Tidworth Period: 01-Jan-2023 to 31-Dec-2023 Population:

Population:								
	H-24-	No. of	PCV	No. of Samples	% of Samples >PCV	841-	Maan	May
Parameter	Units	Samples	icrobiological Parameters	>PCV	>PCV	Min.	Mean	Max.
Coliform bacteria	No./100ml	48	0	0	0	0	0	0
E coli	No./100ml	48	0	0	0	0	0	0
Clostridium perfringens	No./100ml	8	0	0	0	0	0	0
Enterococci	No./100ml	8	0	0	0	0	0	0
2 day plate count 37 °C	No./1ml at 37 °C	1	No abnormal change	0	0	0	0	0
3 day plate count 22 °C	No./1ml at 22 °C	26	No abnormal change	0	0	0	0	3
o day place obdile 22 o	1101/ 21111 01 22 0		Customer Parameters	•				
Alkalinity	mgHCO3/l	2	No PCV	0	0	279	281	283
Calcium	mgCa/l	2	No PCV	0	0	102	104	105
Chlorine (Residual)	mgCl2/l	48	No PCV	0	0	0.32	0.56	0.74
Colour	mg/I Pt/Co	25	20	0	0	<2.5	<2.5	<2.5
Fluoride	mgF/I	8	1.5	0	0	<0.085	<0.085	<0.085
Hardness (Total)	mgCaCO3/I	2	No PCV	0	0	255	260	263
Hydrogen Ion (pH)	pH value	25	6.5-9.5	0	0	7	7.3	7.4
Quantitative Odour	Dilution No.	25	Abnormal & unacceptable to	0	0	0	0	0
Quantitative Taste	Dilution No.	25	consumers	0	0	0	0	0
Temperature	°C	48	No PCV	0	0	6.5	12.4	18.3
Turbidity	NTU	25	4	0	0	<0.10	<0.10	0.16
Turbiaity	1410		Chemicals			10.10	10.10	0.10
Metals			Chemicais					
Arsenic	μgAs/l	8	10	0	0	<1.0	<1.0	<1.0
Aluminium	μgAI/I	8	200	0	0	<5.0	<5.0	<5.0
Antimony	μgSb/l	8	5	0	0	<0.20	<0.20	<0.20
Cadmium	μgCd/l	8	5	0	0	<0.20	<0.20	<0.20
Chromium	μgCr/l	8	50	0	0	<0.5	<0.5	<0.5
Copper	mgCu/l	8	2	0	0	0.036	0.064	0.119
Iron	μgFe/l	8	200	0	0	<15.0	<15.0	<15.0
Lead	μgPb/l	8	10	0	0	<1.00	<1.00	<1.00
Manganese		8	50	0	0	<1.00	<1.00	<1.00
_	μgMn/l	8	1	0	0	<0.10	<0.10	<0.10
Mercury Nickel	μgHg/l	8	20	0	0	<2.0	<2.0	<2.0
Sodium	μgNi/l mgNa/l	8	200	0	0	6.1	7.8	10
Pesticides	mgNa/l	8	200	0	0	0.1	7.0	10
Atrazine	μg/l	8	0.1	0	0	<0.013	<0.013	<0.013
Total Pesticide	μg/l	8	0.5	0	0	0.013	0.017	0.04
Additional Parameters	P6/1	- 0	0.3	-	0		0.017	0.04
Ammonium	mgNH4/l	8	0.5	0	0	<0.05	<0.05	<0.05
Benzene	μg/l	8	1	0	0	<0.07	<0.07	<0.07
Benzo (a) Pyrene	μg/I	8	0.01	0	0	<0.001	<0.001	<0.001
Boron	mgB/l	8	1	0	0	<0.100	<0.100	<0.100
Bromate	μgBrO3/l	8	10	0	0	<0.3	<1.5	<1.5
Chloride	mgCl/l	8	250	0	0	14	17	22
Electrical Conductivity at 20 °C	μS/cm at 20 °C	25	2500	0	0	408	483	543
Nitrate	mgNO3/I	8	50	0	0	16.3	22.8	31
Nitrite	mgNO2/l	8	0.5	0	0	< 0.007	< 0.007	< 0.007
Nitrite Nitrate Formula	mgNO2/1	8	1	0	0	<0.33	<0.62	<0.62
Selenium	μgSe/l	8	10	0	0	<1.0	<1.0	<1.0
Sulphate	μgse/i mgSO4/l	8	250	0	0	<1.0	<110	19
		8	10	0	0	0	0	0
Sum of Tri & Tetrachloroethene	μg/l /		3					
Tetrachloromethane	μg/l	8		0	0	<0.2	<0.2	<0.2
Total Cyanide	μgCN/I	8	50	0	0	<1.2	<1.2	<1.2
Total Organic Carbon	mgC/I	8	No abnormal change	0	0	0.6	0.7	0.8
Total PAHs	μg/l	8	0.1	0	0	0	0	0
Total Trihalomethanes	μg/l	8	100	0	0	3.99	7.02	9.06
1, 2 dichloroethane	µg/I	8	3	0	0	<0.14	<0.14	<0.14

Notes

PCV = Prescribed Concentration or Value or Specification Concentration or Value

Commentary on Water Quality

Water quality was satisfactory in this zone in 2023.

Undertakings & Authorised Departures

No Undertakings or Authorised Departures applied to this water supply zone during 2023

Glossary

Drinking Water Standards

The report above show all regulatory parameters which are monitored in accordance with the current Water Supply (Water Quality) Regulations. Some non-regulatory parameters are also included for customer information only. The table below describes these parameters and what the standards can mean.

Regulatory Parameters				
Parameter	What it means	Standard		
Microbiological Parameters				
-	These bacteria are widely distributed in the environment and provide a sensitive measure of the			
	microbiological quality of the water supply. They are removed during the treatment process. However, if any			
	coliform organisms are detected in drinking water immediate action is taken to investigate the source of the			
	bacteria. Nearly all instances of coliforms in samples taken from customers' taps are due to microbiological			
Coliform bacteria	growths in the domestic cold taps.	0 per 100ml		
E coli				
Clostridium perfringens	Bacteria which are indicative of possible faecal contamination. Immediate action is taken if these organisms are			
Enterococci	detected in drinking water.	0 per 100ml		
		No specific		
2 day plate count 37 °C	A range of harmless bacteria that may be present in water supplies. These are monitored to ensure the	standard (increasing trends		
3 day plate count 37 °C	efficiency of the treatment process and the cleanliness of the distribution system.	are investigated)		
Customer Parameters	emolency of the deathern process and the deathiness of the distribution system.	are investigated)		
	Alkalinity is normally due to bicarbonate salts of calcium and magnesium, but very occasionally sodium			
	bicarbonate may contribute. In the former case the alkalinity is sometimes called the "temporary hardness" as it is removed by boiling.			
Alkalinity				
	Occurs naturally in water after passage through mineral deposits and rock strata. Calcium contributes to the			
Calcium	total hardness of water.			
Chlorina (Basidual)	The concentration of chlorine used is carefully controlled and is set to ensure that water is adequately	No specific		
Chlorine (Residual)	disinfected, while minimising any taste or odour issues for consumers.	standard		
	Water should be clear and bright, but natural organic matter or pipework corrosion products may occasionally			
Colour	impart a slight tint. The standard is set for reasons of appearance and requires water to be virtually colourless.	20 mg/l Pt/Co		
Fluoride	Occurs naturally in many water sources. The standard is set to ensure no adverse effects.	1.5 mg F/I		
	Hardness is due to calcium and magnesium salts dissolved in the water. Hard water is perfectly safe and there is			
Hardness (Total)	evidence that it can even be good for your health, unless there are specific requirements to do so there is no	No specific		
Hardness (Total)	need to soften the water.	standard		
	A measure of the acidity or alkalinity of water; pH <7.0 is acidic and pH >7.0 is alkaline. Excessively acidic or	Min. 6.5 to max		
Hydrogen Ion (pH)	alkaline water can contribute to corrosion of pipes and fittings.	9.5 Abnormal &		
Quantitative Odour	Specialist tasting panels examine the water for taste or odour. These standards are measure of the aesthetic	unacceptable to		
Quantitative Taste	quality of drinking water. Unusual odours or tastes may indicate a problem which needs investigating.	consumers		
Temperature		No specific		
	The standard requires that there should be no haziness caused by fine particles. Sometimes minute air bubbles			
T. ook idito	give the supply a milky appearance but on standing for a few minutes these will clear from the bottom of the	4 NTU		
Turbidity	glass upwards. Chemicals			
Metals	Circinicals			
Antimony		5 μg Sb/l		
Arsenic		10 μg As/l		
Cadmium Chromium	Very low levels of these substances may occur naturally, but in higher amounts could be associated with	5 μg Cd/l		
Mercury	industrial pollution. The standards are health-related and have a large safety factor built in.	50 μg Cr/l		
Nickel	+	1 μg Hg/l 20 μg Ni/l		
Merce	Occurs naturally in many water resources. Aluminum compounds are also used at some water treatment	20 με 11/1		
Aluminum	works to remove impurities, but are themselves removed in the process.	200 μg Al/l		
	Any significant amount of copper is likely to come from corrosion of customers' pipes and fittings. An excess of			
Copper	copper can cause a metallic taste.	2 mg Cu/l		
	Iron may be associated with corrosion of old iron water mains. Iron based compounds are also used at some			
Iron	water treatment works to remove impurities, but are themselves removed in the process. The standard for iron has been set for aesthetic reasons as levels persistently above the standard can give rise to discoloured water.	200 ug Fo/l		
	Absent in the water entering supply but variable concentrations of lead may be found in water at the	200 μg Fe/l		
	customer's tap in older properties built at a time when lead was commonly used in domestic plumbing			
Lead	systems. The standard recognises that the intake of lead should be minimised for public health reasons.	10 μg Pb/l		
	Occurs naturally in many waters but is usually removed during treatment. The standard is set for aesthetic			
Manganese	reasons as black deposits of manganese dioxide can cause discoloured water.	50μg Mn/l		
	May be naturally present after passing through certain mineral deposits and rock strata or introduced by some			
Sodium	water softening processes. The standard is set well below the level which could affect health.	200 mg Na/l		
Pesticides Atrazine		0.1 μg/l		
Carbetamide	 	0.1 μg/l 0.1 μg/l		
	 	0.1 μg/l		
Clopyralid				
Clopyralid Glyphosate	 	0.1 ug/l		
Clopyralid Glyphosate Mecoprop	Associated with the use of these substances by agriculture, industry and local authorities. The standards are set	0.1 μg/l 0.1 μg/l		
Glyphosate	Associated with the use of these substances by agriculture, industry and local authorities. The standards are set well below the levels that might cause health problems, but levels should be minimised by good practice and	1.0		
Glyphosate Mecoprop	-	0.1 μg/l		
Glyphosate Mecoprop Metaldehyde	well below the levels that might cause health problems, but levels should be minimised by good practice and	0.1 μg/l 0.1 μg/l		
Glyphosate Mecoprop Metaldehyde Metazachlor Propyzamide Simazine	well below the levels that might cause health problems, but levels should be minimised by good practice and	0.1 μg/l 0.1 μg/l 0.1 μg/l		
Glyphosate Mecoprop Metaldehyde Metazachlor Propyzamide	well below the levels that might cause health problems, but levels should be minimised by good practice and	0.1 μg/l 0.1 μg/l 0.1 μg/l 0.1 μg/l		

Additional Parameters		
Ammonium	May be naturally present in some water sources and is not harmful.	
	Benzene may be introduced into source water by industrial effluents or atmospheric pollution. Benzene can	
Benzene	migrate through plastic pipework if petrol is spilled nearby.	
	Benzo(a)pyrene belongs to a group of compounds known as polycyclic aromatic hydrocarbons (PAHs). If	
	detected in drinking water, the usual source is as a result of deterioration of coal tar linings in water mains.	
	Benzo(a)pyrene is seldom detected in drinking water as a result of extensive water mains refurbishment and	
Benzo (a) Pyrene	renewal.	0.01 μg/l
	Very low levels of boron may occur naturally, but in higher amounts could be associated with industrial	
Boron	pollution. The standard is health related and has a large safety factor built in.	1 mg B/l
Bromate	Can be associated with industrial pollution or can occur as a by-product of the disinfection process.	10 μg BrO3/l
	Occurs naturally in most water sources. Levels above the standard could give rise to taste issues and contribute	
Chloride	to corrosion.	250 mg Cl/l
	A measure of the ability of water to conduct an electric current and therefore a measurement of the mineral	2500 μs/cm at
Electrical Conductivity at 20 °C	salts dissolved in the water.	20°C
	Nitrate arises from the use of fertilisers from agricultural and may be minimised by good practices and	
Nitrate	appropriate controls. The standard is set well below concentrations that could be harmful.	50 mg NO3/I
	Nitrite may be associated with nitrate or with the use of ammonium in water disinfection. Careful control of the	
	disinfection process reduces formation of nitrite. The standard is set well below concentrations that could be	0.5 mg NO2/I
Nitrite	harmful.	
	Very low levels of selenium may occur naturally, but in higher amounts could be associated with industrial	
Selenium	pollution. The standard is health related and has a large safety factor built in.	10 μg Se/l
	Dissolves in water after contact with certain mineral deposits and rock strata. Excess levels can contribute to	
Sulphate	corrosion.	250 mg SO4/I
	This standard is the sum of the concentration of trichloroethene and tetrachloroethene. The presence of these	
Sum of Tri & Tetrachloroethene	organic solvents is an indication of industrial pollution.	10 μg/l
Tetrachloromethane	The presence of this organic solvent is an indication of industrial pollution.	3 μg/l
	Very low levels of cyanide may occur naturally, but in higher amounts could be associated with industrial	
Total Cyanide	pollution. The standard is health related and has a large safety factor built in.	50 μg CN/I
Total Organic Carbon	This parameter provides a measure of the total amount of organic matter in water.	No abnormal
0	Associated with the deterioration of old coal tar linings which were used until the mid 1970s. The standards are	
Total PAHs	set well below the levels of significance to health.	0.1 μg/l
	THMs are formed by the reaction of chlorine added as a disinfectant with naturally occurring organic	, 0,
Total Trihalomethanes	compounds in the water. The standards are set well below the levels of significance to health.	100 μg/l
1, 2 dichloroethane	The presence of this organic solvent is an indication of industrial pollution.	3 μg/l

http://dwi.defra.gov.uk/