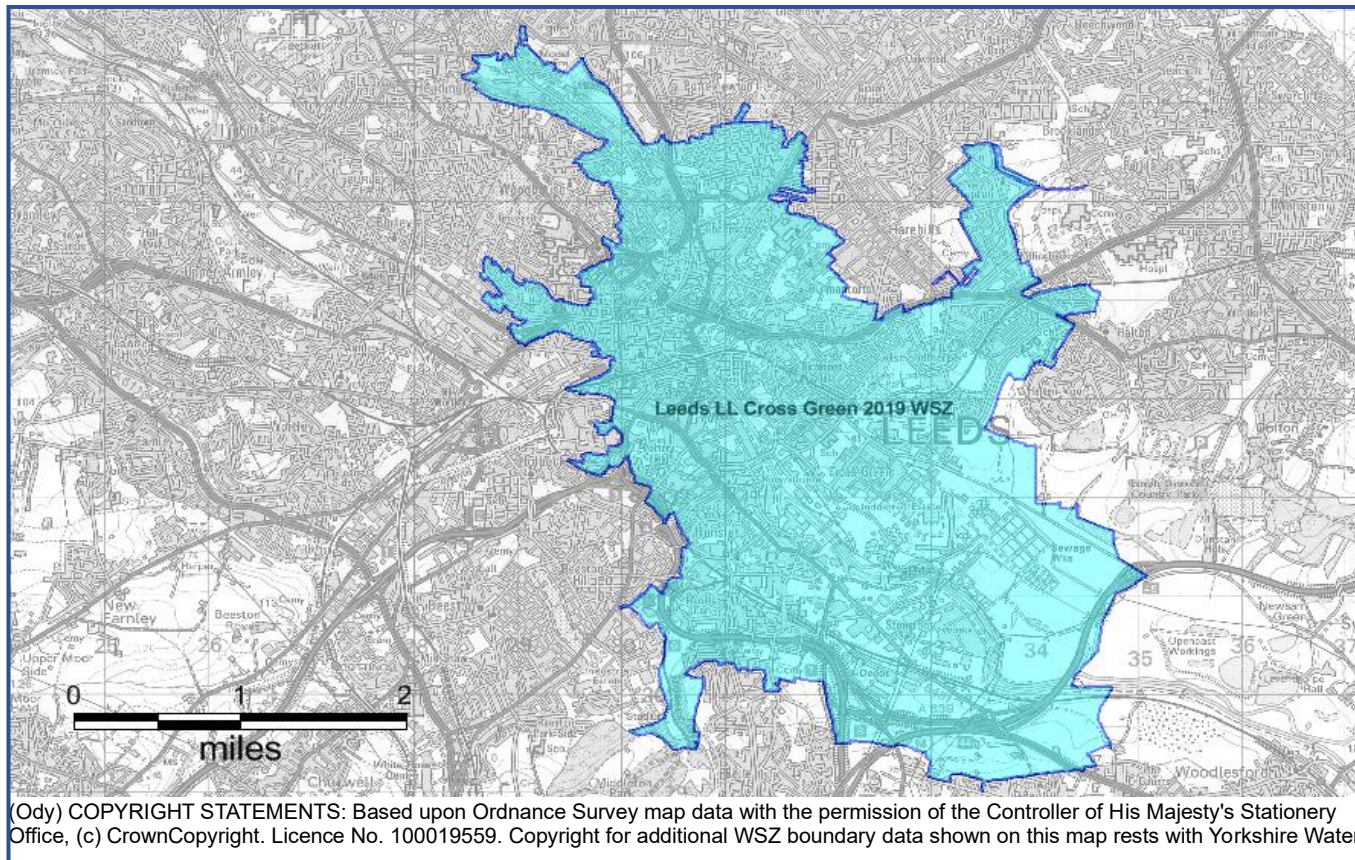


COMMENTARY ON WATER QUALITY

The water supplied to the zone is classified as being slightly 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 shown below:



Yorkshire Water Services
Reporting Period: 01-01-2023 to 31-12-2023
Water Supply Zone:
Leeds LL Cross Green 2019 WSZ
Population
73209

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	52	0	0.00%	0	0.00%	0	0.5	7
E. coli	0		no'/100 ml	180	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	180	0	0.00%	0	0.00%	0	0.26	0.79
Residual Disinfectant - Total	-		mg/l	180	0	0.00%	0	0.00%	0.1	0.39	0.96
Total coliforms(Indicator)	0		no'/100 ml	180	1	0.56%	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% <	6.9 <	12.61	57.6
Ammonium(ammonia and ammonium ions)	0.5		mg NH4/l	52	0	0.00%	0	0.00% <	0.008 <	0.0099	0.025
Antimony	5		µg Sb/l	8	0	0.00%	0	0.00%	0.13	0.1562	0.17
Arsenic	10		µg As/l	8	0	0.00%	0	0.00% <	0.14 <	0.1638	0.2
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 <	0.00057
Boron	1		mg B/l	8	0	0.00%	0	0.00% <	0.032 <	0.032 <	0.032
Bromate	10		µg BrO3/l	8	0	0.00%	0	0.00%	0.2	0.6	1
Cadmium	5		µg Cd/l	8	0	0.00%	0	0.00% <	0.01 <	0.0275	0.03
Chloride	250		mg Cl/l	8	0	0.00%	0	0.00%	14.7	17.35	20.3
Chromium	50		µg Cr/l	8	0	0.00%	0	0.00% <	0.06 <	0.165	0.18
Colour	20		mg/l Pt/Co scale	52	0	0.00%	0	0.00% <	3 <	3 <	3
Conductivity	2500		µS/cm	52	0	0.00%	0	0.00%	199	315.52	561
Copper	2		mg Cu/l	8	0	0.00%	0	0.00%	0.0033	0.0295	0.129
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%	0.07	0.081	0.1
Hydrogen Ion (pH)	6.5 - 9.5		pH value	52	0	0.00%	0	0.00%	7	7.21	7.42
Iron	200		µg Fe/l	52	0	0.00%	0	0.00% <	3.72 <	15.51	103
Lead	10		µg/l	8	0	0.00%	0	0.00% <	0.04 <	1.079	5.39
Manganese	50		µg Mn/l	52	0	0.00%	0	0.00% <	0.34 <	1.52	8.47
Mercury	1		µg Hg/l	8	0	0.00%	0	0.00% <	0.04 <	0.048 <	0.06
Nickel	20		µg Ni/l	8	0	0.00%	0	0.00%	0.85	1.99	5.09
Nitrate	50		mg NO3/l	8	0	0.00%	0	0.00%	5.55	6.585	8.05
Nitrite - Consumer's Taps	0.5		mg/l NO2	8	0	0.00%	0	0.00% <	0.002 <	0.0026 <	0.003

Yorkshire Water Services
Reporting Period: 01-01-2023 to 31-12-2023
Water Supply Zone: Leeds LL Cross Green 2019 WSZ
Population
73209

ParameterName:	Std	Und Std	Units	No of Samples taken	No of Fails	% Fails	No of Fails (Und)	% Fails (Und)	Min	Mean	Max
Nitrite/ Nitrate formula	1		mg/l	8	0	0.00%	0	0.00%	0.11	0.1312	0.16
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% <	0.09 <	0.291	0.32
Sodium	200		mg Na/l	8	0	0.00%	0	0.00%	14	17.16	23.3
Sulphate	250		mg SO4/l	8	0	0.00%	0	0.00%	58.3	66.475	78.7
Taste	0		dilution number	52	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	8	0	0.00%	0	0.00%	2.18	2.448	2.61
Total Trihalomethanes (THM's)	100		µg/l	8	0	0.00%	0	0.00%	21.18	29.28	39.85
Turbidity	4		NTU	52	0	0.00%	0	0.00% <	0.13 <	0.181	0.39
Calcium	-		mg Ca/l	8	0	0.00%	0	0.00%	35.5	39.6375	44.9
Magnesium	-		mg Mg/l	8	0	0.00%	0	0.00%	5.26	6.005	7.3
Total Hardness	-		mg Ca/l	8	0	0.00%	0	0.00%	44.2	49.5625	57
2,4,5-T	0.1		µg/l	8	0	0.00%	0	0.00% <	0.015 <	0.015 <	0.015
2,4-D	0.1		µg/l	8	0	0.00%	0	0.00% <	0.011 <	0.011 <	0.011
2,4-DB	0.1		µg/l	8	0	0.00%	0	0.00% <	0.01 <	0.01 <	0.01
Aldrin	0.03		µg/l	8	0	0.00%	0	0.00% <	0.008 <	0.008 <	0.008
Atrazine	0.1		µg/l	8	0	0.00%	0	0.00% <	0.004 <	0.0045 <	0.006
Azoxystrobin	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.009 <	0.01
Bentazone	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.005 <	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 <	0.014 <	0.015
Bromoxynil	0.1		µg/l	8	0	0.00%	0	0.00% <	0.01 <	0.01 <	0.01
Carbetamide	0.1		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.012 <	0.013
Chlormequat	0.1		µg/l	8	0	0.00%	0	0.00% <	0.002 <	0.0024 <	0.004
Chlorpropham	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
Chlorpyrifos	0.1		µg/l	8	0	0.00%	0	0.00% <	0.008 <	0.008 <	0.008
Chlortoluron	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.0065 <	0.007
Clomazone	0.1		µg/l	8	0	0.00%	0	0.00% <	0.007 <	0.007 <	0.007

Apply Zone:	Leeds LL Cross Green 2019 WSZ						Population		73209		
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	8	0	0.00%	0	0.00% <	0.011 <	0.011 <	0.011
Cyanazine	0.1		µg/l	8	0	0.00%	0	0.00% <	0.004 <	0.0048 <	0.007
Cypermethrin	0.1		µg/l	8	0	0.00%	0	0.00% <	0.008 <	0.011 <	0.032
Cyproconazole	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.0068 <	0.007
Diazinon	0.1		µg/l	8	0	0.00%	0	0.00% <	0.007 <	0.007 <	0.007
Dicamba	0.1		µg/l	8	0	0.00%	0	0.00% <	0.012 <	0.012 <	0.012
Dichlobenil	0.1		µg/l	8	0	0.00%	0	0.00% <	0.004 <	0.004 <	0.004
Dichlorprop	0.1		µg/l	8	0	0.00%	0	0.00% <	0.01 <	0.01 <	0.01
Dieldrin	0.03		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Difenconazole	0.1		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.0112 <	0.012
Diflufenican	0.1		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Diuron	0.1		µg/l	8	0	0.00%	0	0.00% <	0.008 <	0.0082 <	0.009
Epoxiconazole	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.0052 <	0.006
EPTC	0.1		µg/l	8	0	0.00%	0	0.00% <	0.012 <	0.0145 <	0.022
Flufenacet	0.1		µg/l	8	0	0.00%	0	0.00% <	0.008 <	0.008 <	0.008
Fluroxypyr	0.1		µg/l	8	0	0.00%	0	0.00% <	0.008 <	0.008 <	0.008
Flurtamone	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.0055 <	0.007
Flusilazole	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.006 <	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% <	0.009 <	0.0092 <	0.01
Gamma-HCH (Lindane)	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
Heptachlor	0.03		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
Heptachlor epoxide	0.03		µg/l	8	0	0.00%	0	0.00% <	0.007 <	0.007 <	0.007
Imazapyr	0.1		µg/l	8	0	0.00%	0	0.00% <	0.004 <	0.004 <	0.004
Ioxynil	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.005 <	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 <	0.0098 <	0.01
MCPA	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Mecoprop-P	0.1		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Mepiquat chloride	0.1		µg/l	8	0	0.00%	0	0.00% <	0.003 <	0.0035 <	0.006
Metalddehyde	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.0104 <	0.028
Metamitron	0.1		µg/l	8	0	0.00%	0	0.00% <	0.008 <	0.0088 <	0.009
Metazachlor	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.0057 <	0.006
Monuron	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.0072 <	0.008

Water Supply Zone: Leeds LL Cross Green 2019 WSZ

ParameterName:	Std	Und Std	Units	No of Samples taken	No of Fails	% Fails	Population		Min	Mean	Max
							No of Fails (Und)	% Fails (Und)			
op'-DDD (TDE)	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
op'-DDE	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
op'-DDT	0.1		µg/l	8	0	0.00%	0	0.00% <	0.004 <	0.004 <	0.004
Oxadixyl	0.1		µg/l	8	0	0.00%	0	0.00% <	0.012 <	0.0127 <	0.013
Pendimethalin	0.1		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Pesticides - Total Substances	0.5		µg/l	8	0	0.00%	0	0.00%	0	0.0006	0.005
pp'-DDD (TDE)	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
pp'-DDE	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.005 <	0.005
pp'-DDT	0.1		µg/l	8	0	0.00%	0	0.00% <	0.004 <	0.004 <	0.004
Propachlor	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.0055 <	0.007
Propamocarb	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Propham	0.1		µg/l	8	0	0.00%	0	0.00% <	0.005 <	0.0069 <	0.02
Propiconazole	0.1		µg/l	8	0	0.00%	0	0.00% <	0.007 <	0.0075 <	0.009
Propyzamide	0.1		µg/l	8	0	0.00%	0	0.00% <	0.009 <	0.009 <	0.009
Prosulfocarb	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.009 <	0.01
Prothioconazole-desthio	0.1		µg/l	8	0	0.00%	0	0.00% <	0.004 <	0.0048 <	0.007
Quinmerac	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.0082 <	0.009
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% <	0.005 <	0.0052 <	0.006
Tri-allate	0.1		µg/l	8	0	0.00%	0	0.00% <	0.006 <	0.006 <	0.006
Trichlopyr	0.1		µg/l	8	0	0.00%	0	0.00% <	0.016 <	0.016 <	0.016
Trietazine	0.1		µg/l	8	0	0.00%	0	0.00% <	0.004 <	0.0042 <	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: [Improvement programmes - Drinking Water Inspectorate \(dwi.gov.uk\)](https://www.dwi.gov.uk/improvement-programmes)