

# BOLETIM TRIMESTRAL DOS SUBSISTEMAS DE ÁGUA DO SUL DO CONCELHO DE PAREDES

## QUALIDADE + NOSSA ÁGUA

### MAPA DE DIVULGAÇÃO DOS RESULTADOS DO CONTROLO DA QUALIDADE DA ÁGUA PARA CONSUMO HUMANO NA ZONA DE ABASTECIMENTO DE GUARDÃO, GANDRA

Terceiro trimestre 2023:  
de 1 de Julho a 30 Setembro

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, segundo o Programa de Controlo da Qualidade da Água (PCQA) aprovado pela autoridade competente, a Entidade Reguladora dos Serviços de Águas e Resíduos (ERSAR).

| Parâmetro (unidades)                            | Valor Paramétrico (VP) fixado no DL 306/2007 | Valores Obtidos |        | N.º Análises superiores VP | % Cumprimento do VP | N.º Análises (PCQA) |            | % Análises realizadas |
|-------------------------------------------------|----------------------------------------------|-----------------|--------|----------------------------|---------------------|---------------------|------------|-----------------------|
|                                                 |                                              | Mínimo          | Máximo |                            |                     | Agendadas           | Realizadas |                       |
| Escherichia coli (N/100 ml)                     | 0                                            | 0               | 0      | 0                          | 100%                | 3                   | 3          | 100%                  |
| Bactérias coliformes (N/100 ml)                 | 0                                            | 0               | 0      | 0                          | 100%                | 3                   | 3          | 100%                  |
| Desinfetante residual (mg/L)                    | ---                                          | 0,62            | 1,27   | 0                          | ---                 | 3                   | 3          | 100%                  |
| Alumínio (µg/L Al)                              | 200                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Cheiro a 25°C (Fator de diluição)               | 3                                            | <1              | <1     | 0                          | 100%                | 1                   | 1          | 100%                  |
| Clostridium perfringens (N/100ml)               | 0                                            | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Condutividade (µS/cm a 20°C)                    | 2500                                         | 152             | 152    | 0                          | 100%                | 1                   | 1          | 100%                  |
| Cor (mg/L PtCo)                                 | 20                                           | <5,0            | <5,0   | 0                          | 100%                | 1                   | 1          | 100%                  |
| Enterococos (N/100 mL)                          | 0                                            | 0               | 0      | 0                          | 100%                | 1                   | 1          | 100%                  |
| Ferro (µg/L Fe)                                 | 200                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Manganês (µg/L Mn)                              | 50                                           | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Número de colónias a 22 °C (N/ml)               | Sem alteração anormal                        | 0               | 0      | 0                          | 100%                | 1                   | 1          | 100%                  |
| Número de colónias a 37 °C (N/ml)               | Sem alteração anormal                        | 0               | 0      | 0                          | 100%                | 1                   | 1          | 100%                  |
| pH (Unidades pH)                                | ≥6,5 e ≤9,5                                  | 7,1             | 7,1    | 0                          | 100%                | 1                   | 1          | 100%                  |
| Sabor a 25°C (Fator de diluição)                | 3,0                                          | <1              | <1     | 0                          | 100%                | 1                   | 1          | 100%                  |
| Turvação (NTU)                                  | 4,0                                          | 0,20            | 0,20   | 0                          | 100%                | 1                   | 1          | 100%                  |
| 1,2 - dicloroetano (µg/L) <sup>(1)</sup>        | 3,0                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Amónio (mg/L NH4)                               | 0,5                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Antimónio (µg/L Sb) <sup>(1)</sup>              | 5,0                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Arsénio (µg/L As) <sup>(1)</sup>                | 10,0                                         | 3,15            | 3,15   | 0                          | 100%                | 1                   | 1          | 100%                  |
| Benzeno (µg/L) <sup>(1)</sup>                   | 1,0                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Benzo(a)pireno (µg/L)                           | 0,010                                        | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Boro (mg/L B) <sup>(1)</sup>                    | 1,0                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Bromatos (µg/L BrO3) <sup>(1)</sup>             | 10,0                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Cádmio (µg/L Cd) <sup>(1)</sup>                 | 5,0                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Cálcio (mg/L Ca) <sup>(1)</sup>                 | ---                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Chumbo (µg/L Pb)                                | 10,0                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Cianetos (µg/L CN) <sup>(1)</sup>               | 50,0                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Cloretos (mg/L Cl) <sup>(1)</sup>               | 250,0                                        | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Cobre (mg/L Cu)                                 | 2,0                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Crómio (µg/L Cr)                                | 50,0                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Dureza total (mg/L CaCO3)                       | ---                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Fluoretos (mg/L F) <sup>(1)</sup>               | 1,5                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Magnésio (mg/L Mg)                              | ---                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Mercurio (µg/L Hg) <sup>(1)</sup>               | 1,0                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Níquel (µg/L Ni)                                | 20,0                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Nitratos (mg/L NO3) <sup>(1)</sup>              | 50,0                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Nitritos (mg/L NO2)                             | 0,5                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Oxidabilidade (mg/L O2)                         | 5,0                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Selénio (µg/L Se) <sup>(1)</sup>                | 10,0                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Sódio (mg/L Na) <sup>(1)</sup>                  | 200,0                                        | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Sulfatos (mg/L SO4) <sup>(1)</sup>              | 250,0                                        | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Tetracloroetano e Tricloroetano (µg/L):         | 10,0                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Tetracloroetano(µg/L) <sup>(1)</sup>            | ---                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Tricloroetano(µg/L) <sup>(1)</sup>              | ---                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Hidrocarbonetos Aromáticos Policíclicos (µg/L): | 0,1                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Benzo(b)fluoranteno (µg/L)                      | ---                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Benzo(k)fluoranteno (µg/L)                      | ---                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Benzo(ghi)perileno (µg/L)                       | ---                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Indeno(1,2,3-cd)pireno(µg/L)                    | ---                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Trihalometanos - total (µg/L):                  | 100                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Clorofórmio(µg/L)                               | ---                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Bromofórmio(µg/L)                               | ---                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Bromodichlorometano(µg/L)                       | ---                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Dibromoclorometano(µg/L)                        | ---                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Pesticidas - total (µg/L) <sup>(1)</sup>        | 0,50                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Bentazona (µg/L) <sup>(1)</sup>                 | 0,10                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Clorpirifos (µg/L) <sup>(1)</sup>               | 0,10                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Desetilsimazina (µg/L) <sup>(1)</sup>           | 0,10                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Desetilterbutilazina (µg/L) <sup>(1)</sup>      | 0,10                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Dimetoato (µg/L) <sup>(1)</sup>                 | 0,10                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Diurão (µg/L) <sup>(1)</sup>                    | 0,10                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Imidaclopride (µg/L) <sup>(1)</sup>             | 0,10                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| MCPA (µg/L) <sup>(1)</sup>                      | 0,10                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Dimetenamida-P (µg/L) <sup>(1)</sup>            | 0,10                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Metribuzina (µg/L) <sup>(1)</sup>               | 0,10                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Metolaclo (µg/L) <sup>(1)</sup>                 | 0,10                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Ometoato (µg/L) <sup>(1)</sup>                  | 0,10                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Simazina (µg/L) <sup>(1)</sup>                  | 0,10                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Terbutilazina (µg/L) <sup>(1)</sup>             | 0,10                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| 2,4-D                                           | 0,10                                         | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Alfa total (Bq/L) <sup>(1)</sup>                | 0,10 <sup>(2)</sup>                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Beta Total (Bq/L) <sup>(1)</sup>                | 1,0 <sup>(2)</sup>                           | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Dose indicativa total (mSv/L) <sup>(1)</sup>    | 0,1                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |
| Radão (Bq/L)                                    | 500                                          | ---             | ---    | ---                        | ---                 | ---                 | ---        | ---                   |

| Definições            |                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Controlo de Rotina:   | tem como objetivo fornecer regularmente informações sobre a qualidade organolética e microbiológica da água destinada ao consumo humano, bem como sobre a eficácia dos tratamentos existentes, especialmente a desinfecção, tendo em vista determinar a conformidade da água com os valores paramétricos estabelecidos no Decreto-Lei n.º69/2023, de 21 de Agosto; |
| Controlo de Inspeção: | tem como objetivo obter as informações necessárias para verificar o cumprimento dos valores paramétricos do o Decreto-Lei n.º69/2023, de 21 de Agosto;                                                                                                                                                                                                             |
| Conservativos:        | parâmetros em relação aos quais não há alterações desfavoráveis entre o ponto de entrega em alta e as torneiras dos consumidores, estando, neste caso, a EG em baixa dispensada de efetuar o seu controlo analítico.                                                                                                                                               |



|                            | 3.º Trimestre |           |
|----------------------------|---------------|-----------|
|                            | Realizadas    | Previstas |
| N.º de análises realizadas | 19            | 19        |
| % de análises realizadas   | 100%          |           |
| N.º de incumprimentos      | 0             |           |
| % de resultados conformes  | 100%          |           |

|                            | Anual (acumulado) |           |
|----------------------------|-------------------|-----------|
|                            | Realizadas        | Previstas |
| N.º de análises realizadas | 116               | 133       |
| % de análises realizadas   | 87%               |           |
| N.º de incumprimentos      | 0                 |           |
| % de resultados conformes  | 100%              |           |

Nota 1 - Parâmetro (conservativo)      Nota 2 - Níveis de verificação (alerta)

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

Durante o período em análise, não se registaram incumprimentos. Para informação mais detalhada sobre estes resultados, por favor dirija-se ao nosso serviço de atendimento.

Responsável pela Entidade Gestora:

  
Alexandre Almeida

Responsável da Qualidade da Água:

Eng.ª Mariana Frada

Data de publicação no website

11 de novembro 2023