



MUNICÍPIO DE CASTELO DE PAIVA

EDITAL

Eng.º José Duarte de Sousa e Rocha, Presidente da Câmara Municipal de Castelo de Paiva,

A Câmara Municipal, em cumprimento do n.º 1, do artigo 17º, do Decreto-Lei n.º 69/2023, de 21 de agosto, na sua redação atual, vem **publicitar** o resultado do **CONTROLO ANALÍTICO DA QUALIDADE DA ÁGUA** relativa ao 2º trimestre de 2024.

Para constar e devidos efeitos, se publica o presente edital e outros de igual teor que vão ser afixados nos lugares públicos e do costume.

Castelo de Paiva, 07 de agosto de 2024

O Presidente da Câmara Municipal,

(José Rocha, Eng.º)



MUNICÍPIO DE CASTELO DE PAIVA

CONTROLO DA QUALIDADE DA ÁGUA PARA CONSUMO HUMANO
NAS ZONAS DE ABASTECIMENTO¹ DO CONCELHO DE CASTELO DE PAIVA

EDITAL n.º 108

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).

2º TRIMESTRE 2024
1 abril a
30 de junho

Parâmetro (unidades)	Valor Paramétrico (VP) fixado no DL 69/2023, de 21 de agosto	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º Análises (PCQA)		% Análises Realizadas
		Mínimo	Máximo			Agendadas	Realizadas	
Controlo Rotina 1								
Escherichia coli (N/100 ml)	0	---	0	0	100%	19	19	100%
Bactérias coliformes (N/100 ml)	0	---	0	0	100%	19	19	100%
Desinfetante residual (mg/L)	---	0,3	>1,5	---	---	19	19	100%
Controlo Rotina 2								
Enterococos (N/100 mL)	0	---	0	0	100%	11	11	100%
Número de colónias a 22 °C (N/ml)	Sem alteração anormal	<1	1	---	---	11	11	100%
Condutividade (µS/cm a 20°C)	2500	300	1200	0	100%	11	11	100%
Cor (mg/L PtCo)	20	---	<2	0	100%	11	11	100%
pH (Unidades pH)	≥8,5 e ≤9	6,7	8,3	0	100%	11	11	100%
Ferro (µg/L Fe)	200	---	<50	0	100%	11	11	100%
Clostridium perfringens (N/100ml)	0	---	0	0	100%	11	11	100%
Manganês (µg/L Mn)	50	---	<15	0	100%	8	8	100%
Nitratos (mg/L NO ₃)	50	---	<10	0	100%	7	7	100%
Oxidabilidade (mg/L O ₂)	5	---	<1,5	0	100%	8	8	100%
Cheiro a 25°C (Factor de diluição)	3	---	<1	0	100%	11	11	100%
Sabor a 25°C (Factor de diluição)	3	---	<1	0	100%	11	11	100%
Turvação (NTU)	4	<0,5	0,54	0	100%	11	11	100%
Controlo de Inspeção								
Amónio (mg/L NH ₄)	0,50	<0,02	<0,09	0	100%	8	8	100%
Alumínio (µg/L Al)	200	---	<50	0	100%	8	8	100%
Nitritos (mg/L NO ₂)	0,5	---	<0,02	0	100%	8	8	100%
Antimónio (µg/L Sb)	5,0	---	<1,5	0	100%	7	7	100%
Arsénio (µg/L As)	10	---	<3	0	100%	7	7	100%
Benzeno (µg/L)	1,0	---	<0,3	0	100%	7	7	100%
Benzo(a)pireno (µg/L)	0,010	---	<0,003	0	100%	8	8	100%
Cloratos (mg/L)	0,7	0,0584	1	1	88%	8	8	100%
Cloritos (mg/L)	0,7	<0,005	0,443	0	100%	8	8	100%
Potássio (mg/L K)	Sem alteração anormal	<0,5	3,3	---	---	8	8	100%
Boro (mg/L B)	1,0	---	<0,15	0	100%	7	7	100%
Bromatos (µg/L BrO3)	10,0	---	<3	0	100%	7	7	100%
Cádmio (µg/L Cd)	5,0	---	<1	0	100%	7	7	100%
Cálcio (mg/L Ca)	---	<5	23,5	---	---	8	8	100%
Chumbo (µg/L Pb)	10	<3	4,5	0	100%	8	8	100%
Cianetos (µg/L CN)	50	---	<15	0	100%	7	7	100%
Cobre (mg/L Cu)	2,0	---	<0,3	0	100%	8	8	100%
Crómio (µg/L Cr)	50	---	<2	0	100%	8	8	100%
1-2 Dicloroetano (µg/L)	3,0	---	<0,3	0	100%	7	7	100%
Dureza total (mg/L CaCO3)	---	<17	140	---	---	8	8	100%
Fluoretos (mg/L F)	1,5	---	<0,1	0	100%	7	7	100%
Magnésio (mg/L Mg)	---	1,2	15	---	---	8	8	100%
Mercurio(µg/L Hg)	1,0	---	<0,2	0	100%	7	7	100%
Níquel (µg/L Ni)	20	<5	9	0	100%	8	8	100%
Hidrocarbonetos Aromáticos Policíclicos- HAP (µg/L):	0,10	---	<0,01	0	100%	8	8	100%
Benzo(b)fluoranteno (µg/L)	---	---	<0,01	---	---	8	8	100%
Benzo(k)fluoranteno (µg/L)	---	---	<0,01	---	---	8	8	100%
Benzo(ghi)perileno (µg/L)	---	---	<0,01	---	---	8	8	100%
Indeno[1,2,3-cd]pireno(µg/L)	---	---	<0,01	---	---	8	8	100%
Selénio (µg/L Se)	20	---	<3	0	100%	7	7	100%
Cloretos (mg/L Cl)	250	<10	13	0	100%	7	7	100%
Tetracloreto e Tricloroetano (µg/L):	10	---	<3	0	100%	7	7	100%
Tetracloreto (µg/L)	---	---	<3	---	---	7	7	100%
Tricloroetano (µg/L)	---	---	<3	---	---	7	7	100%
Trihalometanos - total (µg/L):	100	<3	25	0	100%	8	8	100%
Clorofórmio(µg/L)	---	<3	19	---	---	8	8	100%
Bromofórmio(µg/L)	---	---	<3	---	---	8	8	100%
Bromodiclorometano(µg/L)	---	<3	6	---	---	8	8	100%
Dibromodiclorometano(µg/L)	---	---	<3	---	---	8	8	100%
Sódio (mg/L Na)	200	5	49	0	100%	7	7	100%
Sulfatos (mg/L SO4)	250	<10	29	0	100%	7	7	100%
Alfa total (Bq/l)	<0,05	---	<0,04	0	100%	7	7	100%
Dose indicativa (mSv/ano)	<0,10	---	<0,1	0	100%	7	7	100%
Radão (Bq/l)	500	12,3	95,2	0	100%	7	7	100%
Pesticidas - total (µg/L):	0,5	---	<0,03	0	100%	7	7	100%
Bentazona (µg/L)	0,10	---	<0,03	0	100%	7	7	100%
Clorpirifos (µg/L)	0,10	---	<0,03	0	100%	7	7	100%
Desetilterbutilazina (µg/L)	0,10	---	<0,03	0	100%	7	7	100%
Dimetoato (µg/L)	0,10	---	<0,03	0	100%	7	7	100%
Diurão (µg/L)	0,10	---	<0,03	0	100%	7	7	100%
MCPA (µg/L)	0,10	---	<0,03	0	100%	7	7	100%
Metribuzina (µg/L)	---	---	<0,03	---	---	7	7	100%
Metolaclo (µg/L)	0,10	---	<0,03	0	100%	7	7	100%
Terbutilazina (µg/L)	0,10	---	<0,03	0	100%	7	7	100%
Ometoato (µg/L)	0,10	---	<0,025	0	100%	7	7	100%

Imidaclopride (µg/L)	0,10	---	<0,03	0	100%	7	7	100%
Simazina (µg/L)	0,10	---	<0,03	0	100%	7	7	100%
Desetilsimazina (µg/L)	0,10	---	<0,03	0	100%	7	7	100%
Parâmetros conservativos								
Acetilamida ¹ (µg/l)	0,10	---	---	---	---	---	---	---
Antimónio ¹ (mg/l NH4)	10	---	---	---	---	---	---	---
Arsénio ¹ (µg/l As)	10	---	---	---	---	---	---	---
Benzeno ¹ (µg/l)	1	---	---	---	---	---	---	---
Boro ¹ (mg/l B)	1,50	---	---	---	---	---	---	---
Bromatos ¹ (µg/l BrO3)	10	---	---	---	---	---	---	---
Cádmio ¹ (µg/l Cd)	5	---	---	---	---	---	---	---
Cianetos ¹ (µg/l CN)	50	---	---	---	---	---	---	---
Cloretos ¹ (mg/l Cl)	250	---	---	---	---	---	---	---
1,2-dicloroetano ¹ (µg/l)	3	---	---	---	---	---	---	---
Fluoretos ¹ (mg/l F)	1,50	---	---	---	---	---	---	---
Mercurio ¹ (µg/l Hg)	1	---	---	---	---	---	---	---
Nitratos ¹ (mg/l NO3)	50	---	---	---	---	---	---	---
Pesticidas - total ¹ (µg/l)	0,50	<0,030	---	0	100%	1	1	100%
2,4-D (µg/l)	0,10	0,1	---	0	100%	1	1	100%
Alacloro (µg/l)	0,10	0,1	---	0	100%	1	1	100%
AMPA (µg/l)	0,10	---	---	---	---	---	---	---
Bentazona (µg/l)	0,10	<0,03	---	0	100%	1	1	100%
Clorpirifos (µg/l)	0,10	---	---	---	---	---	---	---
Desetilsimazina (µg/l)	0,10	0	---	0	100%	1	1	100%
Desetilterbutilazina (µg/l)	1,10	---	---	---	---	---	---	---
Dimetenamida-P (µg/l)	0,10	---	---	---	---	---	---	---
Dimetoato (µg/l)	0,10	---	---	---	---	---	---	---
Diurão (µg/l)	1,10	---	---	---	---	---	---	---
Glifosato (µg/l)	0,10	---	---	---	---	---	---	---
Imidaclopride (µg/l)	0,10	---	---	---	---	---	---	---
M656PH051 (µg/l)	0,10	---	---	---	---	---	---	---
MCPA (µg/l)	0,10	---	---	---	---	---	---	---
Metalaxil (µg/l)	1,10	0	---	0	100%	1	1	100%
Metolaclo (µg/l)	0,10	---	---	---	---	---	---	---
Metribuzina (µg/l)	0,10	---	---	---	---	---	---	---
Ometoato (µg/l)	0,10	---	---	---	---	---	---	---
Oxadiazão (µg/l)	0,10	---	---	---	---	---	---	---
Simazina (µg/l)	0,10	0	---	0	100%	1	1	100%
Terbutilazina (µg/l)	0,10	---	---	---	---	---	---	---
PFAS ¹ (µg/l)	0,10	---	---	---	---	---	---	---
Selénio ¹ (µg/l Se)	20	---	---	---	---	---	---	---
Sódio ¹ (mg/l Na)	200	---	---	---	---	---	---	---
Sulfatos ¹ (mg/l SO4)	250	---	---	---	---	---	---	---
Tetracloroeteno e Tricloroeteno: ¹ (µg/l)	10	---	---	---	---	---	---	---
Tetracloroeteno (µg/l)	---	---	---	---	---	---	---	---
Tricloroeteno (µg/l)	---	---	---	---	---	---	---	---
Urânio ¹ (µg/l)	30	---	---	---	---	---	---	---

NOTA 1: Parâmetro analisado pela entidade gestora em alta (Águas do Douro e Paiva)

NOTA 2: Zonas de abastecimento controladas: Sistema Central, Sistema de Seixo, Sistema de Almansôr, Sistema de Molinho, Sistema de M6, Sistema de Gilde, Sistema de Vilar de Elrigo (fontanário origem única de água) e Sistema de Nogueira (fontanário origem única de água).

Informação complementar relativa à averiguação das situações de incumprimento dos VP (causas e medidas correctivas): incumprimento de cloratos registado no sistema de Molinho; Causa: qualidade inadequada dos reagentes utilizados; Medidas correctivas: Alteração do reagente aplicado no tratamento.

O Presidente da Câmara Municipal: Eng.º José Rocha

Date da publicação: 07/08/2024



Resumo do Controlo Analítico da Qualidade da Água
Zona de abastecimento "Sistema Central"
(Abrange todas as freguesias do Concelho)

Parâmetro (unidades)	Valor Paramétrico (VP) fixado no DL 69/2023, de 21 de agosto	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º Análises (PCQA)		% Análises Realizadas
		Mínimo	Máximo			Agendadas	Realizadas	
Controlo Rotina 1								
Escherichia coli (N/100 ml)	0	---	0	0	100%	1	1	100%
Bactérias coliformes (N/100 ml)	0	---	0	0	100%	1	1	100%
Desinfetante residual (mg/L)	---	---	0,9	---	---	1	1	100%
Controlo Rotina 2								
Número de colónias a 22 °C (N/ml)	Sem alteração anormal	---	<1	---	---	1	1	100%
Condutividade (µS/cm a 20°C)	2500	---	140	0	100%	1	1	100%
Cor (mg/L PtCo)	20	---	<2	0	100%	1	1	100%
pH (Unidades pH)	≥8,5 e ≤9	---	7,8	0	100%	1	1	100%
Ferro (µg/L Fe)	200	---	<50	0	100%	1	1	100%
Clostridium perfringens (N/100ml)	0	---	0	0	100%	1	1	100%
Enterococos (N/100 mL)	0	---	0	0	100%	1	1	100%
Cheiro a 25°C (Factor de diluição)	3	---	<1	0	100%	1	1	100%
Sabor a 25°C (Factor de diluição)	3	---	<1	0	100%	1	1	100%
Turvação (NTU)	4	---	0,54	0	100%	1	1	100%
Controlo de Inspeção								
Amónio (mg/L NH ₄)	0,50	---	0,08	0	100%	1	1	100%
Alumínio (µg/L Al)	200	---	<50	0	100%	1	1	100%
Nitritos (mg/L NO ₂)	0,5	---	<0,02	0	100%	1	1	100%
Benzo(a)pireno (µg/L)	0,010	---	<0,003	0	100%	1	1	100%
Cloratos (mg/L)	0,7	---	0,0584	0	100%	1	1	100%
Cloritos (mg/L)	0,7	---	0,443	0	100%	1	1	100%
Cálcio (mg/L Ca)	---	---	22,3	0	100%	1	1	100%
Chumbo (µg/L Pb)	10	---	<3	0	100%	1	1	100%
Cobre (mg/L Cu)	2,0	---	<0,3	0	100%	1	1	100%
Dureza total (mg/L CaCO3)	---	---	60	---	---	1	1	100%
Potássio (mg/L K)	Sem alteração anormal	---	0,6	---	---	1	1	100%
Oxidabilidade (mg/L O ₂)	5	---	<1,5	0	100%	1	1	100%
Manganês (µg/L Mn)	50	---	<15	0	100%	1	1	100%
Magnésio (mg/L Mg)	---	---	1,2	---	---	1	1	100%
Níquel (µg/L Ni)	20	---	9	0	100%	1	1	100%
Crómio (µg/L Cr)	50	---	<2	0	100%	1	1	100%
Hidrocarbonetos Aromáticos Policíclicos- HAP (µg/L):	0,10	---	<0,010	0	100%	1	1	100%
Benzo(b)fluoranteno (µg/L)	---	---	<0,01	---	---	1	1	100%
Benzo(k)fluoranteno (µg/L)	---	---	<0,01	---	---	1	1	100%
Benzo(ghi)perileno (µg/L)	---	---	<0,01	---	---	1	1	100%
Indeno(1,2,3-cd)pireno(µg/L)	---	---	<0,01	---	---	1	1	100%
Trihalometanos - total (µg/L):	100	---	25	0	100%	1	1	100%
Clorofórmio(µg/L)	---	---	19	---	---	1	1	100%
Bromofórmio(µg/L)	---	---	<3	---	---	1	1	100%
Bromodiclorometano(µg/L)	---	---	6	---	---	1	1	100%
Dibromoclorometano(µg/L)	---	---	<3	---	---	1	1	100%
Parâmetros conservativos								
Acetilamida ¹ (µg/l)	0,1	---	---	---	---	---	---	---
Antimónio ¹ (mg/l NH4)	10,0	---	---	---	---	---	---	---
Arsénio ¹ (µg/l As)	10	---	---	---	---	---	---	---
Benzeno ¹ (µg/l)	1,0	---	---	---	---	---	---	---
Boro ¹ (mg/l B)	1,5	---	---	---	---	---	---	---
Bromatos ¹ (µg/l BrO3)	10	---	---	---	---	---	---	---
Cádmio ¹ (µg/l Cd)	5,0	---	---	---	---	---	---	---
Cianetos ¹ (µg/l CN)	50	---	---	---	---	---	---	---
Cloretos ¹ (mg/l Cl)	250	---	---	---	---	---	---	---
1,2-dicloroetano ¹ (µg/l)	3,0	---	---	---	---	---	---	---
Fluoretos ¹ (mg/l F)	1,5	---	---	---	---	---	---	---
Mercúrio ¹ (µg/l Hg)	1,0	---	---	---	---	---	---	---
Nitratos ¹ (mg/l NO3)	50	---	---	---	---	---	---	---
Pesticidas - total ¹ (µg/l)	0,50	<0,030	0	100%	1	1	100%	
2,4-D (µg/l)	0,10	0,1	0	100%	1	1	100%	
Alacloro (µg/l)	0,10	0,1	0	100%	1	1	100%	
AMPA (µg/l)	0,10	---	---	---	---	---	---	---
Bentazona (µg/l)	0,10	<0,03	0	100%	1	1	100%	
Clorpirifos (µg/l)	0,10	---	---	---	---	---	---	---
Desetilsimazina (µg/l)	0,10	0	0	100%	1	1	100%	
Desetilterbutilazina (µg/l)	1,10	---	---	---	---	---	---	---
Dimetenamida-P (µg/l)	0,10	---	---	---	---	---	---	---
Dimetoato (µg/l)	0,10	---	---	---	---	---	---	---
Diurão (µg/l)	1,10	---	---	---	---	---	---	---
Glifosato (µg/l)	0,10	---	---	---	---	---	---	---
Imidaclopride (µg/l)	0,10	---	---	---	---	---	---	---
M656PH051 (µg/l)	0,10	---	---	---	---	---	---	---
MCPA (µg/l)	0,10	---	---	---	---	---	---	---
Metalaxil (µg/l)	1,10	0	0	100%	1	1	100%	
Metolacloro (µg/l)	0,10	---	---	---	---	---	---	---
Metribuzina (µg/l)	0,10	---	---	---	---	---	---	---
Ometoato (µg/l)	0,10	---	---	---	---	---	---	---
Oxadiazão (µg/l)	0,10	---	---	---	---	---	---	---
Simazina (µg/l)	0,10	0	0	100%	1	1	100%	
Terbutilazina (µg/l)	0,10	---	---	---	---	---	---	---
PFAS ¹ (µg/l)	0,10	---	---	---	---	---	---	---
Selénio ¹ (µg/l Se)	20	---	---	---	---	---	---	---
Sódio ¹ (mg/l Na)	200	---	---	---	---	---	---	---

Sulfatos¹ (mg/l SO4)	250	---	---	---	---	---	---
Tetracloroeteno e Tricloroeteno:¹ (µg/l)	10	---	---	---	---	---	---
Tetracloroeteno (µg/l)	---	---	---	---	---	---	---
Tricloroeteno (µg/l)	---	---	---	---	---	---	---
Urânio³ (µg/l)	30	---	---	---	---	---	---
Nota 1: Parâmetro analisado pela entidade gestora em alta (Águas do Douro e Paiva)							
Informação complementar relativa à averiguação das situações de incumprimento dos VP (causas e medidas correctivas): Nada a registar.							
Municipal: Eng.º José Rocha						Data da publicação: 07/08/2024	



Resumo do Controlo Analítico da Qualidade da Água
Zona de abastecimento "Sistema de Nogueira" - União de Freguesias de Raiva, Pedrido e Paraíso
2º Trimestre de 2024

Parâmetro (unidades)	Valor Paramétrico (VP) fixado no DL 69/2023, de 21 de agosto	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º Análises (PCQA)		% Análises Realizadas
		Mínimo	Máximo			Agendadas	Realizadas	
Controlo Rotina 1								
Escherichia coli (N/100 ml)	0	---	0	0	100%	1	1	100%
Bactérias coliformes (N/100 ml)	0	---	0	0	100%	1	1	100%
Desinfetante residual (mg/L)	---	---	1,4	---	---	1	1	100%
Controlo Rotina 2								
Número de colónias a 22 °C (N/ml)	Sem alteração anormal	---	1	---	---	1	1	100%
Condutividade (µS/cm a 20°C)	2500	---	130	0	100%	1	1	100%
Enterococos (N/100 ml)	0	---	0	0	100%	1	1	100%
Cor (mg/L PtCo)	20	---	<2	0	100%	1	1	100%
pH (Unidades pH)	≥6,5 e ≤9	---	6,7	0	100%	1	1	100%
Cheiro a 25°C (Factor de diluição)	3	---	<1	0	100%	1	1	100%
Sabor a 25°C (Factor de diluição)	3	---	<1	0	100%	1	1	100%
Turvação (NTU)	4	---	<0,5	0	100%	1	1	100%
Controlo de Inspeção								
Alumínio (µg/L Al)	200	---	<50	0	100%	1	1	100%
Clostridium perfringens (N/100ml)	0	---	0	0	100%	1	1	100%
Nitritos (mg/L NO ₂)	0,5	---	<0,02	0	100%	1	1	100%
Antimónio (µg/L Sb)	5,0	---	<1,5	0	100%	1	1	100%
Arsénio (µg/L As)	10	---	<3	0	100%	1	1	100%
Benzeno (µg/L)	1,0	---	<0,3	0	100%	1	1	100%
Benzo(a)pireno (µg/L)	0,010	---	<0,003	0	100%	1	1	100%
Cloratos (mg/L)	0,7	---	0,111	0	100%	1	1	100%
Cloritos (mg/L)	0,7	---	<0,005	0	100%	1	1	100%
Boro (mg/L B)	1,0	---	<0,15	0	100%	1	1	100%
Bromatos (µg/L BrO3)	10,0	---	<3	0	100%	1	1	100%
Cádmio (µg/L Cd)	5,0	---	<1	0	100%	1	1	100%
Cálcio (mg/L Ca)	---	---	53	---	---	1	1	100%
Chumbo (µg/L Pb)	10	---	<3	0	100%	1	1	100%
Cianetos (µg/L CN)	50	---	<15	0	100%	1	1	100%
Cobre (mg/L Cu)	2,0	---	<0,3	0	100%	1	1	100%
Crómio (µg/L Cr)	50	---	<2	0	100%	1	1	100%
Nitratos (mg/L NO ₃)	50	---	<10	0	100%	1	1	100%
Ferro (µg/L Fe)	200	---	<50	0	100%	1	1	100%
Manganês (µg/L Mn)	50	---	<15	0	100%	1	1	100%
1,2 Dicloroetano (µg/L)	3,0	---	<0,3	---	0%	1	1	100%
Dureza total (mg/L CaCO3)	---	---	140	---	---	1	1	100%
Amónio (mg/L NH ₄)	0,50	---	<0,02	---	0%	1	1	100%
Potássio (mg/L K)	Sem alteração anormal	---	<0,5	---	---	1	1	100%
Oxidabilidade (mg/L O ₂)	5	---	<1,5	0	100%	1	1	100%
Fluoretos (mg/L F)	1,5	---	<0,1	0	100%	1	1	100%
Magnésio (mg/L Mg)	---	---	1,9	---	---	1	1	100%
Mercurio (µg/L Hg)	1,0	---	<0,2	0	100%	1	1	100%
Níquel (µg/L Ni)	20	---	<5	0	100%	1	1	100%
Hidrocarbonetos Aromáticos Policíclicos- HAP (µg/L):	0,10	---	<0,01	0	100%	1	1	100%
Benzo(b)fluoranteno (µg/L)	---	---	<0,01	---	---	1	1	100%
Benzo(k)fluoranteno (µg/L)	---	---	<0,01	---	---	1	1	100%
Benzo(ghi)perileno (µg/L)	---	---	<0,01	---	---	1	1	100%
Indeno(1,2,3-cd)pireno (µg/L)	---	---	<0,01	---	---	1	1	100%
Selénio (µg/L Se)	10	---	<3	0	100%	1	1	100%
Cloretos (mg/L Cl)	250	---	<10	0	100%	1	1	100%
Tetracloroetano e Tricloroetano (µg/L):	10	---	<3	0	100%	1	1	100%
Tetracloroetano (µg/L)	---	---	<3	---	---	1	1	100%
Tricloroetano (µg/L)	---	---	<0,3	---	---	1	1	100%
Trihalometanos - total (µg/L):	100	---	<3	0	100%	1	1	100%
Clorofórmio (µg/L)	---	---	<3	---	---	1	1	100%
Bromofórmio (µg/L)	---	---	<3	---	---	1	1	100%
Bromodiclorometano (µg/L)	---	---	<3	---	---	1	1	100%
Dibromodoclorometano (µg/L)	---	---	<3	---	---	1	1	100%
Sódio (mg/L Na)	200	---	5	0	100%	1	1	100%
Sulfatos (mg/L SO4)	250	---	<10	0	100%	1	1	100%
Alfa total (Bq/l)	<0,05	---	<0,04	0	100%	1	1	100%
Dose Indicativa (mSv/ano)	<0,10	---	<0,1	0	100%	1	1	100%
Radão (Bq/l)	500	---	57,7	0	100%	1	1	100%
Pesticidas - total (µg/L):	0,5	---	<0,03	0	100%	1	1	100%
Bentazona (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Clorpirifos (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Desetiltterbutilazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Dimetoato (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Diurão (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
MCPA (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Metribuzina (µg/L)	---	---	<0,03	---	---	1	1	100%
Metolaclo (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Terbutilazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Ometoato (µg/L)	0,10	---	<0,025	0	100%	1	1	100%
Imidaclopride (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Simazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Desetiltterbutilazina (µg/L)	---	---	<0,03	---	---	1	1	100%

Informação complementar relativa à averiguação das situações de incumprimento dos VP (causas e medidas correctivas). Nada a registar.

O presidente da Câmara Municipal. Eng.º José Rocha

Data da publicação: 07/08/2024



Resumo do Controlo Analítico da Qualidade da Água
Zona de abastecimento “Sistema de Vilar de Eirigo” - União de Freguesias de Sobrado e Bairros
2º Trimestre de 2024

Parâmetro (unidades)	Valor Paramétrico (VP) fixado no DL 69/2023, de 21 de agosto	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º Análises (PCQA)		% Análises Realizadas
		Mínimo	Máximo			Agendadas	Realizadas	
Controlo Rotina 1								
Escherichia coli (N/100 ml)	0	---	0	0	100%	1	1	100%
Bactérias coliformes (N/100 ml)	0	---	0	0	100%	1	1	100%
Desinfetante residual (mg/L)	---	---	1	---	---	1	1	100%
Controlo Rotina 2								
Número de colónias a 22 °C (N/ml)	Sem alteração anormal	---	<1	---	---	1	1	100%
Condutividade (µS/cm a 20°C)	2500	---	220	0	100%	1	1	100%
Enterococos (N/100 mL)	0	---	0	0	100%	1	1	100%
Cor (mg/L PtCo)	20	---	<2	0	100%	1	1	100%
pH (Unidades pH)	≥6,5 e ≤9	---	7,1	0	100%	1	1	100%
Cheiro a 25°C (Factor de diluição)	3	---	<1	0	100%	1	1	100%
Sabor a 25°C (Factor de diluição)	3	---	<1	0	100%	1	1	100%
Turvação (NTU)	4	---	<0,5	0	100%	1	1	100%
Controlo de Inspeção								
Alumínio (µg/L Al)	200	---	<50	0	100%	1	1	100%
Clostridium perfringens (N/100ml)	0	---	0	0	100%	1	1	100%
Nitritos (mg/L NO ₂)	0,5	---	<0,02	0	100%	1	1	100%
Antimónio (µg/L Sb)	5,0	---	<1,5	0	100%	1	1	100%
Arsénio (µg/L As)	10	---	<3	0	100%	1	1	100%
Benzeno (µg/L)	1,0	---	<0,3	0	100%	1	1	100%
Benzo(a)pireno (µg/L)	0,010	---	<0,003	0	100%	1	1	100%
Cloratos (mg/L)	0,7	---	0,101	0	100%	1	1	100%
Cloritos (mg/L)	0,7	---	<0,005	0	100%	1	1	100%
Boro (mg/L B)	1,0	---	<0,15	0	100%	1	1	100%
Bromatos (µg/L BrO3)	10,0	---	<3	0	100%	1	1	100%
Cádmio (µg/L Cd)	5,0	---	<1	0	100%	1	1	100%
Cálcio (mg/L Ca)	---	---	23,5	---	---	1	1	100%
Chumbo (µg/L Pb)	10	---	<3	0	100%	1	1	100%
Cianetos (µg/L CN)	50	---	<15	0	100%	1	1	100%
Cobre (mg/L Cu)	2,0	---	<0,3	0	100%	1	1	100%
Crómio (µg/L Cr)	50	---	<2	0	100%	1	1	100%
Nitratos (mg/L NO ₃)	50	---	<10	0	100%	1	1	100%
Ferro (µg/L Fe)	200	---	<50	0	100%	1	1	100%
Manganês (µg/L Mn)	50	---	<15	0	100%	1	1	100%
1-2 Dicloroetano (µg/L)	3,0	---	<0,3	0	100%	1	1	100%
Dureza total (mg/L CaCO3)	---	---	66	---	---	1	1	100%
Amónio (mg/L NH ₄)	0,50	---	<0,02	0	100%	1	1	100%
Potássio (mg/L K)	Sem alteração anormal	---	<0,5	---	---	1	1	100%
Oxidabilidade (mg/L O ₂)	5	---	<1,5	0	100%	1	1	100%
Fluoretos (mg/L F)	1,5	---	<0,1	0	100%	1	1	100%
Magnésio (mg/L Mg)	---	---	1,9	---	---	1	1	100%
Mercurio(µg/L Hg)	1,0	---	<0,2	0	100%	1	1	100%
Níquel (µg/L Ni)	20	---	<5	0	100%	1	1	100%
Hidrocarbonetos Aromáticos Policíclicos- HAP (µg/L):	0,10	---	<0,01	0	100%	1	1	100%
Benzo(b)fluoranteno (µg/L)	---	---	<0,01	---	---	1	1	100%
Benzo(k)fluoranteno (µg/L)	---	---	<0,01	---	---	1	1	100%
Benzo(ghi)perileno (µg/L)	---	---	<0,01	---	---	1	1	100%
Indeno(1,2,3-cd)pireno(µg/L)	---	---	<0,01	---	---	1	1	100%
Selénio (µg/L Se)	10	---	<3	0	100%	1	1	100%
Cloretos (mg/L Cl)	250	---	<10	0	100%	1	1	100%
Tetracloroetano e Tricloroetano (µg/L):	10	---	<3	0	100%	1	1	100%
Tetracloroetano (µg/L)	---	---	<3	---	---	1	1	100%
Tricloroetano (µg/L)	---	---	<0,3	---	---	1	1	100%
Trihalometanos - total (µg/L):	100	---	<3	0	100%	1	1	100%
Clorofórmio(µg/L)	---	---	<3	---	---	1	1	100%
Bromofórmio(µg/L)	---	---	<3	---	---	1	1	100%
Bromodiclorometano(µg/L)	---	---	<3	---	---	1	1	100%
Dibromoclorometano(µg/L)	---	---	<3	---	---	1	1	100%
Sódio (mg/L Na)	200	---	43	0	100%	1	1	100%
Sulfatos (mg/L SO4)	250	---	26	0	100%	1	1	100%
Alfa total (Bq/l)	<0,05	---	<0,04	0	100%	1	1	100%
Dose indicativa (mSv/ano)	<0,10	---	<0,1	0	100%	1	1	100%
Radão (Bq/l)	500	---	95,2	0	100%	1	1	100%
Pesticidas - total (µg/L):	0,5	---	<0,03	0	100%	1	1	100%
Bentazona (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Clorpirifos (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Desetiltebutilazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Dimetoato (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Diurão (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
MCPA (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Metribuzina (µg/L)	---	---	<0,03	---	---	1	1	100%
Metolaclo (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Terbutilazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Ometoato (µg/L)	0,10	---	<0,025	0	100%	1	1	100%
Imidaclopride (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Simazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Desetilsimazina (µg/L)	---	---	<0,03	---	---	1	1	100%

Informação complementar relativa à averiguação das situações de incumprimento dos VP (causas e medidas correctivas): Nada a registar.

O presidente da Câmara Municipal: Eng.º José Rocha

Data da publicação: 07/08/2024



Resumo do Controlo Analítico da Qualidade da Água
Zona de abastecimento "Sistema de Almancor" - União de Freguesias de Raiva, Pedorido e Paraíso
2º Trimestre de 2024

Parâmetro (unidades)	Valor Paramétrico (VP) fixado no DL 69/2023, de 21 de agosto	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º Análises (PCQA)		% Análises Realizadas
		Mínimo	Máximo			Agendadas	Realizadas	
Controlo Rotina 1								
Escherichia coli (N/100 ml)	0	---	0	0	100%	1	1	100%
Bactérias coliformes (N/100 ml)	0	---	0	0	100%	1	1	100%
Desinfetante residual (mg/L)	---	---	0,3	---	---	1	1	100%
Controlo Rotina 2								
Número de colónias a 22 ºC (N/ml)	Sem alteração anormal	---	<1	---	---	1	1	100%
Condutividade (µS/cm a 20ºC)	2500	---	130	0	100%	1	1	100%
Enterococos (N/100 mL)	0	---	0	0	100%	1	1	100%
Cor (mg/L PtCo)	20	---	<2	0	100%	1	1	100%
pH (Unidades pH)	≥6,5 e ≤9	---	7,4	0	100%	1	1	100%
Cheiro a 25ºC (Factor de diluição)	3	---	<1	0	100%	1	1	100%
Sabor a 25ºC (Factor de diluição)	3	---	<1	0	100%	1	1	100%
Turvação (NTU)	4	---	<0,5	0	100%	1	1	100%
Controlo de Inspeção								
Alumínio (µg/L Al)	200	---	<50	0	100%	1	1	100%
Clostridium perfringens (N/100ml)	0	---	0	0	100%	1	1	100%
Ferro (µg/L Fe)	200	---	<50	0	100%	1	1	100%
Nitritos (mg/L NO ₂)	0,5	---	<0,02	0	100%	1	1	100%
Antimónio (µg/L Sb)	5,0	---	<1,5	0	100%	1	1	100%
Arsénio (µg/L As)	10	---	<3	0	100%	1	1	100%
Benzeno (µg/L)	1,0	---	<0,3	0	100%	1	1	100%
Benzo(a)pireno (µg/L)	0,010	---	<0,003	0	100%	1	1	100%
Cloratos (mg/L)	0,7	---	0,08	0	100%	1	1	100%
Cloritos (mg/L)	0,7	---	<0,005	0	100%	1	1	100%
Boro (mg/L B)	1,0	---	<0,15	0	100%	1	1	100%
Bromatos (µg/L BrO3)	10,0	---	<3	0	100%	1	1	100%
Cádmio (µg/L Cd)	5,0	---	<1	0	100%	1	1	100%
Cálcio (mg/L Ca)	---	---	<5	---	---	1	1	100%
Chumbo (µg/L Pb)	10	---	4,5	0	100%	1	1	100%
Cianetos (µg/L CN)	50	---	<15	0	100%	1	1	100%
Cobre (mg/L Cu)	2,0	---	<0,3	0	100%	1	1	100%
Crómio (µg/L Cr)	50	---	<2	0	100%	1	1	100%
1-2 Diclroetano (µg/L)	3,0	---	<0,3	0	100%	1	1	100%
Dureza total (mg/L CaCO3)	---	---	<17	---	---	1	1	100%
Amónio (mg/L NH ₄)	0,50	---	<0,02	0	100%	1	1	100%
Manganês (µg/L Mn)	50	---	<15	0	100%	1	1	100%
Nitratos (mg/L NO ₃)	50	---	<10	0	100%	1	1	100%
Potássio (mg/L K)	Sem alteração anormal	---	3,3	---	---	1	1	100%
Oxidabilidade (mg/L O ₂)	5	---	<1,5	0	100%	1	1	100%
Fluoretos (mg/L F)	1,5	---	<0,1	0	100%	1	1	100%
Magnésio (mg/L Mg)	---	---	2,7	---	---	1	1	100%
Mercurio(µg/L Hg)	1,0	---	<0,2	0	100%	1	1	100%
Níquel (µg/L Ni)	20	---	<5	0	100%	1	1	100%
Hidrocarbonetos Aromáticos Policíclicos- HAP (µg/L):	0,10	---	<0,01	0	100%	1	1	100%
Benzo(b)fluoranteno (µg/L)	---	---	<0,01	---	---	1	1	100%
Benzo(k)fluoranteno (µg/L)	---	---	<0,01	---	---	1	1	100%
Benzo(ghi)perileno (µg/L)	---	---	<0,01	---	---	1	1	100%
Indeno(1,2,3-cd)pireno(µg/L)	---	---	<0,01	---	---	1	1	100%
Selénio (µg/L Se)	20	---	<3	0	100%	1	1	100%
Cloretos (mg/L Cl)	250	---	10	0	100%	1	1	100%
Tetracloretoeno e Tricloroeteno (µg/L):	10	---	<3	0	100%	1	1	100%
Tetracloretoeno (µg/L)	---	---	<3	---	---	1	1	100%
Tricloroeteno (µg/L)	---	---	<0,3	---	---	1	1	100%
Trihalometanos - total (µg/L):	100	---	<3	0	100%	1	1	100%
Clorofórmio(µg/L)	---	---	<3	---	---	1	1	100%
Bromofórmio(µg/L)	---	---	<3	---	---	1	1	100%
Bromodiclorometano(µg/L)	---	---	<3	---	---	1	1	100%
Dibromodiclorometano(µg/L)	---	---	<3	---	---	1	1	100%
Sódio (mg/L Na)	200	---	29	0	100%	1	1	100%
Sulfatos (mg/L SO4)	250	---	<10	0	100%	1	1	100%
Alfa total (Bq/l)	<0,05	---	<0,04	0	100%	1	1	100%
Dose indicativa (mSv/ano)	<0,10	---	<0,1	0	100%	1	1	100%
Radão (Bq/l)	500	---	12,3	0	100%	1	1	100%
Pesticidas - total (µg/L):	0,5	---	<0,03	0	100%	1	1	100%
Bentazona (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Clorpirifos (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Desetilterbutilazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Dimetoato (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Diurão (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
MCPA (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Metribuzina (µg/L)	---	---	<0,03	---	---	1	1	100%
Metolaclozo (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Terbutilazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Ometoato (µg/L)	0,10	---	<0,025	0	100%	1	1	100%
Imidaclopride (µg/L)	0,10	---	<0,03	---	#VALOR!	1	1	100%
Simazina (µg/L)	0,10	---	<0,03	---	#VALOR!	1	1	100%
Desetilsimazina (µg/L)	---	---	<0,03	---	---	---	---	100%

Informação complementar relativa à averiguação das situações de incumprimento dos VP (causas e medidas correctivas): Nada a registar.

O presidente da Câmara Municipal: Eng.º José Rocha

Data da publicação: 07/08/2024



Resumo do Controlo Analítico da Qualidade da Água
Zona de abastecimento "Sistema do Gilde" - Freguesia de Real
2º Trimestre de 2024

Parâmetro (unidades)	Valor Paramétrico (VP) fixado no DL 69/2023, de 21 de agosto	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º Análises (PCQA)		% Análises Realizadas
		Mínimo	Máximo			Agendadas	Realizadas	
Controlo Rotina 1								
Escherichia coli (N/100 ml)	0	---	0	0	100%	1	1	100%
Bactérias coliformes (N/100 ml)	0	---	0	0	100%	1	1	100%
Desinfetante residual (mg/L)	---	---	0,3	---	---	1	1	100%
Controlo Rotina 2								
Número de colónias a 22 °C (N/ml)	Sem alteração anormal	---	<1	---	---	1	1	100%
Condutividade (µS/cm a 20°C)	2500	---	170	0	100%	1	1	100%
Enterococos (N/100 mL)	0	---	0	0	100%	1	1	100%
Cor (mg/L PtCo)	20	---	<2	0	100%	1	1	100%
pH (Unidades pH)	≥6,5 e ≤9	---	7,2	0	100%	1	1	100%
Cheiro a 25°C (Factor de diluição)	3	---	<1	0	100%	1	1	100%
Ferro (µg/L Fe)	200	---	<50	0	100%	1	1	100%
Manganês (µg/L Mn)	50	---	<15	0	100%	1	1	100%
Sabor a 25°C (Factor de diluição)	3	---	<1	0	100%	1	1	100%
Turbidez (NTU)	4	---	<0,5	0	100%	1	1	100%
Nitratos (mg/L NO ₃)	50	---	<10	0	100%	1	1	100%
Controlo de Inspeção								
Alumínio (µg/L Al)	200	---	<50	0	100%	1	1	100%
Clostridium perfringens (N/100ml)	0	---	0	0	100%	1	1	100%
Nitritos (mg/L NO ₂)	0,5	---	<0,02	0	100%	1	1	100%
Antimónio (µg/L Sb)	5,0	---	<1,5	0	100%	1	1	100%
Arsénio (µg/L As)	10	---	<3	0	100%	1	1	100%
Benzeno (µg/L)	1,0	---	<0,3	0	100%	1	1	100%
Benzo[a]pireno (µg/L)	0,010	---	<0,003	0	100%	1	1	100%
Cloratos (mg/L)	0,7	---	0,0896	0	100%	1	1	100%
Cloritos (mg/L)	0,7	---	<0,005	0	100%	1	1	100%
Boro (mg/L B)	1,0	---	<0,15	0	100%	1	1	100%
Bromatos (µg/L BrO3)	10,0	---	<3	0	100%	1	1	100%
Cádmio (µg/L Cd)	5,0	---	<1	0	100%	1	1	100%
Cálcio (mg/L Ca)	---	---	<5	---	---	1	1	100%
Chumbo (µg/L Pb)	10	---	<3	0	100%	1	1	100%
Cianetos (µg/L CN)	50	---	<15	0	100%	1	1	100%
Cobre (mg/L Cu)	2,0	---	<0,3	0	100%	1	1	100%
Crómio (µg/L Cr)	50	---	<2	0	100%	1	1	100%
1-2 Diclroetano (µg/L)	3,0	---	<0,3	0	100%	1	1	100%
Dureza total (mg/L CaCO3)	---	---	37	---	---	1	1	100%
Amónio (mg/L NH ₄)	0.50	---	0,09	0	100%	1	1	100%
Potássio (mg/L K)	Sem alteração anormal	---	0,5	---	---	1	1	100%
Oxidabilidade (mg/L O ₂)	5	---	<1,5	0	100%	1	1	100%
Fluoretos (mg/L F)	1,5	---	<0,1	0	100%	1	1	100%
Magnésio (mg/L Mg)	---	---	9	---	---	1	1	100%
Mercurio (µg/L Hg)	1,0	---	<0,2	0	100%	1	1	100%
Níquel (µg/L Ni)	20	---	<5	0	100%	1	1	100%
Hidrocarbonetos Aromáticos Policíclicos- HAP (µg/L):	0,10	---	<0,01	0	100%	1	1	100%
Benzo(b)fluoranteno (µg/L)	---	---	<0,01	---	---	1	1	100%
Benzo(k)fluoranteno (µg/L)	---	---	<0,01	---	---	1	1	100%
Benzo(ghi)perileno (µg/L)	---	---	<0,01	---	---	1	1	100%
Indeno(1,2,3-cd)pireno (µg/L)	---	---	<0,01	---	---	1	1	100%
Selénio (µg/L Se)	20	---	<3	0	---	1	1	100%
Cloretos (mg/L Cl)	250	---	<10	0	100%	1	1	100%
Tetracloreteno e Tricloroeteno (µg/L):	10	---	<3	0	100%	1	1	100%
Tetracloreteno (µg/L)	---	---	<3	---	---	1	1	100%
Tricloroeteno (µg/L)	---	---	<0,3	---	---	1	1	100%
Trihalometanos - total (µg/L):	100	---	<3	0	100%	1	1	100%
Clorofórmio (µg/L)	---	---	<3	---	---	1	1	100%
Bromofórmio (µg/L)	---	---	<3	---	---	1	1	100%
Bromodiclorometano (µg/L)	---	---	<3	---	---	1	1	100%
Dibromodiclorometano (µg/L)	---	---	<3	---	---	1	1	100%
Sódio (mg/L Na)	200	---	28	0	100%	1	1	100%
Sulfatos (mg/L SO4)	250	---	27	0	100%	1	1	100%
Alfa total (Bq/l)	<0.05	---	<0,04	0	100%	1	1	100%
Dose indicativa (mSv/ano)	<0.10	---	<0.1	0	100%	1	1	100%
Radão (Bq/l)	500	---	70,4	0	100%	1	1	100%
Pesticidas - total (µg/L):	0.5	---	<0,03	0	100%	1	1	100%
Bentazona (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Clorpirifos (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Desetilterbutilazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Dimetoato (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Diurão (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
MCPA (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Metribuzina (µg/L)	---	---	<0,03	---	---	1	1	100%
Metolacloz (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Terbutilazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Ometoato (µg/L)	0,10	---	<0,025	0	100%	1	1	100%
Imidaclopride (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Simazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Desetilsimazina (µg/L)	---	---	<0,03	---	---	1	1	100%

Informação complementar relativa à averiguação das situações de incumprimento dos VP (causas e medidas correctivas): Nada a registar.

O presidente da Câmara Municipal: Eng.º José Rocha

Data da publicação: 07/08/2024



Resumo do Controlo Analítico da Qualidade da Água
Zona de abastecimento "Sistema do Seixo" - Freguesia de Real
2º Trimestre de 2024

Parâmetro (unidades)	Valor Paramétrico (VP) fixado no DL 69/2023, de 21 de agosto	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º Análises (PCQA)		% Análises Realizadas
		Mínimo	Máximo			Agendadas	Realizadas	
Controlo Rotina 1								
Escherichia coli (N/100 ml)	0	---	0	0	100%	1	1	100%
Bactérias coliformes (N/100 ml)	0	---	0	0	100%	1	1	100%
Desinfetante residual (mg/L)	---	---	0,3	---	---	1	1	100%
Controlo Rotina 2								
Número de colónias a 22 °C (N/ml)	Sem alteração anormal	---	1	---	---	1	1	100%
Condutividade (µS/cm a 20°C)	2500	---	120	0	100%	1	1	100%
Enterococos (N/100 mL)	0	---	0	0	100%	1	1	100%
Cor (mg/L PtCo)	20	---	<2	0	100%	1	1	100%
pH (Unidades pH)	≥6,5 e ≤9	---	7	0	100%	1	1	100%
Cheiro a 25°C (Factor de diluição)	3	---	<1	0	100%	1	1	100%
Ferro (µg/L Fe)	200	---	<50	0	100%	1	1	100%
Manganês (µg/L Mn)	50	---	<15	0	100%	1	1	100%
Sabor a 25°C (Factor de diluição)	3	---	<1	0	100%	1	1	100%
Turvação (NTU)	4	---	<0,5	0	100%	1	1	100%
Controlo de Inspeção								
Alumínio (µg/L Al)	200	---	<50	0	100%	1	1	100%
Clostridium perfringens (N/100ml)	0	---	0	0	100%	1	1	100%
Nitritos (mg/L NO ₂)	0,5	---	<0,02	0	100%	1	1	100%
Antimónio (µg/L Sb)	5,0	---	<1,5	0	100%	1	1	100%
Arsénio (µg/L As)	10	---	<3	0	100%	1	1	100%
Benzeno (µg/L)	1,0	---	<0,3	0	100%	1	1	100%
Benzo(a)pireno (µg/L)	0,010	---	<0,003	0	100%	1	1	100%
Cloratos (mg/L)	0,7	---	0,552	0	100%	1	1	100%
Cloritos (mg/L)	0,7	---	<0,005	0	100%	1	1	100%
Boro (mg/L B)	1,0	---	<0,15	0	100%	1	1	100%
Bromatos (µg/L BrO3)	10,0	---	<3	0	100%	1	1	100%
Cádmio (µg/L Cd)	5,0	---	<1	0	100%	1	1	100%
Cálcio (mg/L Ca)	---	---	<5	0	100%	1	1	100%
Chumbo (µg/L Pb)	10	---	<3	0	100%	1	1	100%
Cianetos (µg/L CN)	50	---	<15	0	100%	1	1	100%
Cobre (mg/L Cu)	2,0	---	<0,3	0	100%	1	1	100%
Crómio (µg/L Cr)	50	---	<2	0	100%	1	1	100%
Nitratos (mg/L NO ₃)	50	---	<10	0	100%	1	1	100%
1-2 Dicloroetano (µg/L)	3,0	---	<0,3	0	100%	1	1	100%
Dureza total (mg/L CaCO3)	---	---	<17	0	100%	1	1	100%
Amónio (mg/L NH ₄)	0.50	---	<0,02	0	100%	1	1	100%
Potássio (mg/L K)	Sem alteração anormal	---	<0,5	---	---	1	1	100%
Oxidabilidade (mg/L O ₂)	5	---	<1,5	0	100%	1	1	100%
Fluoretos (mg/L F)	1,5	---	<0,1	0	100%	1	1	100%
Magnésio (mg/L Mg)	---	---	3	---	---	1	1	100%
Mercurio(µg/L Hg)	1,0	---	<0,2	0	100%	1	1	100%
Níquel (µg/L Ni)	20	---	<5	0	100%	1	1	100%
Hidrocarbonetos Aromáticos Policíclicos- HAP (µg/L):	0,10	---	<0,01	0	100%	1	1	100%
Benzo(b)fluoranteno (µg/L)	---	---	<0,01	---	---	1	1	100%
Benzo(k)fluoranteno (µg/L)	---	---	<0,01	---	---	1	1	100%
Benzo(ghi)perileno (µg/L)	---	---	<0,01	---	---	1	1	100%
Indeno(1,2,3-cd)pireno(µg/L)	---	---	<0,01	---	---	1	1	100%
Selénio (µg/L Se)	20	---	<3	---	---	1	1	100%
Cloretos (mg/L Cl)	250	---	10	0	100%	1	1	100%
Tetracloroetano e Tricloroetano (µg/L):	10	---	<3	0	100%	1	1	100%
Tetracloroetano (µg/L)	---	---	<3	---	---	1	1	100%
Tricloroetano (µg/L)	---	---	<0,3	---	---	1	1	100%
Trihalometanos - total (µg/L):	100	---	<3	0	100%	1	1	100%
Clorofórmio(µg/L)	---	---	<3	---	---	1	1	100%
Bromofórmio(µg/L)	---	---	<3	---	---	1	1	100%
Bromodiclorometano(µg/L)	---	---	<3	---	---	1	1	100%
Dibromoclorometano(µg/L)	---	---	<3	---	---	1	1	100%
Sódio (mg/L Na)	200	---	25	0	100%	1	1	100%
Sulfatos (mg/L SO4)	250	---	<10	0	100%	1	1	100%
Alfa total (Bq/l)	<0.05	---	<0,04	0	100%	1	1	100%
Dose indicativa (mSv/ano)	<0,10	---	<0,1	0	100%	1	1	100%
Radão (Bq/l)	500	---	56,9	0	100%	1	1	100%
Pesticidas - total (µg/L):	0.5	---	<0,03	0	100%	1	1	100%
Bentazona (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Clorpirifos (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Desetilterbutilazina (µg/L)	0.10	---	<0,03	0	100%	1	1	100%
Dimetoato (µg/L)	0.10	---	<0,03	0	100%	1	1	100%
Diurão (µg/L)	0.10	---	<0,03	0	100%	1	1	100%
MCPA (µg/L)	0.10	---	<0,03	0	100%	1	1	100%
Metribuzina (µg/L)	---	---	<0,03	---	---	1	1	100%
Metolaclo (µg/L)	0.10	---	<0,03	0	100%	1	1	100%
Terbutilazina (µg/L)	0.10	---	<0,03	0	100%	1	1	100%
Ometoato (µg/L)	0.10	---	<0,025	0	100%	1	1	100%
Imidaclopride (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Simazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Desetilsimazina (µg/L)	---	---	<0,03	---	---	1	1	100%

Informação complementar relativa à averiguação das situações de incumprimento dos VP (causas e medidas correctivas): Nada a registar.

O presidente da Câmara Municipal: Eng.º José Rocha

RS

Data da publicação: 07/08/2024



Resumo do Controlo Analítico da Qualidade da Água
Zona de abastecimento "Sistema do Moinho" - Freguesia de Real
2º Trimestre de 2024

Parâmetro (unidades)	Valor Paramétrico (VP) fixado no DL 69/2023, de 21 de agosto	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º Análises (PCQA)		% Análises Realizadas
		Mínimo	Máximo			Agendadas	Realizadas	
Controlo Rotina 1								
Escherichia coli (N/100 ml)	0	---	0	0	100%	1	1	100%
Bactérias coliformes (N/100 ml)	0	---	0	0	100%	1	1	100%
Desinfetante residual (mg/L)	---	---	0,6	---	---	1	1	100%
Controlo Rotina 2								
Número de colónias a 22 °C (N/ml)	Sem alteração anormal	---	<1	---	---	1	1	100%
Condutividade (µS/cm a 20°C)	2500	---	230	0	100%	1	1	100%
Enterococos (N/100 mL)	0	---	0	0	100%	1	1	100%
Cor (mg/L PtCo)	20	---	<2	0	100%	1	1	100%
pH (Unidades pH)	≥6,6 e ≤9	---	7,5	0	100%	1	1	100%
Cheiro a 25°C (Factor de diluição)	3	---	<1	0	100%	1	1	100%
Ferro (µg/L Fe)	200	---	<50	0	100%	1	1	100%
Manganês (µg/L Mn)	50	---	<15	0	100%	1	1	100%
Sabor a 25°C (Factor de diluição)	3	---	<1	0	100%	1	1	100%
Turbidez (NTU)	4	---	0,5	0	100%	1	1	100%
Nitratos (mg/L NO ₃)	50	---	<10	0	100%	1	1	100%
Controlo de Inspeção								
Alumínio (µg/L Al)	200	---	<50	0	100%	1	1	100%
Clostridium perfringens (N/100ml)	0	---	0	0	100%	1	1	100%
Nitritos (mg/L NO ₂)	0,5	---	<0,02	0	100%	1	1	100%
Antimónio (µg/L Sb)	5,0	---	<1,5	0	100%	1	1	100%
Arsénio (µg/L As)	10	---	<3	0	100%	1	1	100%
Benzeno (µg/L)	1,0	---	<0,3	0	100%	1	1	100%
Benzo(a)pireno (µg/L)	0,010	---	<0,003	0	100%	1	1	100%
Cloratos (mg/L)	0,7	---	1	1	0%	1	1	100%
Cloritos (mg/L)	0,7	---	<0,005	0	100%	1	1	100%
Boro (mg/L B)	1,0	---	<0,15	0	100%	1	1	100%
Bromatos (µg/L BrO3)	10,0	---	<3	0	100%	1	1	100%
Cádmio (µg/L Cd)	5,0	---	<1	0	100%	1	1	100%
Cálcio (mg/L Ca)	---	---	<5	---	---	1	1	100%
Chumbo (µg/L Pb)	10	---	<3	0	100%	1	1	100%
Cianetos (µg/L CN)	50	---	<15	0	100%	1	1	100%
Cobre (mg/L Cu)	2,0	---	<0,3	0	100%	1	1	100%
Crómio (µg/L Cr)	50	---	<2	0	100%	1	1	100%
1-2 Dicloroetano (µg/L)	3,0	---	<0,3	0	100%	1	1	100%
Dureza total (mg/L CaCO3)	---	---	<17	0	100%	1	1	100%
Amónio (mg/L NH ₄)	0,50	---	<0,02	0	100%	1	1	100%
Potássio (mg/L K)	Sem alteração anormal	---	<0,5	---	---	1	1	100%
Oxidabilidade (mg/L O ₂)	5	---	<1,5	0	100%	1	1	100%
Fluoretos (mg/L F)	1,5	---	<0,1	0	100%	1	1	100%
Magnésio (mg/L Mg)	---	---	2,4	---	---	1	1	100%
Mercurio (µg/L Hg)	1,0	---	<0,2	0	---	1	1	100%
Níquel (µg/L Ni)	20	---	<5	0	100%	1	1	100%
Hidrocarbonetos Aromáticos Policíclicos- HAP (µg/L):	0,10	---	<0,01	0	100%	1	1	100%
Benzo(b)fluoranteno (µg/L)	---	---	<0,01	---	---	1	1	100%
Benzo(k)fluoranteno (µg/L)	---	---	<0,01	---	---	1	1	100%
Benzo(a)hiperileno (µg/L)	---	---	<0,01	---	---	1	1	100%
Indeno(1,2,3-cd)pireno(µg/L)	---	---	<0,01	---	---	1	1	100%
Selénio (µg/L Se)	20	---	<3	0	100%	1	1	100%
Cloretos (mg/L Cl)	250	---	13	0	---	1	1	100%
Tetracloroetano e Tricloroetano (µg/L):	10	---	<3	0	---	1	1	100%
Tetracloroetano (µg/L)	---	---	<3	---	---	1	1	100%
Tricloroetano (µg/L)	---	---	<0,3	---	---	1	1	100%
Trihalometanos - total (µg/L):	100	---	<3	0	100%	1	1	100%
Clorofórmio (µg/L)	---	---	<3	---	---	1	1	100%
Bromofórmio (µg/L)	---	---	<3	---	---	1	1	100%
Bromodiclorometano (µg/L)	---	---	<3	---	---	1	1	100%
Dibromodiclorometano (µg/L)	---	---	<3	---	---	1	1	100%
Sódio (mg/L Na)	200	---	49	0	100%	1	1	100%
Sulfatos (mg/L SO4)	250	---	29	0	100%	1	1	100%
Alfa total (Bq/l)	<0,05	---	<0,04	0	100%	1	1	100%
Dose indicativa (mSv/ano)	<0,10	---	<0,1	0	100%	1	1	100%
Radão (Bq/l)	500	---	90,5	0	100%	1	1	100%
Pesticidas - total (µg/L):	0,5	---	<0,03	0	100%	1	1	100%
Bentazona (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Clorpirifos (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Desetilterbutilazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Dimetoato (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Diurão (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
MCPA (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Metribuzina (µg/L)	---	---	<0,03	---	---	1	1	100%
Metolaclo (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Terbutilazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Ometoato (µg/L)	0,10	---	<0,025	0	100%	1	1	100%
Imidaclopride (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Simazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Desetilterbutilazina (µg/L)	---	---	<0,03	---	---	1	1	100%

Informação complementar relativa à averiguação das situações de incumprimento dos VP (causas e medidas correctivas): incumprimento de cloratos registado no sistema de Moinho; Causa: qualidade inadequada dos reagentes utilizados; Medidas correctivas: Alteração do reagente aplicado no tratamento.

O presidente da Câmara Municipal: Eng.º José Rocha

Data da publicação: 07/08/2024



Resumo do Controlo Analítico da Qualidade da Água
Zona de abastecimento "Sistema da Mó" - Freguesia de Real
2º Trimestre de 2024

Parâmetro (unidades)	Valor Paramétrico (VP) fixado no DL 69/2023, de 21 de agosto	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º Análises (PCQA)		% Análises Realizadas
		Mínimo	Máximo			Agendadas	Realizadas	
Controlo Rotina 1								
Escherichia coli (N/100 ml)	0	---	0	0	100%	1	1	100%
Bactérias coliformes (N/100 ml)	0	---	0	0	100%	1	1	100%
Desinfetante residual (mg/L)	---	---	0,4	---	---	1	1	100%
Controlo Rotina 2								
Número de colónias a 22 °C (N/ml)	Sem alteração anormal	---	<1	---	---	1	1	100%
Condutividade (µS/cm a 20°C)	2500	---	300	0	100%	1	1	100%
Enterococos (N/100 mL)	0	---	0	0	100%	1	1	100%
Cor (mg/L PtCo)	20	---	<2	0	100%	1	1	100%
pH (Unidades pH)	≥6,5 e ≤9	---	7,7	0	100%	1	1	100%
Cheiro a 25°C (Factor de diluição)	3	---	<1	0	100%	1	1	100%
Sabor a 25°C (Factor de diluição)	3	---	<1	0	100%	1	1	100%
Turbidez (NTU)	4	---	<0,5	0	100%	1	1	100%
Ferro (µg/L Fe)	200	---	<50	0	100%	1	1	100%
Manganês (µg/L Mn)	50	---	<15	0	100%	1	1	100%
Arsénio (µg/L As)	10	---	<3	0	100%	1	1	100%
Nitratos (mg/L NO ₃)	50	---	<10	0	100%	1	1	100%
Controlo de Inspeção								
Alumínio (µg/L Al)	200	---	<50	0	100%	1	1	100%
Clostridium perfringens (N/100ml)	0	---	0	0	100%	1	1	100%
Nitritos (mg/L NO ₂)	0,5	---	<0,02	0	100%	1	1	100%
Antimónio (µg/L Sb)	5,0	---	<1	0	100%	1	1	100%
Benzeno (µg/L)	1,0	---	<0,3	0	100%	1	1	100%
Benzo(a)pireno (µg/L)	0,010	---	<0,003	0	100%	1	1	100%
Cloratos (mg/L)	0,7	---	0,17	0	100%	1	1	100%
Cloritos (mg/L)	0,7	---	<0,005	---	---	1	1	100%
Boro (mg/L B)	1,0	---	<0,15	0	100%	1	1	100%
Bromatos (µg/L BrO3)	10,0	---	<3	0	100%	1	1	100%
Cádmio (µg/L Cd)	5,0	---	<1	0	100%	1	1	100%
Cálcio (mg/L Ca)	---	---	16,9	---	---	1	1	100%
Chumbo (µg/L Pb)	10	---	<3	0	100%	1	1	100%
Cianetos (µg/L CN)	50	---	<15	0	100%	1	1	100%
Cobre (mg/L Cu)	2,0	---	<0,3	0	100%	1	1	100%
Crómio (µg/L Cr)	50	---	<2	0	100%	1	1	100%
1-2 Diclroetano (µg/L)	3,0	---	<0,3	0	100%	1	1	100%
Dureza total (mg/L CaCO3)	---	---	100	---	---	1	1	100%
Amónio (mg/L NH ₄)	0,50	---	<0,02	0	100%	1	1	100%
Potássio (mg/L K)	Sem alteração anormal	---	0,5	---	---	1	1	100%
Oxidabilidade (mg/L O ₂)	5	---	<1,5	0	100%	1	1	100%
Fluoretos (mg/L F)	1,5	---	<0,1	0	100%	1	1	100%
Magnésio (mg/L Mg)	---	---	15	---	---	1	1	100%
Mercurio(µg/L Hg)	1,0	---	<0,2	0	100%	1	1	100%
Níquel (µg/L Ni)	20	---	<5	0	100%	1	1	100%
Hidrocarbonetos Aromáticos Policíclicos- HAP (µg/L):	0,10	---	<0,01	0	100%	1	1	100%
Benzo(b)fluoranteno (µg/L)	---	---	<0,01	---	---	1	1	100%
Benzo(k)fluoranteno (µg/L)	---	---	<0,01	---	---	1	1	100%
Benzo(ghi)perileno (µg/L)	---	---	<0,01	---	---	1	1	100%
Indeno(1,2,3-cd)pireno(µg/L)	---	---	<0,01	---	---	1	1	100%
Selénio (µg/L Se)	20	---	<3	0	100%	1	1	100%
Cloretos (mg/L Cl)	250	---	10	0	100%	1	1	100%
Tetracloretoeno e Tricloroetano (µg/L):	10	---	<3	0	100%	1	1	100%
Tetracloretoeno (µg/L)	---	---	<3	---	---	1	1	100%
Tricloroetano (µg/L)	---	---	<0,3	---	---	1	1	100%
Trihalometanos - total (µg/L):	100	---	<3	0	100%	1	1	100%
Clorofórmio(µg/L)	---	---	<3	---	---	1	1	100%
Bromofórmio(µg/L)	---	---	<3	---	---	1	1	100%
Bromodiclorometano(µg/L)	---	---	<3	---	---	1	1	100%
Dibromoclorometano(µg/L)	---	---	<3	---	---	1	1	100%
Sódio (mg/L Na)	200	---	12	0	100%	1	1	100%
Sulfatos (mg/L SO4)	250	---	16	0	100%	1	1	100%
Alfa total (Bq/l)	<0,05	---	<0,04	0	100%	1	1	100%
Dose indicativa (mSv/ano)	<0,10	---	<0,1	0	100%	1	1	100%
Radão (Bq/l)	500	---	13,4	0	100%	1	1	100%
Pesticidas - total (µg/L):	0,5	---	<0,03	0	100%	1	1	100%
Bentazona (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Clorpirifos (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Desetilterbutilazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Dimetoato (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Diurão (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
MCPA (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Metribuzina (µg/L)	---	---	<0,03	---	---	1	1	100%
Metolacloro (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Terbutilazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Ometoato (µg/L)	0,10	---	<0,025	0	100%	1	1	100%
Imidaclopride (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Simazina (µg/L)	0,10	---	<0,03	0	100%	1	1	100%
Desetilsimazina (µg/L)	---	---	<0,03	---	---	1	1	100%

Informação complementar relativa à averiguação das situações de incumprimento dos VP (causas e medidas correctivas): Nada a registar.

O presidente da Câmara Municipal: Eng.º José Rocha

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