

SERVIÇOS MUNICIPALIZADOS DE PENICHE		DADOS DO CONTROLO DA QUALIDADE DA ÁGUA PARA CONSUMO HUMANO NO CONCELHO DE: PENICHE							3º Trimestre		
		Zona de Abastecimento: ZA4_TC_2024							2024		
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 tomada 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	0,5	<0,16	0	100
	E. coli	6	6	100	UFC/100mL	0	---	0	0	0	100
	Alumínio	4	4	100	µg/L Al	200	---	50	22,1	0	100
	Amónio	4	4	100	mg/L NH ₄	0,5	---	<0,05	<0,05	0	---
	Cheiro	4	4	100	Factor diluição	3	---	<1	<1	0	100
	Clostridium perfringens (incluindo esporos)	4	4	100	UFC/100mL	0	---	0	0	0	100
	Condutividade	4	4	100	µS/cm a 20°C	2500	---	629	467	0	100
	Carbénio orgânico total (COT)	4	4	100	mg/L C	SAA	---	2,82	1,60	0	100
	Cor	4	4	100	mg/L PtCo	20	---	<3,0	<3,0	0	100
CR2	Enterococos intestinais	4	4	100	UFC/100mL	0	---	0	0	0	100
	Ferro	4	4	100	µg/L Fe	200	---	<60	6,8	0	100
	Manganês	4	4	100	µg/L Mn	50	---	<4,0	<0,50	0	100
	Nitratos	4	4	100	mg/L NO ₃	50	25	2,7	<1,0	0	100
	Nitratos	4	4	100	mg/L NO ₃	0,1	---	<0,10	<0,10	0	100
	Número de colónias a 22°C	4	4	100	UFC/mL	SAA	100	0	0	0	100
	Oxidabilidade	4	4	100	mg/L O ₂	5	---	2	1,0	0	100
	pH	4	4	100	Unidades de pH	> 6,5 e ≤ 9,5	---	8,3	7,9	0	100
	Sabor	4	4	100	Factor diluição	3	---	<1	<1	0	100
	Trihalometanos total (THM)	4	4	100	µg/L	100	---	112	85,2	1	75
	Bromofórmio	4	4	100	µg/L	---	---	43,0	22,0	0	100
	Clorofórmio	4	4	100	µg/L	---	---	16,0	1,76	0	100
	Dibromodiclorometano	4	4	100	µg/L	---	---	40,6	23,1	0	100
	Bromodiclorometano	4	4	100	µg/L	---	---	17,3	9,41	0	100
	Turvação	4	4	100	NTU	5	---	<1,0	<0,20	0	100
	Cheiro	0	0	---	Factor de diluição	3	---	---	---	0	---
	1,2-dicloroetano	0	0	---	µg/L	3	---	---	---	0	---
	Alfa total	0	0	---	Bq/L	0,1	---	---	---	0	---
	Antimónio	0	0	---	µg/L Sb	5	---	---	---	0	---
	Ársénio	0	0	---	µg/L As	10	---	---	---	0	---
	Benzeno	0	0	---	µg/L	3	---	---	---	0	---
	Benzo(a)pireno	0	0	---	µg/L	---	---	---	---	0	---
	Boro	0	0	---	mg/L B	1	---	---	---	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	---
	Cromatos	0	0	---	mg/L Cr	0,7	---	---	---	0	---
	Cloreto	0	0	---	mg/L Cl	250	---	---	---	0	---
	Clorido	0	0	---	mg/L	0,7	---	---	---	0	---
	Cobre	0	0	---	mg/L Cu	2	---	---	---	0	---
	Cromo	0	0	---	µg/L Cr	50	---	---	---	0	---
	Dose Indicativa total	0	0	---	mSv/ano	0,1	---	---	---	0	---
	Dureza total	0	0	---	mg/L CaCO ₃	---	≥ 100 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	---
	Benzo(k)fluoranteno	0	0	---	µg/L	---	---	---	---	0	---
	Benzo(g,h,i)perileno	0	0	---	µg/L	---	---	---	---	0	---
	Indeno(1,2,3-cd)pireno	0	0	---	µg/L	---	---	---	---	0	---
	Magnésio	0	0	---	mg/L Mg	---	≤ 50	---	---	0	---
	Mercúrio	0	0	---	µg/L Hg	1	---	---	---	0	---
	Níquel	0	0	---	µg/L Ni	20	---	---	---	0	---
	Paracetamol total	1	1	---	µg/L	0,05	---	<0,10	<0,10	0	100
	Alaclopro	0	0	---	µg/L	0,1	---	---	---	0	---
	Benflazina	0	0	---	µg/L	0,1	---	---	---	0	---
	Clorpirifos	1	1	100	µg/L	0,1	---	<0,0300	<0,0300	0	100
	Dimetianamida-P	1	1	100	µg/L	0,1	---	<0,030	<0,030	0	100
	M056P/H051	0	0	---	µg/L	0,1	---	---	---	0	---
	Dimetato	1	1	100	µg/L	0,1	---	<0,030	<0,030	0	100
	Ometato	1	1	100	µg/L	0,1	---	<0,030	<0,030	0	100
	Diazol	1	1	100	µg/L	0,1	---	<0,030	<0,030	0	100
	Imidaclopride	1	1	100	µg/L	0,1	---	<0,030	<0,030	0	100
	Isoproturaz	0	0	---	µg/L	0,1	---	---	---	0	---
	Linurão	0	0	---	µg/L	0,1	---	---	---	0	---
	MC/PA	0	0	---	µg/L	0,1	---	---	---	0	---
	Metaxil / Metaxil-M	0	0	---	µg/L	0,1	---	---	---	0	---
	Metolactone	1	1	---	µg/L	0,1	---	<0,030	<0,030	0	100
	Metribuzina	0	0	---	µg/L	0,1	---	---	---	0	---
	Oxame	1	1	100	µg/L	0,1	---	<0,050	<0,050	0	100
	Simazina	0	0	---	µg/L	0,1	---	---	---	0	---
	Desmetilazina	0	0	---	µg/L	0,1	---	---	---	0	---
	Terbutilazina	0	0	---	µg/L	0,1	---	---	---	0	---
	Desmetilterbutilazina	0	0	---	µg/L	0,1	---	---	---	0	---
	Gilfosato	0	0	---	µg/L	0,1	---	---	---	0	---
	AMPA	0	0	---	µg/L	0,1	---	---	---	0	---
	Polónio-210	0	0	---	Bq/L	0,1	---	---	---	0	---
	Potássio	0	0	---	mg/L	SAA	---	---	---	0	---
	Radão	0	0	---	Bq/L	500	---	---	---	0	---
	Radão-220	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	---
	Tetracloreto e Triclorometano	0	0	---	µg/L	10	---	---	---	0	---
	Urónio-234	0	0	---	Bq/L	2,8	---	---	---	0	---
TOTAL		115	115								

Legenda

>/< Valor superior ou inferior ao Limite de Quantificação

SAA Sem alteração anómala

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:
Realização de análises de verificação	X1: a presença de THM tem sido controlada pela adequada gestão do dosamento de hipoclorito de sódio, no respetivo sistema de tratamento, porém, a gestão do arranqueamento, derivado ao consumo, ou mesmo das EE, condicionam negativamente este controlo.	F: minimização dos tempos de residência da água nos reservatórios