

| Parâmetro                                         | VP - Valor Paramétrico |                   | Valores Obtidos |              | Nº de Análises<br>Superiores ao<br>VP | % de<br>Cumprimen<br>to do VP | Nº de Análises<br>PCQA 2025 |            | % Análises<br>Realizadas |
|---------------------------------------------------|------------------------|-------------------|-----------------|--------------|---------------------------------------|-------------------------------|-----------------------------|------------|--------------------------|
|                                                   | VP                     | Unidade           | Mínimo          | Máximo       |                                       |                               | Previstas                   | Realizadas |                          |
| Escherichia coli (E. Coli)                        | 0                      | N/100ml           | 0               | 0            | 0                                     | 100%                          | 3                           | 3          | 100%                     |
| Bactérias Coliformes                              | 0                      | N/100ml           | 0               | 0            | 0                                     | 100%                          | 3                           | 3          | 100%                     |
| Desinfectante Residual                            | ---                    | mg/l              | 0,31            | 0,78         | ---                                   | ---                           | 3                           | 3          | 100%                     |
| Cheiro a 25°C                                     | 3,0                    | Fator de diluição | <1              | <1           | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Sabor a 25°C                                      | 3,0                    | Fator de diluição | <1              | <1           | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| pH                                                | ≥6,5 e ≤9,5            | E. de Sorensen    | 7,2             | 7,2          | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Condutividade                                     | 2500                   | µS/cm a 20°C      | 435             | 435          | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Cor                                               | 20,0                   | mg/l PtCo         | <5,0            | <5,0         | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Turvação                                          | 4,0                    | UNT               | 1,8             | 1,8          | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Enterococos fecais                                | 0                      | N/100ml           | 0               | 0            | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Número de Colónias a 22°C                         | ---                    | N/ml a 22°C       | ND              | ND           | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Número de Colónias a 36°C                         | ---                    | N/ml a 36°C       | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| Alumínio                                          | 200,0                  | µg/l Al           | <20             | <20          | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Cálcio                                            | ---                    | mg/l Ca           | 49              | 49           | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Clostridium perfringens                           | 0                      | N/100ml           | 0               | 0            | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Dureza Total                                      | ---                    | mg/l CaCO3        | 150             | 150          | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Dose Indicativa (1)                               | 0,1                    | mSv               | <0,1            | <0,1         | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Alfa-total (1)                                    | ---                    | Bq/l              | 0,26            | 0,26         | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Beta- Total (1)                                   | ---                    | Bq/l              | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| Polónio 210                                       | ---                    | Bq/l              | <0,01 (LQ)      | <0,01 (LQ)   | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Rádio 226                                         | ---                    | Bq/l              | 0,10            | 0,10         | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Urânio 234                                        | ---                    | Bq/l              | 0,03            | 0,03         | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Urânio 238                                        | ---                    | Bq/l              | 0,03            | 0,03         | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Radão                                             | 500                    | Bq/l              | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| Ferro                                             | 200                    | µg/l Fe           | 37              | 37           | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Magnésio                                          | ---                    | mg/l Mg           | 6,7             | 6,7          | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Manganês                                          | 50                     | µg/l Mn           | <10             | <10          | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Oxidabilidade                                     | 5,0                    | mg/l O2           | <1,0            | <1,0         | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Potássio                                          | ---                    | mg/l K            | 6,0             | 6,0          | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Amónio                                            | 0,5                    | mg/l NH4          | <0,050          | <0,050       | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Antimónio (1)                                     | 10                     | µg/l Sb           | <0,05           | <0,05        | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Arsénio (1)                                       | 10,0                   | µg/l As           | 0,23            | 0,23         | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Benzeno (1)                                       | 1,0                    | µg/l              | <0,3            | <0,3         | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Benzo(a)pireno                                    | 0,01                   | µg/l              | <0,002          | <0,002       | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Boro (1)                                          | 1,5                    | mg/l B            | <0,10           | <0,10        | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Bromatos (1)                                      | 10,0                   | µg/l BrO3         | <1,5            | <1,5         | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Cádmio (1)                                        | 5                      | µg/l Cd           | 1,3             | 1,3          | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Carbono Orgânico Total (COT)                      | ---                    | mg/l C            | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| Cianetos (1)                                      | 50                     | µg/l CN           | <1,0            | <1,0         | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Cloretos (1)                                      | 250,0                  | mg/l Cl           | 48              | 48           | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Cloritos                                          | 0,7 (3)                | mg/l              | <0,010          | <0,010       | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Cloratos                                          | 0,7 (3)                | mg/l              | 0,046           | 0,046        | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Chumbo                                            | 10                     | µg/l Pb           | <3,0            | <3,0         | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Cobre                                             | 2,0                    | mg/l Cu           | 0,026           | 0,026        | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Crómio                                            | 50                     | µg/l Cr           | <5,0            | <5,0         | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| 1,2 - dicloroetano (1)                            | 3,0                    | µg/l              | <0,3            | <0,3         | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Fluoretos (1)                                     | 1,5                    | mg/l F            | 0,037           | 0,037        | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Hidrocarbonetos Aromáticos<br>Policíclicos (HAP): | 0,1                    | µg/l              | <0,005 (>LQ)    | <0,005 (>LQ) | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Benzo(b)fluoranteno                               | ---                    | µg/l              | <0,005          | <0,005       | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Benzo(k)fluoranteno                               | ---                    | µg/l              | <0,002          | <0,002       | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Benzo(ghi)perileno                                | ---                    | µg/l              | <0,004          | <0,004       | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Indeno(1,2,3-cd)pireno                            | ---                    | µg/l              | <0,004          | <0,004       | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Nitratos (1)                                      | 50                     | mg/l NO3          | 3,7             | 3,7          | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Nitritos                                          | 0,5                    | mg/l NO2          | <0,010          | <0,010       | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Mercurio (1)                                      | 1                      | µg/l Hg           | <0,01           | <0,01        | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Níquel                                            | 20,0                   | µg/l Ni           | <5,0            | <5,0         | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Pesticidas - totais (1)                           | 1                      | µg/l              | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| M656PH051 (1)                                     | ---                    | µg/l              | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| Bentazona (1)                                     | 0                      | µg/l              | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| Clorpirifos (1)                                   | 0,1                    | µg/l              | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| Dimetoato (1)                                     | 0                      | µg/l              | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| Diurão (1)                                        | 0,1                    | µg/l              | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| Imidaclopride (1)                                 | 0                      | µg/l              | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| S-Metolaclopro (1)                                | 0,1                    | µg/l              | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| MCPA (1)                                          | 0                      | µg/l              | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| Dimetenamida-P (1)                                | 0,1                    | µg/l              | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| Metribuzina (1)                                   | 0                      | µg/l              | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| Terbutilazina (1)                                 | 0,1                    | µg/l              | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| Desetilterbutilazina (1)                          | 0                      | µg/l              | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| Ometoato (1)                                      | 0,1                    | µg/l              | ---             | ---          | ---                                   | ---                           | ---                         | ---        | ---                      |
| Glifosato (1)                                     | 0                      | µg/l              | <0,02           | <0,02        | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| AMPA (1)                                          | 0,1                    | µg/l              | <0,02           | <0,02        | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Selénio (1)                                       | 20                     | µg/l Se           | <0,5            | <0,5         | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Sódio (1)                                         | 200,0                  | mg/l Na           | 37              | 37           | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Sulfatos (1)                                      | 250                    | mg/l SO4          | 8,7             | 8,7          | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Tetracloroetano e Tricloroetano<br>(1)            | 10,0                   | µg/l              | <3 (>LQ)        | <3 (>LQ)     | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Tetracloroetano                                   | ---                    | µg/l              | <3              | <3           | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Tricloroetano                                     | ---                    | µg/l              | <0,3            | <0,3         | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Trihalometanos - Totais (THM):                    | 100                    | µg/l              | <3 (>LQ)        | <3 (>LQ)     | 0                                     | 100%                          | 1                           | 1          | 100%                     |
| Clorofórmio                                       | ---                    | µg/l              | <3              | <3           | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Bromofórmio                                       | ---                    | µg/l              | <3              | <3           | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Bromodichlorometano                               | ---                    | µg/l              | <3              | <3           | ---                                   | ---                           | 1                           | 1          | 100%                     |
| Dibromochlorometano                               | ---                    | µg/l              | <3              | <3           | ---                                   | ---                           | 1                           | 1          | 100%                     |

Informação complementar

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).

Informação complementar relativa à averiguação de incumprimentos dos Valores Paramétricos (VP):

Não foi detetada nenhuma situação de incumprimento ao Valor Paramétrico na Zona de Abastecimento de Casa Velha

Laboratórios responsáveis pelas colheitas e ensaios:

Cesab

Legenda:

- VP - Valor Paramétrico constante do anexo I do DL 69/2023, de 21 de agosto
- ND - Não Detectado
- LQ - Limite de Quantificação
- LD - Limite de Detecção
- NA - Não Aplicável
- (1) Parâmetros Conservativos
- (2) Parâmetros Conserv analisados pela EG em Alta
- (3) VP configurado em função do sistema de desinfeção existente

Diretor-Geral:

Idalécio Pessoa Oliveira, Eng.

Data:

20 de junho de 2025