

Data Summary Tables for Wessex Water (WSX)

These tables represent a summary of test results from water samples taken by the water company in 2005 and submitted to the Drinking Water Inspectorate.

These tables are published annually by the Inspectorate as part of the Chief Inspector's Report. They are available on the Inspectorate's website at www.dwi.gov.uk

Notes relating to the interpretation of the tables : -

Columns on the following tables that are headed "Maximum" and "Minimum" contain figures for the 1 percentile and 99 percentile sample results 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 June 28th 2006
Drinking Water Inspectorate
55, Whitehall
London
SW1A 2EY

Enquiries : 020 7082 8024

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

Number of treatment works = 96

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Nitrite	0.1 mg NO ₂ /l	1664	0	<0.01	0.023	0
TOTAL	-	1664	0	-	-	-

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

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Coliform Bacteria	0 number/100 ml	11026	7	0	0	7
Cryptosporidium	Oocyst concentration / 10 l	2218	0	<0.01	0.02	0
<i>E. coli</i>	0 number/100 ml	11026	1	0	0	1
TOTAL	-	24270	8	-	-	-

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

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Colony Counts After 3 Days At 22°C	No abnormal change	11007	0	0	102
Colony Counts After 48 Hours At 37°C	No abnormal change	10919	0	0	15
Residual Disinfectant - Free	No abnormal change	11040	0	0.13	0.87
Residual Disinfectant - Total	No abnormal change	11037	0	0.18	1
Turbidity	1 NTU	10989	10	<0.25	0.52
TOTAL	-	54992	10	-	-

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

Number of service reservoirs = 323

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	0 number/100 ml	16082	14	0	0	0*
<i>E. coli</i>	0 number/100 ml	16082	0	0	0	0
TOTAL	-	32164	14	-	-	-

* R15200350 Weston Tank Outlet, R69025050 HENDFORD SERVICE RESERVOIR breach(es) regulation 14 for an unjustified sampling shortfall

It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R15200350 Weston Tank Outlet

It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R33904000 Lamberts Hill Res

It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R33982100 ASHMORE SERVICE RESERVOIR (NEW)

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

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Minimum	Maximum
Colony Counts After 3 Days At 22°C	No abnormal change	16046	0	464
Colony Counts After 48 Hours At 37°C	No abnormal change	16036	0	32
Residual Disinfectant - Free	No abnormal change	16071	0.05	0.55
Residual Disinfectant - Total	No abnormal change	16064	0.1	0.64
TOTAL	-	64217	-	-

Table WSX 6: Quality of water leaving bulk supply points - Additional Monitoring Requirements

Number of supply points = 0

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
<i>Clostridium perfringens</i>	0 number/100 ml	858	0	0	0
TOTAL	-	858	0	-	-

Table WSX 7: Quality of water at consumer's tap (zones) - European Standards

Number of zones = 102

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
1,2 Dichloroethane	3 µg/l	604	0	<0.08	<0.12	0
Antimony	5 µg Sb/l	790	1	<1	<1	1
Arsenic	10 µg As/l	790	0	<1	1.2	0
Benzene	1 µg/l	604	0	<0.06	<0.15	0
Benzo (a) Pyrene	0.01 µg/l	678	0	<0.0004	0.0008	0
Boron	1 mg B/l	790	0	<0.02	0.11645	0
Bromate	10 µg BrO ₃ /l	608	0	<0.5	1.9	0
Cadmium	5 µg Cd/l	1233	0	<0.1	0.1466	0
Chromium	50 µg Cr/l	790	0	<5	8.009	0
Copper	2 mg Cu/l	1056	0	<0.01	0.28	0
Cyanide	50 µg CN/l	601	0	<0.4	<2	0
<i>E. coli</i>	0 number/100 ml	4635	0	0	0	0
Enterococci	0 number/100 ml	651	1	0	0	1
Fluoride	1.5 mg F/l	608	0	<0.05	0.7291	0
Lead	25 µg Pb/l	749	1	<1	7.35	1
Mercury	1 µg Hg/l	684	0	<0.02	0.12	0
Nickel	20 µg Ni/l	790	1	<1	6.117	1
Nitrate	50 mg NO ₃ /l	770	0	<0.885	38.1546	0
Nitrite	0.5 mg NO ₂ /l	814	0	<0.01	0.025	0
Nitrate/Nitrite Formula	≤ 1	773	0	<0.1	0.2	0
Polycyclic aromatic hydrocarbons (PAHs)	0.1 µg/l	678	0	0	0.002963	0
Selenium	10 µg Se/l	683	0	<0.2	0.24	0
Tetrachloroethene/Trichloroethene	10 µg/l	776	0	<0.5	0.8	0
Trihalomethanes (THMs)	100 µg/l	780	0	0	69.4277	0
Pesticides (2,4-D)	0.1 µg/l	18	0	<0.003	<0.004	0
Pesticides (Aldrin)	0.03 µg/l	701	0	<0.003	<0.003	0
Pesticides (Alpha-HCH)	0.1 µg/l	701	0	<0.003	<0.003	0
Pesticides (Atrazine)	0.1 µg/l	750	0	<0.005	0.034	0
Pesticides (Chlortoluron)	0.1 µg/l	750	0	<0.007	0.016	0
Pesticides (Dicamba)	0.1 µg/l	764	0	<0.006	0.01	0
Pesticides (Dieldrin)	0.03 µg/l	701	0	<0.003	<0.003	0
Pesticides (Diuron)	0.1 µg/l	750	0	<0.005	<0.005	0
Pesticides (Gamma-HCH (Lindane))	0.1 µg/l	701	0	<0.003	<0.003	0
Pesticides (Heptachlor)	0.03 µg/l	701	0	<0.003	<0.003	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	701	0	<0.003	<0.003	0

Pesticides (Isoproturon)	0.1 µg/l	750	1	<0.007	<0.007	1
Pesticides (Linuron)	0.1 µg/l	750	0	<0.006	<0.006	0
Pesticides (MCPA)	0.1 µg/l	764	0	<0.002	0.01	0
Pesticides (MCPP(Mecoprop))	0.1 µg/l	792	0	<0.002	0.008	0
Pesticides (Methabenzthiazuron)	0.1 µg/l	40	0	<0.007	<0.007	0
Pesticides (Metribuzin)	0.1 µg/l	8	0	<0.007	<0.007	0
Pesticides (pp-DDT)	0.1 µg/l	701	0	<0.002	<0.002	0
Pesticides (Prometryn)	0.1 µg/l	750	0	<0.008	<0.008	0
Pesticides (Propazine)	0.1 µg/l	750	0	<0.003	<0.003	0
Pesticides (Simazine)	0.1 µg/l	750	0	<0.007	0.029	0
Pesticides (Terbutryn)	0.1 µg/l	22	0	<0.009	<0.009	0
Pesticides (Tri-allate)	0.1 µg/l	701	0	<0.003	<0.003	0
Pesticides (Trichlopyr)	0.1 µg/l	7	0	<0.005	<0.005	0
Pesticides (Trietazine)	0.1 µg/l	22	0	<0.003	0.007	0
Pesticides - Total Substances	0.5 µg/l	985	0	0	0.046	0
TOTAL	-	36965	5	-	-	-

Table WSX 8: Quality of water at consumer's tap (zones) - National Standards

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
Aluminium	200 µg Al/l	2327	4	<10	100	4
Colour	20 mg/l Pt/Co scale	1923	0	<2	4.76	0
Hydrogen ion (pH)	6.5 - 10 pH value	4516	5	7	8.4	3
Iron	200 µg Fe/l	3590	18	<10	130	14
Manganese	50 µg Mn/l	3945	3	<5	13	3
Organoleptic Odour	Dilution No. 3 at 25°C	945	0	0	<1.08	0
Organoleptic Taste	Dilution No. 3 at 25°C	941	0	0	<1.16	0
Sodium	200 mg Na/l	3886	0	6	49.5	0
Tetrachloromethane	3 µg/l	780	0	<0.1	0.104	0
Turbidity	4 NTU	4516	1	<0.25	0.66	1
TOTAL	-	27369	31	-	-	-

Table WSX 9: Quality of water at consumer's tap (zones) - Additional Monitoring Requirements

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Ammonium	0.5 mg NH ₄ /l	4220	0	<0.013	0.028
Chloride	250 mg Cl/l	972	0	10.946	65.451
<i>Clostridium perfringens</i>	0 number/100 ml	1156	1	0	0
Coliform Bacteria	0 number/100 ml	4635	14	0	0
Colony Counts After 3 Days At 22°C	No abnormal change	4599	0	0	162
Colony Counts After 48 Hours At 37°C	No abnormal change	4585	0	0	29
Conductivity	2500 µS/cm	4516	0	85.023	722.696
Hydrogen ion (pH)	9.5 pH Value	4516	0	7	8.4
Radioactivity - Gross Alpha	0.1 Bq/l	26	1	<0.02	0.194
Radioactivity - Gross Beta	1 Bq/l	25	0	0.009	0.31
Radioactivity - Tritium	100 Bq/l	14	0	<3	5.2
Residual Disinfectant - Free	No abnormal change	4712	0	0.02	0.45
Residual Disinfectant - Total	No abnormal change	4709	0	0.05	0.53
Sulphate	250 mg SO ₄ /l	969	0	<5	113.92
Total Organic Carbon (TOC)	No abnormal change	600	0	<0.5	3.796
TOTAL	-	40254	16	-	-