

## Drinking Water Supplies and Water Quality in 2024

Tables 1, 2 and 3 and Figure 1 provide an overview of public drinking water supply for Northern Ireland in 2024. The subsequent water quality tables provide detail of where full compliance with the regulatory standards has not been met in the individual water supply zones. The water quality tables present, by parameter, all the contraventions and the ‘% compliance’ that occurred in each water supply zone and at supply points (at water treatment works) during 2024. Additional information is also provided on the cause of each contravention and the nature and timeframe for any required remedial actions carried out to bring the water supply into compliance with the regulations. The map in Figure 1 shows the water supply zones from which samples are collected across Northern Ireland. These, when used in conjunction with the information in the parameter tables that follow, will allow the reader to have a more local focus on drinking water quality issues.

**Table 1: Public supply statistics for Northern Ireland in 2024**

<b>Total population</b>		1,919,120
<b>Total volume of water supplied (Megalitres / day)</b>		603.74
<b>Water sources by percentage volume</b>	Ground	0.1%
	Surface	99.9%
	Mixed/Other	0%
<b>Water treatment works</b>		25
<b>Service reservoirs</b>		287
<b>Water supply zones</b>		62



**Table 2: Water Supply Zones within each Council area in 2024**

Council	Water Supply Zones*	
<b>Antrim and Newtownabbey Borough</b>	ZN0306 - Dungonnell Portglenone ZN0401 - Dunore Point Antrim ZN0402 - Killylane Ballynure ZN0403 - Dunore Point Crumlin ZN0501 - Moyola Magherafelt	ZS0106 - Dunore Belfast North ZS0109 - Dorisland Whiteabbey ZS0111 - Dunore Point Hydepark ZS0503 - Forked Bridge Stoneyford
<b>Ards and North Down Borough</b>	ZS0103 - Belfast Ballyhanwood ZS0108 - Belfast Purdysburn ZS0405 - Drumaroad Ards West ZS0406 - Drumaroad Portaferry ZS0407 - Drumaroad Bangor West	ZS0408 - Drumaroad Bangor East ZS0409 - Drumaroad Ards East ZS0501 - Drumaroad Lisburn ZS0601 - Drumaroad Ballynahinch
<b>Armagh City, Banbridge and Craigavon Borough</b>	ZN1101 - Clay Lake Keady ZN1102 - Seagahan Armagh ZS0601 - Drumaroad Ballynahinch ZS0810 - Castor Bay Tandragee ZS0811 - Castor Bay Portadown ZS0812 - Castor Bay Craigavon East	ZS0814 - Castor Bay Moira ZS0902 - Fofanny Dromore ZS0905 - Fofanny Newry ZS0906 - Fofanny Hilltown ZS1002 - Carran Hill Camly
<b>Belfast City</b>	ZS0101 - Dunore Ballygomartin North ZS0102 - Dunore Ballygomartin South ZS0103 - Belfast Ballyhanwood ZS0104 - Belfast Breda North ZS0105 - Belfast Breda South ZS0106 - Dunore Belfast North ZS0107 - Belfast Oldpark ZS0108 - Belfast Purdysburn	ZS0109 - Dorisland Whiteabbey ZS0111 - Dunore Point Hydepark ZS0405 - Drumaroad Ards West ZS0501 - Drumaroad Lisburn ZS0502 - Poleglass Dunmurry ZS0503 - Forked Bridge Stoneyford ZS0504 - Lisburn South
<b>Causeway Coast and Glens Borough</b>	ZN0102 - Ballinrees North ZN0103 - Ballinrees South ZN0202 - Altnahinch Bushmills ZN0204 - Rathlin Island ZN0302 - Dungonnell Glarryford ZN0306 - Dungonnell Portglenone	ZN0501 - Moyola Magherafelt ZN0601 - Ballinrees Limavady ZN0603 - Carmoney Eglinton ZN0604 - Caugh Hill Dungiven ZN0607 - Corrody Derry
<b>Derry City and Strabane District</b>	ZN0603 - Carmoney Eglinton ZN0604 - Caugh Hill Dungiven ZN0607 - Corrody Derry	ZN0701 - Derg Strabane ZN0704 - Lough Bradan Drumquin ZN0706 - Lough Macrory Killyclogher
<b>Fermanagh and Omagh District</b>	ZN0502 - Lough Fea Cookstown ZN0701 - Derg Strabane ZN0702 - Glenhordial Omagh ZN0704 - Lough Bradan Drumquin ZN0705 - Lough Macrory Beragh	ZN0706 - Lough Macrory Killyclogher ZN0801 - Belleek Garrison ZN0803 - Killyhevlin West ZN0804 - Killyhevlin East ZS0809 - Castor Bay Dungannon
<b>Lisburn and Castlereagh City</b>	ZN0403 - Dunore Point Crumlin ZS0103 - Belfast Ballyhanwood ZS0108 - Belfast Purdysburn ZS0111 - Dunore Point Hydepark ZS0405 - Drumaroad Ards West ZS0501 - Drumaroad Lisburn	ZS0502 - Poleglass Dunmurry ZS0503 - Forked Bridge Stoneyford ZS0504 - Lisburn South ZS0601 - Drumaroad Ballynahinch ZS0814 - Castor Bay Moira ZS0902 - Fofanny Dromore
<b>Mid and East Antrim Borough</b>	ZN0202 - Altnahinch Bushmills ZN0302 - Dungonnell Glarryford ZN0303 - Dunore Point Ballymena ZN0306 - Dungonnell Portglenone	ZN0401 - Dunore Point Antrim ZN0402 - Killylane Ballynure ZS0109 - Dorisland Whiteabbey ZS0201 - Dorisland Carrick
<b>Mid Ulster District</b>	ZN0103 - Ballinrees South ZN0501 - Moyola Magherafelt ZN0502 - Lough Fea Cookstown ZN0504 - Moyola Unagh Morneal ZN0505 - Moneymore ZN0705 - Lough Macrory Beragh	ZN0706 - Lough Macrory Killyclogher ZN0804 - Killyhevlin East ZN1102 - Seagahan Armagh ZS0809 - Castor Bay Dungannon ZS0811 - Castor Bay Portadown

<b>Newry, Mourne and Down District</b>	ZN1101 - Clay Lake Keady ZS0501 - Drumaroad Lisburn ZS0601 - Drumaroad Ballynahinch ZS0602 - Drumaroad Downpatrick ZS0810 - Castor Bay Tandragee ZS0901 - Castor Bay Newry West	ZS0902 - Fofanny Dromore ZS0905 - Fofanny Newry ZS0906 - Fofanny Hilltown ZS0907 - Fofanny Kilkeel ZS1001 - Carran Hill Crossmaglen ZS1002 - Carran Hill Camly
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\* excludes water supply zones with fewer than 40 properties within the council area.

**Table 3: Water supply zones - Populations and Volume Supplied in 2024**

Zone ID	Zone Name	Residential Population	Volume supplied (m <sup>3</sup> /d)
ZN0102	Ballinrees North	54,811	12,058,420
ZN0103	Ballinrees South	41,161	9,055,420
ZN0202	Altnahinch Bushmills	31,777	6,990,940
ZN0204	Rathlin Island	246	54,120
ZN0302	Dungonnell Glarryford	17,964	3,952,080
ZN0303	Dunore Point Ballymena	49,111	10,804,420
ZN0306	Dungonnell Portglenone	9,435	2,075,700
ZN0401	Dunore Point Antrim	60,920	13,402,400
ZN0402	Killylane Ballynure	47,057	10,352,540
ZN0403	Dunore Point Crumlin	8,122	1,786,840
ZN0501	Moyola Magherafelt	36,415	8,011,300
ZN0502	Lough Fea Cookstown	21,897	4,817,340
ZN0504	Moyola Unagh Mormeal	12,527	2,755,940
ZN0505	Moneymore	4,714	1,037,080
ZN0601	Ballinrees Limavady	20,896	4,597,120
ZN0603	Carmoney Eglinton	56,390	12,405,800
ZN0604	Caugh Hill Dungiven	17,377	3,822,940
ZN0607	Corrody Derry	59,806	13,157,320
ZN0701	Derg Strabane	40,125	8,827,500
ZN0702	Glenhordial Omagh	11,559	2,542,980
ZN0704	Lough Bradan Drumquin	22,075	4,856,500
ZN0705	Lough Macrory Beragh	10,846	2,386,120
ZN0706	Lough Macrory Killyclogher	21,649	4,762,780
ZN0801	Belleek Garrison	4,410	970,200
ZN0803	Killyhevlin West	37,083	8,158,260
ZN0804	Killyhevlin East	36,433	8,015,260
ZN1101	Clay Lake Keady	8,624	1,897,280
ZN1102	Seagahan Armagh	35,080	7,717,600
ZS0101	Dunore Ballygomartin North	44,982	9,896,040
ZS0102	Dunore Ballygomartin South	49,557	10,902,540
ZS0103	Belfast Ballyhanwood	62,451	13,739,220
ZS0104	Belfast Breda North	43,014	9,463,080
ZS0105	Belfast Breda South	56,397	12,407,340
ZS0106	Dunore Belfast North	51,696	11,373,120
ZS0107	Belfast Oldpark	41,646	9,162,120
ZS0108	Belfast Purdysburn	39,332	8,653,040
ZS0109	Dorisland Whiteabbey	50,986	11,216,920
ZS0111	Dunore Point HydePark	35,386	7,784,920
ZS0201	Dorisland Carrick	40,976	9,014,720
ZS0405	Drumaroad Ards West	27,123	5,967,060
ZS0406	Drumaroad Portaferry	18,745	4,123,900
ZS0407	Drumaroad Bangor West	48,270	10,619,400

**Table 3: Water supply zones - Populations and Volume Supplied in 2024**

Zone ID	Zone Name	Residential Population	Volume supplied (m <sup>3</sup> /d)
ZS0408	Drumaroad Bangor East	37,432	8,235,040
ZS0409	Drumaroad Ards East	42,477	9,344,940
ZS0501	Drumaroad Lisburn	33,471	7,363,620
ZS0502	Poleglass Dunmurry	61,889	13,615,580
ZS0503	Forked Bridge Stoneyford	31,664	6,966,080
ZS0504	Lisburn South	31,019	6,824,180
ZS0601	Drumaroad Ballynahinch	55,335	12,173,700
ZS0602	Drumaroad Downpatrick	40,695	8,952,900
ZS0809	Castor Bay Dungannon	55,699	12,253,780
ZS0810	Castor Bay Tandragee	54,407	11,969,540
ZS0811	Castor Bay Portadown	50,132	11,029,040
ZS0812	Castor Bay Craigavon East	51,274	11,280,280
ZS0814	Castor Bay Moira	29,626	6,517,720
ZS0901	Castor Bay Newry West	21,742	4,783,240
ZS0902	Fofanny Dromore	34,530	7,596,600
ZS0905	Fofanny Newry	18,981	4,175,820
ZS0906	Fofanny Hilltown	22,527	4,955,940
ZS0907	Fofanny Kilkeel	17,916	3,941,520
ZS1001	Carran Hill Crossmaglen	8,863	1,949,860
ZS1002	Carran Hill Camly	3,848	846,560

## Water Quality in Water Supply Zones in 2024

**Table 4: % Compliance – Aluminium (µg/l)**

Sampling Location - Zones	Number of Samples	Number of Non-compliant Tests	Cause	Remedial Action	Remedial Action Timeframe	Restriction Required	Maximum Value Reported (in zone)	Median (Total Analyses)	Median (Non-compliances)	% Compliance
ZN0402	36	1	D, O	P2, O	M, L	No	210	39	210	97.22
All other zones	2004	0								100
<b>Overall</b>	<b>2040</b>	<b>1</b>								<b>99.95</b>

**Table 5: % Compliance – Bromate (µg/l)**

Sampling Location - Zones	Number of Samples	Number of Non-compliant Tests	Cause	Remedial Action	Remedial Action Timeframe	Restriction Required	Maximum Value Reported (in zone)	Median (Total Analyses)	Median (Non-compliances)	% Compliance
ZN0402	4	1	U	O	S	No	54	0.59	54	75.00
All other zones	475	0								100
<b>Overall</b>	<b>479</b>	<b>1</b>								<b>99.79</b>

**Table 6: % Compliance – Coliform bacteria (number/100ml)**

Sampling Location - Zones	Number of Samples	Number of Non-compliant Tests	Cause	Remedial Action	Remedial Action Timeframe	Restriction Required	Maximum Value Reported (in zone)	Median (Total Analyses)	Median (Non-compliances)	% Compliance
ZN0102	132	1	D,U	O	S	No	3	0	3	99.24
ZN0202	84	1	D,U	O	S	No	1	0	1	99.81
ZN0204	12	1	D,U	O	S	No	3	0	3	91.67
ZN0501	96	1	D,U	O	S	No	66	0	66	98.96
ZN0603	144	1	D,U	O	S	No	1	0	1	99.31
ZN0607	144	1	D,U	O	S,M	No	1	0	1	99.31
ZN0701	108	1	D,O	O	S	No	2	0	2	99.07
ZN0706	60	1	D,O	O	S	No	1	0	1	98.33
ZN0804	96	1	D,U	O	S	No	6	0	6	98.96
ZS0408	96	1	D,O	O	S,M	No	4	0	4	98.96
ZS0502	156	4	D,O,U	O	S,M	No	39	0	5	97.44
ZS0812	132	1	D,U	O	S	No	31	0	31	99.24
ZS0814	72	1	D,U	O	S	No	17	0	17	98.61
ZS1001	24	1	D,U	O	S	No	1	0	1	95.83
All other zones	4056	0								100
<b>Overall</b>	<b>5412</b>	<b>17</b>								<b>99.69</b>

**Table 7: % Compliance – Enterococci (number/100ml)**

Sampling Location – Zones	Number of Samples	Number of Non-compliant Tests	Cause	Remedial Action	Remedial Action Timeframe	Restriction Required	Maximum Value Reported (in zone)	Median (Total Analyses)	Median (Non-compliances)	% Compliance
ZN0501	8	1	D,U	O	S	No	1	0	1	87.5
All other zones	472	0								100
<b>Overall</b>	<b>480</b>	<b>1</b>								<b>99.79</b>

**Table 8: % Compliance – Iron (µg/l)**

Sampling Location - Zones	Number of Samples	Number of Non-compliant Tests	Cause	Remedial Action	Remedial Action Timeframe	Restriction Required	Maximum Value Reported (in zone)	Median (Total Analyses)	Median (Non-compliances)	% Compliance
ZN0102	52	2	D,U	O	S	No	520	17.0	385	96.15
ZN0103	36	1	P,P2	O	M	No	220	8.1	220	97.22
ZN0202	36	1	D,U	O	L	No	270	5.8	270	97.22
ZN0402	36	3	P,O D,U	P2,O	S,M	No	1600	23.0	713	91.67
ZN0504	24	1	D,U	O	S,L	No	490	13.4	490	95.83
ZN0603	52	1	P,O	P2,O	S,M	No	360	13.0	360	98.08
ZN0604	24	1	D,P	O,P2	S	No	220	27.0	220	95.83
ZN0607	52	2	P	O,P2	S	No	230	27.5	225	96.15
ZN0704	24	1	D,U	O	M	No	300	10.0	300	95.83
ZS0109	52	1	P,U	O	M	No	340	3.8	340	98.08
ZS0405	24	2	D,P,U	O	S,M	No	270	4.8	250	91.67
ZS0409	36	1	D,O	O	S	No	220	7.2	220	97.22
ZS0501	36	1	P,U	O	S	No	290	36.0	290	97.22
ZS0812	52	2	P	P2,O	S,M	No	370	12.5	305	96.15
All other zones	1504	0								100
<b>Overall</b>	<b>2040</b>	<b>20</b>								<b>99.02</b>

**Table 9: % Compliance – Manganese (µg/l)**

Sampling Location – Zones	Number of Samples	Number of Non-compliant Tests	Cause	Remedial Action	Remedial Action Timeframe	Restriction Required	Maximum Value Reported (in zone)	Median (Total Analyses)	Median (Non-compliances)	% Compliance
ZS0109	52	1	P,U	O	M	No	360	2.0	360	98.08
ZS0501	36	1	D,O	O	S,M	No	58	1.1	58	97.22
All other zones	1952	0								100
<b>Overall</b>	<b>2040</b>	<b>2</b>								<b>99.90</b>

**Table 10: % Compliance – Odour (dilution number)**

Sampling Location - Zones	Number of Samples	Number of Non-compliant Tests	Cause	Remedial Action	Remedial Action Timeframe	Restriction Required	Maximum Value Reported (in zone)	Median (Total Analyses)	Median (Non-compliances)	% Compliance
ZN0102	52	2	D,U	O	S S,M	No	10	0	8	96.15
ZN0501	36	1	C,T	O	M,L	No	3	0	3	97.22
ZN0504	24	1	C,T	O	M,L	No	10	0	10	95.83
ZS0407	36	1	D,U	O	S	No	10	0	10	97.22
ZS0601	52	1	D,U	O	M	No	10	0	10	98.08
ZS0814	24	1	D,O	O,D1	S,M	No	6	0	6	95.83
ZS0901	24	1	D,O	O,D1	S,M, L	Yes (S)	3	0	3	95.83
ZS0906	24	1	D,O	O,D2	S	No	7	0	7	95.83
All other zones	1768	0								100
<b>Overall</b>	<b>2040</b>	<b>9</b>								<b>99.56</b>

**Table 11: % Compliance – Taste (dilution number)**

Sampling Location - Zones	Number of Samples	Number of Non-compliant Tests	Cause	Remedial Action	Remedial Action Timeframe	Restriction Required	Maximum Value Reported (in zone)	Median (Total Analyses)	Median (Non-compliances)	% Compliance
ZS0102	52	2	D,U	O	S	No	99	0	99	96.15
ZN0501	36	1	C,T	O	M,L	No	99	0	99	97.22
ZN0504	24	1	C,T	O	M,L	No	10	0	10	95.83
ZN0803	36	1	D,U	O	S	No	10	0	10	97.22
ZS0105	52	1	D,U	O	S	No	10	0	10	98.08
ZS0501	36	1	D,U	O	S	No	4	0	4	97.22
ZS0601	52	1	D,U	O	M	No	99	0	99	98.08
ZS0814	24	1	D,O	O,D1	S,M	No	99	0	99	95.83
ZS0901	24	1	D,O	O,D1	S,M, L	Yes (S)	99	0	99	95.83
ZS0906	24	1	D,O	O,D2	S	No	99	0	99	95.83
All other zones	1680	0								100
<b>Overall</b>	<b>2040</b>	<b>11</b>								<b>99.46</b>

**Table 12: % Compliance – Total Trihalomethanes (µg/l)**

Sampling Location – Zones	Number of Samples	Number of Non-compliant Tests	Cause	Remedial Action	Remedial Action Timeframe	Restriction Required	Maximum Value Reported (in zone)	Median (Total Analyses)	Median (Non-compliances)	% Compliance
ZN0202	8	2	T	O,T	S,L	No	110	64.5	110	75.00
ZN0402	8	1	S	O	S,L	No	110	58.0	110	87.50
ZN0801	4	1	P,U	O	S	No	110	51.0	110	75.00
All other zones	460	0								100
<b>Overall</b>	<b>480</b>	<b>4</b>								<b>99.17</b>

## Appendix 1

**Table 1 - 1: Coding system for the causes of non-compliance**

Code	Cause
C	Catchment related
T	Treatment Plant related
P	Public Distribution Network related
D	Domestic Distribution System related
O	Other Cause
S	Combined Causes
U	Unknown Cause

**Table 1 - 2: Coding system for remedial actions in case of non-compliance**

CODE*		Description of remedial action
C for catchment related	C1	Action(s) to terminate or mitigate the cause
	C2	Action(s) to replace source
T for treatment related	T	Establishing, upgrading or improving treatment
P for public distribution network related	P1	Replacement, disconnection or repair of defective components
	P2	Cleaning, scouring and/or disinfecting contaminated components
D for domestic distribution system **	D1	Replacement, disconnection or repair of defective components
	D2	Cleaning, scouring and/or disinfecting contaminated components
S for Security measures to prevent unauthorised access	S1	Security measures to prevent unauthorised access
E for Emergency actions for the consumers' health and safety	E1	Notification of and instructions to consumers (for example, prohibition of use, boil water order, temporary limitations on consumption).
	E2	Provision of a temporary alternative drinking water supply (for example, bottled water, water in containers, tankers).
O for Others		
N for None Required		

*\*More than one of the above codes may apply*

*\*\*Including domestic installations where water is served to the public*

**Table 1 - 3: Coding system for the remedial action timeframe**

<b>Code</b>	<b>Timeframe</b>	<b>Details</b>
I	Immediate	not more than 1 day
S	Short-term	not more than 30 days
M	Medium-term	more than 30 days but not more than a year
L	Long-term	more than a year

**Table 1 - 4: Coding system for the timeframe of restriction or prohibition in use**

<b>Code</b>	<b>Timeframe</b>	<b>Details</b>
I	Immediate	not more than 1 day
V	Very short-term	not more than one week
S	Short-term	not more than 30 days
M	Medium-term	more than 30 days but not more than a year
L	Long-term	more than a year