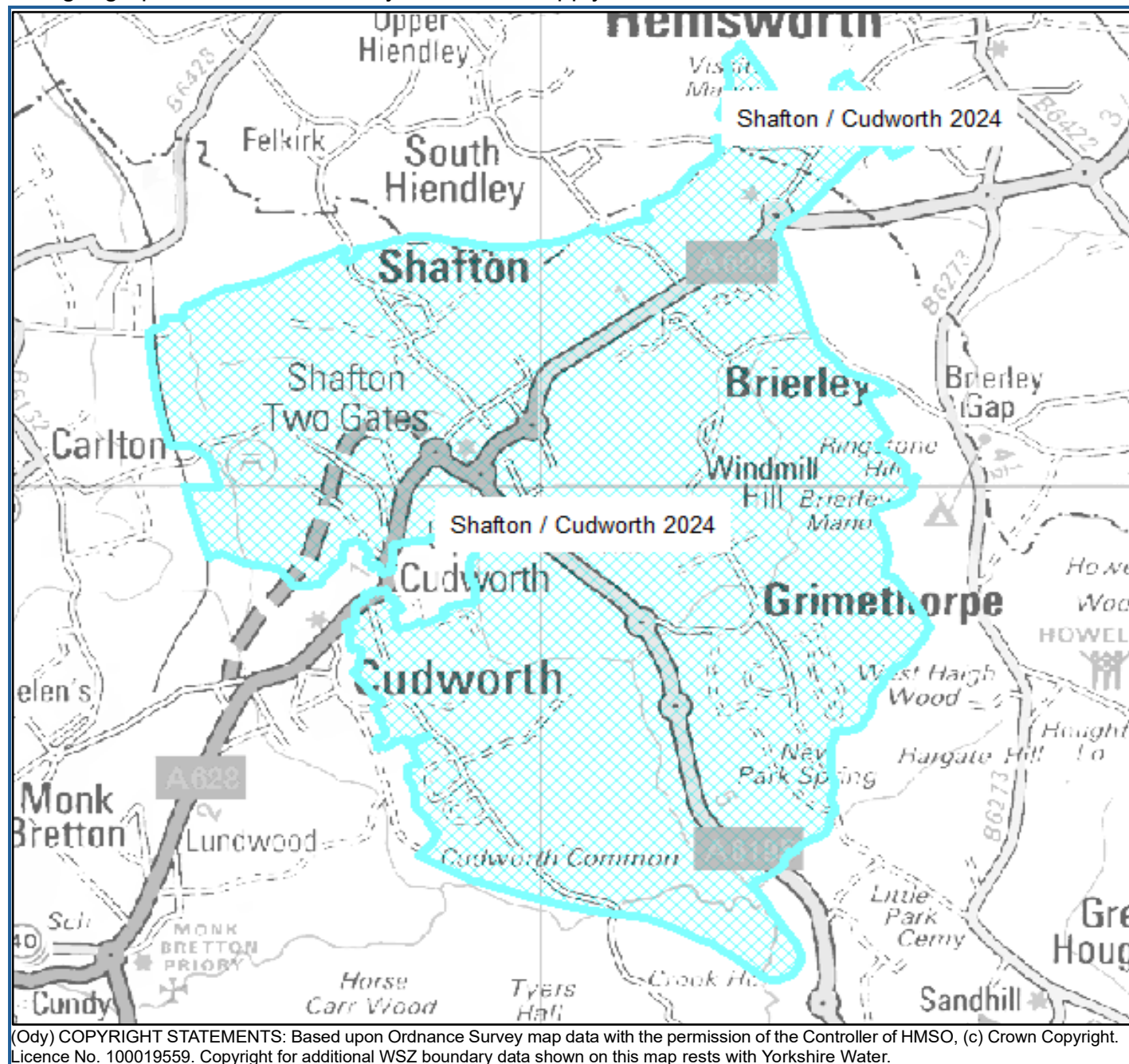


COMMENTARY ON WATER QUALITY

The water supplied to the zone is classified as being hard to very hard water, which is river 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:



(Ody) COPYRIGHT STATEMENTS: Based upon Ordnance Survey map data with the permission of the Controller of HMSO, (c) Crown Copyright. Licence No. 100019559. Copyright for additional WSZ boundary data shown on this map rests with Yorkshire Water.

Yorkshire Water Services

Reporting Period: 01-01-2024 to 31-12-2024

Water Supply Zone: Shafton / Cudworth 2024

Population 18341

ParameterName:	Std	Und Std	Units	No of Samples taken	No of Fails	% Fails	No of Fails (Und)	% Fails (Und)	Min	Mean	Max
Colony Counts After 3 Days At 22øc	-		no/ml	24	0	0.00%	0	0.00%	0	0	0
E. coli	0		no'/100 ml	48	0	0.00%	0	0.00%	0	0	0
Enterococci	0		no'/100 ml	8	1	12.50%	0	0.00%	0		1
Residual Disinfectant - Free	-		mg/l	48	0	0.00%	0	0.00%	0.02	0.21	0.56
Residual Disinfectant - Total	-		mg/l	48	0	0.00%	0	0.00%	0.07	0.34	0.61
Total coliforms(Indicator)	0		no'/100 ml	48	0	0.00%	0	0.00%	0	0	0
1,2 Dichloroethane	3		µg/l	8	0	0.00%	0	0.00% <	0.16 <	0.2 <	0.16
Aluminium	200		µg Al/l	24	0	0.00%	0	0.00% <	6.9 <	11.427	14.5
Ammonium(ammonia and ammonium ions)	0.5		mg NH4/l	24	0	0.00%	0	0.00% <	0.008 <	0.0095	0.015
Antimony	5		µg Sb/l	8	0	0.00%	0	0.00%	0.08	0.1175	0.19
Arsenic	10		µg As/l	8	0	0.00%	0	0.00%	0.17	0.2488	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	12	0	0.00%	0	0.00% <	0.032 <	0.0322	0.0337
Bromate	10		µg BrO3/l	8	0	0.00%	0	0.00%	1.1	1.4375	2.4
Cadmium	5		µg Cd/l	8	0	0.00%	0	0.00% <	0.01 <	0.025	0.03
Chloride	250		mg Cl/l	12	0	0.00%	0	0.00%	23.8	29.375	33.5
Chromium	50		µg Cr/l	8	0	0.00%	0	0.00% <	0.06 <	0.1512	0.18
Colour	20		mg/l Pt/Co scale	24	0	0.00%	0	0.00% <	3 <	3 <	3
Conductivity	2500		µS/cm	24	0	0.00%	0	0.00%	456	542.46	611
Copper	2		mg Cu/l	8	0	0.00%	0	0.00%	0.0009	0.0168	0.0542
Cyanide	50		µg CN/l	12	0	0.00%	0	0.00% <	1.2 <	1.2 <	1.2
Fluoride	1.5		mg F/l	12	0	0.00%	0	0.00%	0.06	0.072	0.1
Hydrogen Ion (pH)	6.5 - 9.5		pH value	24	0	0.00%	0	0.00%	7.09	7.27	7.85
Iron	200		µg Fe/l	24	0	0.00%	0	0.00% <	3.72 <	8.3	47.6
Lead	10		µg/l	8	0	0.00%	0	0.00%	0.03	0.876	1.83
Manganese	50		µg Mn/l	24	0	0.00%	0	0.00% <	0.3 <	1.11	6.35
Mercury	1		µg Hg/l	12	0	0.00%	0	0.00% <	0.04 <	0.045 <	0.06
Nickel	20		µg Ni/l	8	0	0.00%	0	0.00%	1.07	1.686	2.62
Nitrate	50		mg NO3/l	8	0	0.00%	0	0.00%	17.3	19.675	22.2
Nitrite - Consumer's Taps	0.5		mg/l NO2	8	0	0.00%	0	0.00% <	0.002 <	0.0024 <	0.003

Shafton / Cudworth 2024							Population		18341		
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	0.3938	0.44
Odour	0		dilution number	24	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% <	0.16 <	0.285	0.32
Sodium	200		mg Na/l	8	0	0.00%	0	0.00%	14.1	16.66	19.9
Sulphate	250		mg SO4/l	8	0	0.00%	0	0.00%	105	126.375	153
Taste	0		dilution number	24	0	0.00%	0	0.00%	0	0	0
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	12	0	0.00%	0	0.00%	1.5	1.93	2.35
Total Trihalomethanes (THM's)	100		µg/l	8	0	0.00%	0	0.00%	22.81	29.46	36.4
Turbidity	4		NTU	24	0	0.00%	0	0.00% <	0.07 <	0.145	0.28
Calcium	-		mg Ca/l	8	0	0.00%	0	0.00%	80.1	93.4375	108
Magnesium	-		mg Mg/l	8	0	0.00%	0	0.00%	6.79	7.5838	9.03
Total Hardness	-		mg Ca/l	8	0	0.00%	0	0.00%	92	105.95	122
2,4,5-T	0.1		µg/l	12	0	0.00%	0	0.00% <	0.013 <	0.0137 <	0.015
2,4-D	0.1		µg/l	12	0	0.00%	0	0.00% <	0.01 <	0.0103 <	0.011
2,4-DB	0.1		µg/l	12	0	0.00%	0	0.00% <	0.01 <	0.0113 <	0.012
Aldrin	0.03		µg/l	12	0	0.00%	0	0.00% <	0.008 <	0.008 <	0.008
Atrazine	0.1		µg/l	12	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Azoxystrobin	0.1		µg/l	12	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Bentazone	0.1		µg/l	12	0	0.00%	0	0.00% <	0.004 <	0.0043 <	0.005
Bixafen	0.1		µg/l	12	0	0.00%	0	0.00% <	0.012 <	0.012 <	0.012
Boscalid	0.1		µg/l	12	0	0.00%	0	0.00% <	0.008 <	0.008 <	0.008
Bromacil	0.1		µg/l	12	0	0.00%	0	0.00% <	0.011 <	0.011 <	0.011
Bromoxynil	0.1		µg/l	12	0	0.00%	0	0.00% <	0.007 <	0.008 <	0.01
Carbetamide	0.1		µg/l	12	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Chlormequat	0.1		µg/l	12	0	0.00%	0	0.00% <	0.008 <	0.008 <	0.008
Chlorpropham	0.1		µg/l	12	0	0.00%	0	0.00% <	0.005 <	0.0077 <	0.009
Chlorpyrifos	0.1		µg/l	12	0	0.00%	0	0.00% <	0.008 <	0.008 <	0.008
Chlortoluron	0.1		µg/l	12	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
Clomazone	0.1		µg/l	12	0	0.00%	0	0.00% <	0.007 <	0.007 <	0.007

Apply Zone:	Shafton / Cudworth 2024						Population		18341		
ParameterName:	Std	Und Std	Units	No of Samples	No of Fails	% Fails	No of Fails	% Fails	Min	Mean	Max
				taken			(Und)	(Und)			
Clopyralid	0.1		µg/l	12	0	0.00%	0	0.00% <	0.011 <	0.0117	0.013
Cyanazine	0.1		µg/l	12	0	0.00%	0	0.00% <	0.007 <	0.007 <	0.007
Cypermethrin	0.1		µg/l	12	0	0.00%	0	0.00% <	0.008 <	0.008 <	0.008
Cyproconazole	0.1		µg/l	12	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Diazinon	0.1		µg/l	12	0	0.00%	0	0.00% <	0.007 <	0.007 <	0.007
Dicamba	0.1		µg/l	12	0	0.00%	0	0.00% <	0.011 <	0.0113 <	0.012
Dichlobenil	0.1		µg/l	12	0	0.00%	0	0.00% <	0.004 <	0.004 <	0.004
Dichlorprop	0.1		µg/l	12	0	0.00%	0	0.00% <	0.006 <	0.0073 <	0.01
Dieldrin	0.03		µg/l	12	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Difenconazole	0.1		µg/l	12	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Diflufenican	0.1		µg/l	12	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Diuron	0.1		µg/l	12	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Epoxiconazole	0.1		µg/l	12	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
EPTC	0.1		µg/l	12	0	0.00%	0	0.00% <	0.022 <	0.022 <	0.022
Flufenacet	0.1		µg/l	12	0	0.00%	0	0.00% <	0.008 <	0.0112	0.046
Fluroxypyr	0.1		µg/l	12	0	0.00%	0	0.00% <	0.008 <	0.01 <	0.011
Flurtamone	0.1		µg/l	12	0	0.00%	0	0.00% <	0.007 <	0.007 <	0.007
Flusilazole	0.1		µg/l	12	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Flutriafol	0.1		µg/l	12	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
Fluxapyroxad	0.1		µg/l	12	0	0.00%	0	0.00% <	0.01 <	0.01 <	0.01
Gamma-HCH (Lindane)	0.1		µg/l	12	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
Heptachlor	0.03		µg/l	12	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
Heptachlor epoxide	0.03		µg/l	12	0	0.00%	0	0.00% <	0.007 <	0.007 <	0.007
Imazapyr	0.1		µg/l	12	0	0.00%	0	0.00% <	0.004 <	0.0053 <	0.006
Ioxynil	0.1		µg/l	12	0	0.00%	0	0.00% <	0.004 <	0.0043 <	0.005
Isoproturon	0.1		µg/l	12	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
Linuron	0.1		µg/l	12	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
MCPA	0.1		µg/l	12	0	0.00%	0	0.00% <	0.006 <	0.0073 <	0.008
Mecoprop-P	0.1		µg/l	12	0	0.00%	0	0.00% <	0.009 <	0.0097 <	0.01
Mepiquat chloride	0.1		µg/l	12	0	0.00%	0	0.00% <	0.008 <	0.008 <	0.008
Metalddehyde	0.1		µg/l	12	0	0.00%	0	0.00% <	0.006 <	0.0062	0.008
Metamitron	0.1		µg/l	12	0	0.00%	0	0.00% <	0.008 <	0.008 <	0.008
Metazachlor	0.1		µg/l	12	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
Metobromuron	0.1		µg/l	12	0	0.00%	0	0.00% <	0.01 <	0.01 <	0.01

Water Supply Zone: Shafton / Cudworth 2024

ParameterName:	Std	Und Std	Units	No of Samples taken	No of Fails	% Fails	Population		Min	Mean	Max
							No of Fails (Und)	% Fails (Und)			
Monuron	0.1		µg/l	12	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
op'-DDD (TDE)	0.1		µg/l	12	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
op'-DDE	0.1		µg/l	12	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
op'-DDT	0.1		µg/l	12	0	0.00%	0	0.00% <	0.004 <	0.004 <	0.004
Oxadixyl	0.1		µg/l	12	0	0.00%	0	0.00% <	0.012 <	0.012 <	0.012
Pendimethalin	0.1		µg/l	12	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Pesticides - Total Substances	0.5		µg/l	12	0	0.00%	0	0.00%	0	0.0084	0.066
pp'-DDD (TDE)	0.1		µg/l	12	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
pp'-DDE	0.1		µg/l	12	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
pp'-DDT	0.1		µg/l	12	0	0.00%	0	0.00% <	0.004 <	0.004 <	0.004
Propachlor	0.1		µg/l	12	0	0.00%	0	0.00% <	0.007 <	0.007 <	0.007
Propamocarb	0.1		µg/l	12	0	0.00%	0	0.00% <	0.004 <	0.0047 <	0.006
Propham	0.1		µg/l	12	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
Propiconazole	0.1		µg/l	12	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Propyzamide	0.1		µg/l	12	0	0.00%	0	0.00% <	0.009 <	0.0098	0.014
Prosulfocarb	0.1		µg/l	12	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Prothioconazole-desthio	0.1		µg/l	12	0	0.00%	0	0.00% <	0.007 <	0.007 <	0.007
Quinmerac	0.1		µg/l	12	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Simazine	0.1		µg/l	12	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
Tebuconazole	0.1		µg/l	12	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Tri-allate	0.1		µg/l	12	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Trichlopyr	0.1		µg/l	12	0	0.00%	0	0.00% <	0.016 <	0.018 <	0.019
Trietazine	0.1		µg/l	12	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](#)