

## **Data summary tables for Scottish and Southern Energy (SSE)**

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.

Published 13 July 2017  
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Site Summary Data for Scottish and Southern Energy

Report Date Range: For the whole year 2016

**Table SSE 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	81	0	< 0.07	< 0.1	0
Antimony	B008A	5 µg Sb/l	81	0	< 0.033	0.484	0
Arsenic	B001A	10 µg As/l	81	0	0.17	1.49	0
Benzene	F002	1 µg/l	81	0	< 0.02	< 0.07	0
Benzo (a) Pyrene	D007	0.01 µg/l	81	0	< 0.00022	< 0.00044	0
Boron	D005A	1 mg B/l	81	0	0.0064	0.0782	0
Bromate	F003	10 µg BrO3/l	81	0	< 0.1	2.9	0
Cadmium	B002	5 µg Cd/l	81	0	< 0.006	0.025	0
Chromium	B004	50 µg Cr/l	81	0	0.24	0.74	0
Copper	A024A	2 mg Cu/l	81	0	< 0.0006	0.705	0
Cyanide	B003	50 µg CN/l	81	0	< 0.7	5.3	0
E coli	C002	0 number/100 ml	241	0	0	0	0
Enterococci	C003	0 number/100 ml	81	0	0	0	0
Fluoride	A027	1.5 mg F/l	81	0	0.02	0.26	0
Lead (>10 µg/l)	B007B	10 µg Pb/l	81	0	< 0.03	1.02	0
Mercury	B005	1 µg Hg/l	81	0	< 0.02	< 0.05	0
Nickel	B006A	20 µg Ni/l	81	0	< 0.13	11.7	0
Nitrate	A012	50 mg NO3/l	81	0	2.28	45	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	81	0	0.05	0.9	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	81	0	< 0.002	0.181	0
Pesticides - Total Substances	B010	0.5 µg/l	102	0	0	0.14631	0
Pesticides 2,3,6-Tba	P074	0.1 µg/l	101	0	< 0.005	< 0.006	0
Pesticides 2,4,5-T	P076	0.1 µg/l	101	0	< 0.003	< 0.009	0
Pesticides 2,4,-Db	P082	0.1 µg/l	101	0	< 0.005	< 0.007	0
Pesticides 2,4-D	P020	0.1 µg/l	101	0	< 0.004	0.00898	0
Pesticides Aldrin	P002	0.03 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Alpha-HCH	P003	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Asulam	P133	0.1 µg/l	101	0	< 0.003	< 0.004	0
Pesticides Atrazine	P004	0.1 µg/l	95	0	< 0.001	0.029	0
Pesticides Benazolin	P138	0.1 µg/l	101	0	< 0.003	< 0.005	0
Pesticides Bentazone	P006	0.1 µg/l	101	0	< 0.002	0.00598	0
Pesticides Beta-HCH	P007	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Bromacil	P086	0.1 µg/l	95	0	< 0.003	< 0.015	0
Pesticides Bromoxynil	P008	0.1 µg/l	101	0	< 0.004	< 0.006	0
Pesticides Carbaryl	P009	0.1 µg/l	95	0	< 0.002	< 0.015	0
Pesticides Carbetamide	P010	0.1 µg/l	95	0	< 0.002	< 0.01	0

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
Pesticides Carbophenothion	P011	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Chlorbufam	P088	0.1 µg/l	95	0	< 0.005	< 0.035	0
Pesticides Chlordane-Alpha	P089	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Chloridazon	P162	0.1 µg/l	95	0	< 0.003	< 0.015	0
Pesticides Chlorothalonil	P015	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Chlorpropham	P016	0.1 µg/l	95	0	< 0.003	< 0.015	0
Pesticides Chlorpyrifos	P017	0.1 µg/l	95	0	< 0.002	< 0.01	0
Pesticides Chlorpyrifos Methyl	P019	0.1 µg/l	89	0	< 0.002	< 0.01	0
Pesticides Chlortoluron	P014	0.1 µg/l	93	0	< 0.002	< 0.015	0
Pesticides Clopyralid	P018	0.1 µg/l	101	0	< 0.005	0.03696	0
Pesticides Cyanazine	P092	0.1 µg/l	93	0	< 0.002	< 0.01	0
Pesticides Cyfluthrin	P093	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Cypermethrin	P094	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Cyproconazole	P207	0.1 µg/l	81	0	< 0.002	< 0.01	0
Pesticides Delta-HCH	P022	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Deltamethrin	P095	0.1 µg/l	21	0	< 0.002	< 0.01	0
Pesticides Diazinon	P024	0.1 µg/l	81	0	< 0.001	0.006	0
Pesticides Dicamba	P025	0.1 µg/l	101	0	< 0.005	< 0.006	0
Pesticides Dichlobenil	P098	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Dichlorprop	P026	0.1 µg/l	101	0	< 0.003	< 0.005	0
Pesticides Dieldrin	P028	0.03 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Diflufenican	P157	0.1 µg/l	93	0	< 0.002	< 0.01	0
Pesticides Diuron	P032	0.1 µg/l	95	0	< 0.003	< 0.015	0
Pesticides Endosulfan A (alpha-Endosulfan)	P101	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Endosulfan B (beta-Endosulfan)	P102	0.1 µg/l	20	0	< 0.002	< 0.002	0
Pesticides Endrin	P034	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Epoxyconazole	P217	0.1 µg/l	95	0	< 0.002	< 0.01	0
Pesticides EPTC	P035	0.1 µg/l	95	0	< 0.004	< 0.02	0
Pesticides Fenitrothion	P036	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Fenoprop	P105	0.1 µg/l	101	0	< 0.003	< 0.003	0
Pesticides Fenvalerate	P158	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Fluroxypyr	P040	0.1 µg/l	101	0	< 0.003	0.00598	0
Pesticides Flusilazole	P159	0.1 µg/l	95	0	< 0.002	< 0.01	0
Pesticides Flutriafol	P039	0.1 µg/l	95	0	< 0.002	< 0.01	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Heptachlor	P043	0.03 µg/l	20	0	< 0.001	< 0.001	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	21	0	< 0.001	< 0.01	0
Pesticides Hexachlorobenzene	P045	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Hexachlorobutadiene	P108	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Imazapyr	P160	0.1 µg/l	101	0	< 0.002	< 0.002	0
Pesticides Ioxynil	P049	0.1 µg/l	101	0	< 0.003	< 0.003	0
Pesticides Isodrin	P047	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Isoproturon	P048	0.1 µg/l	95	0	< 0.002	< 0.01	0
Pesticides Kresoxym-Methyl	P218	0.1 µg/l	93	0	< 0.004	< 0.02	0
Pesticides Linuron	P051	0.1 µg/l	95	0	< 0.003	< 0.035	0

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
Pesticides MCPA	P054	0.1 µg/l	101	0	< 0.003	0.0139	0
Pesticides MCPB	P055	0.1 µg/l	101	0	< 0.003	< 0.005	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	101	0	< 0.002	0.00594	0
Pesticides Metalaxyl	P209	0.1 µg/l	95	0	< 0.002	< 0.01	0
Pesticides Metaldehyde	P226	0.1 µg/l	101	0	< 0.005	0.06698	0
Pesticides Metazachlor	P203	0.1 µg/l	93	0	< 0.002	< 0.01	0
Pesticides Methoxychlor	P057	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Monuron	P113	0.1 µg/l	95	0	< 0.002	< 0.01	0
Pesticides op-DDD (TDE)	P114	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides op-DDE	P115	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides op-DDT	P116	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Oxadixyl	P154	0.1 µg/l	93	0	< 0.003	< 0.025	0
Pesticides PCB Congener 101	P195	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides PCB Congener 118	P196	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides PCB Congener 138	P197	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides PCB Congener 153	P198	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides PCB Congener 180	P199	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides PCB Congener 28	P201	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides PCB Congener 52	P202	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Pendimethalin	P118	0.1 µg/l	95	0	< 0.002	< 0.015	0
Pesticides Pentachlorophenol	P060	0.1 µg/l	101	0	< 0.006	< 0.007	0
Pesticides Permethrin-cis	P120	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Permethrin-trans	P121	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Phorate	P061	0.1 µg/l	20	0	< 0.001	< 0.002	0
Pesticides pp-DDD (TDE)	P123	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides pp-DDE	P124	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides pp-DDT	P125	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Propachlor	P126	0.1 µg/l	95	0	< 0.002	< 0.01	0
Pesticides Propham	P067	0.1 µg/l	95	0	< 0.002	< 0.01	0
Pesticides Propiconazole	P068	0.1 µg/l	95	0	< 0.002	< 0.015	0
Pesticides Propyzamide	P071	0.1 µg/l	95	0	< 0.002	< 0.025	0
Pesticides Quinmerac	P244	0.1 µg/l	93	0	< 0.001	0.013	0
Pesticides Simazine	P073	0.1 µg/l	95	0	< 0.001	0.009	0
Pesticides Tecnazene	P130	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Tri-allate	P079	0.1 µg/l	95	0	< 0.003	< 0.02	0
Pesticides Trichlopyr	P131	0.1 µg/l	101	0	< 0.006	< 0.007	0
Pesticides Trichlorobenzene	P172	0.1 µg/l	21	0	< 0.001	< 0.005	0
Pesticides Trietazine	P132	0.1 µg/l	95	0	< 0.002	< 0.01	0
Pesticides Trifluralin	P081	0.1 µg/l	21	0	< 0.001	< 0.005	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	81	0	0	0.002	0
Selenium	B009	10 µg Se/l	81	0	< 0.31	3.27	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	81	0	0	1.17	0
Total Trihalomethanes	D011	100 µg/l	81	0	0.3	50	0
<b>Totals:</b>			<b>8,504</b>	<b>0</b>			

Table SSE 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	81	0	< 0.9	18.7	0
Colour	A001	20 mg/l Pt/Co scale	81	0	< 0.5	2.7	0
Iron	A022	200 µg Fe/l	81	0	< 3.6	26.9	0
Manganese	A023	50 µg Mn/l	81	0	0.33	< 2.6	0
Organoleptic Odour	A003	0 Dilution number	81	0	0	0	0
Organoleptic Taste	A004	0 Dilution number	81	0	0	0	0
Sodium	A009	200 mg Na/l	81	0	5.53	54	0
Tetrachloromethane	D008	3 µg/l	81	0	< 0.02	< 0.14	0
Turbidity	A002	4 nephelometric turbidity units	81	0	< 0.03	0.28	0
<b>Totals:</b>			<b>729</b>	<b>0</b>			

Table SSE 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 <sub>4</sub> /l	81	0	< 0.004	0.234
Chloride (Indicator)	D002A	250 mg Cl/l	81	0	10.5	68.5
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	81	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	241	0	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	81	-n/a	0	> 1000
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	81	-n/a	0	572
Conductivity (Indicator)	D001	2500 µS/cm	81	0	101	744
Gross Alpha Activity	F004	0.1 Bq/l	17	0	< 0.022	0.047
Gross Beta Activity	F005	1 Bq/l	17	0	0.046	0.164
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	81	0	7.01	7.86
Residual Disinfectant - Total	C010	No abnormal change	241	-n/a	0.1484	0.9258
Sulphate (Indicator)	A007	250 mg SO <sub>4</sub> /l	81	0	10.9	111
Total organic carbon (indicator)	A017	No abnormal change	81	-n/a	0.2	3
Tritium (Indicator)	F006	100 Bq/l	17	0	< 5	< 5
<b>Totals:</b>			<b>1,262</b>	<b>0</b>		