Drinking Water Quality Report for Northern Ireland 2014

Causeway Coast and Glens Borough Council

Water Quality by Northern Ireland Local Council Area

This local council report is designed to demonstrate water quality by individual council area based on the Mean Zonal Compliance (MZC) over the water supply zones associated with that council area, as shown on the enclosed map.

In this and prior reports, NI Water's compliance has been assessed using MZC. This solely looks at the average quality of water at customer tap or authorised supply point, but does not include parameters at water treatment works or service reservoirs. This measure is reported on for 2014 as a reporting requirement of the Utility Regulator (NI) as in previous years.

NI Water is changing its water quality reporting methodology from 2015 onwards to use overall percentage compliance. This assesses all regulatory consented parameters at water treatment works, service reservoirs as well as customer tap. This is a more holistic approach and is supported by the Drinking Water Inspectorate and the Utility Regulator.

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 99.6% of Northern Ireland's population receive public water supplies.

In a number of cases water supply zones overlap district council boundaries. The council reports indicate which water supply zones are wholly or partially contained within the council areas, including those zones which may have a relatively small area within the council area. Separation of data within these water supply zones across council boundaries is not practicable, therefore the information used in calculating the MZC relates to the whole zone and not merely the part included within a council boundary. 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 MZC. 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 programme 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. It is also to ensure adequate levels of water quality and customer supply.

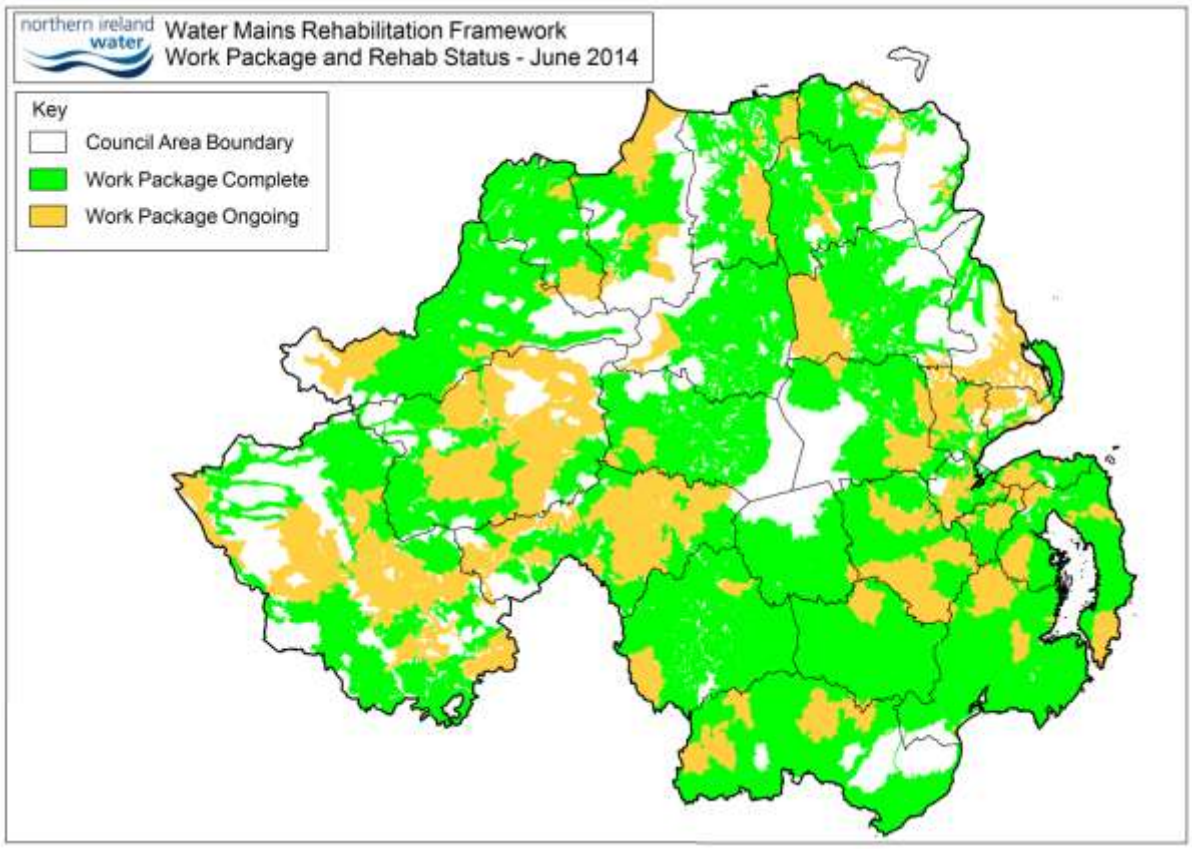
In delivering these objectives, NI Water's main delivery mechanism is the Water Mains Rehabilitation Framework. This consists of two Contractors and has delivered over 1000km of new water mains in the past three years. The investment cycle just ending was Price Control 13 (PC13), which delivered 447km of new and renovated water main infrastructure over the last two years, and it is targeted to deliver 105km during 2015-16.

The rehabilitation framework delivers water mains across Northern Ireland as identified by the programme of work from the Watermain Infrastructure Investment Model (WIIM). This model is fed by NI Water internal Corporate Data, and is a new more customer based approach for water mains rehabilitation. The model recognises that most of the widespread water mains rehabilitation has been completed and is now moving to a more localised, targeted approach, producing a prioritised list of Water Network schemes for delivery by NI Water's Engineering Procurement directorate via the Watermains Rehabilitation framework.

Following the removal of some small water supply sources, NI Water reassessed its water supply zones for 2011 onwards. This led to the removal of some small zones along with the merging of other zones. As the MZC calculation is based on the number of zones in a particular council area, this has changed the factors used in the calculation and may lead to a perception of a change in water quality.

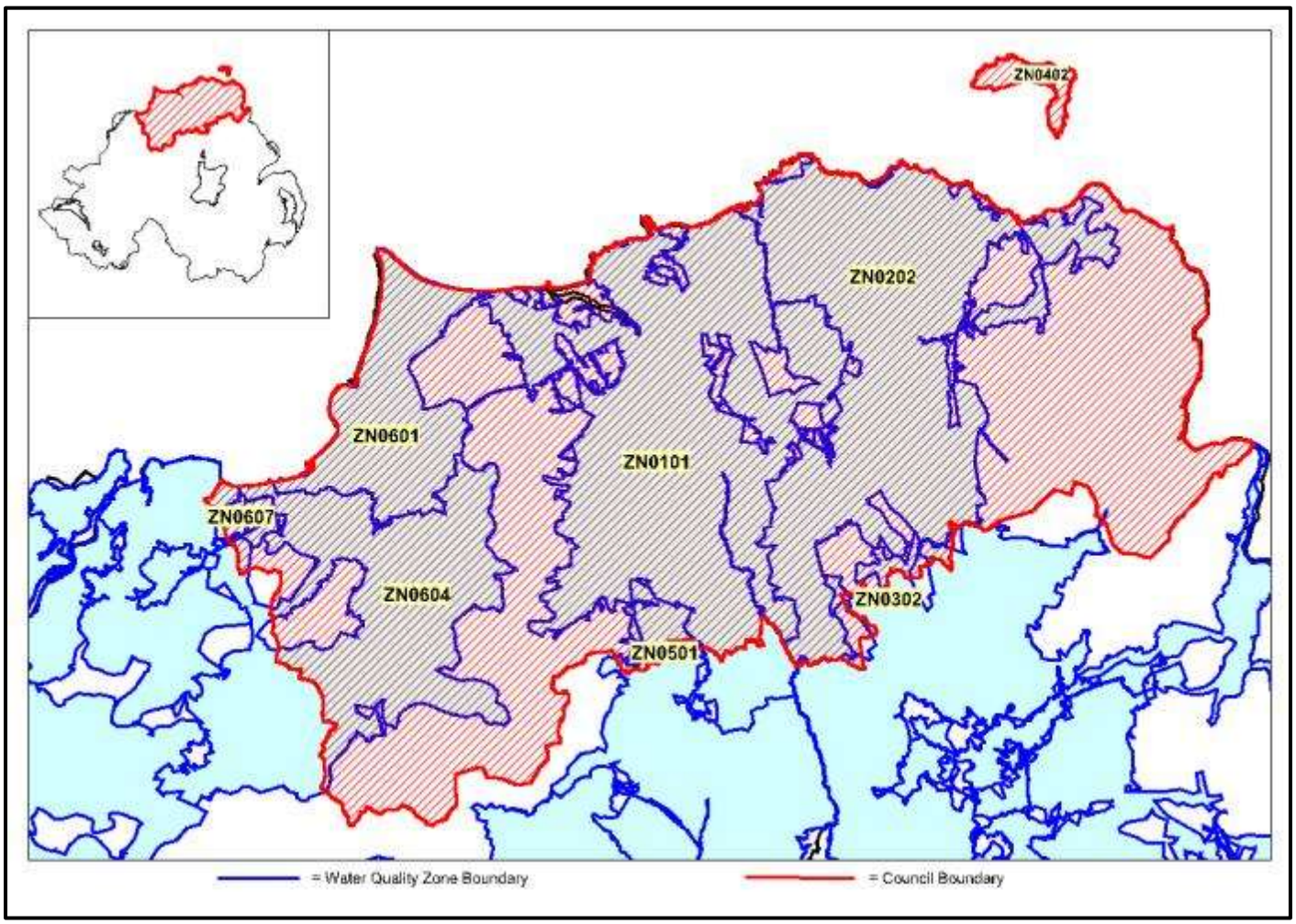
Overall, the quality of water supplied to our customers over the last period has improved rising from a Mean Zonal Compliance of 99.50% in 2008 to 99.84% in 2014 measured against our Social and Environmental Guidance target of 99.70%.

Watermains Rehabilitation Framework - Work Package Status



The map above shows the extent of the current Watermains Rehabilitation Framework covering most of Northern Ireland. To assist clarity, whilst the previous council boundaries are shown, the individual councils are not named. Regions in white on the map are largely upland areas or watercourses which do not receive public water supply.

Causeway Coast and Glens Borough Council



Mean Zonal Compliance (MZC)

	Target	2012	2013	2014
Overall Northern Ireland MZC	99.7%	99.8%	99.9%	99.8%
Ballymoney Council MZC	99.7%	99.9%	99.8%	99.8%

2014 water supply zones wholly or partially within the council area:

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		

2014 water quality Capital Works Programmes affecting the council area:

Ballinrees to Limavady/Londonderry Supply Augmentation
Brishey Springs Decommissioning, Dungiven
Caugh Hill WTW FAS Storage
Chatham Road, Armoy, Watermain Replacement
Green Road, Coleraine WM Ext
High Priority Watermain Phase 2 Work Package
Kilraughts Road Ballymoney Water Main Replacement
MIMP North (Major Incident Mitigation Project North Region) Freeze Thaw Improvements
Moyola Zone Watermain Improvements

Non-Infrastructure Major Works
Rathlin Island Borehole Feasibility Study
Replacement Watermain 2014/15 - Reactive, Bundle 1
SEMD Surveys PC10 Water
Service Reservoir Assessments - Site Access
Service Reservoir Enhanced Security
Service Reservoir Security Phase 1
SR By-pass Schemes
Water Resource and Supply Resilience Plan
Watermain Rehabilitation, New and Replacement including FTS - Professional Services
WP134 High Priority Watermain Ph1
WTW - Treatability Appraisal of Caugh Hill WTW
WTW Effluent Quality
WTW Resilience Programme
WTWs Five Treatability Appraisal Studies

UNDERSTANDING YOUR WATER QUALITY RESULTS

Where the water quality standards come from

The water we supply for domestic use or food production must comply with the standards in The Water Supply (Water Quality) Regulations (NI) 2007, which incorporate European Union standards and more stringent UK national standards. These Regulations detail the acceptable levels of certain characteristics, elements and substances allowed in drinking water. Usually, this is a maximum level; but, occasionally, a minimum is also set (e.g. pH). This permissible level is known as the Prescribed Concentration or Value (PCV). Some of the regulatory levels are set for aesthetic reasons and not for health (e.g. Colour).

Where we sample

Samples are taken from our service reservoirs, water treatment works, and taps in customers' homes. Every year, our accredited state-of-the-art laboratories carry out over 100,000 sophisticated tests to ensure quality standards are met. The Drinking Water Inspectorate (DWI) within the Northern Ireland Environment Agency (NIEA) also independently audits these tests and issues a report each year on its findings. DWI ensures that NI Water meets more than 50 legal standards for drinking water quality to match water companies across the rest of the UK. The standards are strict and generally include wide safety margins. They cover: bacteria; chemicals, such as nitrates and pesticides; metals, such as lead; and how water looks and tastes.

What happens if a test fails?

If a sample fails a test, this does not necessarily mean the water is unsafe to drink. Sometimes, the water in our mains or pipes and in the neighbouring properties is good, but the failure is caused by the householder's own plumbing system. However, we take all failures of these standards very seriously and these are dealt with by a team of specialists. All failures are recorded, investigated and action is taken to resolve the problem. If the contamination is found to be due to the tap or internal plumbing, NI Water will inform the customer in writing of the reason for the failure so

that they can take appropriate action. A copy of the letter is also provided to the Public Health Agency, the local Environmental Health Officer and the DWI.

All PCV failures are also reported externally to the DWI, respective health boards, Environmental Health departments, the Consumer Council for Northern Ireland (CCNI), DRD Water Policy Unit and the Utility Regulator (NAIUR).

Units of measurement

The units of measurement used in this factsheet are as follows:

- 1 milligram per litre (mg/l) is one part per million
- 1 microgram per litre (µg/l) is 1 part per billion (or thousand million)
- NTU – Nephelometric turbidity units (for turbidity measurement)
- Pt/Co – Platinum-cobalt units Standard (for colour measurement)
- µS/cm – micro siemens per centimetre (for conductivity measurement)

Concentration or value

Shown in three ways:

- **Min**(imum), the lowest result during the period
- **Mean**, the average of the results
- **Max**(imum), the highest result during the period.
- A '<' symbol means a result was less than the value at which a parameter can be detected.
- A '>' symbol means a result was greater than the range within which a parameter is normally detected.

Number of samples

- Total taken – the number of samples tested for each parameter
- Contravening – shows the number of samples that exceeded the PCV
- % of samples contravening PCV – the number of samples that contravened the PCV compared to the total number of samples taken expressed as a percentage.

INDIVIDUAL PARAMETERS/SUBSTANCES

Hardness

Total Hardness is normally caused by dissolved calcium and, to a lesser extent, magnesium in rocks through which the water has passed. In Northern Ireland, our water is predominantly soft to moderately soft, or slightly to moderately hard. Hardness means you may have to use more soap when washing as hard water lathers less than soft water. It has not been proven to have adverse effects on health and is safe to drink. There is no standard specified in the current regulations.

Dependent upon the origin and manufacturer of your dishwasher, you may require a specific parameter, such as Clarke degrees (a.k.a. English degrees) or French or German degrees.

GH is general hardness, while KH is Carbonate, or temporary hardness.

The NIEA has some helpful information regarding Water Hardness in Northern Ireland on their Website.

http://www.doeni.gov.uk/niea/water-home/drinking_water/consumer/water_hardness.htm

pH (listed under 'Hydrogen Ion')

This is a scientific term used to describe the acidity or alkalinity of a fluid. We need to control the pH of water because:

- if water is too acidic, it may corrode metal pipes in the distribution system
- if water is too alkaline, it may cause deposits to form in the pipes

The standard is to keep water pH levels in the 6.5-9.5 range.

Colour

The colour of drinking water is usually dependent on the presence of naturally-occurring dissolved organic matter. For example, the higher the peat content of a catchment, (e.g. the Mournes Catchment), the higher the level of colour in the raw

water. However, colour may also be due to the presence of iron contributed by old cast-iron mains.

- PCV for colour is 20 mg/l Pt/Co.

Sometimes, the water coming out of the tap has a milky or cloudy appearance, which is usually caused by excess air dissolved in the water as micro bubbles. This is not harmful and, if the water is left to stand for a few minutes, it will clear from the bottom upwards (i.e. the bubbles of air rise to the top of the glass and escape).

Turbidity

Turbidity is caused by very fine insoluble materials that may be present in water. Levels are closely monitored during the treatment processes.

- PCV at the customer's tap is 4 NTU

Odour and taste

Customer complaints quite often relate to taste and odour. Quality control tests are carried out to measure the level of taste and odour and are performed by a specialist testing panel.

- PCV for each = Dilution Number >0

Conductivity

Conductivity is proportional to the dissolved solids content of the water and is often used as an indication of the presence of dissolved minerals, such as calcium, magnesium and sodium.

- PCV is 2500 µS/cm at 20°C

Chlorine (Cl - listed under Free-Residual disinfectant)

Chlorine is added to water to ensure water is free from bacteria. When chlorine is added, not all of it is used up in the process. Some remains as 'free chlorine' to make sure the water remains safe as it passes through the distribution system.

No PCV is prescribed for chlorine in the regulations and these levels are set to ensure that a small concentration remains at the end of the distribution system to maintain customer safety.

***E. coli* and enterococci**

If present, these indicate a possible breach in the integrity of the water supply system. An effective treatment process will kill any organisms present.

PCV standards are:

- 0 /100ml for *E. Coli*
- 0 /100ml for Enterococci

Coliforms

These are naturally present in the environment. Their presence may indicate a possible breach in the integrity of the supply system or contamination from the kitchen sink or taps.

Nitrite and nitrate (NO_2 and NO_3)

Normally only trace amounts of these compounds are found in water.

- PCV for nitrite = 0.5 mg NO_2/l
- PCV for nitrate = 50 mg NO_3/l

Chloride (Cl)

Chloride in water originates from natural sources such as mineral deposits. It can contribute to taste which may be unacceptable to customers if the standard is exceeded.

- PCV = 250 mg Cl/l

Fluoride (F)

NI Water does not add fluoride to any water supply in Northern Ireland. Fluoride can occur naturally in some raw water supplies at low levels.

- PCV = 1.5 mg F/l

Sulphate (SO_4)

Sulphate occurs naturally in water and originates from mineral deposits. High concentrations may give rise to taste problems and, in the long-term, damage pipe work.

- PCV = 250 mg SO_4/l

Copper (Cu)

Copper can occur naturally in some water sources and is normally found in low concentrations in drinking water.

- PCV = 2 mg Cu/l

Iron (Fe)

This is one of the most abundant metals found naturally in surface and ground waters. After treatment, it is normally reduced to trace concentrations in drinking water. Increased levels can occur due to the corrosion of old cast-iron water mains. There is no known health risk associated with high iron concentrations, but staining of clothing in washing machines can occur.

- PCV = 200 µg Fe/l

Manganese (Mn)

Manganese occurs naturally in water. High concentrations of manganese in tap water may cause discolouration and possible staining of clothing in washing machines.

- PCV = 50 µg Mn/l

Aluminium (Al)

Aluminium can occur naturally in water within certain catchments. However, aluminium compounds are used in the treatment process to help remove impurities. Any aluminium compounds added during the treatment process are removed before the final treated water leaves the treatment works.

- PCV = 200 µg Al/l

Sodium (Na)

Sodium occurs naturally in trace amounts in water. High concentrations may impart a level of taste that is unacceptable to customers.

- PCV = 200 mg Na/l

Lead (Pb)

Lead is not normally present in water sources, but significant concentrations may be present at customers' taps if lead or copper pipes with lead joints have been used in the plumbing system. More information is available here.

- PCV = 10 µg Pb/l

Trihalomethanes (THMs)

THMs occur in drinking water as by-products of the reaction of chlorine with naturally-occurring dissolved organic materials. In drinking water, only four compounds out of the group of THMs have health significance, the most common of which is chloroform. The PCV is based on the sum of the concentrations of all four constituents.

- PCV = 100 µg/l

Other substances

In addition to those listed and explained above, we also test for substances such as hydrocarbons, pesticides and herbicides, phenols and organic carbon. We also carry out extensive monitoring of our supplies for cryptosporidium through sampling of raw and final treated water.

Home-brewers may be interested in the Calcium, Magnesium, Carbonate, Sodium, Sulphate, Chloride and pH levels of their water supply. If you cannot locate the information you require at http://www.niwater.com/water-quality-results please contact us at waterline@niwater.com

2014 WATER SUPPLY COMMENTARY

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 except for the following parameter(s): -

Aluminium and Turbidity – single sample exceedence

A single sample failed for aluminium and turbidity. Investigations found that this exceedences was most likely caused by a disturbance of mains deposits caused by persons unknown filling a tanker. All resamples were satisfactory.

Total coliforms – two exceedences and *E. Coli* – single exceedence

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

WATER SUPPLY ZONE - ZN0101 - Ballinrees Coleraine

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter	U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples) Min.	Mean	Max.
1,2 Dichloroethane	ug/l	S	8	8	0	0.000	< 0.100	< 0.100	< 0.100
2,4-D	ug/l	AS	8	8	0	0.000	< 0.004	< 0.008	0.013
2,4-DB	ug/l	AS	8	8	0	0.000	< 0.003	< 0.003	< 0.003
Aldrin	ug/l	AS	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Aluminium	ug Al/l	S	76	77	1	1.299	12.820	35.744	205.000
Ammonium	mg NH4/l	S	76	76	0	0.000	0.005	0.010	0.019
Antimony	ug/l Sb	S	8	8	0	0.000	< 0.010	< 0.066	0.105
Arsenic	ug/l As	S	8	8	0	0.000	0.270	0.310	0.423
Bentazone	ug/l	AS	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Benzene	ug/l	S	8	8	0	0.000	< 0.020	< 0.020	< 0.020
Benzo(a)pyrene	ug/l	S	8	8	0	0.000	< 0.001	< 0.001	< 0.001
Boron	mg/l B	S	8	8	0	0.000	0.002	0.010	0.019
Bromate	ug/l	S	8	8	0	0.000	< 0.300	< 0.361	0.680
Bromoxynil	ug/l	AS	8	8	0	0.000	< 0.007	< 0.007	< 0.007
Cadmium	ug/l Cd	S	8	8	0	0.000	0.007	0.030	0.169
Chloride	mg Cl/l	S	8	8	0	0.000	20.500	22.812	25.851
Chlorothalonil	ug/l	AS	8	8	0	0.000	< 0.010	< 0.010	0.012
Chlorotoluron	ug/l	AS	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Chlorpyrifos	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004
Chromium	ug/l Cr	S	8	8	0	0.000	0.218	0.412	0.567
Clopyralid	ug/l	AS	8	8	0	0.000	< 0.006	< 0.006	< 0.006
Clostridium perfringens (sulph red)	No./100 ml	AS	104	104	1	0.962	0.000	0.019	2.000
Colony Counts 22	No./1 ml	S	76	77	0	0.000	0.000	0.000	0.000
Colony Counts 37 (48hrs)	No./1 ml	S	76	77	0	0.000	0.000	0.000	0.000
Colour	mg/l Pt/Co	S	76	76	0	0.000	0.630	1.406	3.320
Copper	mg Cu/l	S	8	8	0	0.000	< 0.001	< 0.020	0.135
Cyanide	ug/l	AS	8	8	0	0.000	< 0.500	< 0.563	< 1.000
Dicamba	ug/l	AS	8	8	0	0.000	< 0.001	< 0.011	< 0.012
Dichlobenil	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004
Dichlorprop	ug/l	AS	8	8	0	0.000	< 0.003	< 0.006	< 0.030
Dieldrin	ug/l	AS	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Diuron	ug/l	AS	8	8	0	0.000	< 0.003	< 0.003	< 0.003
E. coli	No./100 ml	S	228	228	1	0.439	0.000	0.009	2.000
Enterococci	No./100ml	S	8	8	0	0.000	0.000	0.000	0.000
Epoxiconazole	ug/l	AS	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Fenpropimorph	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004
Fluoride	mg F/l	S	8	8	0	0.000	< 0.024	< 0.059	0.100
Fluroxypyr	ug/l	AS	8	8	0	0.000	< 0.005	< 0.009	0.012
Free - Residual disinfectant	mg Cl/l	S	228	228	0	0.000	0.030	0.188	0.950
Glyphosate	ug/l	AS	8	8	0	0.000	< 0.003	< 0.003	< 0.003
Heptachlor	ug/l	AS	8	8	0	0.000	< 0.005	< 0.005	< 0.005
Heptachlor epoxide	ug/l	AS	8	8	0	0.000	< 0.002	< 0.002	< 0.005
Hexachlorobenzene	ug/l	AS	8	8	0	0.000	< 0.006	< 0.006	< 0.006
Hydrogen Ion	pH value	S	76	76	0	0.000	6.980	7.662	8.190
Iron	ug Fe/l	S	76	76	0	0.000	1.527	25.509	182.400
Isoproturon	ug/l	AS	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Lead	ug Pb/l	S	8	8	0	0.000	< 0.100	< 0.314	0.995
Linuron	ug/l	AS	8	8	0	0.000	< 0.006	< 0.006	< 0.006
MCPA	ug/l	AS	8	8	0	0.000	0.013	0.032	0.051
Manganese	ug Mn/l	S	76	76	0	0.000	< 0.100	< 2.500	16.860
Mecoprop	ug/l	AS	8	8	0	0.000	0.010	0.012	0.015
Mercury	ug/l Hg	S	8	8	0	0.000	0.005	< 0.009	< 0.010
Metalaxyl	ug/l	AS	8	8	0	0.000	< 0.005	< 0.005	< 0.005
Metoxuron	ug/l	AS	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Metribuzin	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004
Nickel	ug Ni/l	S	8	8	0	0.000	< 0.100	< 2.035	5.395
Nitrate	mg NO3/l	S	8	8	0	0.000	0.307	1.189	2.472
Nitrite	mg NO2/l	S	8	8	0	0.000	0.005	0.015	0.025
Odour	Diln No	S	76	76	0	0.000	0.000	0.000	0.000
PAH - Sum of four substances	ug/l	S	8	8	0	0.000	< 0.010	< 0.010	< 0.010
Pendimethalin	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004
Pesticides - Total Substances	ug/l	AS	8	8	0	0.000	< 0.050	< 0.071	0.094
Phorate	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004

WATER SUPPLY ZONE - ZN0101 - Ballinrees Coleraine

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter		U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples) Min.	Mean	Max.
Pirimicarb	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Propachlor	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Propiconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Propyzamide	ug/l	AS	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Prothioconazole	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
Selenium	ug/l Se	S	8	8		0	0.000	< 0.200	< 0.241	0.441
Sodium	mg Na/l	S	8	8		0	0.000	12.973	15.029	17.800
Sulphate	mg SO4/l	S	8	8		0	0.000	37.097	61.513	78.500
Taste	Diln No	S	76	76		0	0.000	0.000	0.000	0.000
Tebuconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Tetrachloroethene/Trichloroethene - S	ug/l	S	8	8		0	0.000	< 0.200	< 0.217	< 0.338
Tetrachloromethane	ug/l	S	8	8		0	0.000	< 0.100	< 0.100	< 0.100
Total - Residual disinfectant	mg Cl/l	S	228	228		0	0.000	0.050	0.290	1.360
Total Indicative Dose	mSv/year	AS	2	1		0	0.000	< 0.100	< 0.100	< 0.100
Total Trihalomethanes	ug/l	S	8	8		0	0.000	37.346	60.756	77.500
Total coliforms	No./100 ml	S	228	228		2	0.877	0.000	> 0.636	>100.000
Triclopyr	ug/l	AS	8	8		0	0.000	< 0.004	< 0.010	0.016
Trifluralin	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Tritium	Bq/l	AS	2	1		0	0.000	< 0.500	< 0.500	< 0.500
Turbidity	NTU	S	76	77		1	1.299	0.090	0.364	6.510

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 90971

This zone has a surface water source :R1701

PCV Exceedances:
Sample failed 16-JUL-2014 (ZN0101AE) Aluminium = 205 ug Al/.
Sample failed 24-APR-2014 (W1701POUT) Clostridium perfringens (sulph red) = 2 No./100.
Sample failed 23-JAN-2014 (ZN0101AE) E. coli = 2 No./100.
Sample failed 23-JAN-2014 (ZN0101AE) Total coliforms = >100 No./1.
Sample failed 18-DEC-2014 (ZN0101AE) Total coliforms = 45 No./100.
Sample failed 16-JUL-2014 (ZN0101AE) Turbidity = 6.5 NTU.

Notes:
PCV = Prescribed Concentration or Value
U = Undertaking
S = Standard Sampling Frequency
R = Reduced Sampling Frequency
A = Authorised Supply Point

2014 WATER SUPPLY COMMENTARY

ZN0202 - Altnahinch Bushmills

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 except for the following parameter(s): -

Iron – single exceedence

Investigations found that this exceedence was 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.

WATER SUPPLY ZONE - ZN0202 - Altnahinch Bushmills

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter	U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples) Min.	Mean	Max.
1,2 Dichloroethane	ug/l	S	8	8		0	0.000	< 0.100	< 0.100	< 0.100
2,4-D	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
2,4-DB	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Aldrin	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Aluminium	ug Al/l	S	36	36		0	0.000	6.320	27.109	49.530
Ammonium	mg NH4/l	S	36	36		0	0.000	0.005	0.010	0.019
Antimony	ug/l Sb	S	8	8		0	0.000	< 0.010	< 0.055	0.111
Arsenic	ug/l As	S	8	8		0	0.000	0.256	< 0.295	< 0.300
Bentazone	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Benzene	ug/l	S	8	8		0	0.000	< 0.020	< 0.021	0.024
Benzo(a)pyrene	ug/l	S	8	8		0	0.000	< 0.001	< 0.001	< 0.001
Boron	mg/l B	S	8	8		0	0.000	< 0.001	< 0.007	0.016
Bromate	ug/l	S	8	8		0	0.000	1.500	2.363	3.100
Bromoxynil	ug/l	AS	8	8		0	0.000	< 0.007	< 0.007	< 0.007
Cadmium	ug/l Cd	S	8	8		0	0.000	0.007	0.011	0.022
Chloride	mg Cl/l	S	8	8		0	0.000	13.859	17.685	22.665
Chlorothalonil	ug/l	AS	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Chlorotoluron	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Chlorpyrifos	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Chromium	ug/l Cr	S	8	8		0	0.000	< 0.100	< 0.223	0.368
Clopyralid	ug/l	AS	8	8		1	12.500	< 0.006	< 0.006	< 0.006
Clostridium perfringens (sulph red)	No./100 ml	AS	36	36		0	0.000	0.000	0.000	0.000
Colony Counts 22	No./1 ml	S	36	36		0	0.000	0.000	1.167	42.000
Colony Counts 37 (48hrs)	No./1 ml	S	36	36		0	0.000	0.000	0.000	0.000
Colour	mg/l Pt/Co	S	36	36		0	0.000	0.510	1.162	2.040
Conductivity	uS/cm 20 C	AS	36	36		0	0.000	126.000	196.389	235.000
Copper	mg Cu/l	S	8	8		0	0.000	0.001	0.005	0.027
Cyanide	ug/l	AS	8	8		0	0.000	1.500	2.688	5.400
Dicamba	ug/l	AS	8	8		0	0.000	0.012	0.012	0.012
Dichlobenil	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Dichlorprop	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Dieldrin	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Diuron	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
E. coli	No./100 ml	S	84	84		0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	S	8	9		0	0.000	0.000	0.000	0.000
Epoxiconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Fenpropimorph	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Fluoride	mg F/l	S	8	8		0	0.000	< 0.024	< 0.053	0.100
Fluroxypyr	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	0.007
Free - Residual disinfectant	mg Cl/l	S	84	84		0	0.000	0.040	0.329	1.170
Glyphosate	ug/l	AS	8	8		0	0.000	< 0.003	< 0.006	0.027
Heptachlor	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	< 0.005
Heptachlor epoxide	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Hexachlorobenzene	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
Hydrogen Ion	pH value	S	36	36		0	0.000	6.660	7.384	7.950
Iron	ug Fe/l	S	36	36		1	2.778	< 2.000	< 63.136	575.900
Isoproturon	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Lead	ug Pb/l	S	8	8		0	0.000	0.061	0.180	0.308
Linuron	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
MCPA	ug/l	AS	8	8		0	0.000	< 0.004	< 0.005	0.009
Manganese	ug Mn/l	S	36	36		0	0.000	< 0.100	< 2.344	13.600
Mecoprop	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Mercury	ug/l Hg	S	8	8		0	0.000	0.005	< 0.009	< 0.010
Metalaxyl	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	< 0.005
Metoxuron	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Metribuzin	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Nickel	ug Ni/l	S	8	8		0	0.000	0.900	1.425	2.103
Nitrate	mg NO3/l	S	8	8		0	0.000	0.518	0.786	1.080
Nitrite	mg NO2/l	S	8	8		0	0.000	0.008	0.011	0.017
Odour	Diln No	S	36	36		0	0.000	0.000	0.000	0.000
PAH - Sum of four substances	ug/l	S	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Pendimethalin	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Pesticides - Total Substances	ug/l	AS	8	8		0	0.000	< 0.050	< 0.064	0.159

WATER SUPPLY ZONE - ZN0202 - Altnahinch Bushmills

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter		U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contravening PCV	% of samples contravening PCV	Concentration or value (all samples) Min.	Mean	Max.
Phorate	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Pirimicarb	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Propachlor	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Propiconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Propyzamide	ug/l	AS	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Prothioconazole	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
Selenium	ug/l Se	S	8	8		0	0.000	< 0.200	< 0.229	0.434
Sodium	mg Na/l	S	8	8		0	0.000	9.659	11.672	16.500
Sulphate	mg SO4/l	S	8	8		0	0.000	37.488	58.700	80.700
Taste	Diln No	S	36	36		0	0.000	0.000	0.000	0.000
Tebuconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Tetrachloroethene/Trichloroethene - S	ug/l	S	8	8		0	0.000	< 0.200	< 0.209	0.272
Tetrachloromethane	ug/l	S	8	8		0	0.000	< 0.100	< 0.100	< 0.100
Total - Residual disinfectant	mg Cl/l	S	84	84		0	0.000	0.080	0.438	1.280
Total Indicative Dose	mSv/year	AS	1	2		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	AS	8	8		0	0.000	1.240	1.996	2.690
Total Trihalomethanes	ug/l	S	8	8		0	0.000	33.589	59.132	84.450
Total coliforms	No./100 ml	S	84	84		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	0.008
Trifluralin	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Tritium	Bq/l	AS	1	2		0	0.000	< 5.000	< 5.000	< 5.000
Turbidity	NTU	S	36	36		0	0.000	0.080	0.288	1.870

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 31022

This zone has a surface water source :R1702

PCV Exceedances:
Sample failed 30-APR-2014 (W1702OUT) Clopyralid = 0.1500 ug/.
Sample failed 21-JAN-2014 (ZN0202AE) Iron = 576 ug Fe/.

Notes:
PCV = Prescribed Concentration or Value
U = Undertaking
S = Standard Sampling Frequency
R = Reduced Sampling Frequency
A = Authorised Supply Point

2014 WATER SUPPLY COMMENTARY

ZN0204 - Rathlin Island

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

WATER SUPPLY ZONE - ZN0204 - Rathlin Island

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter	U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples) Min.	Mean	Max.
1,2 Dichloroethane	ug/l	S	4	3	0	0.000	< 0.100	< 0.100	< 0.100
2,4-D	ug/l	AS	4	4	0	0.000	< 0.004	< 0.004	< 0.004
2,4-DB	ug/l	AS	4	4	0	0.000	< 0.003	< 0.003	< 0.003
Aldrin	ug/l	AS	4	4	0	0.000	< 0.002	< 0.002	< 0.002
Aluminium	ug Al/l	S	4	4	0	0.000	4.066	12.267	28.380
Ammonium	mg NH4/l	S	4	4	0	0.000	0.005	< 0.009	< 0.010
Antimony	ug/l Sb	S	4	4	0	0.000	0.007	0.038	0.123
Arsenic	ug/l As	S	4	4	0	0.000	0.283	0.339	0.471
Bentazone	ug/l	AS	4	4	0	0.000	< 0.002	< 0.004	0.009
Benzene	ug/l	S	4	3	0	0.000	< 0.020	< 0.020	< 0.020
Benzo(a)pyrene	ug/l	S	4	4	0	0.000	< 0.001	< 0.001	0.002
Boron	mg/l B	S	4	4	0	0.000	< 0.001	< 0.033	0.047
Bromate	ug/l	S	4	4	0	0.000	< 0.300	< 0.825	2.400
Bromoxynil	ug/l	AS	4	4	0	0.000	< 0.007	< 0.007	< 0.007
Cadmium	ug/l Cd	S	4	4	0	0.000	0.005	< 0.009	< 0.010
Chloride	mg Cl/l	S	4	4	0	0.000	17.671	44.251	70.100
Chlorothalonil	ug/l	AS	4	4	0	0.000	< 0.010	< 0.010	< 0.010
Chlorotoluron	ug/l	AS	4	4	0	0.000	< 0.002	< 0.002	< 0.002
Chlorpyrifos	ug/l	AS	4	4	0	0.000	< 0.004	< 0.004	< 0.004
Chromium	ug/l Cr	S	4	4	0	0.000	< 0.100	< 0.210	0.317
Clopyralid	ug/l	AS	4	4	0	0.000	< 0.006	< 0.015	0.044
Clostridium perfringens (sulph red)	No./100 ml	AS	4	4	0	0.000	0.000	0.000	0.000
Colony Counts 22	No./1 ml	S	4	4	0	0.000	0.000	27.250	109.000
Colony Counts 37 (48hrs)	No./1 ml	S	4	4	0	0.000	0.000	0.000	0.000
Colour	mg/l Pt/Co	S	4	4	0	0.000	0.730	1.155	2.210
Conductivity	uS/cm 20 C	AS	4	4	0	0.000	178.000	400.000	479.000
Copper	mg Cu/l	S	4	4	0	0.000	0.002	0.060	0.223
Cyanide	ug/l	AS	4	4	0	0.000	< 0.300	< 0.645	0.950
Dicamba	ug/l	AS	4	4	0	0.000	< 0.012	< 0.012	< 0.012
Dichlobenil	ug/l	AS	4	4	0	0.000	< 0.004	< 0.004	< 0.004
Dichlorprop	ug/l	AS	4	4	0	0.000	< 0.003	< 0.003	< 0.003
Dieldrin	ug/l	AS	4	4	0	0.000	< 0.002	< 0.002	< 0.002
Diuron	ug/l	AS	4	4	0	0.000	< 0.003	< 0.003	< 0.003
E. coli	No./100 ml	S	12	12	0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	S	4	4	0	0.000	0.000	0.000	0.000
Epoxiconazole	ug/l	AS	4	4	0	0.000	< 0.002	< 0.002	< 0.002
Fenpropimorph	ug/l	AS	4	4	0	0.000	< 0.004	< 0.004	< 0.004
Fluoride	mg F/l	S	4	4	0	0.000	< 0.024	< 0.063	< 0.100
Fluroxypyr	ug/l	AS	4	4	0	0.000	< 0.005	< 0.005	< 0.005
Free - Residual disinfectant	mg Cl/l	S	12	12	0	0.000	0.110	0.296	0.500
Glyphosate	ug/l	AS	4	4	0	0.000	< 0.003	< 0.003	< 0.003
Heptachlor	ug/l	AS	4	4	0	0.000	< 0.005	< 0.005	< 0.005
Heptachlor epoxide	ug/l	AS	4	4	0	0.000	< 0.002	< 0.002	< 0.002
Hexachlorobenzene	ug/l	AS	4	4	0	0.000	< 0.006	< 0.006	< 0.006
Hydrogen Ion	pH value	S	4	4	0	0.000	7.670	8.468	8.780
Iron	ug Fe/l	S	4	4	0	0.000	< 2.000	< 34.050	130.200
Isoproturon	ug/l	AS	4	4	0	0.000	< 0.002	< 0.002	< 0.002
Lead	ug Pb/l	S	4	4	0	0.000	0.120	1.005	2.633
Linuron	ug/l	AS	4	4	0	0.000	< 0.006	< 0.006	< 0.006
MCPA	ug/l	AS	4	4	0	0.000	< 0.004	< 0.004	< 0.004
Manganese	ug Mn/l	S	4	4	0	0.000	0.178	0.456	0.807
Mecoprop	ug/l	AS	4	4	0	0.000	< 0.003	< 0.005	0.009
Mercury	ug/l Hg	S	4	4	0	0.000	0.005	< 0.007	< 0.010
Metalaxyl	ug/l	AS	4	4	0	0.000	< 0.005	< 0.005	< 0.005
Metoxuron	ug/l	AS	4	4	0	0.000	< 0.002	< 0.002	< 0.002
Metribuzin	ug/l	AS	4	4	0	0.000	< 0.004	< 0.004	< 0.004
Nickel	ug Ni/l	S	4	4	0	0.000	< 0.100	< 1.098	2.634
Nitrate	mg NO3/l	S	4	4	0	0.000	0.542	0.905	1.077
Nitrite	mg NO2/l	S	4	4	0	0.000	< 0.010	< 0.014	0.025
Odour	Diln No	S	4	4	0	0.000	0.000	0.000	0.000
PAH - Sum of four substances	ug/l	S	4	4	0	0.000	< 0.010	< 0.010	< 0.010
Pendimethalin	ug/l	AS	4	4	0	0.000	< 0.004	< 0.004	< 0.004
Pesticides - Total Substances	ug/l	AS	4	4	0	0.000	< 0.050	< 0.051	0.053

WATER SUPPLY ZONE - ZN0204 - Rathlin Island

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter		U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples) Min.	Mean	Max.
Phorate	ug/l	AS	4	4		0	0.000	< 0.004	< 0.004	< 0.004
Pirimicarb	ug/l	AS	4	4		0	0.000	< 0.003	< 0.003	< 0.003
Propachlor	ug/l	AS	4	4		0	0.000	< 0.004	< 0.004	< 0.004
Propiconazole	ug/l	AS	4	4		0	0.000	< 0.002	< 0.002	< 0.002
Propyzamide	ug/l	AS	4	4		0	0.000	< 0.010	< 0.010	< 0.010
Prothioconazole	ug/l	AS	4	4		0	0.000	< 0.006	< 0.006	< 0.006
Selenium	ug/l Se	S	4	4		0	0.000	< 0.200	< 0.707	1.311
Sodium	mg Na/l	S	4	4		0	0.000	10.693	80.990	107.265
Sulphate	mg SO4/l	S	4	4		0	0.000	14.500	30.483	48.985
Taste	Diln No	S	4	4		0	0.000	0.000	0.000	0.000
Tebuconazole	ug/l	AS	4	4		0	0.000	< 0.002	< 0.002	< 0.002
Tetrachloroethene/Trichloroethene - S	ug/l	S	4	3		0	0.000	< 0.200	< 0.200	< 0.200
Tetrachloromethane	ug/l	S	4	3		0	0.000	< 0.100	< 0.100	< 0.100
Total - Residual disinfectant	mg Cl/l	S	12	12		0	0.000	0.200	0.373	0.520
Total Indicative Dose	mSv/year	AS	1	1		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	AS	4	4		0	0.000	1.030	1.263	1.580
Total Trihalomethanes	ug/l	S	4	3		0	0.000	18.350	52.395	70.500
Total coliforms	No./100 ml	S	12	12		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	4	4		0	0.000	< 0.004	< 0.004	< 0.004
Trifluralin	ug/l	AS	4	4		0	0.000	< 0.003	< 0.003	< 0.003
Tritium	Bq/l	AS	1	1		0	0.000	< 5.000	< 5.000	< 5.000
Turbidity	NTU	S	4	4		0	0.000	0.110	0.180	0.210

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 294

This zone has a surface water source :R1706

PCV Exceedances:
Water Quality was satisfactory

Notes:
PCV = Prescribed Concentration or Value
U = Undertaking
S = Standard Sampling Frequency
R = Reduced Sampling Frequency
A = Authorised Supply Point

2014 WATER SUPPLY COMMENTARY

ZN0302 - Dungonnell Glarryford

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 except for the following parameter(s): -

Pesticides – Monitored at Authorised Supply point

NI Water analyses for 38 individual pesticides, herbicides and algaecides, with a single exceedence of the individual standard detected for Clopyralid. The cause of this exceedence was not determined, however the Water Treatment Works Catchment Management Plan will be researched and developed during the PC15 price control period.

WATER SUPPLY ZONE - ZN0302 - Dungonnell Glarryford

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter	U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples) Min.	Mean	Max.
1,2 Dichloroethane	ug/l	S	8	8		0	0.000	< 0.100	< 0.100	< 0.100
2,4-D	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	0.007
2,4-DB	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Aldrin	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Aluminium	ug Al/l	S	36	36		0	0.000	4.211	17.464	50.950
Ammonium	mg NH4/l	S	36	36		0	0.000	0.005	0.010	0.035
Antimony	ug/l Sb	S	8	8		0	0.000	< 0.010	< 0.065	0.160
Arsenic	ug/l As	S	8	8		0	0.000	0.294	0.314	0.408
Bentazone	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Benzene	ug/l	S	8	8		0	0.000	0.018	0.020	0.021
Benzo(a)pyrene	ug/l	S	8	8		0	0.000	< 0.001	< 0.001	< 0.001
Boron	mg/l B	S	8	8		0	0.000	< 0.001	< 0.007	0.014
Bromate	ug/l	S	8	8		0	0.000	0.570	2.571	4.900
Bromoxynil	ug/l	AS	8	8		0	0.000	< 0.007	< 0.007	< 0.007
Cadmium	ug/l Cd	S	8	8		0	0.000	0.005	0.025	0.141
Chloride	mg Cl/l	S	8	8		0	0.000	9.500	13.784	26.885
Chlorothalonil	ug/l	AS	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Chlorotoluron	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Chlorpyrifos	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Chromium	ug/l Cr	S	8	8		0	0.000	< 0.100	< 0.212	0.384
Clopyralid	ug/l	AS	8	9		1	11.111	< 0.006	< 0.035	0.220
Clostridium perfringens (sulph red)	No./100 ml	AS	36	37		0	0.000	0.000	0.000	0.000
Colony Counts 22	No./1 ml	S	36	36		0	0.000	0.000	0.056	1.000
Colony Counts 37 (48hrs)	No./1 ml	S	36	36		0	0.000	0.000	0.167	5.000
Colour	mg/l Pt/Co	S	36	36		0	0.000	0.560	< 1.060	< 2.000
Conductivity	uS/cm 20 C	AS	36	36		0	0.000	103.000	146.833	185.000
Copper	mg Cu/l	S	8	8		0	0.000	0.002	0.018	0.071
Cyanide	ug/l	AS	8	8		0	0.000	1.100	2.063	3.200
Dicamba	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Dichlobenil	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Dichlorprop	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Dieldrin	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Diuron	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
E. coli	No./100 ml	S	84	84		0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	S	8	8		0	0.000	0.000	0.000	0.000
Epoxiconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Fenpropimorph	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Fluoride	mg F/l	S	8	8		0	0.000	< 0.024	< 0.063	< 0.100
Fluroxypyr	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	0.007
Free - Residual disinfectant	mg Cl/l	S	84	84		0	0.000	< 0.020	< 0.497	1.060
Glyphosate	ug/l	AS	8	8		0	0.000	< 0.003	< 0.004	0.008
Heptachlor	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	< 0.005
Heptachlor epoxide	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Hexachlorobenzene	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
Hydrogen Ion	pH value	S	36	36		0	0.000	6.510	7.287	8.390
Iron	ug Fe/l	S	36	36		1	2.778	1.600	29.312	247.000
Isoproturon	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	0.002
Lead	ug Pb/l	S	8	8		0	0.000	0.092	0.282	0.730
Linuron	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
MCPA	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	0.005
Manganese	ug Mn/l	S	36	36		0	0.000	0.059	1.195	7.810
Mecoprop	ug/l	AS	8	8		0	0.000	< 0.003	< 0.004	0.010
Mercury	ug/l Hg	S	8	8		0	0.000	0.005	< 0.008	< 0.010
Metalaxyl	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	< 0.005
Metoxuron	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Metribuzin	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Nickel	ug Ni/l	S	8	8		0	0.000	0.557	2.067	8.250
Nitrate	mg NO3/l	S	8	8		0	0.000	0.101	< 0.611	< 1.000
Nitrite	mg NO2/l	S	8	8		0	0.000	0.007	0.010	0.014
Odour	Diln No	S	36	36		0	0.000	0.000	0.000	0.000
PAH - Sum of four substances	ug/l	S	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Pendimethalin	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Pesticides - Total Substances	ug/l	AS	8	8		0	0.000	< 0.050	< 0.072	0.222

WATER SUPPLY ZONE - ZN0302 - Dungonnell Glarryford

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter		U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples) Min.	Mean	Max.
Phorate	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Pirimicarb	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Propachlor	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Propiconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Propyzamide	ug/l	AS	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Prothioconazole	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
Selenium	ug/l Se	S	8	8		0	0.000	< 0.200	< 0.298	0.803
Sodium	mg Na/l	S	8	8		0	0.000	6.998	9.661	16.117
Sulphate	mg SO4/l	S	8	8		0	0.000	25.680	44.197	72.150
Taste	Diln No	S	36	36		0	0.000	0.000	0.000	0.000
Tebuconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Tetrachloroethene/Trichloroethene - S	ug/l	S	8	8		0	0.000	< 0.200	< 0.219	< 0.348
Tetrachloromethane	ug/l	S	8	8		0	0.000	< 0.100	< 0.100	< 0.100
Total - Residual disinfectant	mg Cl/l	S	84	84		0	0.000	0.030	0.577	1.100
Total Indicative Dose	mSv/year	AS	1	1		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	AS	8	8		0	0.000	0.987	1.653	2.350
Total Trihalomethanes	ug/l	S	8	8		0	0.000	24.308	49.462	85.400
Total coliforms	No./100 ml	S	84	84		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	0.005
Trifluralin	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Tritium	Bq/l	AS	1	1		0	0.000	< 5.000	< 5.000	< 5.000
Turbidity	NTU	S	36	36		0	0.000	0.050	0.200	0.490

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 26313

This zone has a surface water source :R1303

PCV Exceedances:
Sample failed 08-DEC-2014 (W1303OUT) Clopyralid = 0.2200 ug/.
Sample failed 19-MAY-2014 (ZN0302AE) Iron = 247 ug Fe/.

Notes:
PCV = Prescribed Concentration or Value
U = Undertaking
S = Standard Sampling Frequency
R = Reduced Sampling Frequency
A = Authorised Supply Point

2014 WATER SUPPLY COMMENTARY

ZN0501 - Moyola Magherafelt

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

WATER SUPPLY ZONE - ZN0501 - Moyola Magherafelt

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter	U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples) Min.	Mean	Max.
1,2 Dichloroethane	ug/l	S	8	8		0	0.000	< 0.100	< 0.100	< 0.100
2,4-D	ug/l	AS	8	8		0	0.000	0.004	0.011	0.015
2,4-DB	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Aldrin	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Aluminium	ug Al/l	S	36	36		0	0.000	10.480	26.420	40.330
Ammonium	mg NH4/l	S	36	36		0	0.000	0.005	0.010	0.016
Antimony	ug/l Sb	S	8	8		0	0.000	< 0.010	< 0.092	0.158
Arsenic	ug/l As	S	8	8		0	0.000	0.269	0.393	0.723
Bentazone	ug/l	AS	8	8		0	0.000	< 0.002	< 0.003	0.010
Benzene	ug/l	S	8	8		0	0.000	< 0.020	< 0.020	< 0.020
Benzo(a)pyrene	ug/l	S	8	8		0	0.000	< 0.001	< 0.001	< 0.001
Boron	mg/l B	S	8	8		0	0.000	< 0.003	< 0.014	0.022
Bromate	ug/l	S	8	8		0	0.000	< 0.300	< 0.300	< 0.300
Bromoxynil	ug/l	AS	8	8		0	0.000	< 0.007	< 0.007	< 0.007
Cadmium	ug/l Cd	S	8	8		0	0.000	0.009	0.029	0.156
Chloride	mg Cl/l	S	8	8		0	0.000	21.200	22.477	23.920
Chlorothalonil	ug/l	AS	8	8		0	0.000	< 0.010	< 0.010	0.011
Chlorotoluron	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	0.006
Chlorpyrifos	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Chromium	ug/l Cr	S	8	8		0	0.000	0.178	0.403	0.546
Clopyralid	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
Clostridium perfringens (sulph red)	No./100 ml	AS	52	52		0	0.000	0.000	0.000	0.000
Colony Counts 22	No./1 ml	S	36	36		0	0.000	0.000	3.694	70.000
Colony Counts 37 (48hrs)	No./1 ml	S	36	36		0	0.000	0.000	0.361	5.000
Colour	mg/l Pt/Co	S	36	36		0	0.000	0.860	1.448	2.700
Conductivity	uS/cm 20 C	S	36	36		0	0.000	309.000	360.611	400.000
Copper	mg Cu/l	S	8	8		0	0.000	< 0.001	< 0.011	0.030
Cyanide	ug/l	AS	8	8		0	0.000	< 0.500	< 0.600	< 1.000
Dicamba	ug/l	AS	8	8		0	0.000	< 0.001	< 0.011	< 0.012
Dichlobenil	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Dichlorprop	ug/l	AS	8	8		0	0.000	< 0.003	< 0.006	< 0.030
Dieldrin	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Diuron	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
E. coli	No./100 ml	S	108	108		0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	S	8	8		0	0.000	0.000	0.000	0.000
Epoxiconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Fenpropimorph	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Fluoride	mg F/l	S	8	8		0	0.000	< 0.024	< 0.049	0.100
Fluroxypyr	ug/l	AS	8	8		0	0.000	< 0.005	< 0.009	0.015
Free - Residual disinfectant	mg Cl/l	S	108	108		0	0.000	0.020	0.338	0.930
Glyphosate	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Heptachlor	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	< 0.005
Heptachlor epoxide	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.005
Hexachlorobenzene	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
Hydrogen Ion	pH value	S	36	36		0	0.000	7.470	7.762	8.270
Iron	ug Fe/l	S	36	36		0	0.000	1.867	8.676	37.600
Isoproturon	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Lead	ug Pb/l	S	8	8		0	0.000	0.076	0.266	1.097
Linuron	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
MCPA	ug/l	AS	8	8		0	0.000	0.022	0.032	0.047
Manganese	ug Mn/l	S	36	36		0	0.000	< 0.100	< 0.904	5.935
Mecoprop	ug/l	AS	8	8		0	0.000	0.010	0.015	0.020
Mercury	ug/l Hg	S	8	8		0	0.000	< 0.010	< 0.011	0.017
Metalaxyl	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	< 0.005
Metoxuron	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Metribuzin	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Nickel	ug Ni/l	S	8	8		0	0.000	< 0.100	< 1.457	2.827
Nitrate	mg NO3/l	S	8	8		0	0.000	0.184	2.142	5.573
Nitrite	mg NO2/l	S	8	8		0	0.000	0.010	0.015	0.023
Odour	Diln No	S	36	36		0	0.000	0.000	0.000	0.000
PAH - Sum of four substances	ug/l	S	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Pendimethalin	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Pesticides - Total Substances	ug/l	AS	8	8		0	0.000	0.063	0.080	0.101

WATER SUPPLY ZONE - ZN0501 - Moyola Magherafelt

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter	U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples) Min.	Mean	Max.
Phorate	ug/l AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Pirimicarb	ug/l AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Propachlor	ug/l AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Propiconazole	ug/l AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Propyzamide	ug/l AS	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Prothioconazole	ug/l AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
Selenium	ug/l Se S	8	8		0	0.000	0.189	0.436	1.071
Sodium	mg Na/l S	8	8		0	0.000	14.265	15.797	17.705
Sulphate	mg SO4/l S	8	8		0	0.000	65.935	73.269	81.704
Taste	Diln No S	36	36		0	0.000	0.000	0.000	0.000
Tebuconazole	ug/l AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Tetrachloroethene/Trichloroethene - S	ug/l S	8	8		0	0.000	< 0.200	< 0.217	< 0.338
Tetrachloromethane	ug/l S	8	8		0	0.000	< 0.100	< 0.100	< 0.100
Total - Residual disinfectant	mg Cl/l S	108	108		0	0.000	0.090	0.490	1.090
Total Indicative Dose	mSv/year AS	1	1		0	0.000	< 0.100	< 0.100	< 0.100
Total Trihalomethanes	ug/l S	8	8		0	0.000	41.650	60.609	76.800
Total coliforms	No./100 ml S	108	108		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l AS	8	8		0	0.000	0.007	0.012	0.016
Trifluralin	ug/l AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Tritium	Bq/l AS	1	1		0	0.000	< 0.500	< 0.500	< 0.500
Turbidity	NTU S	36	36		0	0.000	0.070	0.195	0.820

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 41613

This zone has a surface water source :R1301

PCV Exceedances:
Water Quality was satisfactory

Notes:
PCV = Prescribed Concentration or Value
U = Undertaking
S = Standard Sampling Frequency
R = Reduced Sampling Frequency
A = Authorised Supply Point

2014 WATER SUPPLY COMMENTARY

ZN0601 - Ballinrees Limavady

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 except for the following parameter(s): -

Aluminium, Iron, Manganese and Turbidity – single sample exceedence

A single sample failed for aluminium, iron, manganese and turbidity. Investigations found that these exceedences were most likely caused by a disturbance of mains deposits caused by persons unknown illegally filling a steamroller from a hydrant. All resamples were satisfactory.

WATER SUPPLY ZONE - ZN0601 - Ballinrees Limavady

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter	U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples) Min.	Mean	Max.
1,2 Dichloroethane	ug/l	S	8	8	0	0.000	< 0.100	< 0.100	< 0.100
2,4-D	ug/l	AS	8	8	0	0.000	< 0.004	< 0.008	0.013
2,4-DB	ug/l	AS	8	8	0	0.000	< 0.003	< 0.003	< 0.003
Aldrin	ug/l	AS	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Aluminium	ug Al/l	S	24	24	1	4.167	< 1.000	< 93.926	1497.00
Ammonium	mg NH4/l	S	24	24	0	0.000	0.005	0.010	0.017
Antimony	ug/l Sb	S	8	8	0	0.000	< 0.010	< 0.061	0.138
Arsenic	ug/l As	S	8	8	0	0.000	< 0.300	< 0.300	< 0.300
Bentazone	ug/l	AS	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Benzene	ug/l	S	8	8	0	0.000	< 0.020	< 0.020	0.023
Benzo(a)pyrene	ug/l	S	8	8	0	0.000	< 0.001	< 0.001	< 0.001
Boron	mg/l B	S	8	8	0	0.000	< 0.001	< 0.007	0.019
Bromate	ug/l	S	8	8	0	0.000	< 0.300	< 2.075	3.500
Bromoxynil	ug/l	AS	8	8	0	0.000	< 0.007	< 0.007	< 0.007
Cadmium	ug/l Cd	S	8	8	0	0.000	0.007	0.012	0.029
Chloride	mg Cl/l	S	8	8	0	0.000	19.600	22.378	26.350
Chlorothalonil	ug/l	AS	8	8	0	0.000	< 0.010	< 0.010	0.012
Chlorotoluron	ug/l	AS	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Chlorpyrifos	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004
Chromium	ug/l Cr	S	8	8	0	0.000	0.111	0.359	0.540
Clopyralid	ug/l	AS	8	8	0	0.000	< 0.006	< 0.006	< 0.006
Clostridium perfringens (sulph red)	No./100 ml	AS	104	104	1	0.962	0.000	0.019	2.000
Colony Counts 22	No./1 ml	S	24	24	0	0.000	0.000	0.000	0.000
Colony Counts 37 (48hrs)	No./1 ml	S	24	24	0	0.000	0.000	0.042	1.000
Colour	mg/l Pt/Co	S	24	24	0	0.000	0.570	< 1.295	< 2.000
Copper	mg Cu/l	S	8	8	0	0.000	< 0.001	< 0.004	0.013
Cyanide	ug/l	AS	8	8	0	0.000	< 0.500	< 0.563	< 1.000
Dicamba	ug/l	AS	8	8	0	0.000	< 0.001	< 0.011	< 0.012
Dichlobenil	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004
Dichlorprop	ug/l	AS	8	8	0	0.000	< 0.003	< 0.006	< 0.030
Dieldrin	ug/l	AS	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Diuron	ug/l	AS	8	8	0	0.000	< 0.003	< 0.003	< 0.003
E. coli	No./100 ml	S	60	60	0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	S	8	8	0	0.000	0.000	0.000	0.000
Epoxiconazole	ug/l	AS	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Fenpropimorph	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004
Fluoride	mg F/l	S	8	8	0	0.000	< 0.024	< 0.052	0.100
Fluroxypyr	ug/l	AS	8	8	0	0.000	< 0.005	< 0.009	0.012
Free - Residual disinfectant	mg Cl/l	S	60	60	0	0.000	0.060	0.319	0.740
Glyphosate	ug/l	AS	8	8	0	0.000	< 0.003	< 0.003	< 0.003
Heptachlor	ug/l	AS	8	8	0	0.000	< 0.005	< 0.005	< 0.005
Heptachlor epoxide	ug/l	AS	8	8	0	0.000	< 0.002	< 0.002	< 0.005
Hexachlorobenzene	ug/l	AS	8	8	0	0.000	< 0.006	< 0.006	< 0.006
Hydrogen Ion	pH value	S	24	24	0	0.000	7.200	7.648	8.030
Iron	ug Fe/l	S	24	24	1	4.167	< 2.000	<370.964	8213.00
Isoproturon	ug/l	AS	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Lead	ug Pb/l	S	8	8	0	0.000	0.089	0.730	3.000
Linuron	ug/l	AS	8	8	0	0.000	< 0.006	< 0.006	< 0.006
MCPA	ug/l	AS	8	8	0	0.000	0.013	0.032	0.051
Manganese	ug Mn/l	S	24	24	1	4.167	< 0.100	< 6.965	97.600
Mecoprop	ug/l	AS	8	8	0	0.000	0.010	0.012	0.015
Mercury	ug/l Hg	S	8	8	0	0.000	0.005	0.009	0.022
Metalaxyl	ug/l	AS	8	8	0	0.000	< 0.005	< 0.005	< 0.005
Metoxuron	ug/l	AS	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Metribuzin	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004
Nickel	ug Ni/l	S	8	8	0	0.000	< 0.100	< 1.731	4.881
Nitrate	mg NO3/l	S	8	8	0	0.000	0.193	1.042	2.395
Nitrite	mg NO2/l	S	8	8	0	0.000	0.009	0.027	0.115
Odour	Diln No	S	24	24	0	0.000	0.000	0.000	0.000
PAH - Sum of four substances	ug/l	S	8	8	0	0.000	< 0.010	< 0.010	< 0.010
Pendimethalin	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004
Pesticides - Total Substances	ug/l	AS	8	8	0	0.000	< 0.050	< 0.071	0.094
Phorate	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004

WATER SUPPLY ZONE - ZN0601 - Ballinrees Limavady

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter		U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contravening PCV	% of samples contravening PCV	Concentration or value (all samples) Min.	Mean	Max.
Pirimicarb	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Propachlor	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Propiconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Propyzamide	ug/l	AS	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Prothioconazole	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
Selenium	ug/l Se	S	8	8		0	0.000	< 0.200	< 0.243	0.543
Sodium	mg Na/l	S	8	8		0	0.000	11.557	13.841	15.250
Sulphate	mg SO4/l	S	8	8		0	0.000	44.577	60.744	73.935
Taste	Diln No	S	24	24		0	0.000	0.000	0.000	0.000
Tebuconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Tetrachloroethene/Trichloroethene - S	ug/l	S	8	8		0	0.000	< 0.200	< 0.215	< 0.318
Tetrachloromethane	ug/l	S	8	8		0	0.000	< 0.100	< 0.105	0.140
Total - Residual disinfectant	mg Cl/l	S	60	60		0	0.000	0.130	0.403	0.890
Total Indicative Dose	mSv/year	AS	2	1		0	0.000	< 0.100	< 0.100	< 0.100
Total Trihalomethanes	ug/l	S	8	8		0	0.000	32.627	62.602	78.200
Total coliforms	No./100 ml	S	60	60		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	8	8		0	0.000	< 0.004	< 0.010	0.016
Trifluralin	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Tritium	Bq/l	AS	2	1		0	0.000	< 0.500	< 0.500	< 0.500
Turbidity	NTU	S	24	24		1	4.167	0.100	0.761	12.650

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 19945

This zone has a surface water source :R1701

PCV Exceedances:
Sample failed 04-FEB-2014 (ZN0601AE) Aluminium = 1497 ug Al.
Sample failed 24-APR-2014 (W1701POUT) Clostridium perfringens (sulph red) = 2 No./100.
Sample failed 04-FEB-2014 (ZN0601AE) Iron = 8213 ug Fe.
Sample failed 04-FEB-2014 (ZN0601AE) Manganese = 97.6 ug Mn.
Sample failed 04-FEB-2014 (ZN0601AE) Turbidity = 12.7 NTU.

Notes:
PCV = Prescribed Concentration or Value
U = Undertaking
S = Standard Sampling Frequency
R = Reduced Sampling Frequency
A = Authorised Supply Point

2014 WATER SUPPLY COMMENTARY

ZN0603 - Carmoney Eglinton

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

WATER SUPPLY ZONE - ZN0603 - Carmoney Eglinton

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter	U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples) Min.	Mean	Max.
1,2 Dichloroethane	ug/l	S	8	8		0	0.000	< 0.100	< 0.100	< 0.100
2,4-D	ug/l	AS	8	8		0	0.000	< 0.004	< 0.006	0.012
2,4-DB	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Aldrin	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Aluminium	ug Al/l	S	52	52		0	0.000	< 1.000	< 35.182	167.600
Ammonium	mg NH4/l	S	52	52		0	0.000	0.005	0.009	0.023
Antimony	ug/l Sb	S	8	8		0	0.000	< 0.010	< 0.024	0.065
Arsenic	ug/l As	S	8	8		0	0.000	0.255	0.323	0.522
Bentazone	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Benzene	ug/l	S	8	8		0	0.000	< 0.020	< 0.020	< 0.020
Benzo(a)pyrene	ug/l	S	8	8		0	0.000	< 0.001	< 0.001	< 0.001
Boron	mg/l B	S	8	8		0	0.000	0.001	0.009	0.019
Bromate	ug/l	S	8	8		0	0.000	2.400	3.300	4.200
Bromoxynil	ug/l	AS	8	8		0	0.000	< 0.007	< 0.007	< 0.007
Cadmium	ug/l Cd	S	8	8		0	0.000	0.007	< 0.010	< 0.010
Chloride	mg Cl/l	S	8	8		0	0.000	20.700	22.542	25.002
Chlorothalonil	ug/l	AS	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Chlorotoluron	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Chlorpyrifos	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Chromium	ug/l Cr	S	8	8		0	0.000	< 0.100	< 0.254	0.385
Clopyralid	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
Clostridium perfringens (sulph red)	No./100 ml	AS	104	104		0	0.000	0.000	0.000	0.000
Colony Counts 22	No./1 ml	S	52	52		0	0.000	0.000	1.000	37.000
Colony Counts 37 (48hrs)	No./1 ml	S	52	52		0	0.000	0.000	0.019	1.000
Colour	mg/l Pt/Co	S	52	52		0	0.000	0.510	< 1.143	< 2.000
Conductivity	uS/cm 20 C	AS	104	105		0	0.000	34.100	250.315	408.000
Copper	mg Cu/l	S	8	8		0	0.000	0.001	0.002	0.008
Cyanide	ug/l	AS	8	8		0	0.000	0.800	1.638	3.000
Dicamba	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Dichlobenil	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Dichlorprop	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Dieldrin	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Diuron	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
E. coli	No./100 ml	S	132	133		0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	S	8	8		0	0.000	0.000	0.000	0.000
Epoxiconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Fenpropimorph	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Fluoride	mg F/l	S	8	8		0	0.000	< 0.024	< 0.045	0.100
Fluroxypyr	ug/l	AS	8	8		0	0.000	< 0.005	< 0.006	0.008
Free - Residual disinfectant	mg Cl/l	S	132	133		0	0.000	0.060	0.356	0.790
Glyphosate	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Heptachlor	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	< 0.005
Heptachlor epoxide	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Hexachlorobenzene	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
Hydrogen Ion	pH value	S	52	52		0	0.000	6.860	7.595	7.970
Iron	ug Fe/l	S	52	52		0	0.000	< 2.000	< 19.908	91.140
Isoproturon	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Lead	ug Pb/l	S	8	8		0	0.000	0.056	0.263	1.123
Linuron	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
MCPA	ug/l	AS	8	8		0	0.000	0.005	0.025	0.043
Manganese	ug Mn/l	S	52	52		0	0.000	< 0.100	< 2.576	37.350
Mecoprop	ug/l	AS	8	8		0	0.000	0.004	0.011	0.015
Mercury	ug/l Hg	S	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Metalaxyl	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	< 0.005
Metoxuron	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Metribuzin	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Nickel	ug Ni/l	S	8	8		0	0.000	< 0.100	< 0.892	2.327
Nitrate	mg NO3/l	S	8	8		0	0.000	0.504	1.453	6.115
Nitrite	mg NO2/l	S	8	8		0	0.000	0.007	0.013	0.028
Odour	Diln No	S	52	52		2	3.846	0.000	0.096	3.000
PAH - Sum of four substances	ug/l	S	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Pendimethalin	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Pesticides - Total Substances	ug/l	AS	8	8		0	0.000	< 0.050	< 0.056	0.082

WATER SUPPLY ZONE - ZN0603 - Carmoney Eglinton

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter		U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples) Min.	Mean	Max.
Phorate	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Pirimicarb	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Propachlor	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Propiconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Propyzamide	ug/l	AS	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Prothioconazole	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
Selenium	ug/l Se	S	8	8		0	0.000	< 0.200	< 0.341	0.730
Sodium	mg Na/l	S	8	8		0	0.000	8.774	13.517	16.400
Sulphate	mg SO4/l	S	8	8		0	0.000	49.557	65.633	76.500
Taste	Diln No	S	52	52		1	1.923	0.000	0.077	4.000
Tebuconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Tetrachloroethene/Trichloroethene - S	ug/l	S	8	8		0	0.000	< 0.200	< 0.219	< 0.348
Tetrachloromethane	ug/l	S	8	8		0	0.000	< 0.100	< 0.100	< 0.100
Total - Residual disinfectant	mg Cl/l	S	132	133		0	0.000	0.120	0.436	0.990
Total Indicative Dose	mSv/year	AS	1	1		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	AS	8	8		0	0.000	1.250	1.914	3.190
Total Trihalomethanes	ug/l	S	8	8		1	12.500	37.798	69.248	101.500
Total coliforms	No./100 ml	S	132	133		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	8	8		0	0.000	< 0.004	< 0.006	0.013
Trifluralin	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Tritium	Bq/l	AS	1	1		0	0.000	< 5.000	< 5.000	< 5.000
Turbidity	NTU	S	52	52		0	0.000	0.050	0.227	1.490

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 50928

This zone has a surface water source :R4301

PCV Exceedances:
Sample failed 27-JAN-2014 (ZN0603AE) Odour = 2 Diln No.
Sample failed 22-JUL-2014 (ZN0603AE) Odour = 3 Diln No.
Sample failed 22-JUL-2014 (ZN0603AE) Taste = 4 Diln No.
Sample failed 09-SEP-2014 (ZN0603AE) Total Trihalomethanes = 101.5 ug/l.

Notes:
PCV = Prescribed Concentration or Value
U = Undertaking
S = Standard Sampling Frequency
R = Reduced Sampling Frequency
A = Authorised Supply Point

2014 WATER SUPPLY COMMENTARY

ZN0604 - Caugh Hill Dungiven

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

WATER SUPPLY ZONE - ZN0604 - Caugh Hill Dungiven

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter	U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples) Min.	Mean	Max.
1,2 Dichloroethane	ug/l	S	8	8		0	0.000	< 0.100	< 0.100	< 0.100
2,4-D	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	0.006
2,4-DB	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Aldrin	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Aluminium	ug Al/l	S	24	24		0	0.000	11.140	40.417	82.400
Ammonium	mg NH4/l	S	24	24		0	0.000	0.005	0.009	0.011
Antimony	ug/l Sb	S	8	8		0	0.000	< 0.010	< 0.038	0.080
Arsenic	ug/l As	S	8	8		0	0.000	< 0.300	< 0.341	0.604
Bentazone	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Benzene	ug/l	S	8	8		0	0.000	< 0.020	< 0.022	0.035
Benzo(a)pyrene	ug/l	S	8	8		0	0.000	< 0.001	< 0.001	0.001
Boron	mg/l B	S	8	8		0	0.000	0.001	0.011	0.022
Bromate	ug/l	S	8	8		0	0.000	2.300	3.950	7.000
Bromoxynil	ug/l	AS	8	8		0	0.000	< 0.007	< 0.007	< 0.007
Cadmium	ug/l Cd	S	8	8		0	0.000	0.008	< 0.010	< 0.010
Chloride	mg Cl/l	S	8	8		0	0.000	7.680	19.848	24.100
Chlorothalonil	ug/l	AS	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Chlorotoluron	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Chlorpyrifos	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Chromium	ug/l Cr	S	8	8		0	0.000	0.050	0.235	0.589
Clopyralid	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
Clostridium perfringens (sulph red)	No./100 ml	AS	104	104		0	0.000	0.000	0.000	0.000
Colony Counts 22	No./1 ml	S	24	24		0	0.000	0.000	0.000	0.000
Colony Counts 37 (48hrs)	No./1 ml	S	24	24		0	0.000	0.000	0.000	0.000
Colour	mg/l Pt/Co	S	24	24		0	0.000	0.500	1.134	2.070
Conductivity	uS/cm 20 C	AS	104	104		0	0.000	169.000	218.413	406.000
Copper	mg Cu/l	S	8	8		0	0.000	0.001	0.001	0.001
Cyanide	ug/l	AS	8	8		0	0.000	1.300	1.850	2.800
Dicamba	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Dichlobenil	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Dichlorprop	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Dieldrin	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Diuron	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
E. coli	No./100 ml	S	48	48		0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	S	8	8		0	0.000	0.000	0.000	0.000
Epoxiconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Fenpropimorph	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Fluoride	mg F/l	S	8	8		0	0.000	< 0.024	< 0.073	0.100
Fluroxypyr	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	0.007
Free - Residual disinfectant	mg Cl/l	S	48	48		0	0.000	0.040	0.362	0.780
Glyphosate	ug/l	AS	8	8		0	0.000	< 0.003	< 0.004	0.007
Heptachlor	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	< 0.005
Heptachlor epoxide	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Hexachlorobenzene	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
Hydrogen Ion	pH value	S	24	24		0	0.000	7.050	7.682	8.820
Iron	ug Fe/l	S	24	24		0	0.000	< 2.000	< 21.535	117.500
Isoproturon	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	0.002
Lead	ug Pb/l	S	8	8		0	0.000	0.068	0.329	0.746
Linuron	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
MCPA	ug/l	AS	8	8		0	0.000	< 0.004	< 0.006	0.012
Manganese	ug Mn/l	S	24	24		0	0.000	< 0.100	< 3.002	19.220
Mecoprop	ug/l	AS	8	8		0	0.000	< 0.003	< 0.004	0.010
Mercury	ug/l Hg	S	8	8		0	0.000	0.005	0.012	0.031
Metalaxyl	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	< 0.005
Metoxuron	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Metribuzin	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Nickel	ug Ni/l	S	8	8		0	0.000	0.487	2.877	9.068
Nitrate	mg NO3/l	S	8	8		0	0.000	0.585	1.836	4.662
Nitrite	mg NO2/l	S	8	8		0	0.000	0.007	0.012	0.025
Odour	Diln No	S	24	24		0	0.000	0.000	0.000	0.000
PAH - Sum of four substances	ug/l	S	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Pendimethalin	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Pesticides - Total Substances	ug/l	AS	8	8		0	0.000	< 0.050	< 0.050	< 0.050

WATER SUPPLY ZONE - ZN0604 - Caugh Hill Dungiven

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter		U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples) Min.	Mean	Max.
Phorate	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Pirimicarb	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Propachlor	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Propiconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Propyzamide	ug/l	AS	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Prothioconazole	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
Selenium	ug/l Se	S	8	8		0	0.000	< 0.200	< 0.320	0.846
Sodium	mg Na/l	S	8	8		0	0.000	11.020	13.842	15.700
Sulphate	mg SO4/l	S	8	8		0	0.000	28.218	61.690	85.000
Taste	Diln No	S	24	24		0	0.000	0.000	0.000	0.000
Tebuconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Tetrachloroethene/Trichloroethene - S	ug/l	S	8	8		0	0.000	< 0.200	< 0.200	< 0.200
Tetrachloromethane	ug/l	S	8	8		0	0.000	< 0.100	< 0.100	< 0.100
Total - Residual disinfectant	mg Cl/l	S	48	48		0	0.000	0.120	0.439	0.880
Total Indicative Dose	mSv/year	AS	1	1		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	AS	8	8		0	0.000	1.120	1.651	2.370
Total Trihalomethanes	ug/l	S	8	8		0	0.000	36.350	62.891	89.600
Total coliforms	No./100 ml	S	48	48		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	8	8		0	0.000	< 0.004	< 0.005	0.010
Trifluralin	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Tritium	Bq/l	AS	1	1		0	0.000	< 5.000	< 5.000	< 5.000
Turbidity	NTU	S	24	24		0	0.000	0.090	0.181	0.430

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 15379

This zone has a surface water source :R4306

PCV Exceedances:
Water Quality was satisfactory

Notes:
PCV = Prescribed Concentration or Value
U = Undertaking
S = Standard Sampling Frequency
R = Reduced Sampling Frequency
A = Authorised Supply Point

2014 WATER SUPPLY COMMENTARY

ZN0607 - Corrody Derry

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

WATER SUPPLY ZONE - ZN0607 - Corrody Derry

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter	U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples) Min.	Mean	Max.
1,2 Dichloroethane	ug/l	S	8	8	0	0.000	0.060	< 0.095	< 0.100
2,4-D	ug/l	AS	16	16	0	0.000	< 0.004	< 0.006	0.013
2,4-DB	ug/l	AS	16	16	0	0.000	< 0.003	< 0.003	< 0.003
Aldrin	ug/l	AS	16	16	0	0.000	< 0.002	< 0.002	< 0.002
Aluminium	ug Al/l	S	52	52	0	0.000	5.904	39.385	144.100
Ammonium	mg NH4/l	S	52	52	0	0.000	0.005	0.010	0.029
Antimony	ug/l Sb	S	8	8	0	0.000	0.010	0.043	0.106
Arsenic	ug/l As	S	8	8	0	0.000	0.259	0.302	0.357
Bentazone	ug/l	AS	16	16	0	0.000	< 0.002	< 0.002	< 0.002
Benzene	ug/l	S	8	8	0	0.000	0.015	0.027	0.045
Benzo(a)pyrene	ug/l	S	8	8	0	0.000	< 0.001	< 0.001	< 0.001
Boron	mg/l B	S	8	8	0	0.000	< 0.001	< 0.006	0.016
Bromate	ug/l	S	8	8	0	0.000	1.500	3.075	4.100
Bromoxynil	ug/l	AS	16	16	0	0.000	< 0.007	< 0.007	< 0.007
Cadmium	ug/l Cd	S	8	8	0	0.000	< 0.010	< 0.010	0.012
Chloride	mg Cl/l	S	8	8	0	0.000	19.328	22.071	24.599
Chlorothalonil	ug/l	AS	16	16	0	0.000	< 0.010	< 0.010	0.012
Chlorotoluron	ug/l	AS	16	16	0	0.000	< 0.002	< 0.002	< 0.002
Chlorpyrifos	ug/l	AS	16	16	0	0.000	< 0.004	< 0.004	< 0.004
Chromium	ug/l Cr	S	8	8	0	0.000	0.106	0.195	0.296
Clopyralid	ug/l	AS	16	16	0	0.000	< 0.006	< 0.006	< 0.006
Clostridium perfringens (sulph red)	No./100 ml	AS	104	104	1	0.962	0.000	0.019	2.000
Clostridium perfringens (sulph red)	No./100 ml	AS	104	104	0	0.000	0.000	0.000	0.000
Colony Counts 22	No./1 ml	S	52	52	0	0.000	0.000	1.288	60.000
Colony Counts 37 (48hrs)	No./1 ml	S	52	52	0	0.000	0.000	1.019	53.000
Colour	mg/l Pt/Co	S	52	52	0	0.000	0.520	1.130	4.720
Conductivity	uS/cm 20 C	AS	104	104	0	0.000	169.000	218.413	406.000
Copper	mg Cu/l	S	8	8	0	0.000	< 0.001	< 0.005	0.019
Cyanide	ug/l	AS	16	16	0	0.000	< 0.500	< 1.206	2.800
Dicamba	ug/l	AS	16	16	0	0.000	< 0.001	< 0.011	< 0.012
Dichlobenil	ug/l	AS	16	16	0	0.000	< 0.004	< 0.004	< 0.004
Dichlorprop	ug/l	AS	16	16	0	0.000	< 0.003	< 0.005	< 0.030
Dieldrin	ug/l	AS	16	16	0	0.000	< 0.002	< 0.002	< 0.002
Diuron	ug/l	AS	16	16	0	0.000	< 0.003	< 0.003	< 0.003
E. coli	No./100 ml	S	144	145	0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	S	8	8	0	0.000	0.000	0.000	0.000
Epoxiconazole	ug/l	AS	16	16	0	0.000	< 0.002	< 0.002	< 0.002
Fenpropimorph	ug/l	AS	16	16	0	0.000	< 0.004	< 0.004	< 0.004
Fluoride	mg F/l	S	8	8	0	0.000	< 0.024	< 0.058	< 0.100
Fluroxypyr	ug/l	AS	16	16	0	0.000	< 0.005	< 0.007	0.012
Free - Residual disinfectant	mg Cl/l	S	144	145	0	0.000	0.060	0.313	0.950
Glyphosate	ug/l	AS	16	16	0	0.000	< 0.003	< 0.004	0.007
Heptachlor	ug/l	AS	16	16	0	0.000	< 0.005	< 0.005	< 0.005
Heptachlor epoxide	ug/l	AS	16	16	0	0.000	< 0.002	< 0.002	< 0.005
Hexachlorobenzene	ug/l	AS	16	16	0	0.000	< 0.006	< 0.006	< 0.006
Hydrogen Ion	pH value	S	52	52	0	0.000	7.040	7.599	8.340
Iron	ug Fe/l	S	52	52	0	0.000	< 2.000	< 21.565	85.620
Isoproturon	ug/l	AS	16	16	0	0.000	< 0.002	< 0.002	0.002
Lead	ug Pb/l	S	8	8	0	0.000	0.079	0.192	0.425
Linuron	ug/l	AS	16	16	0	0.000	< 0.006	< 0.006	< 0.006
MCPA	ug/l	AS	16	16	0	0.000	< 0.004	< 0.019	0.051
Manganese	ug Mn/l	S	52	52	1	1.923	< 0.100	< 4.281	98.940
Mecoprop	ug/l	AS	16	16	0	0.000	< 0.003	< 0.008	0.015
Mercury	ug/l Hg	S	8	8	0	0.000	0.006	< 0.008	< 0.010
Metalaxyl	ug/l	AS	16	16	0	0.000	< 0.005	< 0.005	< 0.005
Metoxuron	ug/l	AS	16	16	0	0.000	< 0.002	< 0.002	< 0.002
Metribuzin	ug/l	AS	16	16	0	0.000	< 0.004	< 0.004	< 0.004
Nickel	ug Ni/l	S	8	8	0	0.000	0.570	1.381	3.617
Nitrate	mg NO3/l	S	8	8	0	0.000	0.425	0.961	1.307
Nitrite	mg NO2/l	S	8	8	0	0.000	0.005	0.011	0.017
Odour	Diln No	S	52	52	1	1.923	0.000	0.038	2.000
PAH - Sum of four substances	ug/l	S	8	8	0	0.000	< 0.010	< 0.010	< 0.010
Pendimethalin	ug/l	AS	16	16	0	0.000	< 0.004	< 0.004	< 0.004

WATER SUPPLY ZONE - ZN0607 - Corrody Derry

Printed On 11-FEB-2015 : NI Water : Period 01-JAN-2014 to 31-DEC-2014 incl.

Parameter		U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples) Min.	Mean	Max.
Pesticides - Total Substances	ug/l	AS	16	16		0	0.000	< 0.050	< 0.061	0.094
Phorate	ug/l	AS	16	16		0	0.000	< 0.004	< 0.004	< 0.004
Pirimicarb	ug/l	AS	16	16		0	0.000	< 0.003	< 0.003	< 0.003
Propachlor	ug/l	AS	16	16		0	0.000	< 0.004	< 0.004	< 0.004
Propiconazole	ug/l	AS	16	16		0	0.000	< 0.002	< 0.002	< 0.002
Propyzamide	ug/l	AS	16	16		0	0.000	< 0.010	< 0.010	< 0.010
Prothioconazole	ug/l	AS	16	16		0	0.000	< 0.006	< 0.006	< 0.006
Selenium	ug/l Se	S	8	8		0	0.000	0.161	0.260	0.475
Sodium	mg Na/l	S	8	8		0	0.000	11.712	14.016	15.900
Sulphate	mg SO4/l	S	8	8		0	0.000	49.970	65.631	76.600
Taste	Diln No	S	52	52		1	1.923	0.000	0.038	2.000
Tebuconazole	ug/l	AS	16	16		0	0.000	< 0.002	< 0.002	< 0.002
Tetrachloroethene/Trichloroethene - S	ug/l	S	8	8		0	0.000	< 0.200	< 0.217	< 0.328
Tetrachloromethane	ug/l	S	8	8		0	0.000	< 0.100	< 0.100	< 0.100
Total - Residual disinfectant	mg Cl/l	S	144	145		0	0.000	0.130	0.390	1.080
Total Indicative Dose	mSv/year	AS	2	2		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	AS	8	8		0	0.000	1.120	1.651	2.370
Total Trihalomethanes	ug/l	S	8	8		1	12.500	43.649	74.145	103.300
Total coliforms	No./100 ml	S	144	145		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	16	16		0	0.000	< 0.004	< 0.007	0.016
Trifluralin	ug/l	AS	16	16		0	0.000	< 0.003	< 0.003	< 0.003
Tritium	Bq/l	AS	2	2		0	0.000	< 0.500	< 2.750	< 5.000
Turbidity	NTU	S	52	52		0	0.000	0.050	0.223	0.761

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 56642

This zone has a surface water source :R1701

PCV Exceedances:
Sample failed 24-APR-2014 (W1701POUT) Clostridium perfringens (sulph red) = 2 No./100.
Sample failed 03-SEP-2014 (ZN0607AE) Manganese = 98.9 ug Mn.
Sample failed 12-NOV-2014 (ZN0607AE) Odour = 2 Diln No.
Sample failed 12-NOV-2014 (ZN0607AE) Taste = 2 Diln No.
Sample failed 10-SEP-2014 (ZN0607AE) Total Trihalomethanes = 103.3 ug/l.

Notes:
PCV = Prescribed Concentration or Value
U = Undertaking
S = Standard Sampling Frequency
R = Reduced Sampling Frequency
A = Authorised Supply Point