

## **Data summary tables for Portsmouth Water Plc (PRT)**

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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Drinking Water Inspectorate  
Area 7e  
9 Millbank  
c/o Nobel House  
17 Smith Square  
London  
SW1P 3JR

Enquiries: 0300 068 6400

Site Summary Data for Portsmouth Water Plc

Report Date Range: For the whole year 2016

**Table PRT 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 <sub>2</sub> /l	190	0	< 0.002	0.01209	0
<b>Totals:</b>			<b>190</b>	<b>0</b>			

**Table PRT 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	1,672	0	0	0	0
E coli	C002	0 number/100 ml	1,672	0	0	0	0
<b>Totals:</b>			<b>3,344</b>	<b>0</b>			

**Table PRT 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	1,206	-n/a	0	7
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	1,206	-n/a	0	5
Residual Disinfectant - Free	C009	No abnormal change	1,674	-n/a	0.24	0.78
Residual Disinfectant - Total	C010	No abnormal change	1,674	-n/a	0.26	0.86
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(1,674)	-n/a	0	0.14
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	1,144	0	0.06	0.17
<b>Totals:</b>			<b>6,904</b>	<b>0</b>		

\*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 PRT 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	1,532	0	0	0	0
E coli	C002	0 number/100 ml	1,532	0	0	0	0
<b>Totals:</b>			<b>3,064</b>	<b>0</b>			

**Table PRT 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	1,524	-n/a	0	82
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	1,524	-n/a	0	16
Residual Disinfectant - Free	C009	No abnormal change	1,532	-n/a	0.11	0.48
Residual Disinfectant - Total	C010	No abnormal change	1,532	-n/a	0.16	0.56
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(1,532)	-n/a	0	0.128
<b>Totals:</b>			<b>6,112</b>	<b>0</b>		

\*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 PRT 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	114	0	< 0.03	< 0.04	0
Antimony	B008A	5 µg Sb/l	114	0	< 0.05	0.461	0
Arsenic	B001A	10 µg As/l	114	0	< 0.5	< 1	0
Benzene	F002	1 µg/l	114	0	< 0.01	< 0.02	0
Benzo (a) Pyrene	D007	0.01 µg/l	109	0	< 0.002	< 0.0038	0
Boron	D005A	1 mg B/l	134	0	< 0.0087	< 0.1	0
Bromate	F003	10 µg BrO3/l	115	0	< 0.4	1.6	0
Cadmium	B002	5 µg Cd/l	134	0	< 0.1	< 0.165	0
Chromium	B004	50 µg Cr/l	134	0	< 0.1	0.43	0
Copper	A024A	2 mg Cu/l	115	0	< 0.1	1.37424	0
Cyanide	B003	50 µg CN/l	114	0	< 2	7.965	0
E coli	C002	0 number/100 ml	1,800	0	0	0	0
Enterococci	C003	0 number/100 ml	134	0	0	0	0
Fluoride	A027	1.5 mg F/l	113	0	< 0.01224	0.49538	0
Lead (>10 µg/l)	B007B	10 µg Pb/l	116	0	< 0.1	5.411	0
Mercury	B005	1 µg Hg/l	134	0	< 0.02	< 0.02	0
Nickel	B006A	20 µg Ni/l	114	0	0.315	14.985	0
Nitrate	A012	50 mg NO3/l	120	0	20.021	45.379	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	120	0	0.40042	0.90837	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	120	0	< 0.002	0.002	0
Pesticides - Total Substances	B010	0.5 µg/l	113	0	0	0.18026	0
Pesticides 2,4-D	P020	0.1 µg/l	106	1	< 0.005	0.17513	1
Pesticides Atrazine	P004	0.1 µg/l	105	0	< 0.005	0.01194	0
Pesticides Bentazone	P006	0.1 µg/l	105	0	< 0.005	< 0.00688	0
Pesticides Chlortoluron	P014	0.1 µg/l	105	0	< 0.005	< 0.005	0
Pesticides Cyproconazole	P207	0.1 µg/l	105	0	< 0.005	< 0.005	0
Pesticides Dicamba	P025	0.1 µg/l	105	0	< 0.005	< 0.01	0
Pesticides Diuron	P032	0.1 µg/l	105	0	< 0.005	< 0.005	0
Pesticides Epoxyconazole	P217	0.1 µg/l	105	0	< 0.005	< 0.005	0
Pesticides Fenpropimorph	P037	0.1 µg/l	105	0	< 0.008	< 0.008	0
Pesticides Fluroxypyr	P040	0.1 µg/l	105	0	< 0.005	< 0.005	0
Pesticides Ioxynil	P049	0.1 µg/l	105	0	< 0.006	< 0.006	0
Pesticides MCPA	P054	0.1 µg/l	105	0	< 0.005	< 0.005	0
Pesticides MCPB	P055	0.1 µg/l	105	0	< 0.005	< 0.005	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	105	0	< 0.005	< 0.005	0
Pesticides Metaldehyde	P226	0.1 µg/l	105	0	< 0.006	0.01094	0
Pesticides Prometryn	P070	0.1 µg/l	105	0	< 0.005	< 0.005	0
Pesticides Propazine	P066	0.1 µg/l	105	0	< 0.005	< 0.005	0
Pesticides Propyzamide	P071	0.1 µg/l	105	0	< 0.009	0.04286	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 Simazine	P073	0.1 µg/l	105	0	< 0.005	0.01782	0
Pesticides Trichlopyr	P131	0.1 µg/l	105	0	< 0.005	< 0.007	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	109	0	0	0.0076	0
Selenium	B009	10 µg Se/l	114	0	< 0.3	4.99445	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	114	0	0	0.0985	0
Total Trihalomethanes	D011	100 µg/l	114	0	0.483	43.02	0
<b>Totals:</b>			<b>6,747</b>	<b>1</b>			

**Table PRT 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	286	0	< 0.5	22.865	0
Colour	A001	20 mg/l Pt/Co scale	311	0	< 1	1.6504	0
Iron	A022	200 µg Fe/l	289	0	0.7	22.52	0
Manganese	A023	50 µg Mn/l	287	0	< 0.1	0.524	0
Organoleptic Odour	A003	0 Dilution number	352	0	0	0	0
Organoleptic Taste	A004	0 Dilution number	427	1	0	0	1
Sodium	A009	200 mg Na/l	134	0	8.735	21.025	0
Tetrachloromethane	D008	3 µg/l	114	0	< 0.04	0.0785	0
Turbidity	A002	4 nephelometric turbidity units	325	0	0.06	0.2496	0
<b>Totals:</b>			<b>2,525</b>	<b>1</b>			

Table PRT 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	329	0	< 0.02	0.027
Chloride (Indicator)	D002A	250 mg Cl/l	134	0	19.605	29.79
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	286	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	1,800	1	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	630	-n/a	0	41
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	630	-n/a	0	49
Conductivity (Indicator)	D001	2500 µS/cm	311	0	488.12	603.76
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	311	0	7.0436	7.6376
Residual Disinfectant - Free	C009	No abnormal change	1,806	-n/a	0.1	0.47
Residual Disinfectant - Total	C010	No abnormal change	1,805	-n/a	0.16	0.55
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(1,805)	-n/a	0	0.2
Sulphate (Indicator)	A007	250 mg SO <sub>4</sub> /l	134	0	10.37	32.325
Total organic carbon (indicator)	A017	No abnormal change	114	-n/a	< 0.5	7.635
<b>Totals:</b>			<b>8,290</b>	<b>1</b>		

\*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'.