

DRINKING WATER QUALITY REPORT FOR NORTHERN IRELAND 2016	1 st August 2017				
TO: ENVIRONMENTAL SERVICES COMMITTEE					
FOR INFORMATION					

Linkage to Council Strategy (2015-19)			
Strategic Theme	Resilient Healthy & Engaged Communities		
Outcome	Compliance with Statutory Duty		
Lead Officer	Head of Health and Built Environment		
Cost: (If applicable)	Council Officer Time (TOIL) & Agency Staff Overtime		

Water Quality by Northern Ireland Local Council Area

Council recently received an annual report on Water Quality for the Borough of Causeway Coast and Glens for the year 2016.

For monitoring purposes NI Water's supply area is divided into water supply zones. These are areas serving not more than 100,000 people, each of which are normally supplied from a single water supply source or combination of sources. There are areas where owing to topography and dispersal of population, it is not practicable to provide a mains water supply. Currently over 99.9% of Northern Ireland's population receive public water supplies.

In a number of cases water supply zones overlap council boundaries.

Following discussions with the Drinking Water Inspectorate, water supply zones with fewer than 40 properties within the council area have not been used to calculate the individual council compliance. The information is based on samples taken randomly from customer taps in each water supply zone and from planned samples at authorised supply points. Due to the nature of random sampling, there may be fluctuations in water quality across the water supply zones.

The report also details Capital Work Programmes affecting the council area which directly related to water quality during the reporting period.

Small variations in water quality compliance performance occur across Northern Ireland. This reflects the need to continue to invest in and to maintain water treatment works, and to improve the water mains network.

NI Water has identified the need to deliver a significant volume of water mains rehabilitation and other works across its ageing network. The works are necessary to ensure the efficient and cost effective operation of its water supply system in the immediate future and longer term as well as ensuring adequate levels of water quality and customer supply. To achieve this goal, NI Water has implemented a Water mains Rehabilitation Framework, within which it undertakes work on a Northern Ireland wide basis as identified by the zonal study programme of work.

% Compliance at Customer Tap (including Supply Points)

	Target	2013	2014	2015	2016
Overall Northern Ireland					
Compliance	99.7%	99.7%	99.8%	99.7%	99.8%
Causeway Coast and Glens					
Compliance	99.7%	99.8%	99.8%	99.7%	99.8%

2016 water supply zones wholly or partially within the council area of Causeway Coast and Glens Borough Council

Zone Code	Zone Name	Zone Code	Zone Name
ZN0101	Ballinrees Coleraine	ZN0601	Ballinrees Limavady
ZN0202	Altnahinch Bushmills	ZN0603	Carmoney Eglinton
ZN0204	Rathlin Island	ZN0604	Caugh Hill Dungiven
ZN0302	Dungonnell Glarryford	ZN0607	Corrody Derry
ZN0501	Moyola Magherafelt		

2016 water quality Capital Works Programmes affecting the Borough

A26 Dualling: Glarryford to A44 (Drones Road) Junction - Water main replacements Antrim North WIIM 2.1 Work Package.

ZN0101 - Ballinrees Coleraine

The water supplied in this zone within the Causeway Coast and Glens council area complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 (as amended) except for the following parameter(s):-

Total coliforms - two exceedances

Total coliforms are an indication of microbiological contamination. Exceedances can occur when there are problems with disinfection of the water supply or where the sample tap is contaminated. Most total coliform / E Coli exceedances are because of contamination of the customer tap. Investigation of these exceedances found that the water supply was satisfactory and that the contamination was most likely related to the customer tap on all occasions.

ZN0202 - Altnahinch Bushmills

The water supplied in this zone complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 (as amended) except for the following parameter(s):-

Odour – single exceedance

The cause of the exceedance was undetermined and all resamples were satisfactory.

ZN0204 - Rathlin Island

The water supplied in this zone complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 (as amended) except for the following parameter(s):-

Taste – single exceedance

The sample was taken at a tap at the harbour. The cause of the original exceedance and resamples were potentially due to contamination by seawater due to the exposed nature of the taps.

ZN0302 - Dungonnell Glarryford

The water supplied in this zone complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 (as amended) except for the following parameter(s):-

Total Trihalomethanes (THMs) - single exceedance

Trihalomethanes are chlorination by-products arising from the use of chlorine as a disinfectant in the production of drinking water. The maintenance of the microbiological quality of water is NI Water's main priority. This exceedance was caused by treatment issues at Dungonnell WTW increasing the final water THMs. Further monitoring and replacement of capital equipment is to be prioritised to enable improved treatment optimisation.

ZN0501 - Moyola Magherafelt

The water supplied in this zone complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 (as amended).

ZN0604 - Caugh Hill Dungiven

The water supplied in this zone complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 (as amended) except for the following parameter(s):-

Iron - two exceedances

Investigations found that these exceedances were most likely caused by a disturbance of mains deposits from older iron mains, with resamples being satisfactory after flushing if required. NI Water has in place an extensive Mains Rehabilitation Programme, which favours mains replacement and zones are prioritised according to need. This programme will continue to maintain and improve the quality of water in your council area over the next few years.

Total Trihalomethanes (THMs) – single exceedance

Trihalomethanes are chlorination by-products arising from the use of chlorine as a disinfectant in the production of drinking water. The maintenance of the microbiological quality of water is NI Water's main priority. This exceedance was caused by treatment issues at Caugh Hill WTW increasing the final water THMs. Further monitoring and replacement of capital equipment is to be prioritised to enable improved treatment optimisation.

ZN0603 - Carmoney Eglinton

The water supplied in this zone complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 (as amended).

ZN0607 - Corrody Derry

The water supplied in this zone complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 (as amended) except for the following parameter(s):-

Total Trihalomethanes (THMs) – single exceedance

This exceedance was caused by treatment issues at Caugh Hill WTW increasing the final water THMs. Further monitoring and replacement of capital equipment is to be prioritised to enable improved treatment optimisation.

ZN0601 - Ballinrees Limavady

The water supplied in this zone complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 (as amended).