



Dados do Controlo da Qualidade da Água para Consumo Humano no Concelho de Marco de Canaveses

4º TRIMESTRE

Em conformidade com o Decreto-Lei n.º 152/2017, de 7 de dezembro, 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)

2022

Zona de Abastecimento: Barreiros

Parâmetro	Valor Paramétrico (VP)	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º de análises PCQA	N.º Análises no trimestre		% Análises Realizadas
		Mínimo	Máximo				Previstas	Realizadas	
<i>Escherichia coli</i> (<i>E. Coli</i>) (UFC/100 ml)	0	0	0	0	100%	6	1	1	100%
Bactérias coliformes (UFC/100 ml)	0	0	0	0	100%	6	1	1	100%
Desinfetante residual (mg/l)	---	0.73	0.73	---	---	6	1	1	100%
Cheiro a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	2	1	1	100%
Sabor a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	2	1	1	100%
pH (Unidades pH)	≥6,5 e ≤9,5	6.6	6.6	0	100%	2	1	1	100%
Condutividade a 20 °C (µS/cm)	2500	108	108	0	100%	2	1	1	100%
Cor (mg/l PtCo)	20	< 3.0	< 3.0	0	100%	2	1	1	100%
Turvação (NTU)	4	< 1.0	< 1.0	0	100%	2	1	1	100%
Enterococos (UFC/100 ml)	0	0	0	0	100%	2	1	1	100%
Número de colónias a 22 °C (N/ml)	---	0	0	---	---	2	1	1	100%
Número de colónias a 37 °C (N/ml)	---	0	0	---	---	2	1	1	100%
<i>Clostridium perfringens</i> (N/100 ml)	0	---	---	---	---	1	0	0	---
Alumínio (µg/l Al)	200	---	---	---	---	1	0	0	---
Amónio (mg/l NH ₄)	0.50	---	---	---	---	1	0	0	---
Antimónio (µg/l Sb)	5.0	---	---	---	---	1	0	0	---
Arsénio (µg/l As)	10	---	---	---	---	1	0	0	---
Benzeno (µg/l)	1.0	---	---	---	---	1	0	0	---
Benzo(a)pireno (µg/l)	0.010	---	---	---	---	1	0	0	---
Boro (mg/l B)	1.0	---	---	---	---	1	0	0	---
Bromatos (µg/l BrO ₃)	10	---	---	---	---	1	0	0	---
Cádmio (µg/l Cd)	5.0	---	---	---	---	1	0	0	---
Cálcio (mg/l Ca)	---	---	---	---	---	1	0	0	---
Cianetos (µg/l CN)	50	---	---	---	---	1	0	0	---
Cloretos (mg/l Cl)	250	---	---	---	---	1	0	0	---
Chumbo (µg/l Pb)	10	---	---	---	---	1	0	0	---
Cobre (mg/l Cu)	2.0	---	---	---	---	1	0	0	---
Crómio (µg/l Cr)	50	---	---	---	---	1	0	0	---
1,2 - dicloroetano (µg/l)	3.0	---	---	---	---	1	0	0	---
Dureza total (mg/l CaCO ₃)	---	---	---	---	---	1	0	0	---
Ferro (µg/l Fe)	200	---	---	---	---	1	0	0	---
Fluoretos (mg/l F)	1.5	---	---	---	---	1	0	0	---
Hidrocarbonetos Aromáticos Policíclicos (HAP) (µg/l)	0.10	---	---	---	---	1	0	0	---
Benzo(b)fluoranteno (µg/l)	---	---	---	---	---	1	0	0	---
Benzo(k)fluoranteno (µg/l)	---	---	---	---	---	1	0	0	---
Benzo(ghi)perileno (µg/l)	---	---	---	---	---	1	0	0	---
Indeno(1,2,3-cd)pireno (µg/l)	---	---	---	---	---	1	0	0	---
Magnésio (mg/l Mg)	---	---	---	---	---	1	0	0	---
Manganês (µg/l Mn)	50	---	---	---	---	1	0	0	---
Nitratos (mg/l NO ₃)	50	---	---	---	---	1	0	0	---
Nitritos (mg/l NO ₂)	0.50	---	---	---	---	1	0	0	---
Merúrio (µg/l Hg)	1.0	---	---	---	---	1	0	0	---
Níquel (µg/l Ni)	20	---	---	---	---	1	0	0	---
Oxidabilidade (mg/l O ₂)	5.0	---	---	---	---	1	0	0	---
Selénio (µg/l Se)	10	---	---	---	---	1	0	0	---
Sódio (mg/l Na)	200	---	---	---	---	1	0	0	---
Sulfatos (mg/l SO ₄)	250	---	---	---	---	1	0	0	---
Tetracloroetano e Tricloroetano (µg/l)	10	---	---	---	---	1	0	0	---
Tetracloroetano (µg/l)	---	---	---	---	---	1	0	0	---
Tricloroetano (µg/l)	---	---	---	---	---	1	0	0	---
Trihalometanos - total (THM) (µg/l)	100	---	---	---	---	1	0	0	---
Clorofórmio (µg/l)	---	---	---	---	---	1	0	0	---
Bromofórmio (µg/l)	---	---	---	---	---	1	0	0	---
Bromodiclorometano (µg/l)	---	---	---	---	---	1	0	0	---
Dibromoclorometano (µg/l)	---	---	---	---	---	1	0	0	---
Pesticidas - total (µg/l)	0.50	---	---	---	---	1	0	0	---
Bentazona (µg/l)	0.10	---	---	---	---	1	0	0	---
Clorpirifos (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilterbutilazina (µg/L)	0.10	---	---	---	---	1	0	0	---
Dimetoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Diurão (µg/L)	0.10	---	---	---	---	1	0	0	---
MCPA (µg/l)	0.10	---	---	---	---	1	0	0	---
Metolaclo (µg/l)	0.10	---	---	---	---	1	0	0	---
Terbutilazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Ometoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Imidaclopride (µg/l)	0.10	---	---	---	---	1	0	0	---
Simazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilsimazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Alfa total (Bq/l)	0.10	---	---	---	---	1	0	0	---
Dose indicativa (mSv)	0.10	---	---	---	---	1	0	0	---
Radão (Bq/l)	500	---	---	---	---	1	0	0	---

Informação complementar relativa à averiguação das situações de incumprimento dos VP: Não foram registados incumprimentos dos VP neste trimestre para esta Zona de Abastecimento.

Responsável: Daniel Cardoso

Data da publicação: 22/02/2023



Dados do Controlo da Qualidade da Água para Consumo Humano no Concelho de Marco de Canaveses

4º TRIMESTRE

Em conformidade com o Decreto-Lei n.º 152/2017, de 7 de dezembro, 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)

2022

Zona de Abastecimento: Pinheiro-Gouveia

Parâmetro	Valor Paramétrico (VP)	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º de análises PCQA	N.º Análises no trimestre		% Análises Realizadas
		Mínimo	Máximo				Previstas	Realizadas	
<i>Escherichia coli</i> (<i>E. Coli</i>) (UFC/100 ml)	0	0	0	0	100%	6	1	1	100%
Bactérias coliformes (UFC/100 ml)	0	0	0	0	100%	6	1	1	100%
Desinfetante residual (mg/l)	---	0.88	0.88	---	---	6	1	1	100%
Cheiro a 25 °C (Fator de diluição)	3	---	---	---	---	2	0	0	---
Sabor a 25 °C (Fator de diluição)	3	---	---	---	---	2	0	0	---
pH (Unidades pH)	≥6,5 e ≤9,5	---	---	---	---	2	0	0	---
Condutividade a 20 °C (µS/cm)	2500	---	---	---	---	2	0	0	---
Cor (mg/l PtCo)	20	---	---	---	---	2	0	0	---
Turvação (NTU)	4	---	---	---	---	2	0	0	---
Enterococos (UFC/100 ml)	0	---	---	---	---	2	0	0	---
Número de colónias a 22 °C (N/ml)	---	---	---	---	---	2	0	0	---
Número de colónias a 37 °C (N/ml)	---	---	---	---	---	2	0	0	---
<i>Clostridium perfringens</i> (N/100 ml)	0	---	---	---	---	1	0	0	---
Alumínio (µg/L Al)	200	---	---	---	---	1	0	0	---
Amónio (mg/l NH ₄)	0.50	---	---	---	---	1	0	0	---
Antimónio (µg/l Sb)	5.0	---	---	---	---	1	0	0	---
Arsénio (µg/l As)	10	---	---	---	---	1	0	0	---
Benzeno (µg/l)	1.0	---	---	---	---	1	0	0	---
Benzo(a)pireno (µg/l)	0.010	---	---	---	---	1	0	0	---
Boro (mg/l B)	1.0	---	---	---	---	1	0	0	---
Bromatos (µg/l BrO ₃)	10	---	---	---	---	1	0	0	---
Cádmio (µg/l Cd)	5.0	---	---	---	---	1	0	0	---
Cálcio (mg/l Ca)	---	---	---	---	---	1	0	0	---
Cianetos (µg/l CN)	50	---	---	---	---	1	0	0	---
Cloretos (mg/l Cl)	250	---	---	---	---	1	0	0	---
Chumbo (µg/l Pb)	10	---	---	---	---	1	0	0	---
Cobre (mg/l Cu)	2.0	---	---	---	---	1	0	0	---
Crómio (µg/l Cr)	50	---	---	---	---	1	0	0	---
1,2 - dicloroetano (µg/l)	3.0	---	---	---	---	1	0	0	---
Dureza total (mg/l CaCO ₃)	---	---	---	---	---	1	0	0	---
Ferro (µg/l Fe)	200	---	---	---	---	1	0	0	---
Fluoretos (mg/l F)	1.5	---	---	---	---	1	0	0	---
Hidrocarbonetos Aromáticos Policíclicos (HAP) (µg/l)	0.10	---	---	---	---	1	0	0	---
Benzo(b)fluoranteno (µg/l)	---	---	---	---	---	1	0	0	---
Benzo(k)fluoranteno (µg/l)	---	---	---	---	---	1	0	0	---
Benzo(ghi)perileno (µg/l)	---	---	---	---	---	1	0	0	---
Indeno(1,2,3-cd)pireno (µg/l)	---	---	---	---	---	1	0	0	---
Magnésio (mg/l Mg)	---	---	---	---	---	1	0	0	---
Manganês (µg/l Mn)	50	---	---	---	---	1	0	0	---
Nitratos (mg/l NO ₃)	50	---	---	---	---	1	0	0	---
Nitritos (mg/l NO ₂)	0.50	---	---	---	---	1	0	0	---
Merúrio (µg/l Hg)	1.0	---	---	---	---	1	0	0	---
Níquel (µg/l Ni)	20	---	---	---	---	1	0	0	---
Oxidabilidade (mg/l O ₂)	5.0	---	---	---	---	1	0	0	---
Selénio (µg/l Se)	10	---	---	---	---	1	0	0	---
Sódio (mg/l Na)	200	---	---	---	---	1	0	0	---
Sulfatos (mg/l SO ₄)	250	---	---	---	---	1	0	0	---
Tetracloroetano e Tricloroetano (µg/l)	10	---	---	---	---	1	0	0	---
Tetracloroetano (µg/l)	---	---	---	---	---	1	0	0	---
Tricloroetano (µg/l)	---	---	---	---	---	1	0	0	---
Trihalometanos - total (THM) (µg/l)	100	---	---	---	---	1	0	0	---
Clorofórmio (µg/l)	---	---	---	---	---	1	0	0	---
Bromofórmio (µg/l)	---	---	---	---	---	1	0	0	---
Bromodiclorometano (µg/l)	---	---	---	---	---	1	0	0	---
Dibromoclorometano (µg/l)	---	---	---	---	---	1	0	0	---
Pesticidas - total (µg/l)	0.50	---	---	---	---	1	0	0	---
Bentazona (µg/l)	0.10	---	---	---	---	1	0	0	---
Clorpirifós (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilterbutilazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Dimetoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Diurão (µg/l)	0.10	---	---	---	---	1	0	0	---
MCPA (µg/l)	0.10	---	---	---	---	1	0	0	---
Metolaclo (µg/l)	0.10	---	---	---	---	1	0	0	---
Terbutilazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Ometoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Imidaclopride (µg/l)	0.10	---	---	---	---	1	0	0	---
Simazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilsimazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Alfa total (Bq/l)	0.10	---	---	---	---	1	0	0	---
Dose indicativa (mSv)	0.10	---	---	---	---	1	0	0	---
Radão (Bq/l)	500	---	---	---	---	1	0	0	---

Informação complementar relativa à averiguação das situações de incumprimento dos VP: Não foram registados incumprimentos dos VP neste trimestre para esta Zona de Abastecimento.

Responsável: Daniel Cardoso

Data da publicação:

22/02/2023



Dados do Controlo da Qualidade da Água para Consumo Humano no Concelho de Marco de Canaveses

4º TRIMESTRE

Em conformidade com o Decreto-Lei n.º 152/2017, de 7 de dezembro, 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)

2022

Zona de Abastecimento: Juncal

Parâmetro	Valor Paramétrico (VP)	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º de análises PCQA	N.º Análises no trimestre		% Análises Realizadas
		Mínimo	Máximo				Previstas	Realizadas	
<i>Escherichia coli</i> (<i>E. Coli</i>) (UFC/100 ml)	0	0	0	0	100%	6	1	1	100%
Bactérias coliformes (UFC/100 ml)	0	0	0	0	100%	6	1	1	100%
Desinfetante residual (mg/l)	---	0.9	0.9	---	---	6	1	1	100%
Cheiro a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	2	1	1	100%
Sabor a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	2	1	1	100%
pH (Unidades pH) ⁽¹⁾	≥6,5 e ≤9,5	6.4	6.4	1	0%	2	1	1	100%
Condutividade a 20 °C (µS/cm)	2500	78.8	78.8	0	100%	2	1	1	100%
Cor (mg/l PtCo)	20	< 3.0	< 3.0	0	100%	2	1	1	100%
Turvação (NTU)	4	< 1.0	< 1.0	0	100%	2	1	1	100%
Enterococos (UFC/100 ml)	0	0	0	0	100%	2	1	1	100%
Número de colónias a 22 °C (N/ml)	---	0	0	---	---	2	1	1	100%
Número de colónias a 37 °C (N/ml)	---	0	0	---	---	2	1	1	100%
Arsénio (µg/l As)	10	3.7	3.7	0	100%	2	1	1	100%
<i>Clostridium perfringens</i> (N/100 ml)	0	0	0	0	100%	1	1	1	100%
Alumínio (µg/l Al)	200	< 10	< 10	0	100%	1	1	1	100%
Amónio (mg/l NH ₄)	0.50	< 0.05	< 0.05	0	100%	1	1	1	100%
Antimónio (µg/l Sb)	5.0	< 1.0	< 1.0	0	100%	1	1	1	100%
Benzeno (µg/l)	1.0	< 0.20	< 0.20	0	100%	1	1	1	100%
Benzo(a)pireno (µg/l)	0.010	< 0.030	< 0.030	0	100%	1	1	1	100%
Boro (mg/l B)	1.0	< 0.010	< 0.010	0	100%	1	1	1	100%
Bromatos (µg/l BrO ₃)	10	< 5.0	< 5.0	0	100%	1	1	1	100%
Cádmio (µg/l Cd)	5.0	< 0.08	< 0.08	0	100%	1	1	1	100%
Cálcio (mg/l Ca)	---	< 2.5	< 2.5	---	---	1	1	1	100%
Cianetos (µg/l CN)	50	< 10	< 10	0	100%	1	1	1	100%
Cloretos (mg/l Cl)	250	11.7	11.7	0	100%	1	1	1	100%
Chumbo (µg/l Pb)	10	< 1.0	< 1.0	0	100%	1	1	1	100%
Cobre (mg/l Cu)	2.0	0.037	0.037	0	100%	1	1	1	100%
Crómio (µg/l Cr)	50	< 3.0	< 3.0	0	100%	1	1	1	100%
1,2 - dicloroetano (µg/l)	3.0	< 0.750	< 0.750	0	100%	1	1	1	100%
Dureza total (mg/l CaCO ₃)	---	10.2	10.2	---	---	1	1	1	100%
Ferro (µg/l Fe)	200	< 20.0	< 20.0	0	100%	1	1	1	100%
Fluoretos (mg/l F)	1.5	0.24	0.24	0	100%	1	1	1	100%
Hydrocarbonetos Aromáticos Policíclicos (HAP) (µg/l)	0.10	< 0.0200	< 0.0200	0	100%	1	1	1	100%
Benzo(b)fluoranteno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Benzo(k)fluoranteno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Benzo(ghi)perileno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Indeno(1,2,3-cd)pireno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Magnésio (mg/l Mg)	---	0.65	0.65	---	---	1	1	1	100%
Manganês (µg/l Mn)	50	< 4.0	< 4.0	0	100%	1	1	1	100%
Nitratos (mg/l NO ₃)	50	< 1.0	< 1.0	0	100%	1	1	1	100%
Nitritos (mg/l NO ₂)	0.50	< 0.10	< 0.10	0	100%	1	1	1	100%
Mercurio (µg/l Hg)	1.0	< 0.010	< 0.010	0	100%	1	1	1	100%
Níquel (µg/l Ni)	20	< 2.0	< 2.0	0	100%	1	1	1	100%
Oxidabilidade (mg/l O ₂)	5.0	1.1	1.1	0	100%	1	1	1	100%
Selénio (µg/l Se)	10	< 2.0	< 2.0	0	100%	1	1	1	100%
Sódio (mg/l Na)	200	11.4	11.4	0	100%	1	1	1	100%
Sulfatos (mg/l SO ₄)	250	< 10.0	< 10.0	0	100%	1	1	1	100%
Tetracloroetano e Tricloroetano (µg/l)	10	< 0.30	< 0.30	0	100%	1	1	1	100%
Tetracloroetano (µg/l)	---	< 0.20	< 0.20	---	---	1	1	1	100%
Tricloroetano (µg/l)	---	< 0.10	< 0.10	---	---	1	1	1	100%
Trihalometanos - total (THM) (µg/l)	100	7.78	7.78	0	100%	1	1	1	100%
Clorofórmio (µg/l)	---	3.15	3.15	---	---	1	1	1	100%
Bromofórmio (µg/l)	---	0.28	0.28	---	---	1	1	1	100%
Bromodiorometano (µg/l)	---	2.84	2.84	---	---	1	1	1	100%
Dibromoclorometano (µg/l)	---	1.51	1.51	---	---	1	1	1	100%
Pesticidas - total (µg/l)	0.50	< 0.10	< 0.10	0	100%	1	1	1	100%
Bentazona (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Clorpirifos (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilterbutilazina (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Dimetoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Diurão (µg/l)	0.10	---	---	---	---	1	0	0	---
MCPA (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Metolaclo (µg/l)	0.10	---	---	---	---	1	0	0	---
Terbutilazina (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Omatoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Imidaclopride (µg/l)	0.10	---	---	---	---	1	0	0	---
Simazina (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Desetilsimazina (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Alfa total (Bq/l)	0.10	< 0.04	< 0.04	0	100%	1	1	1	100%
Dose indicativa (mSv)	0.10	< 0.1	< 0.1	0	100%	1	1	1	100%
Radão (Bq/l)	500	16.4	16.4	0	100%	1	1	1	100%

Informação complementar relativa à averiguação das situações de incumprimento dos VP: ⁽¹⁾pH - Incumprimento devido às características naturais (hidrogeológicas) da origem de água. Não foram tomadas medidas mas existe já um plano de trabalhos com vista à sua correção.

Responsável: Daniel Cardoso

Data da publicação: 22/02/2023



Dados do Controlo da Qualidade da Água para Consumo Humano no Concelho de Marco de Canaveses

4º TRIMESTRE

Em conformidade com o Decreto-Lei n.º 152/2017, de 7 de dezembro, 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)

2022

Zona de Abastecimento: Magrelos

Parâmetro	Valor Paramétrico (VP)	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º de análises PCQA	N.º Análises no trimestre		% Análises Realizadas
		Mínimo	Máximo				Previstas	Realizadas	
<i>Escherichia coli</i> (<i>E. Coli</i>) (UFC/100 ml)	0	0	0	0	100%	6	1	1	100%
Bactérias coliformes (UFC/100 ml)	0	0	0	0	100%	6	1	1	100%
Desinfetante residual (mg/l)	---	0.28	0.28	---	---	6	1	1	100%
Cheiro a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	2	1	1	100%
Sabor a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	2	1	1	100%
pH (Unidades pH)	≥6,5 e ≤9,5	6.6	6.6	0	100%	2	1	1	100%
Condutividade a 20 °C (µS/cm)	2500	137	137	0	100%	2	1	1	100%
Cor (mg/l PtCo)	20	< 3.0	< 3.0	0	100%	2	1	1	100%
Turvação (NTU)	4	< 1.0	< 1.0	0	100%	2	1	1	100%
Enterococos (UFC/100 ml)	0	0	0	0	100%	2	1	1	100%
Número de colónias a 22 °C (N/ml)	---	0	0	---	---	2	1	1	100%
Número de colónias a 37 °C (N/ml)	---	0	0	---	---	2	1	1	100%
<i>Clostridium perfringens</i> (N/100 ml)	0	0	0	0	100%	1	1	1	100%
Alumínio (µg/L Al)	200	30.2	30.2	0	100%	1	1	1	100%
Amónio (mg/l NH ₄)	0.50	< 0.05	< 0.05	0	100%	1	1	1	100%
Antimónio (µg/l Sb)	5.0	< 1.0	< 1.0	0	100%	1	1	1	100%
Arsénio (µg/l As) ⁽¹⁾	10	24.7	24.7	1	0%	1	1	1	100%
Benzeno (µg/l)	1.0	< 0.20	< 0.20	0	100%	1	1	1	100%
Benzo(a)pireno (µg/l)	0.010	< 0.0030	< 0.0030	0	100%	1	1	1	100%
Boro (mg/l B)	1.0	< 0.010	< 0.010	0	100%	1	1	1	100%
Bromatos (µg/l BrO ₃)	10	< 5.0	< 5.0	0	100%	1	1	1	100%
Cádmio (µg/l Cd)	5.0	< 0.08	< 0.08	0	100%	1	1	1	100%
Cálcio (mg/l Ca)	---	9.7	9.7	---	---	1	1	1	100%
Cianetos (µg/l CN)	50	< 10	< 10	0	100%	1	1	1	100%
Cloretos (mg/l Cl)	250	11.2	11.2	0	100%	1	1	1	100%
Chumbo (µg/l Pb)	10	< 1.0	< 1.0	0	100%	1	1	1	100%
Cobre (mg/l Cu)	2.0	< 0.0030	< 0.0030	0	100%	1	1	1	100%
Crómio (µg/l Cr)	50	< 3.0	< 3.0	0	100%	1	1	1	100%
1,2 - dicloroetano (µg/l)	3.0	< 0.750	< 0.750	0	100%	1	1	1	100%
Dureza total (mg/l CaCO ₃)	---	49.5	49.5	---	---	1	1	1	100%
Ferro (µg/l Fe)	200	< 20.0	< 20.0	0	100%	1	1	1	100%
Fluoretos (mg/l F)	1.5	0.67	0.67	0	100%	1	1	1	100%
Hydrocarbonetos Aromáticos Policíclicos (HAP) (µg/l)	0.10	< 0.0200	< 0.0200	0	100%	1	1	1	100%
Benzo(b)fluoranteno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Benzo(k)fluoranteno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Benzo(ghi)perileno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Indeno(1,2,3-cd)pireno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Magnésio (mg/l Mg)	---	2.3	2.3	---	---	1	1	1	100%
Manganês (µg/l Mn)	50	13	13	0	100%	1	1	1	100%
Nitratos (mg/l NO ₃)	50	< 1.0	< 1.0	0	100%	1	1	1	100%
Nitritos (mg/l NO ₂)	0.50	< 0.10	< 0.10	0	100%	1	1	1	100%
Mercurio (µg/l Hg)	1.0	< 0.010	< 0.010	0	100%	1	1	1	100%
Níquel (µg/l Ni)	20	< 2.0	< 2.0	0	100%	1	1	1	100%
Oxidabilidade (mg/l O ₂)	5.0	1.6	1.6	0	100%	1	1	1	100%
Selénio (µg/l Se)	10	< 2.0	< 2.0	0	100%	1	1	1	100%
Sódio (mg/l Na)	200	9.3	9.3	0	100%	1	1	1	100%
Sulfatos (mg/l SO ₄)	250	17.5	17.5	0	100%	1	1	1	100%
Tetracloroetano e Tricloroetano (µg/l)	10	< 0.30	< 0.30	0	100%	1	1	1	100%
Tetracloroetano (µg/l)	---	< 0.20	< 0.20	---	---	1	1	1	100%
Tricloroetano (µg/l)	---	< 0.10	< 0.10	---	---	1	1	1	100%
Trihalometanos - total (THM) (µg/l)	100	8.81	8.81	0	100%	1	1	1	100%
Clorofórmio (µg/l)	---	0.93	0.93	---	---	1	1	1	100%
Bromofórmio (µg/l)	---	2.00	2.00	---	---	1	1	1	100%
Bromodichlorometano (µg/l)	---	2.06	2.06	---	---	1	1	1	100%
Dibromochlorometano (µg/l)	---	3.82	3.82	---	---	1	1	1	100%
Pesticidas - total (µg/l)	0.50	< 0.10	< 0.10	0	100%	1	1	1	100%
Bentazona (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Clorpirifos (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilterbutilazina (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Dimetoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Diurão (µg/l)	0.10	---	---	---	---	1	0	0	---
MCPA (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Metolaclo (µg/l)	0.10	---	---	---	---	1	0	0	---
Terbutilazina (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Ometoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Imidaclopride (µg/l)	0.10	---	---	---	---	1	0	0	---
Simazina (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Desetilsimazina (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Alfa total (Bq/l) ⁽²⁾	0.10	0.38	0.38	1	0%	1	1	1	100%
Dose indicativa (mSv)	0.10	< 0.1	< 0.1	0	100%	1	1	1	100%
Radão (Bq/l)	500	56.4	56.4	0	100%	1	1	1	100%

Informação complementar relativa à averiguação das situações de incumprimento dos VP: ⁽¹⁾arsénio: Incumprimento devido às características naturais (hidrogeológicas) da origem de água. Medida corretiva: Instalação de sistema de tratamento. Análise de verificação [As] = 2.3 µg/l. ⁽²⁾alfa total: Desvio no valor de verificação devido às características naturais (hidrogeológicas) da origem de água. Não foram tomadas medidas porque se concluiu que a dose indicativa é inferior a 0,10 mSv. Resultado da pesquisa de radionuclídeos: Urânio 234 = 0.02 Bq/l, Urânio 238 < 0.01 Bq/l, Rádio 226 = 0.03 Bq/l, Polónio 210 < 0.01 Bq/l. Cálculo da Dose Indicativa = 0.07 adimensional.

Responsável: Daniel Cardoso

Data da publicação: 22/02/2023



Dados do Controlo da Qualidade da Água para Consumo Humano no Concelho de Marco de Canaveses

4º TRIMESTRE

Em conformidade com o Decreto-Lei n.º 152/2017, de 7 de dezembro, 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)

2022

Zona de Abastecimento: Montedeiras

Parâmetro	Valor Paramétrico (VP)	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º de análises PCQA	N.º Análises no trimestre		% Análises Realizadas
		Mínimo	Máximo				Previstas	Realizadas	
<i>Escherichia coli</i> (<i>E. Coli</i>) (UFC/100 ml)	0	0	0	0	100%	12	3	3	100%
Bactérias coliformes (UFC/100 ml)	0	0	0	0	100%	12	3	3	100%
Desinfetante residual (mg/l)	---	0.17	0.81	---	---	12	3	3	100%
Cheiro a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	4	1	1	100%
Sabor a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	4	1	1	100%
pH (Unidades pH)	≥6,5 e ≤9,5	7.3	7.3	0	100%	4	1	1	100%
Condutividade a 20 °C (µS/cm)	2500	160	160	0	100%	4	1	1	100%
Cor (mg/l PtCo)	20	< 3.0	< 3.0	0	100%	4	1	1	100%
Turvação (NTU)	4	< 1.0	< 1.0	0	100%	4	1	1	100%
Enterococos (UFC/100 ml)	0	0	0	0	100%	4	1	1	100%
Número de colónias a 22 °C (N/ml)	---	6	6	---	---	4	1	1	100%
Número de colónias a 37 °C (N/ml)	---	9	9	---	---	4	1	1	100%
Arsénio (µg/l As)	10	< 3.0	< 3.0	0	100%	4	1	1	100%
<i>Clostridium perfringens</i> (N/100 ml)	0	---	---	---	---	1	0	0	---
Alumínio (µg/L Al)	0	---	---	---	---	1	0	0	---
Amónio (mg/l NH ₄)	0.50	---	---	---	---	1	0	0	---
Antimónio (µg/l Sb)	5.0	---	---	---	---	1	0	0	---
Benzeno (µg/l)	1.0	---	---	---	---	1	0	0	---
Benzo(a)pireno (µg/l)	0.010	---	---	---	---	1	0	0	---
Boro (mg/l B)	1.0	---	---	---	---	1	0	0	---
Bromatos (µg/l BrO ₃)	10	---	---	---	---	1	0	0	---
Cádmio (µg/l Cd)	5.0	---	---	---	---	1	0	0	---
Cálcio (mg/l Ca)	---	---	---	---	---	1	0	0	---
Cianetos (µg/l CN)	50	---	---	---	---	1	0	0	---
Cloretos (mg/l Cl)	250	---	---	---	---	1	0	0	---
Chumbo (µg/l Pb)	10	---	---	---	---	1	0	0	---
Cobre (mg/l Cu)	2	---	---	---	---	1	0	0	---
Crómio (µg/l Cr)	50	---	---	---	---	1	0	0	---
1,2 - dicloroetano (µg/l)	3.0	---	---	---	---	1	0	0	---
Dureza total (mg/l CaCO ₃)	---	---	---	---	---	1	0	0	---
Ferro (µg/l Fe)	200	---	---	---	---	1	0	0	---
Fluoretos (mg/l F)	1.5	---	---	---	---	1	0	0	---
Hidrocarbonetos Aromáticos Policíclicos (HAP) (µg/l)	0.10	---	---	---	---	1	0	0	---
Benzo(b)fluoranteno (µg/l)	---	---	---	---	---	1	0	0	---
Benzo(k)fluoranteno (µg/l)	---	---	---	---	---	1	0	0	---
Benzo(ghi)perileno (µg/l)	---	---	---	---	---	1	0	0	---
Indeno(1,2,3-cd)pireno (µg/l)	---	---	---	---	---	1	0	0	---
Magnésio (mg/l Mg)	---	---	---	---	---	1	0	0	---
Manganês (µg/l Mn)	50	---	---	---	---	1	0	0	---
Nitratos (mg/l NO ₃)	50	---	---	---	---	1	0	0	---
Nitritos (mg/l NO ₂)	0.50	---	---	---	---	1	0	0	---
Mercúrio (µg/l Hg)	1.0	---	---	---	---	1	0	0	---
Níquel (µg/l Ni)	20	---	---	---	---	1	0	0	---
Oxidabilidade (mg/l O ₂)	5.0	---	---	---	---	1	0	0	---
Selénio (µg/l Se)	10	---	---	---	---	1	0	0	---
Sódio (mg/l Na)	200	---	---	---	---	1	0	0	---
Sulfatos (mg/l SO ₄)	250	---	---	---	---	1	0	0	---
Tetracloroetano e Tricloroetano (µg/l)	10	---	---	---	---	1	0	0	---
Tetracloroetano (µg/l)	---	---	---	---	---	1	0	0	---
Tricloroetano (µg/l)	---	---	---	---	---	1	0	0	---
Trihalometanos - total (THM) (µg/l)	100	---	---	---	---	1	0	0	---
Clorofórmio (µg/l)	---	---	---	---	---	1	0	0	---
Bromofórmio (µg/l)	---	---	---	---	---	1	0	0	---
Bromodiclorometano (µg/l)	---	---	---	---	---	1	0	0	---
Dibromoclorometano (µg/l)	---	---	---	---	---	1	0	0	---
Pesticidas - total (µg/l)	0.50	---	---	---	---	1	0	0	---
Bentazona (µg/l)	0.10	---	---	---	---	1	0	0	---
Clorpirifos (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilterbutilazina (µg/L)	0.10	---	---	---	---	1	0	0	---
Dimetoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Diurão (µg/L)	0.10	---	---	---	---	1	0	0	---
MCPA (µg/l)	0.10	---	---	---	---	1	0	0	---
Metolacloro (µg/l)	0.10	---	---	---	---	1	0	0	---
Terbutilazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Ometoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Imidaclopride (µg/l)	0.10	---	---	---	---	1	0	0	---
Simazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilsimazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Alfa total (Bq/l)	0.10	---	---	---	---	1	0	0	---
Dose indicativa (mSv)	0.10	---	---	---	---	1	0	0	---
Radão (Bq/l)	500	---	---	---	---	1	0	0	---

Informação complementar relativa à averiguação das situações de incumprimento dos VP: Não foram registados incumprimentos dos VP neste trimestre para esta Zona de Abastecimento.

Responsável: Daniel Cardoso

Data da publicação:

22/02/2023



Dados do Controlo da Qualidade da Água para Consumo Humano no Concelho de Marco de Canaveses

4º TRIMESTRE

Em conformidade com o Decreto-Lei n.º 152/2017, de 7 de dezembro, 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)

2022

Zona de Abastecimento: Outeiro, Lúga e Toutosa

Parâmetro	Valor	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º de análises PCQA	N.º Análises no trimestre		% Análises Realizadas
	Paramétrico (VP)	Mínimo	Máximo				Previstas	Realizadas	
<i>Escherichia coli</i> (<i>E. Coli</i>) (UFC/100 ml)	0	0	0	0	100%	6	2	2	100%
Bactérias coliformes (UFC/100 ml)	0	0	0	0	100%	6	2	2	100%
Desinfetante residual (mg/l)	---	0.26	1.1	---	---	6	2	2	100%
Cheiro a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	2	1	1	100%
Sabor a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	2	1	1	100%
pH (Unidades pH)	≥6,5 e ≤9,5	8.1	8.1	0	100%	2	1	1	100%
Condutividade a 20 °C (µS/cm)	2500	320	320	0	100%	2	1	1	100%
Cor (mg/l PtCo)	20	3	3	0	100%	2	1	1	100%
Turvação (NTU)	4	< 1.0	< 1.0	0	100%	2	1	1	100%
Enterococos (UFC/100 ml)	0	0	0	0	100%	2	1	1	100%
Número de colónias a 22 °C (N/ml)	---	4	4	---	---	2	1	1	100%
Número de colónias a 37 °C (N/ml)	---	0	0	---	---	2	1	1	100%
<i>Clostridium perfringens</i> (N/100 ml)	0	0	0	0	100%	2	1	1	100%
Alumínio (µg/l Al)	200	< 10	< 10	0	100%	2	1	1	100%
Manganês (µg/l Mn)	50	5.9	5.9	0	100%	2	1	1	100%
Amónio (mg/l NH ₄)	0.50	< 0.05	< 0.05	0	100%	1	1	1	100%
Antimónio (µg/l Sb) ^(C)	5.0	< 0.5	< 0.5	0	100%	---	1	1	100%
Arsénio (µg/l As) ^(C)	10	3.6	3.6	0	100%	---	1	1	100%
Benzeno (µg/l) ^(C)	1.0	< 0.20	< 0.20	0	100%	---	1	1	100%
Benzo(a)pireno (µg/l)	0.010	< 0.0030	< 0.0030	0	100%	1	1	1	100%
Boro (mg/l B) ^(C)	1.0	0.014	0.014	0	100%	---	1	1	100%
Bromatos (µg/l BrO ₃) ^(C)	10	< 2.0	< 2.0	0	100%	---	1	1	100%
Cádmio (µg/l Cd) ^(C)	5.0	< 0.5	< 0.5	0	100%	---	1	1	100%
Cálcio (mg/l Ca)	---	33.9	33.9	---	---	1	1	1	100%
Cianetos (µg/l CN) ^(C)	50	< 5	< 5	0	100%	---	1	1	100%
Cloretos (mg/l Cl) ^(C)	250	24	24	0	100%	---	1	1	100%
Chumbo (µg/l Pb)	10	< 1.0	< 1.0	0	100%	1	1	1	100%
Cobre (mg/l Cu)	2.0	0.0062	0.0062	0	100%	1	1	1	100%
Crómio (µg/l Cr)	50	< 3.0	< 3.0	0	100%	1	1	1	100%
1,2 - dicloroetano (µg/l) ^(C)	3.0	< 0.750	< 0.750	0	100%	---	1	1	100%
Dureza total (mg/l CaCO ₃)	---	141	141	---	---	1	1	1	100%
Ferro (µg/l Fe)	200	< 20.0	< 20.0	0	100%	1	1	1	100%
Fluoretos (mg/l F) ^(C)	1.5	0.14	0.14	0	100%	---	1	1	100%
Hydrocarbonetos Aromáticos Policíclicos (HAP) (µg/l)	0.10	< 0.0200	< 0.0200	0	100%	1	1	1	100%
Benzo(b)fluoranteno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Benzo(k)fluoranteno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Benzo(ghi)perileno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Indeno(1,2,3-cd)pireno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Magnésio (mg/l Mg)	---	7.4	7.4	---	---	1	1	1	100%
Nitratos (mg/l NO ₃) ^(C)	50	2.3	2.3	0	100%	---	1	1	100%
Nitritos (mg/l NO ₂)	0.50	< 0.10	< 0.10	0	100%	1	1	1	100%
Mercúrio (µg/l Hg) ^(C)	1.0	< 0.010	< 0.010	0	100%	---	1	1	100%
Níquel (µg/l Ni)	20	< 2.0	< 2.0	0	100%	1	1	1	100%
Oxidabilidade (mg/l O ₂)	5.0	1.6	1.6	0	100%	1	1	1	100%
Selénio (µg/l Se) ^(C)	10	< 0.5	< 0.5	0	100%	---	1	1	100%
Sódio (mg/l Na) ^(C)	200	15	15	0	100%	---	1	1	100%
Sulfatos (µg/l SO ₄) ^(C)	250	33	33	0	100%	---	1	1	100%
Tetracloroetano e Tricloroetano (µg/l) ^(C)	10	< 0.20	< 0.20	0	100%	---	1	1	100%
Tetracloroetano (µg/l) ^(C)	---	< 0.20	< 0.20	---	---	---	1	1	100%
Tricloroetano (µg/l) ^(C)	---	< 0.10	< 0.10	---	---	---	1	1	100%
Trihalometanos - total (THM) (µg/l)	100	19.2	19.2	0	100%	1	1	1	100%
Clorofórmio (µg/l)	---	9.94	9.94	---	---	1	1	1	100%
Bromofórmio (µg/l)	---	0.46	0.46	---	---	1	1	1	100%
Bromodiclorometano (µg/l)	---	5.57	5.57	---	---	1	1	1	100%
Dibromoclorometano (µg/l)	---	3.18	3.18	---	---	1	1	1	100%
Pesticidas - total (µg/l) ^(C)	0.50	< 0.030	< 0.030	0	100%	---	1	1	100%
Alacloro (µg/l) ^(C)	0.10	< 0.030	< 0.030	0	100%	---	1	1	100%
Bentazona (µg/l) ^(C)	0.10	< 0.030	< 0.030	0	100%	---	1	1	100%
Clorpirifos (µg/l) ^(C)	0.10	< 0.030	< 0.030	0	100%	---	1	1	100%
Desetilterbutilazina (µg/l) ^(C)	0.10	< 0.030	< 0.030	0	100%	---	1	1	100%
Dimetoato (µg/l) ^(C)	0.10	< 0.030	< 0.030	0	100%	---	1	1	100%
Diurão (µg/l) ^(C)	0.10	< 0.030	< 0.030	0	100%	---	1	1	100%
MCPA (µg/l) ^(C)	0.10	< 0.030	< 0.030	0	100%	---	1	1	100%
Metalaxil (µg/l) ^(C)	0.10	< 0.030	< 0.030	0	100%	---	1	1	100%
Metolaclo (µg/l) ^(C)	0.10	< 0.030	< 0.030	0	100%	---	1	1	100%
Terbutilazina (µg/l) ^(C)	0.10	< 0.030	< 0.030	0	100%	---	1	1	100%
Ometoato (µg/l) ^(C)	0.10	< 0.030	< 0.030	0	100%	---	1	1	100%
Imidaclopride (µg/l) ^(C)	0.10	< 0.030	< 0.030	0	100%	---	1	1	100%
Simazina (µg/l) ^(C)	0.10	< 0.030	< 0.030	0	100%	---	1	1	100%
Desetilsimazina (µg/l) ^(C)	0.10	< 0.030	< 0.030	0	100%	---	1	1	100%
Alfa total (Bq/l) ^(C)	0.10	< 0.04	< 0.04	0	100%	---	1	1	100%
Dose indicativa (mSv) ^(C)	0.10	< 0.10	< 0.10	0	100%	---	1	1	100%

^(C) O parâmetro (conservativo) é analisado pela entidade gestora em alta (Águas do Norte, S.A.).

Informação complementar relativa à averiguação das situações de incumprimento dos VP: Não foram registados incumprimentos dos VP neste trimestre para esta Zona de Abastecimento.

Responsável: Daniel Cardoso

Data da publicação: 22/02/2023



Dados do Controlo da Qualidade da Água para Consumo Humano no Concelho de Marco de Canaveses

4º TRIMESTRE

Em conformidade com o Decreto-Lei n.º 152/2017, de 7 de dezembro, 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)

2022

Zona de Abastecimento: Paços de Gaiolo

Parâmetro	Valor	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	Nº de análises PCQA	N.º Análises no trimestre		% Análises Realizadas
	Paramétrico (VP)	Mínimo	Máximo				Previstas	Realizadas	
<i>Escherichia coli</i> (E. Coli) (UFC/100 ml)	0	0	0	0	100%	6	1	1	100%
Bactérias coliformes (UFC/100 ml)	0	0	0	0	100%	6	1	1	100%
Desinfetante residual (mg/l)	---	0.50	0.50	---	---	6	1	1	100%
Cheiro a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	2	1	1	100%
Sabor a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	2	1	1	100%
pH (Unidades pH)	≥6,5 e ≤9,5	6.5	6.5	0	100%	2	1	1	100%
Condutividade a 20 °C (µS/cm)	2500	47.6	47.6	0	100%	2	1	1	100%
Cor (mg/l PtCo)	20	< 3.0	< 3.0	0	100%	2	1	1	100%
Turvação (NTU)	4	< 1.0	< 1.0	0	100%	2	1	1	100%
Enterococos (UFC/100 ml)	0	0	0	0	100%	2	1	1	100%
Número de colónias a 22 °C (N/ml)	---	0	0	---	---	2	1	1	100%
Número de colónias a 37 °C (N/ml)	---	0	0	---	---	2	1	1	100%
<i>Clostridium perfringens</i> (N/100 ml)	0	0	0	0	100%	1	1	1	100%
Alumínio (µg/L Al)	200	< 10	< 10	0	100%	1	1	1	100%
Amónio (mg/l NH ₄)	0.50	< 0.05	< 0.05	0	100%	1	1	1	100%
Antimónio (µg/l Sb)	5.0	< 1.0	< 1.0	0	100%	1	1	1	100%
Arsénio (µg/l As)	10	4.3	4.3	0	100%	1	1	1	100%
Benzeno (µg/l)	1.0	< 0.20	< 0.20	0	100%	1	1	1	100%
Benzo(a)pireno (µg/l)	0.010	< 0.0030	< 0.0030	0	100%	1	1	1	100%
Boro (mg/l B)	1.0	0.012	0.012	0	100%	1	1	1	100%
Bromatos (µg/l BrO ₃)	10	< 5.0	< 5.0	0	100%	1	1	1	100%
Cádmio (µg/l Cd)	5.0	< 0.08	< 0.08	0	100%	1	1	1	100%
Cálcio (mg/l Ca)	---	2.5	2.5	---	---	1	1	1	100%
Cianetos (µg/l CN)	50	< 10	< 10	0	100%	1	1	1	100%
Cloretos (mg/l Cl)	250	< 10.0	< 10.0	0	100%	1	1	1	100%
Chumbo (µg/l Pb)	10	< 1.0	< 1.0	0	100%	1	1	1	100%
Cobre (mg/l Cu)	2.0	0.019	0.019	0	100%	1	1	1	100%
Crómio (µg/l Cr)	50	< 3.0	< 3.0	0	100%	1	1	1	100%
1,2 - dicloroetano (µg/l)	3.0	< 0.750	< 0.750	0	100%	1	1	1	100%
Dureza total (mg/l CaCO ₃)	---	23.7	23.7	---	---	1	1	1	100%
Ferro (µg/l Fe)	200	< 20.0	< 20.0	0	100%	1	1	1	100%
Fluoretos (mg/l F)	1.5	< 0.20	< 0.20	0	100%	1	1	1	100%
Hidrocarbonetos Aromáticos Policíclicos (HAP) (µg/l)	0.10	< 0.0200	< 0.0200	0	100%	1	1	1	100%
Benzo(b)fluoranteno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Benzo(k)fluoranteno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Benzo(ghi)perileno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Indeno(1,2,3-cd)pireno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Magnésio (mg/l Mg)	---	0.55	0.55	---	---	1	1	1	100%
Manganês (µg/l Mn)	50	< 4.0	< 4.0	0	100%	1	1	1	100%
Nitratos (mg/l NO ₃)	50	< 1.0	< 1.0	0	100%	1	1	1	100%
Nitritos (mg/l NO ₂)	0.50	< 0.10	< 0.10	0	100%	1	1	1	100%
Merúrio (µg/l Hg)	1.0	0.011	0.011	0	100%	1	1	1	100%
Níquel (µg/l Ni)	20	< 2.0	< 2.0	0	100%	1	1	1	100%
Oxidabilidade (mg/l O ₂)	5.0	1.8	1.8	0	100%	1	1	1	100%
Selénio (µg/l Se)	10	< 2.0	< 2.0	0	100%	1	1	1	100%
Sódio (mg/l Na)	200	< 5.0	< 5.0	0	100%	1	1	1	100%
Sulfatos (mg/l SO ₄)	250	< 10.0	< 10.0	0	100%	1	1	1	100%
Tetracloroetano e Tricloroetano (µg/l)	10	< 0.30	< 0.30	0	100%	1	1	1	100%
Tetracloroetano (µg/l)	---	< 0.20	< 0.20	---	---	1	1	1	100%
Tricloroetano (µg/l)	---	< 0.10	< 0.10	---	---	1	1	1	100%
Trihalometanos - total (THM) (µg/l)	100	3.35	3.35	0	100%	1	1	1	100%
Clorofórmio (µg/l)	---	0.66	0.66	---	---	1	1	1	100%
Bromofórmio (µg/l)	---	0.48	0.48	---	---	1	1	1	100%
Bromodiclorometano (µg/l)	---	1.04	1.04	---	---	1	1	1	100%
Dibromoclorometano (µg/l)	---	1.17	1.17	---	---	1	1	1	100%
Pesticidas - total (µg/l)	0.50	< 0.10	< 0.10	0	100%	1	1	1	100%
Bentazona (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Clorpirifos (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilterbutilazina (µg/L)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Dimetoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Diurão (µg/L)	0.10	---	---	---	---	1	0	0	---
MCPA (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Metolaclo (µg/l)	0.10	---	---	---	---	1	0	0	---
Terbutilazina (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Ometoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Imidaclopride (µg/l)	0.10	---	---	---	---	1	0	0	---
Simazina (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Desetilsimazina (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Alfa total (Bq/l)	0.10	< 0.04	< 0.04	0	100%	1	1	1	100%
Dose indicativa (mSv)	0.10	< 0.1	< 0.1	0	100%	1	1	1	100%
Radão (Bq/l)	500	22.3	22.3	0	100%	1	1	1	100%

Informação complementar relativa à averiguação das situações de incumprimento dos VP: Não foram registados incumprimentos dos VP neste trimestre para esta Zona de Abastecimento.

Responsável: Daniel Cardoso

Data da publicação: 22/02/2023



Dados do Controlo da Qualidade da Água para Consumo Humano no Concelho de Marco de Canaveses

4º TRIMESTRE

Em conformidade com o Decreto-Lei n.º 152/2017, de 7 de dezembro, 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)

2022

Zona de Abastecimento: Piores

Parâmetro	Valor Paramétrico (VP)	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º de análises PCQA	N.º Análises no trimestre		% Análises Realizadas
		Mínimo	Máximo				Previstas	Realizadas	
<i>Escherichia coli</i> (<i>E. Coli</i>) (UFC/100 ml)	0	0	0	0	100%	6	2	2	100%
Bactérias coliformes (UFC/100 ml) ⁽¹⁾	0	0	5	1	50%	6	2	2	100%
Desinfetante residual (mg/l)	---	< 0.16	0.6	---	---	6	2	2	100%
Alumínio (µg/L Al)	200	---	---	---	---	2	0	0	---
Cheiro a 25 °C (Fator de diluição)	3	---	---	---	---	2	0	0	---
Sabor a 25 °C (Fator de diluição)	3	---	---	---	---	2	0	0	---
pH (Unidades pH)	≥6,5 e ≤9,5	---	---	---	---	2	0	0	---
Condutividade a 20 °C (µS/cm)	2500	---	---	---	---	2	0	0	---
Cor (mg/l PtCo)	20	---	---	---	---	2	0	0	---
Turvação (NTU)	4	---	---	---	---	2	0	0	---
Enterococos (UFC/100 ml)	0	---	---	---	---	2	0	0	---
Número de colónias a 22 °C (N/ml)	---	---	---	---	---	2	0	0	---
Número de colónias a 37 °C (N/ml)	---	---	---	---	---	2	0	0	---
Arsénio (µg/l As)	10	---	---	---	---	2	0	0	---
<i>Clostridium perfringens</i> (N/100 ml)	0	---	---	---	---	1	0	0	---
Amónio (mg/l NH ₄)	0.50	---	---	---	---	1	0	0	---
Antimónio (µg/l Sb)	5.0	---	---	---	---	1	0	0	---
Benzeno (µg/l)	1.0	---	---	---	---	1	0	0	---
Benzo(a)pireno (µg/l)	0.010	---	---	---	---	1	0	0	---
Boro (mg/l B)	1.0	---	---	---	---	1	0	0	---
Bromatos (µg/l BrO ₃)	10	---	---	---	---	1	0	0	---
Cádmio (µg/l Cd)	5.0	---	---	---	---	1	0	0	---
Cálcio (mg/l Ca)	---	---	---	---	---	1	0	0	---
Cianetos (µg/l CN)	50	---	---	---	---	1	0	0	---
Cloretos (mg/l Cl)	250	---	---	---	---	1	0	0	---
Chumbo (µg/l Pb)	10	---	---	---	---	1	0	0	---
Cobre (mg/l Cu)	2.0	---	---	---	---	1	0	0	---
Crómio (µg/l Cr)	50	---	---	---	---	1	0	0	---
1,2 - dicloroetano (µg/l)	3.0	---	---	---	---	1	0	0	---
Dureza total (mg/l CaCO ₃)	---	---	---	---	---	1	0	0	---
Ferro (µg/l Fe)	200	---	---	---	---	1	0	0	---
Fluoretos (mg/l F)	1.5	---	---	---	---	1	0	0	---
Hidrocarbonetos Aromáticos Policíclicos (HAP) (µg/l)	0.10	---	---	---	---	1	0	0	---
Benzo(b)fluoranteno (µg/l)	---	---	---	---	---	1	0	0	---
Benzo(k)fluoranteno (µg/l)	---	---	---	---	---	1	0	0	---
Benzo(ghi)perileno (µg/l)	---	---	---	---	---	1	0	0	---
Indeno(1,2,3-cd)pireno (µg/l)	---	---	---	---	---	1	0	0	---
Magnésio (mg/l Mg)	---	---	---	---	---	1	0	0	---
Manganês (µg/l Mn)	50	---	---	---	---	1	0	0	---
Nitratos (mg/l NO ₃)	50	---	---	---	---	1	0	0	---
Nitritos (mg/l NO ₂)	0.50	---	---	---	---	1	0	0	---
Mercúrio (µg/l Hg)	1.0	---	---	---	---	1	0	0	---
Níquel (µg/l Ni)	20	---	---	---	---	1	0	0	---
Oxidabilidade (mg/l O ₂)	5.0	---	---	---	---	1	0	0	---
Selénio (µg/l Se)	10	---	---	---	---	1	0	0	---
Sódio (mg/l Na)	200	---	---	---	---	1	0	0	---
Sulfatos (mg/l SO ₄)	250	---	---	---	---	1	0	0	---
Tetracloroetano e Tricloroetano (µg/l)	10	---	---	---	---	1	0	0	---
Tetracloroetano (µg/l)	---	---	---	---	---	1	0	0	---
Tricloroetano (µg/l)	---	---	---	---	---	1	0	0	---
Trihalometanos - total (THM) (µg/l)	100	---	---	---	---	1	0	0	---
Clorofórmio (µg/l)	---	---	---	---	---	1	0	0	---
Bromofórmio (µg/l)	---	---	---	---	---	1	0	0	---
Bromodichlorometano (µg/l)	---	---	---	---	---	1	0	0	---
Dibromoclorometano (µg/l)	---	---	---	---	---	1	0	0	---
Pesticidas - total (µg/l)	0.50	---	---	---	---	1	0	0	---
Bentazona (µg/l)	0.10	---	---	---	---	1	0	0	---
Clorpirifos (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilterbutilazina (µg/L)	0.10	---	---	---	---	1	0	0	---
Dimetoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Diurão (µg/L)	0.10	---	---	---	---	1	0	0	---
MCPA (µg/l)	0.10	---	---	---	---	1	0	0	---
Metolaclo (µg/l)	0.10	---	---	---	---	1	0	0	---
Terbutilazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Ometoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Imidaclopride (µg/l)	0.10	---	---	---	---	1	0	0	---
Simazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilsimazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Alfa total (Bq/l)	0.10	---	---	---	---	1	0	0	---
Dose indicativa (mSv)	0.10	---	---	---	---	1	0	0	---
Radão (Bq/l)	500	---	---	---	---	1	0	0	---

Informação complementar relativa à averiguação das situações de incumprimento dos VP: ⁽¹⁾Bactérias coliformes: Incumprimento devido a falha no sistema de tratamento (desinfecção). Medida corretiva: Correção da dosagem de reagente no tratamento. Resultado da análise de verificação: Bactérias coliformes = 0 UFC/100 ml.

Responsável: Daniel Cardoso

Data da publicação: 22/02/2023



Dados do Controlo da Qualidade da  gua para Consumo Humano no Concelho de Marco de Canaveses

4.º TRIMESTRE

Em conformidade com o Decreto-Lei n.º 152/2017, de 7 de dezembro, procedeu-se   verifica  o da qualidade da  gua da rede p blica, atrav s de an lises peri dicas na torneira do consumidor, segundo o Programa de Controlo da Qualidade da  gua (PCQA) aprovado pela autoridade competente (ERSAR)

2022

Zona de Abastecimento: S. Salvador

Par�metro	Valor Param�trico (VP)	Valores obtidos		N.º An�lises superiores VP	% Cumprimento do VP	N.º de an�lises PCQA	N.º An�lises no trimestre		% An�lises Realizadas
		M�nimo	M�ximo				Previstas	Realizadas	
<i>Escherichia coli</i> (<i>E. Coli</i>) (UFC/100 ml)	0	0	0	0	100%	6	2	2	100%
Bact�rias coliformes (UFC/100 ml)	0	0	0	0	100%	6	2	2	100%
Desinfetante residual (mg/l)	---	0.42	0.68	---	---	6	2	2	100%
Alum�nio ($\mu\text{g/L Al}$)	200	47	47	0	100%	2	1	1	100%
Cheiro a 25 �C (Fator de dilui��o)	3	<1	<1	0	100%	2	1	1	100%
Sabor a 25 �C (Fator de dilui��o)	3	<1	<1	0	100%	2	1	1	100%
pH (Unidades pH)	$\geq 6,5$ e $\leq 9,5$	6.7	6.7	0	100%	2	1	1	100%
Condutividade a 20 �C ($\mu\text{S/cm}$)	2500	141	141	0	100%	2	1	1	100%
Cor (mg/l PtCo)	20	< 3.0	< 3.0	0	100%	2	1	1	100%
Turva��o (NTU)	4	< 1.0	< 1.0	0	100%	2	1	1	100%
Enterococos (UFC/100 ml)	0	0	0	0	100%	2	1	1	100%
N�mero de col�nias a 22 �C (N/ml)	---	0	0	---	---	2	1	1	100%
N�mero de col�nias a 36 �C (N/ml)	---	0	0	---	---	2	1	1	100%
Alfa total (Bq/l)	0.10	0.09	0.09	0	100%	2	1	1	100%
Dose indicativa (mSv)	0.10	< 0.1	< 0.1	0	100%	2	1	1	100%
Rad�o (Bq/l)	500	219	219	0	100%	2	1	1	100%
Ur�nio 234 (Bq/l)	---	0.02	0.02	---	---	2	1	1	100%
Ur�nio 238 (Bq/l)	---	0.03	0.03	---	---	2	1	1	100%
R�dio 226 (Bq/l)	---	0.05	0.05	---	---	2	1	1	100%
Pol�nio (210 Bq/l)	---	0.03	0.03	---	---	2	1	1	100%
<i>Clostridium perfringens</i> (N/100 ml)	0	---	---	---	---	1	0	0	---
Am�nio (mg/l NH_4)	0.50	---	---	---	---	1	0	0	---
Antim�nio ($\mu\text{g/l Sb}$)	5.0	---	---	---	---	1	0	0	---
Ars�nio ($\mu\text{g/l As}$)	10	---	---	---	---	1	0	0	---
Benzeno ($\mu\text{g/l}$)	1.0	---	---	---	---	1	0	0	---
Benzo(a)pireno ($\mu\text{g/l}$)	0.010	---	---	---	---	1	0	0	---
Boro (mg/l B)	1.0	---	---	---	---	1	0	0	---
Bromatos ($\mu\text{g/l BrO}_3$)	10	---	---	---	---	1	0	0	---
C�dmio ($\mu\text{g/l Cd}$)	5.0	---	---	---	---	1	0	0	---
C�lcio (mg/l Ca)	---	---	---	---	---	1	0	0	---
Cianetos ($\mu\text{g/l CN}$)	50	---	---	---	---	1	0	0	---
Cloretos (mg/l Cl)	250	---	---	---	---	1	0	0	---
Chumbo ($\mu\text{g/l Pb}$)	10	---	---	---	---	1	0	0	---
Cobre (mg/l Cu)	2.0	---	---	---	---	1	0	0	---
Cr�mio ($\mu\text{g/l Cr}$)	50	---	---	---	---	1	0	0	---
1,2 - dicloroetano ($\mu\text{g/l}$)	3.0	---	---	---	---	1	0	0	---
Dureza total (mg/l CaCO_3)	---	---	---	---	---	1	0	0	---
Ferro ($\mu\text{g/l Fe}$)	200	---	---	---	---	1	0	0	---
Fluoretos (mg/l F)	1.5	---	---	---	---	1	0	0	---
Hidrocarbonetos Arom�ticos Polic�clicos (HAP) ($\mu\text{g/l}$)	0.10	---	---	---	---	1	0	0	---
Benzo(b)fluoranteno ($\mu\text{g/l}$)	---	---	---	---	---	1	0	0	---
Benzo(k)fluoranteno ($\mu\text{g/l}$)	---	---	---	---	---	1	0	0	---
Benzo(ghi)perileno ($\mu\text{g/l}$)	---	---	---	---	---	1	0	0	---
Indeno(1,2,3-cd)pireno ($\mu\text{g/l}$)	---	---	---	---	---	1	0	0	---
Magn�sio (mg/l Mg)	---	---	---	---	---	1	0	0	---
Mangan�s ($\mu\text{g/l Mn}$)	50	---	---	---	---	1	0	0	---
Nitratos (mg/l NO_3)	50	---	---	---	---	1	0	0	---
Nitritos (mg/l NO_2)	0.50	---	---	---	---	1	0	0	---
Merc�rio ($\mu\text{g/l Hg}$)	1.0	---	---	---	---	1	0	0	---
N�quel ($\mu\text{g/l Ni}$)	20	---	---	---	---	1	0	0	---
Oxidabilidade (mg/l O_2)	5.0	---	---	---	---	1	0	0	---
Sel�nio ($\mu\text{g/l Se}$)	10	---	---	---	---	1	0	0	---
S�dio (mg/l Na)	200	---	---	---	---	1	0	0	---
Sulfatos (mg/l SO_4)	250	---	---	---	---	1	0	0	---
Tetracloroetano e Tricloroetano ($\mu\text{g/l}$)	10	---	---	---	---	1	0	0	---
Tetracloroetano ($\mu\text{g/l}$)	---	---	---	---	---	1	0	0	---
Tricloroetano ($\mu\text{g/l}$)	---	---	---	---	---	1	0	0	---
Trihalometanos - total (THM) ($\mu\text{g/l}$)	100	---	---	---	---	1	0	0	---
Clorof�rmio ($\mu\text{g/l}$)	---	---	---	---	---	1	0	0	---
Bromof�rmio ($\mu\text{g/l}$)	---	---	---	---	---	1	0	0	---
Bromodichlorometano ($\mu\text{g/l}$)	---	---	---	---	---	1	0	0	---
Dibromoclorometano ($\mu\text{g/l}$)	---	---	---	---	---	1	0	0	---
Pesticidas - total ($\mu\text{g/l}$)	0.50	---	---	---	---	1	0	0	---
Bentazona ($\mu\text{g/l}$)	0.10	---	---	---	---	1	0	0	---
Clorpirifos ($\mu\text{g/l}$)	0.10	---	---	---	---	1	0	0	---
Desetilterbutilazina ($\mu\text{g/l}$)	0.10	---	---	---	---	1	0	0	---
Dimetoato ($\mu\text{g/l}$)	0.10	---	---	---	---	1	0	0	---
Diur�o ($\mu\text{g/l}$)	0.10	---	---	---	---	1	0	0	---
MCPA ($\mu\text{g/l}$)	0.10	---	---	---	---	1	0	0	---
Metolaclo ($\mu\text{g/l}$)	0.10	---	---	---	---	1	0	0	---
Terbutilazina ($\mu\text{g/l}$)	0.10	---	---	---	---	1	0	0	---
Ometoato ($\mu\text{g/l}$)	0.10	---	---	---	---	1	0	0	---
Imidaclopride ($\mu\text{g/l}$)	0.10	---	---	---	---	1	0	0	---
Simazina ($\mu\text{g/l}$)	0.10	---	---	---	---	1	0	0	---
Desetilisimazina ($\mu\text{g/l}$)	0.10	---	---	---	---	1	0	0	---

Informa  o complementar relativa   averigua  o das situa  es de incumprimento dos VP: N o foram registados incumprimentos dos VP neste trimestre para esta Zona de Abastecimento.

Respons vel: Daniel Cardoso

Data da publica  o:

22/02/2023



Dados do Controlo da Qualidade da Água para Consumo Humano no Concelho de Marco de Canaveses

4º TRIMESTRE

Em conformidade com o Decreto-Lei n.º 152/2017, de 7 de dezembro, 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)

2022

Zona de Abastecimento: Sande e Penhalonga

Parâmetro	Valor Paramétrico (VP)	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	N.º de análises PCQA	N.º Análises no trimestre		% Análises Realizadas
		Mínimo	Máximo				Previstas	Realizadas	
<i>Escherichia coli</i> (<i>E. Coli</i>) (UFC/100 ml)	0	0	0	0	100%	12	3	3	100%
Bactérias coliformes (UFC/100 ml)	0	0	0	0	100%	12	3	3	100%
Desinfetante residual (mg/l)	---	0.30	0.53	---	---	12	3	3	100%
Cheiro a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	4	1	1	100%
Sabor a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	4	1	1	100%
pH (Unidades pH)	≥6,5 e ≤9,5	6.9	6.9	0	100%	4	1	1	100%
Condutividade a 20 °C (µS/cm)	2500	62.8	62.8	0	100%	4	1	1	100%
Cor (mg/l PtCo)	20	< 3.0	< 3.0	0	100%	4	1	1	100%
Turvação (NTU)	4	< 1.0	< 1.0	0	100%	4	1	1	100%
Enterococos (UFC/100 ml)	0	0	0	0	100%	4	1	1	100%
Número de colónias a 22 °C (N/ml)	---	0	0	---	---	4	1	1	100%
Número de colónias a 37 °C (N/ml)	---	0	0	---	---	4	1	1	100%
Arsénio (µg/l As)	10	8.1	8.1	0	100%	4	1	1	100%
<i>Clostridium perfringens</i> (N/100 ml)	0	---	---	---	---	1	0	0	---
Alumínio (µg/L Al)	200	---	---	---	---	1	0	0	---
Amónio (mg/l NH ₄)	0.50	---	---	---	---	1	0	0	---
Antimónio (µg/l Sb)	5.0	---	---	---	---	1	0	0	---
Benzeno (µg/l)	1.0	---	---	---	---	1	0	0	---
Benzo(a)pireno (µg/l)	0.010	---	---	---	---	1	0	0	---
Boro (mg/l B)	1.0	---	---	---	---	1	0	0	---
Bromatos (µg/l BrO ₃)	10	---	---	---	---	1	0	0	---
Cádmio (µg/l Cd)	5.0	---	---	---	---	1	0	0	---
Cálcio (mg/l Ca)	---	---	---	---	---	1	0	0	---
Cianetos (µg/l CN)	50	---	---	---	---	1	0	0	---
Cloretos (mg/l Cl)	250	---	---	---	---	1	0	0	---
Chumbo (µg/l Pb)	10	---	---	---	---	1	0	0	---
Cobre (mg/l Cu)	2	---	---	---	---	1	0	0	---
Crómio (µg/l Cr)	50	---	---	---	---	1	0	0	---
1,2 - dicloroetano (µg/l)	3.0	---	---	---	---	1	0	0	---
Dureza total (mg/l CaCO ₃)	---	---	---	---	---	1	0	0	---
Ferro (µg/l Fe)	200	---	---	---	---	1	0	0	---
Fluoretos (mg/l F)	1.5	---	---	---	---	1	0	0	---
Hidrocarbonetos Aromáticos Policíclicos (HAP) (µg/l)	0.10	---	---	---	---	1	0	0	---
Benzo(b)fluoranteno (µg/l)	---	---	---	---	---	1	0	0	---
Benzo(k)fluoranteno (µg/l)	---	---	---	---	---	1	0	0	---
Benzo(ghi)perileno (µg/l)	---	---	---	---	---	1	0	0	---
Indeno(1,2,3-cd)pireno (µg/l)	---	---	---	---	---	1	0	0	---
Magnésio (mg/l Mg)	---	---	---	---	---	1	0	0	---
Manganês (µg/l Mn)	50	---	---	---	---	1	0	0	---
Nitratos (mg/l NO ₃)	50	---	---	---	---	1	0	0	---
Nitritos (mg/l NO ₂)	0.50	---	---	---	---	1	0	0	---
Merúrio (µg/l Hg)	1.0	---	---	---	---	1	0	0	---
Níquel (µg/l Ni)	20	---	---	---	---	1	0	0	---
Oxidabilidade (mg/l O ₂)	5.0	---	---	---	---	1	0	0	---
Selénio (µg/l Se)	10	---	---	---	---	1	0	0	---
Sódio (mg/l Na)	200	---	---	---	---	1	0	0	---
Sulfatos (mg/l SO ₄)	250	---	---	---	---	1	0	0	---
Tetracloroetano e Tricloroetano (µg/l)	10	---	---	---	---	1	0	0	---
Tetracloroetano (µg/l)	---	---	---	---	---	1	0	0	---
Tricloroetano (µg/l)	---	---	---	---	---	1	0	0	---
Trihalometanos - total (THM) (µg/l)	100	---	---	---	---	1	0	0	---
Clorofórmio (µg/l)	---	---	---	---	---	1	0	0	---
Bromofórmio (µg/l)	---	---	---	---	---	1	0	0	---
Bromodictlorometano (µg/l)	---	---	---	---	---	1	0	0	---
Dibromoclorometano (µg/l)	---	---	---	---	---	1	0	0	---
Pesticidas - total (µg/l)	0.50	---	---	---	---	1	0	0	---
Bentazona (µg/l)	0.10	---	---	---	---	1	0	0	---
Clorpirifos (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilterbutilazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Dimetoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Diurão (µg/l)	0.10	---	---	---	---	1	0	0	---
MCPA (µg/l)	0.10	---	---	---	---	1	0	0	---
Metolaclo (µg/l)	0.10	---	---	---	---	1	0	0	---
Terbutilazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Ometoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Imidaclopride (µg/l)	0.10	---	---	---	---	1	0	0	---
Simazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilsimazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Alfa total (Bq/l)	0.10	---	---	---	---	1	0	0	---
Dose indicativa (mSv)	0.10	---	---	---	---	1	0	0	---
Radão (Bq/l)	500	---	---	---	---	1	0	0	---

Informação complementar relativa à averiguação das situações de incumprimento dos VP: Não foram registados incumprimentos dos VP neste trimestre para esta Zona de Abastecimento.

Responsável: Daniel Cardoso

Data da publicação:

22/02/2023



Dados do Controlo da Qualidade da Água para Consumo Humano no Concelho de Marco de Canaveses

4º TRIMESTRE

Em conformidade com o Decreto-Lei n.º 152/2017, de 7 de dezembro, 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)

2022

Zona de Abastecimento: Soalhões

Parâmetro	Valor Paramétrico (VP)	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	Nº de análises PCQA	N.º Análises no trimestre		% Análises Realizadas
		Mínimo	Máximo				Previstas	Realizadas	
<i>Escherichia coli</i> (<i>E. Coli</i>) (UFC/100 ml)	0	0	0	0	100%	12	3	3	100%
Bactérias coliformes (UFC/100 ml)	0	0	0	0	100%	12	3	3	100%
Desinfetante residual (mg/l)	---	0.54	0.8	---	---	12	3	3	100%
Cheiro a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	4	1	1	100%
Sabor a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	4	1	1	100%
pH (Unidades pH)	≥6,5 e ≤9,5	7.0	7.0	0	100%	4	1	1	100%
Condutividade a 20 °C (µS/cm)	2500	88.2	88.2	0	100%	4	1	1	100%
Cor (mg/l PtCo)	20	< 3.0	< 3.0	0	100%	4	1	1	100%
Turvação (NTU)	4	< 1.0	< 1.0	0	100%	4	1	1	100%
Enterococos (UFC/100 ml)	0	0	0	0	100%	4	1	1	100%
Número de colónias a 22 °C (N/ml)	---	0	0	---	---	4	1	1	100%
Número de colónias a 37 °C (N/ml)	---	0	0	---	---	4	1	1	100%
<i>Clostridium perfringens</i> (N/100 ml)	0	---	---	---	---	1	0	0	---
Alumínio (µg/L Al)	200	---	---	---	---	1	0	0	---
Amónio (mg/l NH ₄)	0.50	---	---	---	---	1	0	0	---
Antimónio (µg/l Sb)	5.0	---	---	---	---	1	0	0	---
Arsénio (µg/l As)	10	---	---	---	---	1	0	0	---
Benzeno (µg/l)	1.0	---	---	---	---	1	0	0	---
Benzo(a)pireno (µg/l)	0.010	---	---	---	---	1	0	0	---
Boro (mg/l B)	1.0	---	---	---	---	1	0	0	---
Bromatos (µg/l BrO ₃)	10	---	---	---	---	1	0	0	---
Cádmio (µg/l Cd)	5.0	---	---	---	---	1	0	0	---
Cálcio (mg/l Ca)	---	---	---	---	---	1	0	0	---
Cianetos (µg/l CN)	50	---	---	---	---	1	0	0	---
Cloretos (mg/l Cl)	250	---	---	---	---	1	0	0	---
Chumbo (µg/l Pb)	10	---	---	---	---	1	0	0	---
Cobre (mg/l Cu)	2.0	---	---	---	---	1	0	0	---
Crómio (µg/l Cr)	50	---	---	---	---	1	0	0	---
1,2 - dicloroetano (µg/l)	3.0	---	---	---	---	1	0	0	---
Dureza total (mg/l CaCO ₃)	---	---	---	---	---	1	0	0	---
Ferro (µg/l Fe)	200	---	---	---	---	1	0	0	---
Fluoretos (mg/l F)	1.5	---	---	---	---	1	0	0	---
Hydrocarbonetos Aromáticos Policíclicos (HAP) (µg/l)	0.10	---	---	---	---	1	0	0	---
Benzo(b)fluoranteno (µg/l)	---	---	---	---	---	1	0	0	---
Benzo(k)fluoranteno (µg/l)	---	---	---	---	---	1	0	0	---
Benzo(ghi)perileno (µg/l)	---	---	---	---	---	1	0	0	---
Indeno(1,2,3-cd)pireno (µg/l)	---	---	---	---	---	1	0	0	---
Magnésio (mg/l Mg)	---	---	---	---	---	1	0	0	---
Manganês (µg/l Mn)	50	---	---	---	---	1	0	0	---
Nitratos (mg/l NO ₃)	50	---	---	---	---	1	0	0	---
Nitritos (mg/l NO ₂)	0.50	---	---	---	---	1	0	0	---
Mercúrio (µg/l Hg)	1.0	---	---	---	---	1	0	0	---
Níquel (µg/l Ni)	20	---	---	---	---	1	0	0	---
Oxidabilidade (mg/l O ₂)	5.0	---	---	---	---	1	0	0	---
Selénio (µg/l Se)	10	---	---	---	---	1	0	0	---
Sódio (mg/l Na)	200	---	---	---	---	1	0	0	---
Sulfatos (mg/l SO ₄)	250	---	---	---	---	1	0	0	---
Tetracloroetano e Tricloroetano (µg/l)	10	---	---	---	---	1	0	0	---
Tetracloroetano (µg/l)	---	---	---	---	---	1	0	0	---
Tricloroetano (µg/l)	---	---	---	---	---	1	0	0	---
Trihalometanos - total (THM) (µg/l)	100	---	---	---	---	1	0	0	---
Clorofórmio (µg/l)	---	---	---	---	---	1	0	0	---
Bromofórmio (µg/l)	---	---	---	---	---	1	0	0	---
Bromodichlorometano (µg/l)	---	---	---	---	---	1	0	0	---
Dibromoclorometano (µg/l)	---	---	---	---	---	1	0	0	---
Pesticidas - total (µg/l)	0.50	---	---	---	---	1	0	0	---
Bentazona (µg/l)	0.10	---	---	---	---	1	0	0	---
Clorpirifos (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilterbutilazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Dimetoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Diurão (µg/l)	0.10	---	---	---	---	1	0	0	---
MCPA (µg/l)	0.10	---	---	---	---	1	0	0	---
Metolaclo (µg/l)	0.10	---	---	---	---	1	0	0	---
Terbutilazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Ometoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Imidaclopride (µg/l)	0.10	---	---	---	---	1	0	0	---
Simazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilsimazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Alfa total (Bq/l)	0.10	---	---	---	---	1	0	0	---
Dose indicativa (mSv)	0.10	---	---	---	---	1	0	0	---
Radão (Bq/l)	500	---	---	---	---	1	0	0	---

Informação complementar relativa à averiguação das situações de incumprimento dos VP: Não foram registados incumprimentos dos VP neste trimestre para esta Zona de Abastecimento.

Responsável: Daniel Cardoso

Data da publicação: 22/02/2023



Dados do Controlo da Qualidade da Água para Consumo Humano no Concelho de Marco de Canaveses

4º TRIMESTRE

Em conformidade com o Decreto-Lei n.º 152/2017, de 7 de dezembro, 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)

2022

Zona de Abastecimento: Tâmega

Parâmetro	Valor Paramétrico (VP)	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	Nº de análises PCQA	N.º Análises no trimestre		% Análises Realizadas
		Mínimo	Máximo				Previstas	Realizadas	
<i>Escherichia coli</i> (<i>E. Coli</i>) (UFC/100 ml)	0	0	0	0	100%	48	12	12	100%
Bactérias coliformes (UFC/100 ml)	0	0	0	0	100%	48	12	12	100%
Desinfetante residual (mg/l)	---	< 0.16	0.6	---	---	48	12	12	100%
Alumínio (µg/L Al)	200	41.8	165	0	100%	13	3	3	100%
Cheiro a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	13	3	3	100%
Sabor a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	13	3	3	100%
pH (Unidades pH)	≥6,5 e ≤9,5	7.1	7.5	0	100%	13	3	3	100%
Condutividade a 20 °C (µS/cm)	2500	101	183	0	100%	13	3	3	100%
Cor (mg/l PtCo)	20	< 3.0	3.5	0	100%	13	3	3	100%
Turvação (NTU)	4	< 1.0	< 1.0	0	100%	13	3	3	100%
Enterococos (UFC/100 ml)	0	0	0	0	100%	13	3	3	100%
Número de colónias a 22 °C (N/ml)	---	0	7	---	---	13	3	3	100%
Número de colónias a 37 °C (N/ml)	---	0	120	---	---	13	3	3	100%
<i>Clostridium perfringens</i> (N/100 ml)	0	0	0	0	100%	13	3	3	100%
Amónio (mg/l NH ₄)	0.50	---	---	---	---	2	0	0	---
Antimónio (µg/l Sb)	5.0	---	---	---	---	2	0	0	---
Arsénio (µg/l As)	10	---	---	---	---	2	0	0	---
Benzeno (µg/l)	1.0	---	---	---	---	2	0	0	---
Benzo(a)pireno (µg/l)	0.010	---	---	---	---	2	0	0	---
Boro (mg/l B)	1.0	---	---	---	---	2	0	0	---
Bromatos (µg/l BrO ₃)	10	---	---	---	---	2	0	0	---
Cádmio (µg/l Cd)	5.0	---	---	---	---	2	0	0	---
Cálcio (mg/l Ca)	---	---	---	---	---	2	0	0	---
Cianetos (µg/l CN)	50	---	---	---	---	2	0	0	---
Cloretos (mg/l Cl)	250	---	---	---	---	2	0	0	---
Cloritos (mg/l ClO ₂)	0.7	---	---	---	---	2	0	0	---
Cloratos (mg/l ClO ₃)	0.7	---	---	---	---	2	0	0	---
Chumbo (µg/l Pb)	10	---	---	---	---	2	0	0	---
Cobre (mg/l Cu)	2.0	---	---	---	---	2	0	0	---
Crómio (µg/l Cr)	50	---	---	---	---	2	0	0	---
1,2 - dicloroetano (µg/l)	3.0	---	---	---	---	2	0	0	---
Dureza total (mg/l CaCO ₃)	---	---	---	---	---	2	0	0	---
Ferro (µg/l Fe)	200	---	---	---	---	2	0	0	---
Fluoretos (mg/l F)	1.5	---	---	---	---	2	0	0	---
Hidrocarbonetos Aromáticos Policíclicos (HAP) (µg/l)	0.10	---	---	---	---	2	0	0	---
Benzo(b)fluoranteno (µg/l)	---	---	---	---	---	2	0	0	---
Benzo(k)fluoranteno (µg/l)	---	---	---	---	---	2	0	0	---
Benzo(ghi)perileno (µg/l)	---	---	---	---	---	2	0	0	---
Indeno(1,2,3-cd)pireno (µg/l)	---	---	---	---	---	2	0	0	---
Magnésio (mg/l Mg)	---	---	---	---	---	2	0	0	---
Manganês (µg/l Mn)	50	---	---	---	---	2	0	0	---
Nitratos (mg/l NO ₃)	50	---	---	---	---	2	0	0	---
Nitritos (mg/l NO ₂)	0.50	---	---	---	---	2	0	0	---
Mercúrio (µg/l Hg)	1.0	---	---	---	---	2	0	0	---
Níquel (µg/l Ni)	20	---	---	---	---	2	0	0	---
Oxidabilidade (mg/l O ₂)	5.0	---	---	---	---	2	0	0	---
Selénio (µg/l Se)	10	---	---	---	---	2	0	0	---
Sódio (mg/l Na)	200	---	---	---	---	2	0	0	---
Sulfatos (mg/l SO ₄)	250	---	---	---	---	2	0	0	---
Tetracloroetano e Tricloroetano (µg/l)	10	---	---	---	---	2	0	0	---
Tetracloroetano (µg/l)	---	---	---	---	---	2	0	0	---
Tricloroetano (µg/l)	---	---	---	---	---	2	0	0	---
Trihalometanos - total (THM) (µg/l)	100	---	---	---	---	2	0	0	---
Clorofórmio (µg/l)	---	---	---	---	---	2	0	0	---
Bromofórmio (µg/l)	---	---	---	---	---	2	0	0	---
Bromodichlorometano (µg/l)	---	---	---	---	---	2	0	0	---
Dibromoclorometano (µg/l)	---	---	---	---	---	2	0	0	---
Pesticidas - total (µg/l)	0.50	---	---	---	---	2	0	0	---
Bentazona (µg/l)	0.10	---	---	---	---	2	0	0	---
Clorpirifos (µg/l)	0.10	---	---	---	---	2	0	0	---
Desetilterbutilazina (µg/l)	0.10	---	---	---	---	2	0	0	---
Dimetoato (µg/l)	0.10	---	---	---	---	2	0	0	---
Diurão (µg/l)	0.10	---	---	---	---	2	0	0	---
MCPA (µg/l)	0.10	---	---	---	---	2	0	0	---
Metolaclo (µg/l)	0.10	---	---	---	---	2	0	0	---
Terbutilazina (µg/l)	0.10	---	---	---	---	2	0	0	---
Ometoato (µg/l)	0.10	---	---	---	---	2	0	0	---
Imidaclopride (µg/l)	0.10	---	---	---	---	2	0	0	---
Simazina (µg/l)	0.10	---	---	---	---	2	0	0	---
Desetilsimazina (µg/l)	0.10	---	---	---	---	2	0	0	---
Alfa total (Bq/l)	0.10	---	---	---	---	2	0	0	---
Dose indicativa (mSv)	0.10	---	---	---	---	2	0	0	---

Informação complementar relativa à averiguação das situações de incumprimento dos VP: Não foram registados incumprimentos dos VP neste trimestre para esta Zona de Abastecimento.

Responsável: Daniel Cardoso

Data da publicação: 22/02/2023



Dados do Controlo da Qualidade da Água para Consumo Humano no Concelho de Marco de Canaveses

4º TRIMESTRE

Em conformidade com o Decreto-Lei n.º 152/2017, de 7 de dezembro, 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)

2022

Zona de Abastecimento: Feiteira

Parâmetro	Valor Paramétrico (VP)	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	Nº de análises PCQA	N.º Análises no trimestre		% Análises Realizadas
		Mínimo	Máximo				Previstas	Realizadas	
<i>Escherichia coli</i> (<i>E. Coli</i>) (UFC/100 ml)	0	0	0	0	100%	6	2	2	100%
Bactérias coliformes (UFC/100 ml)	0	0	0	0	100%	6	2	2	100%
Desinfetante residual (mg/l)	---	0.86	1.1	---	---	6	2	2	100%
Cheiro a 25 °C (Fator de diluição)	3	---	---	---	---	2	0	0	---
Sabor a 25 °C (Fator de diluição)	3	---	---	---	---	2	0	0	---
pH (Unidades pH)	≥6,5 e ≤9,5	---	---	---	---	2	0	0	---
Condutividade a 20 °C (µS/cm)	2500	---	---	---	---	2	0	0	---
Cor (mg/l PtCo)	20	---	---	---	---	2	0	0	---
Turvação (NTU)	4	---	---	---	---	2	0	0	---
Enterococos (UFC/100 ml)	0	---	---	---	---	2	0	0	---
Número de colónias a 22 °C (N/ml)	---	---	---	---	---	2	0	0	---
Número de colónias a 37 °C (N/ml)	---	---	---	---	---	2	0	0	---
Manganês (µg/l Mn)	50	---	---	---	---	2	0	0	---
<i>Clostridium perfringens</i> (N/100 ml)	0	---	---	---	---	1	0	0	---
Alumínio (µg/L Al)	200	---	---	---	---	1	0	0	---
Amónio (mg/l NH ₄)	0.50	---	---	---	---	1	0	0	---
Antimónio (µg/l Sb)	5.0	---	---	---	---	1	0	0	---
Arsénio (µg/l As)	10	---	---	---	---	1	0	0	---
Benzeno (µg/l)	1.0	---	---	---	---	1	0	0	---
Benzo(a)pireno (µg/l)	0.010	---	---	---	---	1	0	0	---
Boro (mg/l B)	1.0	---	---	---	---	1	0	0	---
Bromatos (µg/l BrO ₃)	10	---	---	---	---	1	0	0	---
Cádmio (µg/l Cd)	5.0	---	---	---	---	1	0	0	---
Cálcio (mg/l Ca)	---	---	---	---	---	1	0	0	---
Cianetos (µg/l CN)	50	---	---	---	---	1	0	0	---
Cloretos (mg/l Cl)	250	---	---	---	---	1	0	0	---
Chumbo (µg/l Pb)	10	---	---	---	---	1	0	0	---
Cobre (mg/l Cu)	2.0	---	---	---	---	1	0	0	---
Crómio (µg/l Cr)	50	---	---	---	---	1	0	0	---
1,2 - dicloroetano (µg/l)	3.0	---	---	---	---	1	0	0	---
Dureza total (mg/l CaCO ₃)	---	---	---	---	---	1	0	0	---
Ferro (µg/l Fe)	200	---	---	---	---	1	0	0	---
Fluoretos (mg/l F)	1.5	---	---	---	---	1	0	0	---
Hidrocarbonetos Aromáticos Policíclicos (HAP) (µg/l)	0.10	---	---	---	---	1	0	0	---
Benzo(b)fluoranteno (µg/l)	---	---	---	---	---	1	0	0	---
Benzo(k)fluoranteno (µg/l)	---	---	---	---	---	1	0	0	---
Benzo(ghi)perileno (µg/l)	---	---	---	---	---	1	0	0	---
Indeno(1,2,3-cd)pireno (µg/l)	---	---	---	---	---	1	0	0	---
Magnésio (mg/l Mg)	---	---	---	---	---	1	0	0	---
Nitratos (mg/l NO ₃)	50	---	---	---	---	1	0	0	---
Nitritos (mg/l NO ₂)	0.50	---	---	---	---	1	0	0	---
Merúrio (µg/l Hg)	1.0	---	---	---	---	1	0	0	---
Níquel (µg/l Ni)	20	---	---	---	---	1	0	0	---
Oxidabilidade (mg/l O ₂)	5.0	---	---	---	---	1	0	0	---
Selénio (µg/l Se)	10	---	---	---	---	1	0	0	---
Sódio (mg/l Na)	200	---	---	---	---	1	0	0	---
Sulfatos (mg/l SO ₄)	250	---	---	---	---	1	0	0	---
Tetracloroetano e Tricloroetano (µg/l)	10	---	---	---	---	1	0	0	---
Tetracloroetano (µg/l)	---	---	---	---	---	1	0	0	---
Tricloroetano (µg/l)	---	---	---	---	---	1	0	0	---
Trihalometanos - total (THM) (µg/l)	100	---	---	---	---	1	0	0	---
Clorofórmio (µg/l)	---	---	---	---	---	1	0	0	---
Bromofórmio (µg/l)	---	---	---	---	---	1	0	0	---
Bromodichlorometano (µg/l)	---	---	---	---	---	1	0	0	---
Dibromoclorometano (µg/l)	---	---	---	---	---	1	0	0	---
Pesticidas - total (µg/l)	0.50	---	---	---	---	1	0	0	---
Bentazona (µg/l)	0.10	---	---	---	---	1	0	0	---
Clorpirifos (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilterbutilazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Dimetoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Diurão (µg/l)	0.10	---	---	---	---	1	0	0	---
MCPA (µg/l)	0.10	---	---	---	---	1	0	0	---
Metolacoloro (µg/l)	0.10	---	---	---	---	1	0	0	---
Terbutilazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Ometoato (µg/l)	0.10	---	---	---	---	1	0	0	---
0.094 (µg/l)	0.10	---	---	---	---	1	0	0	---
Simazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetilsimazina (µg/l)	0.10	---	---	---	---	1	0	0	---
Alfa total (Bq/l)	0.10	---	---	---	---	1	0	0	---
Dose indicativa (mSv)	0.10	---	---	---	---	1	0	0	---
Radão(Bq/l)	500	---	---	---	---	1	0	0	---

Informação complementar relativa à averiguação das situações de incumprimento dos VP: Não foram registados incumprimentos dos VP neste trimestre para esta Zona de Abastecimento.

Responsável: Daniel Cardoso

Data da publicação: 22/02/2023



**Dados do Controlo da Qualidade da Água para Consumo Humano
no Concelho de Marco de Canaveses**

4º TRIMESTRE

Em conformidade com o Decreto-Lei n.º 152/2017, de 7 de dezembro, 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)

2022

Zona de Abastecimento: Vila Boa de Quires

Parâmetro	Valor Paramétrico (VP)	Valores obtidos		N.º Análises superiores VP	% Cumprimento do VP	Nº de análises PCQA	N.º Análises no trimestre		% Análises Realizadas
		Mínimo	Máximo				Previstas	Realizadas	
<i>Escherichia coli</i> (<i>E. Coli</i>) (UFC/100 ml)	0	0	0	0	100%	6	2	2	100%
Bactérias coliformes (UFC/100 ml)	0	0	0	0	100%	6	2	2	100%
Desinfetante residual (mg/l)	---	< 0.16	< 0.16	---	---	6	2	2	100%
Alumínio (µg/L Al)	200	24.8	24.8	0	100%	2	1	1	100%
Cheiro a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	2	1	1	100%
Sabor a 25 °C (Fator de diluição)	3	< 1	< 1	0	100%	2	1	1	100%
pH (Unidades pH)	≥6,5 e ≤9,5	6.5	6.5	0	100%	2	1	1	100%
Condutividade a 20 °C (µS/cm)	2500	271	271	0	100%	2	1	1	100%
Cor (mg/l PtCo)	20	< 3.0	< 3.0	0	100%	2	1	1	100%
Turvação (NTU)	4	< 1.0	< 1.0	0	100%	2	1	1	100%
Enterococos (UFC/100 ml)	0	0	0	0	100%	2	1	1	100%
Número de colónias a 22 °C (N/ml)	---	27	27	---	---	2	1	1	100%
Número de colónias a 37 °C (N/ml)	---	0	0	---	---	2	1	1	100%
Ferro (µg/l Fe)	200	---	---	---	---	2	1	1	100%
Manganês (µg/l Mn)	50	4.00	4.00	0	100%	2	1	1	100%
Nitratos (mg/l NO ₃)	50	< 1.0	< 1.0	0	100%	2	1	1	100%
<i>Clostridium perfringens</i> (N/100 ml)	0	0	0	0	100%	2	1	1	100%
Amónio (mg/l NH ₄)	0.5	< 0.05	< 0.05	0	100%	1	1	1	100%
Antimónio (µg/l Sb)	5.0	< 1.0	< 1.0	0	100%	1	1	1	100%
Arsénio (µg/l As)	10	< 3.0	< 3.0	0	100%	1	1	1	100%
Benzeno (µg/l)	1.0	< 0.20	< 0.20	0	100%	1	1	1	100%
Benzo(a)pireno (µg/l)	0.010	< 0.0030	< 0.0030	0	100%	1	1	1	100%
Boro (mg/l B)	1.0	0.036	0.036	0	100%	1	1	1	100%
Bromatos (µg/l BrO ₃)	10	< 5.0	< 5.0	0	100%	1	1	1	100%
Cádmio (µg/l Cd)	5.0	< 0.08	< 0.08	0	100%	1	1	1	100%
Cálcio (mg/l Ca)	---	9.5	9.5	---	---	1	1	1	100%
Cianetos (µg/l CN)	50	< 10	< 10	0	100%	1	1	1	100%
Cloretos (mg/l Cl)	250	52.1	52.1	0	100%	1	1	1	100%
Cloritos (mg/l ClO ₂)	0.7	< 0.02	< 0.02	0	100%	1	1	1	100%
Cloratos (mg/l ClO ₃)	0.7	0.36	0.36	0	100%	1	1	1	100%
Chumbo (µg/l Pb)	10	< 1.0	< 1.0	0	100%	1	1	1	100%
Cobre (mg/l Cu)	2.0	0.0068	0.0068	0	100%	1	1	1	100%
Crómio (µg/l Cr)	50	< 3.0	< 3.0	0	100%	1	1	1	100%
1,2 - dicloroetano (µg/l)	3.0	< 0.750	< 0.750	0	100%	1	1	1	100%
Dureza total (mg/l CaCO ₃)	---	40.7	40.7	---	---	1	1	1	100%
Fluoretos (mg/l F)	1.5000	< 0.20	< 0.20	0	100%	1	1	1	100%
Hidrocarbonetos Aromáticos Policíclicos (HAP) (µg/l)	0.10	< 0.0200	< 0.0200	0	100%	1	1	1	100%
Benzo(b)fluoranteno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Benzo(k)fluoranteno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Benzo(ghi)perileno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Indeno(1,2,3-cd)pireno (µg/l)	---	< 0.0200	< 0.0200	---	---	1	1	1	100%
Magnésio (mg/l Mg)	---	2.9	2.9	---	---	1	1	1	100%
Nitritos (mg/l NO ₂)	0.50	< 0.10	< 0.10	0	100%	1	1	1	100%
Mercúrio (µg/l Hg)	1.0	< 0.010	< 0.010	0	100%	1	1	1	100%
Níquel (µg/l Ni)	20	< 2.0	< 2.0	0	100%	1	1	1	100%
Oxidabilidade (mg/l O ₂)	5.0	2.7	2.7	0	100%	1	1	1	100%
Selénio (µg/l Se)	10	< 2.0	< 2.0	0	100%	1	1	1	100%
Sódio (mg/l Na)	200	18.8	18.8	0	100%	1	1	1	100%
Sulfatos (mg/l SO ₄)	250	< 10.0	< 10.0	0	100%	1	1	1	100%
Tetracloroetano e Tricloroetano (µg/l)	10	< 0.30	< 0.30	0	100%	1	1	1	100%
Tetracloroetano (µg/l)	---	< 0.20	< 0.20	---	---	1	1	1	100%
Tricloroetano (µg/l)	---	< 0.10	< 0.10	---	---	1	1	1	100%
Trihalometanos - total (THM) (µg/l)	100	5.01	5.01	0	100%	1	1	1	100%
Clorofórmio (µg/l)	---	0.92	0.92	---	---	1	1	1	100%
Bromofórmio (µg/l)	---	1.16	1.16	---	---	1	1	1	100%
Bromodihalometano (µg/l)	---	1.24	1.24	---	---	1	1	1	100%
Dibromodihalometano (µg/l)	---	1.69	1.69	---	---	1	1	1	100%
Pesticidas - total (µg/l)	0.50	< 0.10	< 0.10	0	100%	1	1	1	100%
Bentazona (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Clorpirifos (µg/l)	0.10	---	---	---	---	1	0	0	---
Desetiltterbutilazina (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Dimetoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Diurão (µg/l)	0.10	---	---	---	---	1	0	0	---
MCPA (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Metolacoloro (µg/l)	0.10	---	---	---	---	1	0	0	---
Terbutilazina (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Ometoato (µg/l)	0.10	---	---	---	---	1	0	0	---
Imidaclopride (µg/l)	0.10	---	---	---	---	1	0	0	---
Simazina (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Desetilsimazina (µg/l)	0.10	< 0.030	< 0.030	0	100%	1	1	1	100%
Alfa total (Bq/l) ⁽¹⁾	0.10	0.15	0.15	1	0%	1	1	1	100%
Dose indicativa (mSv)	0.10	< 0.1	< 0.1	0	100%	1	1	1	100%
Radão(Bq/l)	500	91.6	91.6	0	100%	1	1	1	100%

Informação complementar relativa à averiguação das situações de incumprimento dos VP: ⁽¹⁾ alfa total: Desvio no valor de verificação devido às características naturais (hidrogeológicas) da origem de água. Não foram tomadas medidas porque se concluiu que a dose indicativa é inferior a 0,10 mSv. Resultado da pesquisa de radionucléidos: Urânio 234 = 0.03 Bq/l, Urânio 238 = 0.02 Bq/l, Rádio 226 < 0.02 Bq/l, Polónio 210 = 0.08 Bq/l. Cálculo da Dose Indicativa = 0.82 adimensional.

Responsável: Daniel Cardoso

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