

Data summary tables for Wessex Water Services Ltd (WSX)

These tables contain a summary of results of monitoring undertaken by the water company in 2017 and submitted to the Drinking Water Inspectorate. The tables are published by the Inspectorate as part of the Chief Inspector's Report entitled *Drinking water 2017*.

The tables and full content of the Drinking Water Inspectorate's annual report are available on the Inspectorate's website at <http://www.dwi.defra.gov.uk>

Notes relating to the interpretation of the tables:

Columns on the following tables that are headed '1 percentile representing a minimum' and '99 percentile representing a maximum' contain figures for the 1 percentile and 99 percentile sample results respectively except where less than 100 samples were taken, when the figures are the actual maximum and minimum results.

The symbol < indicates that the result was less than the limit of detection of the analytical method used.

Published 11 July 2018
Drinking Water Inspectorate
Area 1A
Nobel House
17 Smith Square
London
SW1P 3JR

Enquiries: 0300 068 6400

Site Summary Data for Wessex Water Services Ltd

Report Date Range: For the whole year 2017

Table WSX 1: Quality of water leaving treatment works - European Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of works with failures
Nitrite (Total)	A013B	0.1 mg NO ₂ /l	446	0	< 0.01	< 0.01	0
Totals:			446	0			

Table WSX 2: Quality of water leaving treatment works - National Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of works with failures
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	7,881	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	7,881	1	0	0	1
Totals:			15,762	1			

Table WSX 3: Quality of water leaving treatment works - Additional Monitoring Requirements

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Colony Counts After 3 Days At 22øc (Colony Counts)	C007	No abnormal change	7,879	-n/a	0	249
Residual Disinfectant - Free	C009	No abnormal change	7,882	-n/a	0.27	0.83
Residual Disinfectant - Total	C010	No abnormal change	7,881	-n/a	0.33	0.89
<i>Combined Chlorine/Residual Disinfectant Combined*</i>	-(n/a)	-(n/a)	(7,881)	-n/a	0	0.17
Turbidity - Indicator	A002A	1 nephelometric turbidity units	7,876	4	< 0.07	0.2423
Totals:			31,518	4		

*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters

'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.

Table WSX 4: Quality of water leaving service reservoirs - National Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of reservoirs failing standard
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	16,168	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	16,168	5	0	0	0
Totals:			32,336	5			

Table WSX 5: Quality of water leaving service reservoirs - Additional Monitoring Requirements

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Colony Counts After 3 Days At 22øc (Colony Counts)	C007	No abnormal change	16,168	-n/a	0	2792
Residual Disinfectant - Free	C009	No abnormal change	16,170	-n/a	0.11	0.63
Residual Disinfectant - Total	C010	No abnormal change	16,168	-n/a	0.19	0.69
<i>Combined Chlorine/Residual Disinfectant Combined*</i>	<i>-(n/a)</i>	<i>-(n/a)</i>	<i>(16,168)</i>	<i>-n/a</i>	<i>0</i>	<i>0.18</i>
Totals:			48,506	0		

*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.

Table WSX 6: Quality of water leaving bulk supply points - European Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of supply points with failures
Radon	F031	100 Bq/l	2	0	5.01	7.73	0
Totals:			2	0			

Table WSX 8: Quality of water leaving bulk supply points - Additional Monitoring Requirements

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	C004A	0 number/100 ml	1,056	0	0	0
Gross Alpha	F004	0.1 Bq/l	4	0	< 0.02	0.082
Gross Beta	F005	1 Bq/l	4	0	0.092	0.124
Tritium	F006	100 Bq/l	4	0	< 5.6	8.03
Totals:			1,068	0		

Table WSX 9: Quality of water at consumer's tap (zones) - European Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of zones failing standard
1,2-Dichloroethane (Total)	F001	3 µg/l	513	0	< 0.12	0.1772	0
Antimony	B008A	5 µg Sb/l	512	0	< 0.1	0.4	0
Arsenic (Total)	B001A	10 µg As/l	512	0	< 0.2	0.8	0
Benzene (Total)	F002	1 µg/l	515	0	< 0.11	< 0.11	0
Benzo[a]Pyrene (Total)	D007	0.01 µg/l	525	1	< 0.0002	0.000674	1
Boron	D005A	1 mg B/l	512	0	< 0.02	0.1	0
Bromate	F003	10 µg BrO ₃ /l	512	0	< 0.1	2.874	0
Cadmium (Total)	B002	5 µg Cd/l	512	0	< 0.1	< 0.1	0
Chromium (Total)	B004	50 µg Cr/l	512	0	< 1	< 1	0
Copper (Total)	A024A	2 mg Cu/l	512	0	< 0.01	0.7148	0
Cyanide (Total)	B003	50 µg CN/l	512	0	< 2	< 2	0
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	3,625	0	0	0	0
Enterococci (Confirmed)	C003	0 number/100 ml	514	0	0	0	0
Fluoride (Total)	A027	1.5 mg F/l	511	0	< 0.05	0.78	0
Lead (10 - will apply 25.12.2013)	B007B	10 µg Pb/l	512	1	< 0.1	6.187	1
Mercury (Total)	B005	1 µg Hg/l	513	0	< 0.05	< 0.05	0
Nickel (Total)	B006A	20 µg Ni/l	512	0	< 2	7.87	0
Nitrate (Total)	A012	50 mg NO ₃ /l	516	0	< 0.885	44.6153	0
Nitrite - Consumer's Taps	A013A	0.5 mg NO ₂ /l	516	0	< 0.01	< 0.01	0
Nitrite/Nitrate formula	A013C	1 mg NO ₂ /l	515	0	< 0.1	0.2	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	97	0	0	0.017	0
Pesticides 2,4-D	P020	0.1 µg/l	12	0	< 0.003	< 0.003	0
Pesticides Atrazine	P004	0.1 µg/l	16	0	0.004	0.007	0
Pesticides Bentazone	P006	0.1 µg/l	33	0	< 0.003	0.019	0
Pesticides Chlortoluron	P014	0.1 µg/l	8	0	< 0.003	< 0.003	0
Pesticides Clopyralid	P018	0.1 µg/l	17	0	< 0.005	0.009	0
Pesticides Dicamba	P025	0.1 µg/l	5	0	< 0.006	< 0.006	0
Pesticides Fluroxypyr	P040	0.1 µg/l	13	0	< 0.005	0.005	0
Pesticides Glyphosate	P042	0.1 µg/l	19	0	< 0.003	< 0.003	0
Pesticides MCPA 4-chloro-o-toloxoacetic acid	P054	0.1 µg/l	25	0	< 0.002	< 0.002	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	20	0	< 0.002	< 0.002	0
Pesticides Metaldehyde	P226	0.1 µg/l	40	0	< 0.003	0.017	0
Pesticides Metamitron	P194	0.1 µg/l	12	0	< 0.002	< 0.002	0
Pesticides Metazachlor	P203	0.1 µg/l	20	0	< 0.003	< 0.003	0
Pesticides Picloram (Total)	P122	0.1 µg/l	13	0	< 0.005	< 0.005	0
Pesticides Quinmerac	P244	0.1 µg/l	29	0	< 0.002	0.008	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	B011F	0.1 µg/l	512	1	0	0.003509	1
Selenium (Total)	B009	10 µg Se/l	513	0	< 0.5	0.986	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	512	0	< 0.0005	< 0.0005	0
Trihalomethanes (Total by Calculation)	D011	100 µg/l	513	0	0	58.0618	0
Totals:			15,812	3			

Table WSX 10: Quality of water at consumer's tap (zones) - National Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of zones failing standard
Aluminium (Total)	A021	200 µg Al/l	1,248	1	< 10	20	1
Colour	A001	20 mg/l Pt/Co scale	1,445	0	< 0.8	2.354	0
Iron (Total)	A022	200 µg Fe/l	1,248	2	< 10	80	2
Manganese (Total)	A023	50 µg Mn/l	1,248	0	< 1	5	0
Odour	A003	0 Dilution number	787	1	0	0	1
Sodium (Total)	A009	200 mg Na/l	512	0	5.452	51	0
Taste (Taste Quant)	A004	0 Dilution number	786	1	0	0	1
Tetrachloromethane (Total)	D008	3 µg/l	512	0	< 0.07	0.1448	0
Turbidity	A002	4 nephelometric turbidity units	1,443	0	< 0.07	0.3456	0
Totals:			9,229	5			

Table WSX 11: Quality of water at consumer's tap (zones) - Additional Monitoring Requirements

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Ammonium (Total)	A014	0.5 mg NH ₄ /l	1,443	0	< 0.0256	0.0769
Chloride	D002A	250 mg Cl/l	512	0	10.13	55.87
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	C004A	0 number/100 ml	15	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	3,625	0	0	0
Colony Counts After 3 Days At 22°C (Colony Counts)	C007	No abnormal change	1,445	-n/a	0	405
Conductivity (Electrical Conductivity)	D001	2500 µS/cm	1,443	0	129.344	723.311
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	A006	6.5 - 9.5 pH Value	1,443	0	7.2	8.2
Residual Disinfectant - Free	C009	No abnormal change	3,625	-n/a	< 0.06	0.58
Residual Disinfectant - Total	C010	No abnormal change	3,625	-n/a	0.11	0.6474
<i>Combined Chlorine/Residual Disinfectant Combined*</i>	<i>-(n/a)</i>	<i>-(n/a)</i>	<i>(3,625)</i>	<i>-n/a</i>	<i>0</i>	<i>0.19</i>
Sulphate	A007	250 mg SO ₄ /l	512	0	5.52	136.87
Total Organic Carbon	A017	No abnormal change	511	-n/a	< 0.42	2.5628
Totals:			18,199	0		

*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters

'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.