

Data summary tables for Sutton and East Surrey Water (SES)

These tables contain a summary of results of monitoring undertaken by the water company in 2016 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 2016*.

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.

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Site Summary Data for Sutton And East Surrey Water Plc

Report Date Range: For the whole year 2016

Table SES 1: Quality of water leaving service 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 (Works)	A013B	0.1 mg NO ₂ /l	658	0	< 0.003	0.003	0
Totals:			658	0			

Table SES 2: Quality of water leaving service 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
Coliform Bacteria	C001	0 number/100 ml	2,097	0	0	0	0
E coli	C002	0 number/100 ml	2,097	0	0	0	0
Totals:			4,194	0			

Table SES 3: Quality of water leaving service 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 22°C (Indicator)	C007	No abnormal change	2,097	-n/a	0	2
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	2,097	-n/a	0	2
Residual Disinfectant - Total	C010	No abnormal change	2,097	-n/a	0.2098	1.08
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	2,097	0	< 0.04	0.19
Totals:			8,388	0		

Table SES 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
Coliform Bacteria	C001	0 number/100 ml	1,652	2	0	0	0
E coli	C002	0 number/100 ml	1,652	1	0	0	1
Totals:			3,304	3			

Table SES 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 22°C (Indicator)	C007	No abnormal change	1,652	-n/a	0	> 2000
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	1,652	-n/a	0	33
Residual Disinfectant - Total	C010	No abnormal change	1,652	-n/a	< 0.04	0.82
Totals:			4,956	0		

Table SES 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
Bromate	F003	10 µg BrO ₃ /l	55	0	< 0.4	< 0.4	0
Cyanide	B003	50 µg CN/l	55	0	< 2	< 2	0
Fluoride	A027	1.5 mg F/l	55	0	< 0.06	0.21	0
Mercury	B005	1 µg Hg/l	55	0	< 0.02	< 0.09	0
Pesticides - Total Substances	B010	0.5 µg/l	55	0	0	0.071	0
Pesticides 2,4-D	P020	0.1 µg/l	8	0	< 0.003	0.005	0
Pesticides Atrazine	P004	0.1 µg/l	55	0	< 0.002	0.04	0
Pesticides Azoxystrobin	P227	0.1 µg/l	55	0	< 0.007	0.01	0
Pesticides Boscalid	P231	0.1 µg/l	55	0	< 0.005	< 0.005	0
Pesticides Bromoxynil	P008	0.1 µg/l	8	0	< 0.003	< 0.007	0
Pesticides Carbendazim	P150	0.1 µg/l	55	0	< 0.002	< 0.002	0
Pesticides Carbetamide	P010	0.1 µg/l	55	0	< 0.002	0.003	0
Pesticides Chlortoluron	P014	0.1 µg/l	55	0	< 0.002	< 0.002	0
Pesticides Clopyralid	P018	0.1 µg/l	8	0	< 0.01	0.017	0
Pesticides Diflufenican	P157	0.1 µg/l	55	0	< 0.003	< 0.003	0
Pesticides Dimethenamid	P245	0.1 µg/l	55	0	< 0.003	< 0.003	0
Pesticides Diuron	P032	0.1 µg/l	55	0	< 0.003	0.004	0
Pesticides Epoxyconazole	P217	0.1 µg/l	55	0	< 0.004	< 0.004	0
Pesticides Flufenacet	P230	0.1 µg/l	55	0	< 0.003	< 0.003	0
Pesticides Fluroxypyr	P040	0.1 µg/l	8	0	< 0.004	< 0.008	0
Pesticides Flutriafol	P039	0.1 µg/l	55	0	< 0.002	< 0.002	0
Pesticides Isoproturon	P048	0.1 µg/l	55	0	< 0.003	< 0.003	0
Pesticides MCPA	P054	0.1 µg/l	8	0	< 0.002	< 0.005	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	8	0	< 0.002	< 0.002	0
Pesticides Metaldehyde	P226	0.1 µg/l	25	0	0.005	0.043	0
Pesticides Metazachlor	P203	0.1 µg/l	55	0	< 0.001	< 0.001	0
Pesticides Methabenzthiazuron	P167	0.1 µg/l	55	0	< 0.001	< 0.001	0
Pesticides Pendimethalin	P118	0.1 µg/l	55	0	< 0.007	< 0.01	0
Pesticides Propyzamide	P071	0.1 µg/l	55	0	< 0.001	0.006	0
Pesticides Prosulfocarb	P243	0.1 µg/l	55	0	< 0.001	< 0.001	0
Pesticides Quinmerac	P244	0.1 µg/l	8	0	< 0.003	0.005	0
Pesticides Simazine	P073	0.1 µg/l	55	0	< 0.004	0.031	0
Pesticides Tebuconazole	P177	0.1 µg/l	55	0	< 0.002	< 0.002	0
Pesticides Tri-allate	P079	0.1 µg/l	55	0	< 0.005	< 0.005	0
Pesticides Trichlopyr	P131	0.1 µg/l	8	0	< 0.005	< 0.005	0
Radon	F031	100 Bq/l	20	0	< 10	< 10	0
Totals:			1,539	0			

Table SES 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)
Chloride (Indicator)	D002A	250 mg Cl/l	55	0	21.9	49
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	167	0	0	0
Conductivity (Indicator)	D001	2500 µS/cm	338	0	300.39	584.83
Gross Alpha Activity	F004	0.1 Bq/l	8	0	0.03	0.096
Gross Beta Activity	F005	1 Bq/l	8	0	0.115	< 0.28
Sulphate (Indicator)	A007	250 mg SO ₄ /l	55	0	15.8	92.7
Total organic carbon (indicator)	A017	No abnormal change	55	-n/a	0.25	3.36
Totals:			686	0		

Table SES 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	F001	3 µg/l	160	0	< 0.04	< 0.17	0
Antimony	B008A	5 µg Sb/l	160	0	< 0.02	0.4346	0
Arsenic	B001A	10 µg As/l	160	0	< 0.04	1.0007	0
Benzene	F002	1 µg/l	160	0	< 0.01	< 0.1	0
Benzo (a) Pyrene	D007	0.01 µg/l	160	0	< 0.001	0.00239	0
Boron	D005A	1 mg B/l	160	0	0.02005	0.06195	0
Cadmium	B002	5 µg Cd/l	160	0	< 0.01	0.0339	0
Chromium	B004	50 µg Cr/l	160	0	< 0.1	1.556	0
Copper	A024A	2 mg Cu/l	160	0	< 0.001	0.22524	0
E coli	C002	0 number/100 ml	1,788	0	0	0	0
Enterococci	C003	0 number/100 ml	160	0	0	0	0
Lead (>10 µg/l)	B007B	10 µg Pb/l	160	0	< 0.2	9.3	0
Nickel	B006A	20 µg Ni/l	160	1	0.561	31.821	1
Nitrate	A012	50 mg NO3/l	656	0	0.9	36.543	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	656	0	0	0.7	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	660	0	< 0.003	0.22873	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	160	0	0	0.00917	0
Selenium	B009	10 µg Se/l	160	0	< 0.35	1.6617	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	160	0	0	3.768	0
Total Trihalomethanes	D011	100 µg/l	160	0	0	44.39	0
Totals:			6,320	1			

Table SES 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	A021	200 µg Al/l	255	0	< 4	57.52	0
Colour	A001	20 mg/l Pt/Co scale	328	0	< 0.8	1.771	0
Iron	A022	200 µg Fe/l	349	1	2	76	1
Manganese	A023	50 µg Mn/l	228	0	< 1.2	5.978	0
Organoleptic Odour	A003	0 Dilution number	329	0	0	0	0
Organoleptic Taste	A004	0 Dilution number	329	0	0	0	0
Sodium	A009	200 mg Na/l	160	0	11.922	24.195	0
Tetrachloromethane	D008	3 µg/l	160	0	< 0.04	< 0.1385	0
Turbidity	A002	4 nephelometric turbidity units	328	0	0.05	0.4384	0
Totals:			2,466	1			

Table SES 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 (Indicator)	A014	0.5 mg NH ₄ /l	390	0	< 0.02	0.22
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	1,788	0	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	656	-n/a	0	1118
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	656	-n/a	0	88
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	328	0	7.3	8
Residual Disinfectant - Total	C010	No abnormal change	1,788	-n/a	< 0.04	0.8111
Totals:			5,606	0		