

MICROBIOLOGICAL RESULTS FOR CARNLOUGH
BATHING WATER IN NORTHERN IRELAND

location	date		total coliforms cfu/100ml		faecal coliforms cfu/100ml		faecal streptococci cfu/100ml
CARNLOUGH	04/06/2008	<	10		1	<	1
CARNLOUGH	09/06/2008	<	10	<	1		1
CARNLOUGH	13/06/2008	<	10	<	1	<	1
CARNLOUGH	16/06/2008	<	10	<	1	<	1
CARNLOUGH	18/06/2008		20		9		64
CARNLOUGH	26/06/2008	<	10	<	1		20
CARNLOUGH	01/07/2008		1500		1500		540
CARNLOUGH	08/07/2008		30		5		16
CARNLOUGH	17/07/2008		50		7		6
CARNLOUGH	22/07/2008		10		2		2
CARNLOUGH	28/07/2008	<	10	<	1	<	1
CARNLOUGH	04/08/2008		2600		1700		350
CARNLOUGH	07/08/2008		150		80		21
CARNLOUGH	13/08/2008		2200		1200		270
CARNLOUGH	15/08/2008	<	10		3	<	1
CARNLOUGH	20/08/2008		50		42		9
CARNLOUGH	29/08/2008		10		2	<	1
CARNLOUGH	02/09/2008		50		13		3
CARNLOUGH	05/09/2008		170		130		36
CARNLOUGH	11/09/2008		200		41		25

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location	date		total coliforms cfu/100ml		faecal coliforms cfu/100ml		faecal streptococci cfu/100ml
CARNLOUGH	02/06/2009	<	10		17		5
CARNLOUGH	04/06/2009		70		58		34
CARNLOUGH	08/06/2009		30		9		4
CARNLOUGH	16/06/2009		80		36		49
CARNLOUGH	22/06/2009		10		16		8
CARNLOUGH	29/06/2009		60		36		22
CARNLOUGH	02/07/2009		2000		1100		430
CARNLOUGH	08/07/2009		20		11		10
CARNLOUGH	15/07/2009		350		120		220
CARNLOUGH	20/07/2009		30		16		12
CARNLOUGH	24/07/2009		370		200		69
CARNLOUGH	28/07/2009		140		51		110
CARNLOUGH	05/08/2009		20	<	10		16
CARNLOUGH	13/08/2009	<	10		1	<	1
CARNLOUGH	21/08/2009		630		450		190
CARNLOUGH	24/08/2009		370		140		28
CARNLOUGH	27/08/2009		230		39		10
CARNLOUGH	01/09/2009		2300		400		150
CARNLOUGH	04/09/2009		30		13		2
CARNLOUGH	09/09/2009		50		17		4

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location	date		total coliforms cfu/100ml		faecal coliforms cfu/100ml		faecal streptococci cfu/100ml
CARNLOUGH	01/06/2010	<	10	<	1		3
CARNLOUGH	07/06/2010		60		29		2
CARNLOUGH	15/06/2010	<	10	<	1		1
CARNLOUGH	24/06/2010	<	10	<	1	<	1
CARNLOUGH	28/06/2010	<	10		2		1
CARNLOUGH	01/07/2010		50		17		1
CARNLOUGH	07/07/2010		20		13		10
CARNLOUGH	14/07/2010		26000		9300		3300
CARNLOUGH	19/07/2010		100		16		7
CARNLOUGH	23/07/2010	<	10		8		1
CARNLOUGH	27/07/2010		10		1	<	1
CARNLOUGH	04/08/2010	<	10		1		1
CARNLOUGH	12/08/2010	<	10		7		10
CARNLOUGH	20/08/2010		60		27		5
CARNLOUGH	23/08/2010		20		9		10
CARNLOUGH	26/08/2010		70		11		9
CARNLOUGH	31/08/2010		10		6		7
CARNLOUGH	03/09/2010	<	10		4	<	1
CARNLOUGH	08/09/2010		470		420		190
CARNLOUGH	10/09/2010		350		98		26

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location	date		total coliforms cfu/100ml		faecal coliforms cfu/100ml		faecal streptococci cfu/100ml
CARNLOUGH	03/06/2011	<	10	<	1		4
CARNLOUGH	07/06/2011		420		320		45
CARNLOUGH	13/06/2011		10		8		1
CARNLOUGH	16/06/2011		10	<	1	<	1
CARNLOUGH	22/06/2011		40		5		22
CARNLOUGH	30/06/2011		10		7	<	1
CARNLOUGH	05/07/2011		140		43		29
CARNLOUGH	15/07/2011		20		6		1
CARNLOUGH	20/07/2011		10		2	<	1
CARNLOUGH	25/07/2011		10		2	<	1
CARNLOUGH	28/07/2011		30		2		2
CARNLOUGH	02/08/2011		50		21		7
CARNLOUGH	08/08/2011	<	10	<	1		1
CARNLOUGH	10/08/2011		390		200		55
CARNLOUGH	16/08/2011		10		11		9
CARNLOUGH	18/08/2011		20		5		20
CARNLOUGH	22/08/2011		10		1	<	1
CARNLOUGH	26/08/2011		110		40		29
CARNLOUGH	31/08/2011		10		1		3
CARNLOUGH	06/09/2011		1200		1100		3600

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location	date		<i>Escherichia coli</i> cfu/100ml		Intestinal Enterococci cfu/100ml
CARNLOUGH	30/05/2012	<	10	<	10
CARNLOUGH	06/06/2012		660		130
CARNLOUGH	11/06/2012		27		19
CARNLOUGH	19/06/2012		17		13
CARNLOUGH	22/06/2012		630		500
CARNLOUGH	28/06/2012		1900		210
CARNLOUGH	04/07/2012		490		170
CARNLOUGH	09/07/2012		33		11
CARNLOUGH	16/07/2012	<	10	<	10
CARNLOUGH	20/07/2012	<	10	<	10
CARNLOUGH	24/07/2012		910		70
CARNLOUGH	01/08/2012		4800		2900
CARNLOUGH	06/08/2012	<	10	<	10
CARNLOUGH	09/08/2012	<	10	<	10
CARNLOUGH	14/08/2012		16	<	10
CARNLOUGH	17/08/2012		61	<	10
CARNLOUGH	22/08/2012		14		12
CARNLOUGH	29/08/2012		19	<	10
CARNLOUGH	04/09/2012	<	10	<	10
CARNLOUGH	06/09/2012	<	10	<	10

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location	date		<i>Escherichia coli</i> cfu/100ml		Intestinal Enterococci cfu/100ml
CARNLOUGH	30/05/2013	<	10	<	10
CARNLOUGH	06/06/2013	<	10	<	10
CARNLOUGH	12/06/2013	<	10	<	10
CARNLOUGH	17/06/2013		150		12
CARNLOUGH	21/06/2013		13	<	10
CARNLOUGH	25/06/2013	<	10	<	10
CARNLOUGH	01/07/2013	<	10	<	10
CARNLOUGH	05/07/2013	<	10	<	10
CARNLOUGH	09/07/2013		19	<	10
CARNLOUGH	17/07/2013	<	10	<	10
CARNLOUGH	22/07/2013	<	10	<	10
CARNLOUGH	26/07/2013	<	10	<	10
CARNLOUGH	01/08/2013		560		380
CARNLOUGH	06/08/2013		16		46
CARNLOUGH	12/08/2013	<	10	<	10
CARNLOUGH	14/08/2013	<	10	<	10
CARNLOUGH	19/08/2013		30		41
CARNLOUGH	30/08/2013		22		14
CARNLOUGH	04/09/2013		12		24
CARNLOUGH	10/09/2013		49	<	10

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INTERPRETATION OF RESULTS, 2008-11

Interpretation of results is in accordance with:

The Quality of Bathing Water Regulations (Northern Ireland) 1993;
The Quality of Bathing Water (Northern Ireland) Regulations 2008.

Excellent Water Quality

This is the most stringent

i.e. the **Guideline** microbiological water quality standard of the Bathing Water Directive 76/160/EEC.

Total coliforms no greater than 500 per 100ml of water AND

Faecal coliforms no more than 100 per 100ml of water AND

Faecal streptococci no more than 100 per 100 ml of water

Annually 80% (16 out of 20 sampling occasions) must meet the coliform standards AND

Annually 90% (18 out of 20 sampling occasions) must meet the faecal streptococci standards

Good Water Quality

Means the sample meets the

Minimum Mandatory microbiological water quality standard of the Bathing Water Directive 76/160/EEC.

Total coliforms no greater than 10,000 per 100ml of water AND

Faecal coliforms no greater than 2,000 per 100ml

Annually 95% (19 out of 20 sampling occasions) must meet these standards

Poor Water Quality

Means the sample **failed** the standard required for good water quality

i.e. it failed to meet Mandatory standard of Bathing Water Directive 76/160/EEC

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INTERPRETATION OF RESULTS, 2012 - 2013

The UK is going through a transition period from the Bathing Waters Directive 76/160/EEC to the revised Bathing Waters Directive 2006/7/EC. Full implementation will be achieved at the end of the 2015 bathing season.

Interpretation of 2012, 2013 results is in accordance with:

The UK devolved administrations agreed procedure, where revised Directive parameters are monitored but classification is as per the original Directive;

The Quality of Bathing Water Regulations (Northern Ireland) 1993;

The Quality of Bathing Water (Northern Ireland) Regulations 2008.

Excellent Water Quality

This is the most stringent

i.e. the **Guideline** microbiological water quality standard of the Bathing Water Directive 76/160/EEC.

Escherichia coli (equivalent to Faecal coliforms) no more than 100 per 100ml of water AND

Intestinal enterococci (equivalent to Faecal streptococci) no more than 100 per 100 ml of water

Annually 80% (16 out of 20 sampling occasions) must meet the Escherichia coli standards AND

Annually 90% (18 out of 20 sampling occasions) must meet the intestinal enterococci standards

Good Water Quality

Means the sample meets the

Minimum Mandatory microbiological water quality standard of the Bathing Water Directive 76/160/EEC.

Escherichia coli (equivalent to Faecal coliforms) no greater than 2,000 per 100ml

Annually 95% (19 out of 20 sampling occasions) must meet these standards

Poor Water Quality

Means the sample **failed** the standard required for good water quality

i.e. it failed to meet Mandatory standard of Bathing Water Directive 76/160/EEC