

## Drinking Water 2016 - Number of tests carried out by companies in Wales

Company	Place of sampling			Number of tests per company	Target number of tests
	Water treatment works	Service reservoirs	Consumers' taps (zones)		
Albion Water	0 (0)	0 (0)	239 (1)	239	239
Dee Valley Water	8,083 (4)	8,442 (29)	7,744 (10)	24,269	24,296
Dŵr Cymru Welsh Water	47,201 (61)	96,927 (316)	79,204 (75)	223,332	223,401
Severn Trent Water	6,210 (3)	22,151 (56)	4,220 (10)	32,581	32,582
SSE Water	0 (0)	0 (0)	482 (1)	482	482
<b>Wales overall</b>	<b>61,494 (68)</b>	<b>127,520 (401)</b>	<b>91,889 (97)</b>	<b>280,903</b>	<b>281,000</b>

Numbers in brackets reflect the number of works, reservoirs or zones operated by that company in Wales in 2016. Some companies are permitted to carry out some tests on samples taken from supply points rather than from consumers' taps.

## Drinking Water 2016 - Chemical and physical parameters - Wales

### The number of tests performed and the number of tests not meeting the standard

Parameter	Current standard or specified concentration <sup>1</sup>	Total number of tests	Number of tests not meeting the standard	Additional information
Aesthetic parameters				
– colour	20mg/l Pt/Co scale	1,749	0	
– odour	No abnormal change	2,231	4	DWR (3), DVW (1)
– taste		2,069	2	DWR (2)
1,2-dichloroethane	3µg/l	744	0	
Aluminium	200µg/l	2,111	0	
Ammonium	0.5mg NH <sub>4</sub> /l	1,834	0	
Antimony	5µg/l	682	0	
Arsenic	10µg/l	682	0	
Benzene	1µg/l	744	0	
Benzo(a)pyrene	0.01µg/l	687	1	DWR (1)
Boron	1µg/l	739	0	
Bromate	10µg/l	707	0	
Cadmium	5µgCd/l	682	0	
Chloride	250mgCl/l	741	0	
Chromium	50µgCr/l	681	0	
Conductivity	2500µS/cm at 20°C	2,184	0	
Copper	2mg/l	683	0	
Cyanide	50µgCN/l	740	0	
Fluoride	1.5mg/l	677	0	
Iron	200µg/l	2,749	8	DWR (8)
Lead	10µg/l	681	2	DWR (2)
Manganese	50µg/l	2,083	1	DWR (1)
Mercury	1µgHg/l	741	0	
Nickel	20µg/l	684	0	
Nitrate	50mg/l	688	0	
Nitrite	0.5mg/l	692	0	
Nitrite (taken at works)	0.1mg/l	407	0	
Pesticides – total	0.5µg/l	836	0	
Pesticide – individual <sup>3</sup>	0.1µg/l	6,499	0	
pH (Hydrogen ion)	6.5 – 9.5	2,511	0	
Polycyclic Aromatic Hydrocarbons (PAH)	0.1µg/l	690	0	
Radioactivity				
Radon	100 Bq/l	111	0	
Indicative dose	0.1mSv/year	0	0	

Tritium	100Bq/l	95	0	
Selenium	0.1µg/l	682	0	
Sodium	200mg Na/l	682	0	
Sulphate	250mg SO <sub>4</sub> /l	741	0	
Tetrachloroethene & Trichloroethene	10µg/l	679	0	The standard applies to the sum of the two substances
Tetrachloromethane	3µg/l	689	0	
Trihalomethanes Total	100µg/l	698	0	
Turbidity (at consumers' taps)	4NTU	1,838	0	

Notes:

<sup>1</sup>For comparison, 1mg/l is one part in a million; 1µg/l is one part in a thousand million.

<sup>2</sup>A further 3,089 tests were done for aldrin, dieldrin, heptachlor, heptachlor epoxide, all of which met the relevant standard of 0.03µg/l.

## Drinking Water 2016 - Microbiological tests - Wales

The number of tests performed and the number of tests not meeting the standard

Parameter	Current standard	Total number of tests	Number of tests not meeting the standard	Additional information
<b>Water leaving water treatment works</b>				
<i>E.coli</i>	0/100ml	8,682	0	
Coliform bacteria	0/100ml	8,682	1	DWR (1)
<i>Clostridium perfringens</i>	0/100ml	3,254	0	
Turbidity <sup>1</sup>	1NTU	8,978	3	DVW (3)
<b>Water leaving service reservoirs</b>				
<i>E.coli</i>	0/100ml	21,253	0	
Coliform bacteria	0/100ml in 95% of tests at each reservoir	21,253	12	DWR (6), SVT (4), DVW (2) All 401 reservoirs in the region met the 95% compliance rule
<b>Water sampled at consumers' taps</b>				
<i>E.coli</i>	0/100ml	8,178	1	DWR (1)
Enterococci	0/100ml	678	0	
<sup>1</sup> Turbidity is a critical control parameter for water treatment and disinfection.				