

Data Summary Tables for Mid Kent Water (MKT)

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.

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

Number of treatment works = 30

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	239	0	<0.01	0.021	0
TOTAL	-	239	0	-	-	-

Table MKT 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	2622	2	0	0	2
<i>E. coli</i>	0 number/100 ml	2622	0	0	0	0
TOTAL	-	5244	2	-	-	-

Table MKT 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	2622	0	0	14
Colony Counts After 48 Hours At 37°C	No abnormal change	2622	0	0	7
Residual Disinfectant - Total	No abnormal change	2622	0	0.07	0.65
Turbidity	1 NTU	3024	10	<0.11	0.6
TOTAL	-	10890	10	-	-

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

Number of service reservoirs = 63

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	0 number/100 ml	3143	4	0	0	0*
<i>E. coli</i>	0 number/100 ml	3144	0	0	0	0
TOTAL	-	6287	4	-	-	-

* R543T01 Hollingbourne Res. 1, R543T02 Hollingbourne Res. 2, R559T01 Paddock Wood Res. 1 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 R572T01 Stocks Res. 1
 It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R591T01 Ford Reservoir

Table MKT 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	3144	0	>300
Colony Counts After 48 Hours At 37°C	No abnormal change	3144	0	86
Residual Disinfectant - Total	No abnormal change	3144	0.04	0.37
TOTAL	-	9432	-	-

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

Number of supply points = 12

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
Pesticides (2,4,5-T)	0.1 µg/l	97	0	<0.01	<0.01	0
Pesticides (2,4-D)	0.1 µg/l	97	0	<0.01	0.03	0
Pesticides (Aldrin)	0.03 µg/l	96	0	<0.003	<0.003	0
Pesticides (Alpha-HCH)	0.1 µg/l	96	0	<0.01	<0.01	0
Pesticides (Atrazine)	0.1 µg/l	98	0	<0.01	0.04	0
Pesticides (Bentazone)	0.1 µg/l	97	0	<0.01	<0.01	0
Pesticides (Beta-HCH)	0.1 µg/l	96	0	<0.01	<0.01	0
Pesticides (Bromoxynil)	0.1 µg/l	97	0	<0.01	<0.01	0
Pesticides (Chlorothalonil)	0.1 µg/l	96	0	<0.01	<0.01	0
Pesticides (Chlortoluron)	0.1 µg/l	98	0	<0.01	0.04	0
Pesticides (Delta-HCH)	0.1 µg/l	96	0	<0.01	0.02	0
Pesticides (Dicamba)	0.1 µg/l	97	0	<0.01	<0.01	0
Pesticides (Dichlobenil)	0.1 µg/l	96	0	<0.01	0.03	0
Pesticides (Dichlorprop)	0.1 µg/l	97	0	<0.01	<0.01	0
Pesticides (Dieldrin)	0.03 µg/l	96	0	<0.003	<0.003	0
Pesticides (Diuron)	0.1 µg/l	98	0	<0.01	0.04	0
Pesticides (Endosulfan A (alpha-Endosulfan))	0.1 µg/l	96	0	<0.01	<0.01	0
Pesticides (Endosulfan B (beta-Endosulfan))	0.1 µg/l	96	0	<0.01	<0.01	0
Pesticides (Endrin)	0.1 µg/l	96	0	<0.01	<0.01	0
Pesticides (Fluroxypyr)	0.1 µg/l	97	0	<0.01	<0.01	0
Pesticides (Flutriafol)	0.1 µg/l	98	0	<0.01	0.06	0
Pesticides (Gamma-HCH (Lindane))	0.1 µg/l	96	0	<0.01	<0.01	0
Pesticides (Heptachlor)	0.03 µg/l	96	0	<0.004	<0.004	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	96	0	<0.002	<0.002	0
Pesticides (Hexachlorobenzene)	0.1 µg/l	96	0	<0.01	<0.01	0
Pesticides (Isoproturon)	0.1 µg/l	98	0	<0.01	0.05	0
Pesticides (Linuron)	0.1 µg/l	98	0	<0.01	<0.01	0
Pesticides (MCPA)	0.1 µg/l	97	0	<0.01	0.04	0
Pesticides (MCPB)	0.1 µg/l	97	0	<0.01	<0.01	0
Pesticides (MCPP(Mecoprop))	0.1 µg/l	97	0	<0.01	0.03	0
Pesticides (Methabenzthiazuron)	0.1 µg/l	98	0	<0.01	<0.01	0
Pesticides (Monuron)	0.1 µg/l	98	0	<0.01	<0.01	0
Pesticides (op-DDD (TDE))	0.1 µg/l	96	0	<0.01	<0.01	0
Pesticides (op-DDT)	0.1 µg/l	96	0	<0.01	0.01	0
Pesticides (Oxadixyl)	0.1 µg/l	98	0	<0.01	<0.01	0
Pesticides (Pentachlorophenol)	0.1 µg/l	97	0	<0.01	<0.01	0

Pesticides (Permethrin)	0.1 µg/l	96	0	<0.01	<0.01	0
Pesticides (pp-DDD (TDE))	0.1 µg/l	96	0	<0.01	<0.01	0
Pesticides (pp-DDE)	0.1 µg/l	96	0	<0.01	<0.01	0
Pesticides (pp-DDT)	0.1 µg/l	96	0	<0.01	<0.01	0
Pesticides (Prometryn)	0.1 µg/l	98	0	<0.01	<0.01	0
Pesticides (Propazine)	0.1 µg/l	98	0	<0.01	<0.01	0
Pesticides (Propyzamide)	0.1 µg/l	98	0	<0.01	0.02	0
Pesticides (Simazine)	0.1 µg/l	98	0	<0.01	0.1	0
Pesticides (Terbutryn)	0.1 µg/l	98	0	<0.01	0.01	0
Pesticides (Trichlopyr)	0.1 µg/l	97	0	<0.01	0.03	0
Pesticides (Trietazine)	0.1 µg/l	98	0	<0.01	<0.01	0
Pesticides (Trifluralin)	0.1 µg/l	96	0	<0.01	<0.01	0
Pesticides - Total Substances	0.5 µg/l	388	0	0	0.111	0
TOTAL	-	5038	0	-	-	-

Table MKT 7: Quality of water leaving bulk supply points - Additional Monitoring Requirements

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
<i>Clostridium perfringens</i>	0 number/100 ml	26	0	0	0
Radioactivity - Gross Alpha	0.1 Bq/l	102	0	<0.1	<0.1
Radioactivity - Gross Beta	1 Bq/l	102	0	<1	<1
Radioactivity - Tritium	100 Bq/l	102	0	<40	<40
TOTAL	-	332	0	-	-

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

Number of zones = 16

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
1,2 Dichloroethane	3 µg/l	134	0	<0.1	<0.1	0
Antimony	5 µg Sb/l	132	0	<0.5	2.469	0
Arsenic	10 µg As/l	131	0	<1	1.1	0
Benzene	1 µg/l	134	0	<0.1	<0.165	0
Benzo (a) Pyrene	0.01 µg/l	129	0	<0.001	0.002	0
Boron	1 mg B/l	130	0	<0.026	0.253	0
Bromate	10 µg BrO ₃ /l	129	0	<1	<1.189	0
Cadmium	5 µg Cd/l	131	0	<0.2	<0.2	0
Chromium	50 µg Cr/l	131	0	<1	19.872	0
Copper	2 mg Cu/l	130	0	<0.004	0.361	0
Cyanide	50 µg CN/l	128	0	<5	<5	0
<i>E. coli</i>	0 number/100 ml	1497	0	0	0	0
Enterococci	0 number/100 ml	128	0	0	0	0
Fluoride	1.5 mg F/l	130	0	0.071	0.71	0
Lead	25 µg Pb/l	135	0	<0.5	4.148	0
Mercury	1 µg Hg/l	129	0	<0.05	<0.064	0
Nickel	20 µg Ni/l	129	0	<2	15.4	0
Nitrate	50 mg NO ₃ /l	128	0	0.629	42.291	0
Nitrite	0.5 mg NO ₂ /l	133	0	<0.01	0.041	0
Nitrate/Nitrite Formula	≤ 1	127	0	0.013	0.851	0
Polycyclic aromatic hydrocarbons (PAHs)	0.1 µg/l	129	0	0	0.007	0
Selenium	10 µg Se/l	128	0	<1	5.84	0
Tetrachloroethene/Trichloroethene	10 µg/l	134	0	0	0.287	0
Trihalomethanes (THMs)	100 µg/l	134	0	0.084	87.664	0
Pesticides (2,4,5-T)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (2,4-D)	0.1 µg/l	32	0	<0.01	0.01	0
Pesticides (Aldrin)	0.03 µg/l	32	0	<0.003	<0.003	0
Pesticides (Alpha-HCH)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Atrazine)	0.1 µg/l	33	0	<0.01	0.01	0
Pesticides (Bentazone)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Beta-HCH)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Bromoxynil)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Chlorothalonil)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Chlortoluron)	0.1 µg/l	34	0	<0.01	<0.01	0
Pesticides (Delta-HCH)	0.1 µg/l	32	0	<0.01	0.02	0

Pesticides (Dicamba)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Dichlobenil)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Dichlorprop)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Dieldrin)	0.03 µg/l	32	0	<0.003	<0.003	0
Pesticides (Diuron)	0.1 µg/l	34	0	<0.01	<0.01	0
Pesticides (Endosulfan A (alpha-Endosulfan))	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Endosulfan B (beta-Endosulfan))	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Endrin)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Fluroxypyr)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Flutriafol)	0.1 µg/l	33	0	<0.01	0.06	0
Pesticides (Gamma-HCH (Lindane))	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Heptachlor)	0.03 µg/l	32	0	<0.004	<0.004	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	32	0	<0.002	<0.002	0
Pesticides (Hexachlorobenzene)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Isoproturon)	0.1 µg/l	34	0	<0.01	<0.01	0
Pesticides (Linuron)	0.1 µg/l	34	0	<0.01	<0.01	0
Pesticides (MCPA)	0.1 µg/l	32	0	<0.01	0.01	0
Pesticides (MCPB)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (MCPP(Mecoprop))	0.1 µg/l	32	0	<0.01	0.01	0
Pesticides (Methabenzthiazuron)	0.1 µg/l	34	0	<0.01	<0.01	0
Pesticides (Monuron)	0.1 µg/l	34	0	<0.01	0.01	0
Pesticides (op-DDD (TDE))	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (op-DDT)	0.1 µg/l	32	0	<0.01	0.01	0
Pesticides (Oxadixyl)	0.1 µg/l	33	0	<0.01	<0.01	0
Pesticides (Pentachlorophenol)	0.1 µg/l	32	0	<0.01	0.01	0
Pesticides (Permethrin)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (pp-DDD (TDE))	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (pp-DDE)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (pp-DDT)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Prometryn)	0.1 µg/l	33	0	<0.01	<0.01	0
Pesticides (Propazine)	0.1 µg/l	33	0	<0.01	<0.01	0
Pesticides (Propyzamide)	0.1 µg/l	33	0	<0.01	<0.01	0
Pesticides (Simazine)	0.1 µg/l	33	0	<0.01	0.04	0
Pesticides (Terbutryn)	0.1 µg/l	33	0	<0.01	0.01	0
Pesticides (Trichlopyr)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Trietazine)	0.1 µg/l	33	0	<0.01	<0.01	0
Pesticides (Trifluralin)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides - Total Substances	0.5 µg/l	131	0	0	0.097	0
TOTAL	-	6188	0	-	-	-

Table MKT 9: 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	159	0	<5	40	0
Colour	20 mg/l Pt/Co scale	285	0	<0.9	4.128	0
Hydrogen ion (pH)	6.5 - 10 pH value	288	0	7.1	8.411	0
Iron	200 µg Fe/l	300	0	<13	128.91	0
Manganese	50 µg Mn/l	204	0	<1	4	0
Organoleptic Odour	Dilution No. 3 at 25°C	284	0	0	0.15	0
Organoleptic Taste	Dilution No. 3 at 25°C	284	0	0	0	0
Sodium	200 mg Na/l	132	0	8.33	155.04	0
Tetrachloromethane	3 µg/l	134	0	<0.3	<0.3	0
Turbidity	4 NTU	557	0	<0.11	0.728	0
TOTAL	-	2627	0	-	-	-

Table MKT 10: 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	285	0	<0.02	0.0514
Chloride	250 mg Cl/l	130	0	11.86	91.28
<i>Clostridium perfringens</i>	0 number/100 ml	217	0	0	0
Coliform Bacteria	0 number/100 ml	1494	6	0	0
Colony Counts After 3 Days At 22°C	No abnormal change	570	0	0	233
Colony Counts After 48 Hours At 37°C	No abnormal change	570	0	0	116
Conductivity	2500 µS/cm	286	0	363.62	829.65
Hydrogen ion (pH)	9.5 pH Value	288	0	7.1	8.411
Radioactivity - Gross Alpha	0.1 Bq/l	35	0	<0.1	<0.1
Radioactivity - Gross Beta	1 Bq/l	35	0	<1	<1
Radioactivity - Tritium	100 Bq/l	35	0	<40	<40
Residual Disinfectant - Total	No abnormal change	1498	0	<0.04	0.54
Sulphate	250 mg SO ₄ /l	128	0	4.29	93.55
Total Organic Carbon (TOC)	No abnormal change	131	0	<0.232	3.836
TOTAL	-	5702	6	-	-