

SERVIÇOS MUNICIPALIZADOS DE PENICHE		DADOS DO CONTROLO DA QUALIDADE DA ÁGUA PARA CONSUMO HUMANO NO CONCELHO DE: PENICHE								4º Trimestre	
		Zona de Abastecimento: ZA1_TC_2023								2023	
Em conformidade com o Decreto-Lei n.º 69/2023, de 21 de agosto, procedeu-se à verificação da qualidade da água da rede pública, através de análises periódicas na torneira do consumidor, segundo o Programa de Controlo da Qualidade da Água (PCQA) aprovado pela autoridade competente (ERSAR).											
Grupo	Parâmetro	Nº Amostras PCQA			Unidades	Valor Paramétrico (VP)	Valor Recomendado (Indicador)	Resultados Obtidos		Nº amostras superiores ao VP	Análises que cumprem o VP (%)
		Nº Análises Previstas	Nº Análises Realizadas	% de Análises Realizadas				Máximos	Mínimos		
CR1	Bactérias coliformes	6	6	100	UFC/100mL	0	---	0	0	0	100
	Cloro residual livre	6	6	100	mg/L Cl ₂	---	≥ 0,2 e ≤ 0,6	0,9	0,4	0	100
	E. coli	6	6	100	UFC/100mL	0	---	0	0	0	100
	Alumínio	3	3	100	µg/L Al	200	---	30,1	17,5	0	100
	Amónio	3	3	100	mg/L NH ₄ ⁺	0,50	---	<0,05	<0,05	0	100
	Cheiro	3	3	100	Factor diluição	3	---	<1	<1	0	100
	Clostridium perfringens (incluindo esporos)	3	3	100	UFC/100mL	0	---	0	0	0	100
	Condutividade	3	3	100	µS/cm a 20°C	2500	---	577	355	0	100
	Carbono orgânico total (COT)	3	3	100	mg/L C	SAA	---	1,53	0,93	0	100
	Cor	3	3	100	mg/L PtCo	20	---	<3,0	<3,0	0	100
CR2	Enterococos	3	3	100	UFC/100mL	0	---	0	0	0	100
	Ferro	3	3	100	µg/L Fe	200	---	125	<20,0	0	100
	Manganês	3	3	100	µg/L Mn	50	---	<4,0	<4,0	0	100
	Nitratos	3	3	100	mg/L NO ₃	50	25	11,8	1,3	0	100
	Nitritos	3	3	100	mg/L NO ₂	0,1	---	<0,10	<0,10	0	100
	Número total de Germes a 22°C	3	3	100	UFC/mL	SAA	100	0	0	0	100
	Número total de Germes a 37°C	3	3	100	UFC/mL	SAA	20	0	0	0	100
	Oxidabilidade	3	3	100	mg/L O ₂	5	---	3,2	<1,0	0	100
	pH	3	3	100	Unidades de pH	≥ 6,5 e ≤ 9,5	---	8,0	7,6	0	100
	Sabor	3	3	100	Factor diluição	3	---	<1	<1	0	100
	Trihalometanos total	3	3	100	µg/L	100	---	72,1	37,8	0	100
	Bromoformio	3	3	100	µg/L	---	---	24,2	2,84	0	100
	Cloroformio	3	3	100	µg/L	---	---	16,6	9,83	0	100
	Dibromoclorometano	3	3	100	µg/L	---	---	24,1	7,03	0	100
	Bromodiclorometano	3	3	100	µg/L	---	---	14,0	10,2	0	100
	Turvação	3	3	100	NTU	≤ 1	---	<0,20	<0,20	0	100
	1,2-dicloroetano	0	0	---	µg/L	3	---	---	---	0	---
	Alfa total	0	0	---	Bq/L	0,1 Bq/L	---	---	---	0	---
	Antimónio	0	0	---	µg/L Sb	5	---	---	---	0	---
	Arsénio	0	0	---	µg/L As	10	---	---	---	0	---
	Benz(a)pireno	0	0	---	µg/L	1	---	---	---	0	---
	Boro	0	0	---	µg/L B	0,01	---	---	---	0	---
	Bromatos	0	0	---	µg/L BrO ₃	10	---	---	---	0	---
	Cádmio	0	0	---	µg/L Cd	5	---	---	---	0	---
	Cálcio	0	0	---	mg/L Ca	---	<100	---	---	0	---
	Chumbo	0	0	---	µg/L Pb	10	---	---	---	0	---
	Cianetos	0	0	---	µg/L CN	50	---	---	---	0	---
	Cloretos	0	0	---	mg/L Cl	250	---	---	---	0	---
	Cobre	0	0	---	mg/L Cu	2,0	---	---	---	0	---
	Crómio	0	0	---	µg/L Cr	50	---	---	---	0	---
	Dose Indicativa total	0	0	---	mSv/ano	0,1 mSv/ano	---	---	---	0	---
	Dureza total	0	0	---	mg/L CaCO ₃	---	≥ 150 e ≤ 500	---	---	0	---
	Fluoretos	0	0	---	mg/L F	1,5	---	---	---	0	---
	Hidrocarbonetos aromáticos policíclicos (HAP)	0	0	---	µg/L	0,1	---	---	---	0	---
	Benzo(b)fluoranteno	0	0	---	µg/L	0,1	---	---	---	0	---
	Benzo(k)fluoranteno	0	0	---	µg/L	0,1	---	---	---	0	---
	Benzo(g,h,i)perileno	0	0	---	µg/L	0,1	---	---	---	0	---
	Indeno(1,2,3-cd)pireno	0	0	---	µg/L	0,1	---	---	---	0	---
	Magnésio	0	0	---	mg/L Mg	---	≤ 50	---	---	0	---
	Mercurio	0	0	---	µg/L Hg	1	---	---	---	0	---
	Níquel	0	0	---	µg/L Ni	20	---	---	---	0	---
	Pesticidas totais	2	2	100	µg/L	0,50	---	<0,10	<0,10	0	100
	Alacloro	1	1	100	µg/L	0,1	---	<0,030	<0,030	0	100
	Bentazona	1	1	100	µg/L	0,1	---	<0,030	<0,030	0	100
	Clorpirifos	0	0	---	µg/L	0,1	---	---	---	0	---
	Dimetatoe	0	0	---	µg/L	0,1	---	---	---	0	---
	Ometoato	0	0	---	µg/L	0,1	---	---	---	0	---
	Durão	0	0	---	µg/L	0,1	---	---	---	0	---
	Imidaclopride	0	0	---	µg/L	0,1	---	---	---	0	---
	Isopturão	1	1	100	µg/L	0,1	---	<0,030	<0,030	0	100
	Linurão	1	1	100	µg/L	0,10	---	<0,030	<0,030	0	100
	MCPA	0	0	---	µg/L	0,1	---	---	---	0	---
	Metalaxil / Metalixil-M	1	1	100	µg/L	0,1	---	<0,010	<0,010	0	100
	Melolachoro	0	0	---	µg/L	0,1	---	---	---	0	---
	Oxamil	0	0	---	µg/L	0,1	---	---	---	0	---
	Simazina	1	1	100	µg/L	0,1	---	<0,030	<0,030	0	100
	Desetilsimazina	1	1	100	µg/L	0,1	---	<0,030	<0,030	0	100
	Terbutiazina	0	0	---	µg/L	0,1	---	---	---	0	---
	Desetilterbutiazina	0	0	---	µg/L	0,1	---	---	---	0	---
	Dimeteramida-P	1	1	100	µg/L	0,1	---	<0,030	<0,030	0	100
Metribuzina	0	0	---	µg/L	0,1	---	---	---	0	---	
	Polónio-210	0	0	---	Bq/L	0,1	---	---	---	0	---
	Radão	0	0	---	Bq/L	500 Bq/L	---	---	---	0	---
	Radio-226	0	0	---	Bq/L	0,5	---	---	---	0	---
	Selénio	0	0	---	µg/L Se	10	---	---	---	0	---
	Sódio	0	0	---	mg/L Na	200	---	---	---	0	---
	Sulfatos	0	0	---	mg/L SO ₄	250	---	---	---	0	---
	Tetracloroeteno e Tricloroeteno	0	0	---	µg/L	10	---	---	---	0	---
	Urânio-234	0	0	---	Bq/L	2,8	---	---	---	0	---
	Urânio-238	0	0	---	Bq/L	3	---	---	---	0	---
	TOTAL		97	97							

Legenda

>/< Valor superior ou inferior ao Limite de Quantificação

SAA Sem alteração anormal

Abc Valor superior ao limite permitido por lei (valor paramétrico)

Abc Valor superior / inferior ao recomendado por lei (parâmetros indicadores)

a) A realizar apenas quando o resultado dos parâmetros "alfa total" > 0,10 Bq/L e "Dose Indicativa total" > 0,1 mSv

Metodologia de averiguação de causas relativas a incumprimentos:	Causas relativas a incumprimentos:	Medidas corretivas implementadas:
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