

SERVIÇOS MUNICIPALIZADOS DE PENICHE		DADOS DO CONTROLO DA QUALIDADE DA ÁGUA PARA CONSUMO HUMANO NO CONCELHO DE: PENICHE								1º TRIMESTRE		
		ZONA DE ABASTECIMENTO: ZA1 - ETA SÃO DOMINGOS								2021		
Grupo	Parâmetro	Nº Amostras PCQA			Resultados Obtidos		Unidades	Valor Paramétrico (VP)	Valor Recomendado (indicador)	Nº amostras superiores ao VP	Análises que cumprem o VP (%)	
		Previstas (nº)	Realizadas (nº)	Realizadas (%)	Máximos	Mínimos						
CR1	Bactérias coliformes	6	6	100	0	0	UFC/ 100 mL	0	---	0	100	
	Cloro residual livre	6	6	100	0,5	<0,16	mg/ L Cl ₂	---	≥ 0,2 e ≤ 0,6	---	---	
	<i>E. coli</i>	6	6	100	0	0	N/ 100 mL	0	---	0	100	
CR2	Alumínio	3	3	100	46,8	23,7	µg/ L Al	200	---	0	100	
	Amónio	3	3	100	<0,05	<0,05	mg/ L NH ₄	0,5	---	0	100	
	Cheiro	3	3	100	<1	<1	Factor de diluição	3	---	0	100	
	<i>Clostridium perfringens</i> (incluindo esporos)	3	3	100	0	0	N/ 100 mL	0	---	0	100	
	Condutividade	3	3	100	168	138	µS/cm a 20°C	2500	---	0	100	
	Carbono orgânico total (COT)	3	3	100	1,45	0,83	ma/L	---	SAA	---	---	
	Cor	3	3	100	<3,0	<3,0	mg/ L PtCo	20	---	0	100	
	Enterococos	3	3	100	0	0	N/ 100 mL	0	---	0	100	
	Ferro	3	3	100	110	<60	µg/ L Fe	200	---	0	100	
	Manganês	3	3	100	14,8	0,61	µg/ L Mn	50	---	0	100	
	Nitritos	3	3	100	<0,10	<0,10	mg/ L NO ₂	0,1	---	0	100	
	Número total de Germes a 22°C	3	3	100	ND	ND	UFC/ mL	SAA	100	---	---	
	Número total de Germes a 37°C	3	3	100	ND	ND	UFC/ mL	SAA	20	---	---	
	Oxidabilidade	3	3	100	2,1	1,3	mg/ L O ₂	5	---	0	100	
	pH	3	3	100	8,2	7,9	Unidades de pH	≥ 6,5 e ≤ 9,5	---	0	100	
	Sabor	3	3	100	<1	<1	Factor de diluição	3	---	0	100	
	Trihalometanos Total	3	3	100	51,0	42,3	µg/ L	100	---	0	100	
	Bromofórmio	3	3	100	0,73	0,28	µg/ L	100	---	0	100	
	Clorofórmio	3	3	100	33,6	25,2	µg/ L	100	---	0	100	
	Bromodichlorometano	3	3	100	12,9	11,4	µg/ L	100	---	0	100	
	Dibromochlorometano	3	3	100	5,06	4,19	µg/ L	100	---	0	100	
	Turvação	3	3	100	<1	<1	NTU	≤ 1	---	0	100	
	CI	1,2-dicloroetano	0	0	---	---	---	µg/ L	3	---	---	---
		Antimónio	0	0	---	---	---	µg/ L Sb	5	---	---	---
Arsénio		0	0	---	---	---	µg/ L As	10	---	---	---	
Benzeno		0	0	---	---	---	µg/ L	1	---	---	---	
Benzo(a)pireno		0	0	---	---	---	µg/ L	0,01	---	---	---	
Boro		0	0	---	---	---	mg/ L B	1	---	---	---	
Bromatos		0	0	---	---	---	µg/ L BrO ₃	10	---	---	---	
Cádmio		0	0	---	---	---	µg/ L Cd	5	---	---	---	
Cálcio		0	0	---	---	---	mg/ L Ca	---	<100	---	---	
Chumbo		0	0	---	---	---	µg/ L Pb	10	---	---	---	
Cianetos		0	0	---	---	---	µg/ L CN	50	---	---	---	
Cloretos		0	0	---	---	---	mg/ L Cl	250	---	---	---	
Cobre		0	0	---	---	---	mg/ L Cu	2,0	---	---	---	
Crómio		0	0	---	---	---	µg/ L Cr	50	---	---	---	
Dureza total		0	0	---	---	---	mg/ L CaCO ₃	---	≥ 150 e ≤ 500	---	---	
Fluoretos		0	0	---	---	---	mg/ L F	1,5	---	---	---	
Hidrocarbonetos Aromáticos Policíclicos (HAP)		0	0	---	---	---	µg/ L	0,1	---	---	---	
Benzo(b)fluoranteno		0	0	---	---	---	µg/ L	0,1	---	---	---	
Benzo(g,h,i)perileno		0	0	---	---	---	µg/ L	0,1	---	---	---	
Benzo(k)fluoranteno		0	0	---	---	---	µg/ L	0,1	---	---	---	
Indeno(1,2,3-cd)pireno		0	0	---	---	---	µg/ L	0,1	---	---	---	
Magnésio		0	0	---	---	---	mg/ L Mg	---	≤ 50	---	---	
Mercurio		0	0	---	---	---	µg/ L Hg	1	---	---	---	
Níquel		0	0	---	---	---	µg/ L Ni	20	---	---	---	
Nitratos		0	0	---	---	---	mg/ L NO ₃	50	---	---	---	
Pesticidas totais		0	0	---	---	---	µg/ L	0,5	---	---	---	
Alacloro		0	0	---	---	---	µg/ L	0,1	---	---	---	
Bentazona		0	0	---	---	---	µg/ L	0,1	---	---	---	
Clorpirifos		0	0	---	---	---	µg/ L	0,1	---	---	---	
Dimetoato		0	0	---	---	---	µg/ L	0,1	---	---	---	
Omeotoato		0	0	---	---	---	µg/ L	0,1	---	---	---	
Diurão		0	0	---	---	---	µg/ L	0,1	---	---	---	
Imidaclopride		0	0	---	---	---	µg/ L	0,1	---	---	---	
Isoproturão		0	0	---	---	---	µg/ L	0,1	---	---	---	
Linurão		0	0	---	---	---	µg/ L	0,1	---	---	---	
MCPA		0	0	---	---	---	µg/ L	0,1	---	---	---	
Metalaxil / Metalaxil-M		0	0	---	---	---	µg/ L	0,1	---	---	---	
Metalacloro / S-Metalacloro		0	0	---	---	---	µg/ L	0,1	---	---	---	
Oxamil		0	0	---	---	---	µg/ L	0,1	---	---	---	
Simazina		0	0	---	---	---	µg/ L	0,1	---	---	---	
Dimetilsimazina		0	0	---	---	---	µg/ L	0,1	---	---	---	
Terbutilazina		0	0	---	---	---	µg/ L	0,1	---	---	---	
Desetilterbutilazina		0	0	---	---	---	µg/ L	0,1	---	---	---	
Selénio		0	0	---	---	---	µg/ L Se	10	---	---	---	
Sódio		0	0	---	---	---	mg/ L Na	200	---	---	---	
Sulfatos	0	0	---	---	---	mg/ L SO ₄	250	---	---	---		
Tetracloroetano	0	0	---	---	---	µg/ L	10	---	---	---		
Tricloroetano	0	0	---	---	---	µg/ L	10	---	---	---		
Alfa total	0	0	---	---	---	Bq/ L	0,1	---	---	---		
Dose Indicativa total	0	0	---	---	---	mSv	0,1	---	---	---		
Polónio-210	0	0	a)	---	---	Bq/L	0,1	---	---	---		
Rádio-226	0	0	a)	---	---	Bq/L	0,5	---	---	---		
Urânio-234	0	0	a)	---	---	Bq/L	2,8	---	---	---		
Urânio-238	0	0	a)	---	---	Bq/L	3,0	---	---	---		
TOTAL		84	84	100%							100%	

Legenda:

- >/ < Valor superior ou inferior ao Limite de Quantificação
- SAA Sem alteração anormal
- Abc Valor superior ao limite permitido por lei (valor paramétrico)
- Ahc 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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O Presidente do Conselho de Administração,

Henrique Bettino Batista Antunes

O Diretor Delegado,

Samuel Dias (engº)

Técnico Responsável

Márcia Reis (engº)