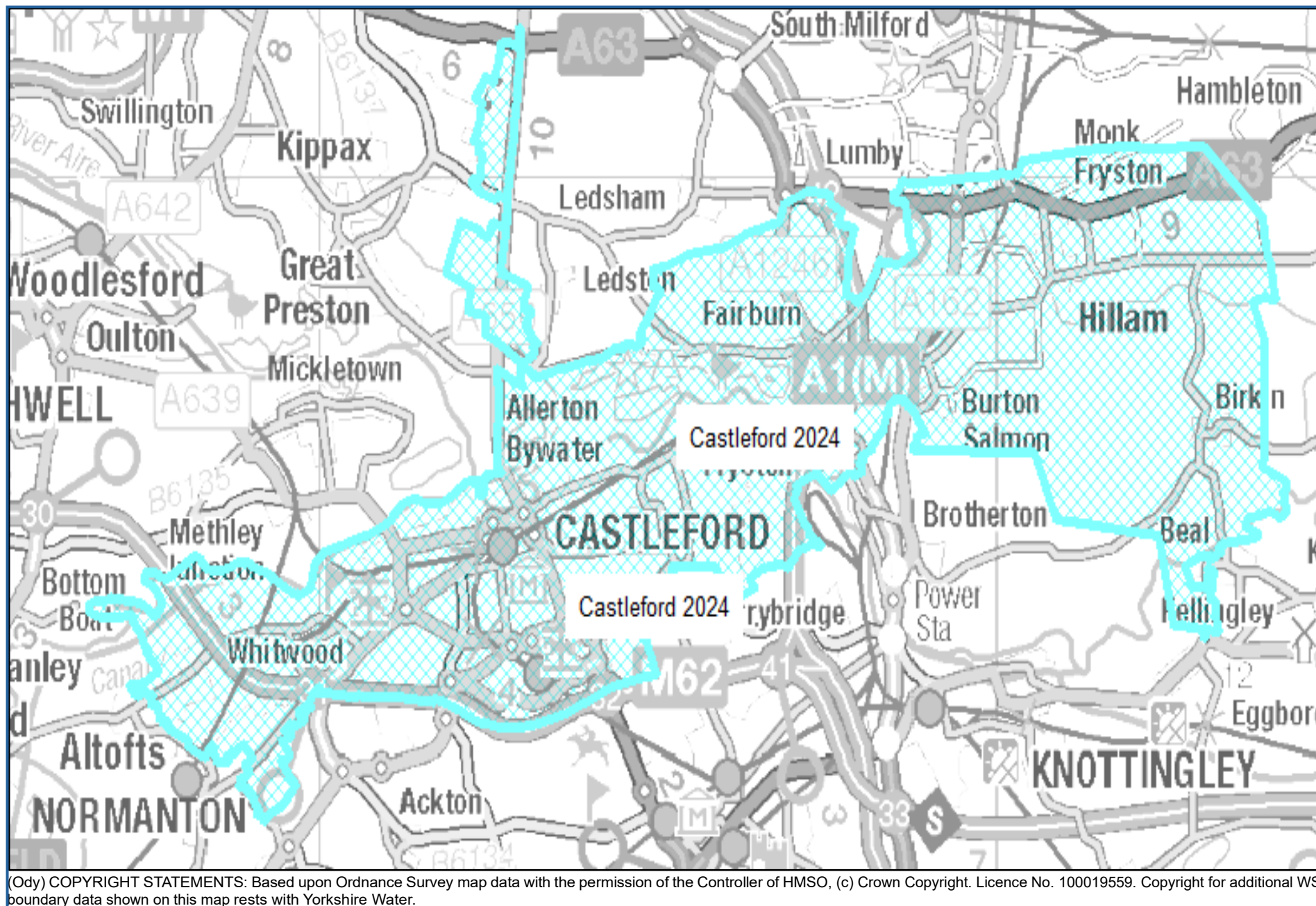


COMMENTARY ON WATER QUALITY

The water supplied to the zone is classified as being hard to very hard water, which is river/reservoir derived. As we have a grid system in place whereby we can move water around the Yorkshire region as required, occasionally the hardness of your water may vary.

No fluoride is added to the water. Any fluoride that is there is naturally occurring.

The geographical area covered by this Water Supply Zone is show below:



ParameterName:	Std	Und Std	Units	No of Samples taken	No of Fails	% Fails	Population		Min	Mean	Max
							No of Fails (Und)	% Fails (Und)			
Colony Counts After 3 Days At 22øc	-		no/ml	52	0	0.00%	0	0.00%	0	1.2	62
E. coli	0		no'/100 ml	156	0	0.00%	0	0.00%	0	0	0
Enterococci	0		no'/100 ml	8	0	0.00%	0	0.00%	0	0	0
Residual Disinfectant - Free	-		mg/l	156	0	0.00%	0	0.00%	0.01	0.34	0.83
Residual Disinfectant - Total	-		mg/l	156	0	0.00%	0	0.00%	0.09	0.46	0.9
Total coliforms(Indicator)	0		no'/100 ml	156	1	0.64%	0	0.00%	0		1
1,2 Dichloroethane	3		µg/l	8	0	0.00%	0	0.00% <	0.16 <	0.2 <	0.16
Aluminium	200		µg Al/l	52	0	0.00%	0	0.00% <	5.96 <	12.046	65.5
Ammonium(ammonia and ammonium ions)	0.5		mg NH4/l	52	0	0.00%	0	0.00% <	0.008 <	0.0136	0.144
Antimony	5		µg Sb/l	8	0	0.00%	0	0.00%	0.08	0.1025	0.15
Arsenic	10		µg As/l	8	0	0.00%	0	0.00%	0.17	0.215	0.3
Benzene	1		µg/l	8	0	0.00%	0	0.00% <	0.06 <	0.06 <	0.06
Benzo 3,4 pyrene	0.01		ug/l	8	0	0.00%	0	0.00% <	0.00042 <	0.0004 <	0.00042
Boron	1		mg B/l	8	0	0.00%	0	0.00% <	0.032 <	0.0326	0.0366
Bromate	10		µg BrO3/l	8	0	0.00%	0	0.00%	1.3	1.7625	3
Cadmium	5		µg Cd/l	8	0	0.00%	0	0.00% <	0.01 <	0.0238	0.04
Chloride	250		mg Cl/l	8	0	0.00%	0	0.00%	21.7	29.1125	33.8
Chromium	50		µg Cr/l	8	0	0.00%	0	0.00% <	0.05 <	0.13	0.18
Colour	20		mg/l Pt/Co scale	52	0	0.00%	0	0.00% <	3 <	3.01	3.5
Conductivity	2500		µS/cm	52	0	0.00%	0	0.00%	339	541.44	651
Copper	2		mg Cu/l	8	0	0.00%	0	0.00%	0.0008	0.016	0.0553
Cyanide	50		µg CN/l	8	0	0.00%	0	0.00% <	1.2 <	1.2 <	1.2
Fluoride	1.5		mg F/l	8	0	0.00%	0	0.00%	0.05	0.071	0.1
Hydrogen Ion (pH)	6.5 - 9.5		pH value	52	0	0.00%	0	0.00%	6.98	7.17	7.63
Iron	200		µg Fe/l	52	1	1.92%	0	0.00% <	3.72 <	35.1	1490
Lead	10		µg/l	8	0	0.00%	0	0.00% <	0.04 <	0.164	0.39
Manganese	50		µg Mn/l	52	0	0.00%	0	0.00% <	0.3 <	1.55	31.3
Mercury	1		µg Hg/l	8	0	0.00%	0	0.00% <	0.04 <	0.045 <	0.06
Nickel	20		µg Ni/l	8	0	0.00%	0	0.00%	1.2	2.829	7.09
Nitrate	50		mg NO3/l	8	0	0.00%	0	0.00%	17.6	19.9375	22.1
Nitrite - Consumer's Taps	0.5		mg/l NO2	8	0	0.00%	0	0.00% <	0.002 <	0.0024 <	0.003

Supply Zone: Castleford 2024		Population						60701			
ParameterName:	Std	Und Std	Units	No of Samples	No of Fails	% Fails	No of Fails	% Fails	Min	Mean	Max
				taken			(Und)	(Und)			
Nitrite/ Nitrate formula	1		mg/l	8	0	0.00%	0	0.00%	0.35	0.4	0.44
Odour	0		dilution number	52	0	0.00%	0	0.00%	0	0	0
Polycyclic Aromatic Hydrocarbons (PAHs)	0.1		µg/l	8	0	0.00%	0	0.00%	0	0	0
Selenium	10		µg Se/l	8	0	0.00%	0	0.00% <	0.13 <	0.25	0.32
Sodium	200		mg Na/l	8	0	0.00%	0	0.00%	13.1	16.79	19.7
Sulphate	250		mg SO4/l	8	0	0.00%	0	0.00%	95.8	128.35	154
Taste	0		dilution number	52	1	1.92%	0	0.00%	0	2	99
Tetrachloroethene/Trichlorethene - Sum	10		µg/l	8	0	0.00%	0	0.00%	0	0	0
Tetrachloromethane	3		µg/l	8	0	0.00%	0	0.00% <	0.16 <	0.16 <	0.16
Total organic carbon	-		mg C/l	8	0	0.00%	0	0.00%	1.32	1.892	2.83
Total Trihalomethanes (THM's)	100		µg/l	8	0	0.00%	0	0.00%	19.7	24.6825	32.66
Turbidity	4		NTU	52	1	1.92%	0	0.00% <	0.07 <	0.312	8.07
Calcium	-		mg Ca/l	8	0	0.00%	0	0.00%	81.7	94.9	113
Magnesium	-		mg Mg/l	8	0	0.00%	0	0.00%	5.12	6.9962	8.34
Total Hardness	-		mg Ca/l	8	0	0.00%	0	0.00%	90.2	106.4	126
2,4,5-T	0.1		µg/l	8	0	0.00%	0	0.00% <	0.013 <	0.0137 <	0.015
2,4-D	0.1		µg/l	8	0	0.00%	0	0.00% <	0.01 <	0.0104 <	0.011
2,4-DB	0.1		µg/l	8	0	0.00%	0	0.00% <	0.01 <	0.0112 <	0.012
Aldrin	0.03		µg/l	8	0	0.00%	0	0.00% <	0.008 <	0.009 <	0.016
Atrazine	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Azoxystrobin	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Bentazone	0.1		µg/l	8	0	0.00%	0	0.00% <	0.004 <	0.0044 <	0.005
Bixafen	0.1		µg/l	8	0	0.00%	0	0.00% <	0.012 <	0.012 <	0.012
Boscalid	0.1		µg/l	8	0	0.00%	0	0.00% <	0.008 <	0.008 <	0.008
Bromacil	0.1		µg/l	8	0	0.00%	0	0.00% <	0.011 <	0.011 <	0.011
Bromoxynil	0.1		µg/l	8	0	0.00%	0	0.00% <	0.007 <	0.0081 <	0.01
Carbetamide	0.1		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Chlormequat	0.1		µg/l	8	0	0.00%	0	0.00% <	0.002 <	0.0134	0.057
Chlorpropham	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.0086 <	0.018
Chlorpyrifos	0.1		µg/l	8	0	0.00%	0	0.00% <	0.008 <	0.009 <	0.016
Chlortoluron	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
Clomazone	0.1		µg/l	8	0	0.00%	0	0.00% <	0.007 <	0.0079 <	0.014

ParameterName:	Std	Und Std	Units	No of Samples taken	No of Fails	% Fails	Population		Min	Mean	Max
							No of Fails (Und)	% Fails (Und)			
Clopyralid	0.1		µg/l	8	0	0.00%	0	0.00% <	0.011 <	0.0124	0.018
Cyanazine	0.1		µg/l	8	0	0.00%	0	0.00% <	0.007 <	0.007 <	0.007
Cypermethrin	0.1		µg/l	8	0	0.00%	0	0.00% <	0.008 <	0.009 <	0.016
Cyproconazole	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Diazinon	0.1		µg/l	8	0	0.00%	0	0.00% <	0.007 <	0.0079 <	0.014
Dicamba	0.1		µg/l	8	0	0.00%	0	0.00% <	0.011 <	0.0114 <	0.012
Dichlobenil	0.1		µg/l	8	0	0.00%	0	0.00% <	0.004 <	0.0045 <	0.008
Dichlorprop	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.0075 <	0.01
Dieldrin	0.03		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.0101 <	0.018
Difenconazole	0.1		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Diffenican	0.1		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.0101 <	0.018
Diuron	0.1		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Epoxiconazole	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
EPTC	0.1		µg/l	8	0	0.00%	0	0.00% <	0.022 <	0.022 <	0.022
Flufenacet	0.1		µg/l	8	0	0.00%	0	0.00% <	0.008 <	0.0084	0.011
Fluroxypyr	0.1		µg/l	8	0	0.00%	0	0.00% <	0.008 <	0.0099 <	0.011
Flurtamone	0.1		µg/l	8	0	0.00%	0	0.00% <	0.007 <	0.007 <	0.007
Flusilazole	0.1		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Flutriafol	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
Fluxapyroxad	0.1		µg/l	8	0	0.00%	0	0.00% <	0.01 <	0.01 <	0.01
Gamma-HCH (Lindane)	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.0056 <	0.01
Heptachlor	0.03		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.0056 <	0.01
Heptachlor epoxide	0.03		µg/l	8	0	0.00%	0	0.00% <	0.007 <	0.0079 <	0.014
Imazapyr	0.1		µg/l	8	0	0.00%	0	0.00% <	0.004 <	0.0053 <	0.006
Ioxynil	0.1		µg/l	8	0	0.00%	0	0.00% <	0.004 <	0.0044 <	0.005
Isoproturon	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
Linuron	0.1		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
MCPA	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.0072 <	0.008
Mecoprop-P	0.1		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.0096 <	0.01
Mepiquat chloride	0.1		µg/l	8	0	0.00%	0	0.00% <	0.003 <	0.0093	0.023
Metaldehyde	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Metamitron	0.1		µg/l	8	0	0.00%	0	0.00% <	0.008 <	0.008 <	0.008
Metazachlor	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
Metobromuron	0.1		µg/l	8	0	0.00%	0	0.00% <	0.01 <	0.01 <	0.01

Castleford 2024				Population				60701			
ParameterName:	Std	Und Std	Units	No of Samples taken	No of Fails	% Fails	No of Fails (Und)	% Fails (Und)	Min	Mean	Max
Monuron	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
op'-DDD (TDE)	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.0056 <	0.01
op'-DDE	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.0056 <	0.01
op'-DDT	0.1		µg/l	8	0	0.00%	0	0.00% <	0.004 <	0.0045 <	0.008
Oxadixyl	0.1		µg/l	8	0	0.00%	0	0.00% <	0.012 <	0.012 <	0.012
Pendimethalin	0.1		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.0101 <	0.018
Pesticides - Total Substances	0.5		µg/l	8	0	0.00%	0	0.00%	0	0.0155	0.08
pp'-DDD (TDE)	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.0056 <	0.01
pp'-DDE	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.0056 <	0.01
pp'-DDT	0.1		µg/l	8	0	0.00%	0	0.00% <	0.004 <	0.0045 <	0.008
Propachlor	0.1		µg/l	8	0	0.00%	0	0.00% <	0.007 <	0.007 <	0.007
Propamocarb	0.1		µg/l	8	0	0.00%	0	0.00% <	0.004 <	0.0053 <	0.008
Propham	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.0056 <	0.01
Propiconazole	0.1		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Propyzamide	0.1		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.0109	0.018
Prosulfocarb	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Prothioconazole-desthio	0.1		µg/l	8	0	0.00%	0	0.00% <	0.007 <	0.007 <	0.007
Quinmerac	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Simazine	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
Tebuconazole	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Tri-allate	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.0068 <	0.012
Trichlopyr	0.1		µg/l	8	0	0.00%	0	0.00% <	0.016 <	0.0179 <	0.019
Trietazine	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005

- Notes:**
- 1) Qualified values are taken at face value in all calculations.
 - 2) Any infringements of the regulatory standard are thoroughly investigated and are reported to the Drinking Water Inspectorate (DWI), with remedial actions put in place where necessary.
 - 3) Details of undertakings and notices (Improvement programmes) applicable can be obtained from the DWI website: [Yorkshire Water Improvement Programmes - Drinking Water Inspectorate](#)