carricknafinnoge	IE_SE_17D010300	229507	100361	Waterford City & County Council
RS17D010100	Bridge at Shanbally	IE_SE_17D010300	231004	97498	Waterford City & County Council
RS17D010300	New Br, u/s Ballyvoyle Br	IE_SE_17D010300	233815	95953	Waterford City & County Council

DUNHILL

17D02

Date Surveyed (last survey year only): 07/06/22

Biological Quality Rating (Q Values)

Station Code	1990	1991	1996	1998	2001	2004	2007	2010	2013	2016	2019	2022
RS17D020100	3-4	2-3	3	2	3-4	3-4	3-4	3-4	3	3-4	3	3
RS17D020200	3-4	3	3	3-4	3-4	3-4					3	3

Most Recent Assessment:

Continuing unsatisfactory, with both stations maintaining Poor biological quality. (Also known as the Annestown Stream)

Station Details

Station Code	Station Location	WFD Waterbody Code	Easting	Northing	Local Authority
RS17D020100	Ballyphilip Br	IE_SE_17D020300	250743	102661	Waterford City & County Council
RS17D020200	Bridge W. of Dunhill Lodge	IE_SE_17D020300	250543	100806	Waterford City & County Council

**KILMURRIN COVE STREAM****17K03**

Date Surveyed (last survey year only): 07/06/22, 13/06/22

**Biological Quality Rating (Q Values)**

Station Code	1987	1988	1991	2020	2021	2022
RS17K030100	4		4			
RS17K030110	1	3	2			
RS17K030200	3		2-3	3-4	3	3
RS17K030300	4		3			
RS17K030600	4			4		4
RS17K031000	3-4		3			

**Most Recent Assessment:**

In June 2022, two sites on the Kilmurrin Cove Stream were sampled. The site downstream of Kill village and its wastewater treatment plant (0200) remains unsatisfactory and at Poor quality. In addition to being located downstream of the treatment plant, this site is extensively heavily poached along its length and affected by excessive siltation and cattle access. The bridge N. of Kilmurrin Cove (0600) maintained Good quality.

**Station Details**

Station Code	Station Location	WFD Waterbody Code	Easting	Northing	Local Authority
RS17K030100	KILMURRIN COVE STREAM - Bridge E. of Kill Village	IE_SE_17K030200	246550	105116	Waterford City & County Council
RS17K030110	KILMURRIN COVE STREAM - Just d/s Br E of Kill Village	IE_SE_17K030200	246519	104953	Waterford City & County Council
RS17K030200	Br near Kilbeg (d/s Kill village)	IE_SE_17K030200	246494	101645	Waterford City & County Council



Station Code	Station Location	WFD Waterbody Code	Easting	Northing	Local Authority
RS17K030300	KILMURRIN COVE STREAM - Just d/s Ballin Lough Trib	IE_SE_17K030200	246471	100498	Waterford City & County Council
RS17K030600	KILMURRIN COVE STREAM - Bridge N. of Kilmurrin Cove	IE_SE_17K030200	246369	99677	Waterford City & County Council
RS17K031000	KILMURRIN COVE STREAM - Bridge u/s Main Chan confl	IE_SE_17K030200	246579	99016	Waterford City & County Council

LEPERSTOWN STREAM

17L01

Date Surveyed (last survey year only): 07/06/22

Biological Quality Rating (Q Values)

Station Code	1994	1996	1998	2001	2004	2007	2010	2013	2019	2022
RS17L010300	3	3	3	3	3	3	3	3	3	3

Most Recent Assessment:

The Leperstown Stream remained unsatisfactory in 2022 and was assessed as being at Poor Ecological quality, a condition which has persisted since monitoring began here in 1994.

Station Details

Station Code	Station Location	WFD Waterbody Code	Easting	Northing	Local Authority
RS17L010300	Br W of Leperstown	IE_SE_17L010300	265702	102093	Waterford City & County Council

**MAHON****17M01**

Date Surveyed (last survey year only): 08/06/22, 13/06/22

**Biological Quality Rating (Q Values)**

Station Code	1987	1991	1996	1998	2001	2004	2007	2010	2013	2016	2019	2020	2022
RS17M010100	3-4	4	4	4	4	4-5	4-5	4-5	4-5	4-5	4-5		4-5
RS17M010140	3-4	3	4	4	4	4					3-4	4	4
RS17M010170												4	
RS17M010180	4	4										4	3-4
RS17M010200	3	3	4	3-4	3-4	3-4	3-4	3-4	3	3-4	3-4	3-4	3-4
RS17M010300	4	4	4	4	4	4							
RS17M010350	4	4	4	4	4	4	4	4	4	4	4		4

**Most Recent Assessment:**

Satisfactory in the upper reaches, maintaining High ecological quality at Mahon Bridge (0100) and Good quality at the Bridge near Ballyboy (0140). The river declined from Good to Moderate quality in Kilmacthomas (0180) and remains unsatisfactory downstream of the town at 0200. The river returns to Good quality at the lowermost station (0350) which has not changed since sampling began in 1987

**Station Details**

Station Code	Station Location	WFD Waterbody Code	Easting	Northing	Local Authority
RS17M010100	Mahon Br, Furraleigh	IE_SE_17M010100	234285	105959	Waterford City & County Council
RS17M010140	MAHON - Br S of Ballyboy	IE_SE_17M010200	236770	105694	Waterford City & County Council
RS17M010170	Beside Flahavan's factory	IE_SE_17M010200	239300	106540	Waterford City & County Council

Station Code	Station Location	WFD Waterbody Code	Easting	Northing	Local Authority
RS17M010180	MAHON - Br in Kilmacthomas	IE_SE_17M010200	239406	106142	Waterford City & County Council
RS17M010200	Br just S of Kilmacthomas	IE_SE_17M010200	239593	105673	Waterford City & County Council
RS17M010300	Aughshemus Bridge	IE_SE_17M010300	241697	102608	Waterford City & County Council
RS17M010350	ENE of Seafield Ho	IE_SE_17M010350	242319	101021	Waterford City & County Council

MORRAGEN

17M02

Date Surveyed (last survey year only): 08/06/22

Biological Quality Rating (Q Values)

Station Code	1987	1991	1996	1998	2001	2004	2007	2010	2013	2016	2019	2022
RS17M020100	3	4		3-4	4	3-4						
RS17M020200	4	4	4	4	4	3-4	4	4	4	4	4	4

Most Recent Assessment:

Continuing satisfactory with Good ecological quality

Station Details

Station Code	Station Location	WFD Waterbody Code	Easting	Northing	Local Authority
RS17M020100	Rahoughtragh Bridge	IE_SE_17M020200	240210	109492	Waterford City & County Council
RS17M020200	Kilnagrange Br	IE_SE_17M020200	239348	106509	Waterford City & County Council

TAY

17T01

Date Surveyed (last survey year only): 13/06/22, 14/06/22

Biological Quality Rating (Q Values)

Station Code	1976	1984	1987	1991	1996	1998	2001	2004	2007	2010	2013	2016	2018	2019	2020	2022
RS17T010050			4-5	4-5	4-5	4	3-4	4-5	4-5	4-5	4	4	4-5	4	4-5	4-5
RS17T010100		4-5	4-5	4-5	4	4	3-4	4-5								
RS17T010200			4-5	4	4											
RS17T010250					4-5	4	4	4-5	4	4-5	4	4-5		4-5		4-5
RS17T010300	4-5	4-5	4-5	4												
RS17T010400			4-5	4	4	4	4	4	4	4	4	4		4		4

Most Recent Assessment:

Satisfactory along its length, the two uppermost station at Aughnacurra bridge (0050) and station 0250 maintained High ecological quality and lowermost station at Stradbally Bridge (0400) maintains Good ecological quality.

Station Details

Station Code	Station Location	WFD Waterbody Code	Easting	Northing	Local Authority
RS17T010050	Aughnacurra Br	IE_SE_17T010050	231977	103981	Waterford City & County Council
RS17T010100	TAY - Br NE of Lemybrien	IE_SE_17T010250	233504	102343	Waterford City & County Council
RS17T010200	TAY - Fox's Castle Br	IE_SE_17T010250	234061	100406	Waterford City & County Council
RS17T010250	Br nr Durrow Ho	IE_SE_17T010250	233971	98741	Waterford City & County Council

Station Code	Station Location	WFD Waterbody Code	Easting	Northing	Local Authority
RS17T010300	Br. S of Kilminnin	IE_SE_17T010400	234724	98159	Waterford City & County Council
RS17T010400	Stradbally Br	IE_SE_17T010400	236877	97176	Waterford City & County Council