

| CÂMARA MUNICIPAL DE PALMELA                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                   | CONTROLO DA QUALIDADE DA ÁGUA PARA CONSUMO HUMANO<br>NA ZONA DE ABASTECIMENTO DE CAJADOS DO CONCELHO DE PALMELA |        |                            |                     | 1º TRIMESTRE 2024           |            |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------|----------------------------|---------------------|-----------------------------|------------|-----------------------|
| 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).                                                                                                                                                  |                                                                                                   |                                                                                                                 |        |                            |                     | 01 de janeiro a 31 de março |            |                       |
| Parâmetro (unidades)                                                                                                                                                                                                                                                                                                                                                                                                                               | Valor Paramétrico (VP) fixado no DL 306/2007, incluindo alterações introduzidas pelo DL 152/2017) | 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)                                                                                                                                                                                                                                                                                                                                                                                                                       | ---                                                                                               | 0,2                                                                                                             | 0,4    | 0                          | 100%                | 3                           | 3          | 100%                  |
| Cheiro a 25ºC (Factor de diluição)                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                                                                                                 | <1                                                                                                              | <1     | 0                          | 100%                | 1                           | 1          | 100%                  |
| Sabor a 25ºC (Factor de diluição)                                                                                                                                                                                                                                                                                                                                                                                                                  | 3                                                                                                 | <1                                                                                                              | <1     | 0                          | 100%                | 1                           | 1          | 100%                  |
| pH (Unidades pH)                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≥6,5 e ≤9                                                                                         | 6,3                                                                                                             | 6,3    | 1                          | 0%                  | 1                           | 1          | 100%                  |
| Condutividade (µS/cm a 20ºC)                                                                                                                                                                                                                                                                                                                                                                                                                       | 2500                                                                                              | 219                                                                                                             | 219    | 0                          | 100%                | 1                           | 1          | 100%                  |
| Cor (mg/L PtCo)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20                                                                                                | <2                                                                                                              | <2     | 0                          | 100%                | 1                           | 1          | 100%                  |
| Turvação (NTU)                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4                                                                                                 | <0,3                                                                                                            | <0,3   | 0                          | 100%                | 1                           | 1          | 100%                  |
| Enterococos (N/100 mL)                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                 | 0                                                                                                               | 0      | 0                          | 100%                | 1                           | 1          | 100%                  |
| Número de colónias a 22 ºC (N/ml)                                                                                                                                                                                                                                                                                                                                                                                                                  | Sem alteração anormal                                                                             | 78                                                                                                              | 78     | 0                          | 100%                | 1                           | 1          | 100%                  |
| Clostridium perfringens (N/100ml)                                                                                                                                                                                                                                                                                                                                                                                                                  | 0                                                                                                 | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Cianetos (µg/L CN)                                                                                                                                                                                                                                                                                                                                                                                                                                 | 50                                                                                                | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Antimónio (µg/L Sb)                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                                                                                                 | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Alumínio (µg/L Al)                                                                                                                                                                                                                                                                                                                                                                                                                                 | 200                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Níquel (µg/L Ni)                                                                                                                                                                                                                                                                                                                                                                                                                                   | 20                                                                                                | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Crómio (µg/L Cr)                                                                                                                                                                                                                                                                                                                                                                                                                                   | 50                                                                                                | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Mercúrio (µg/L Hg)                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                                                                                 | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Arsénio (µg/L As)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10                                                                                                | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Boro (mg/L B)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1,0                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Fluoretos (mg/L F)                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1,5                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Nitratos <sup>2</sup> (mg/L NO <sub>3</sub> )                                                                                                                                                                                                                                                                                                                                                                                                      | 50                                                                                                | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Manganês (µg/L Mn)                                                                                                                                                                                                                                                                                                                                                                                                                                 | 50                                                                                                | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Oxidabilidade (mg/L O <sub>2</sub> )                                                                                                                                                                                                                                                                                                                                                                                                               | 5                                                                                                 | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Cloretos (mg/L Cl)                                                                                                                                                                                                                                                                                                                                                                                                                                 | 250                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Nitritos (mg/L NO <sub>2</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                   | 0,5                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Azoto Amoniacal (mg/L NH <sub>4</sub> )                                                                                                                                                                                                                                                                                                                                                                                                            | 0,50                                                                                              | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Magnésio (mg/L Mg)                                                                                                                                                                                                                                                                                                                                                                                                                                 | ---                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Cálcio (mg/L Ca)                                                                                                                                                                                                                                                                                                                                                                                                                                   | ---                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Sódio (mg/L Na)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 200                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Sulfatos (mg/L SO <sub>4</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                   | 250                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Ferro (µg/L Fe)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 200                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Bromatos (µg/L BrO <sub>3</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                  | 10                                                                                                | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Dureza total (mg/L CaCO <sub>3</sub> )                                                                                                                                                                                                                                                                                                                                                                                                             | ---                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Cádmio (µg/L Cd)                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5,0                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Cobre (mg/L Cu)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2,0                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Chumbo (µg/L Pb)                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10                                                                                                | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Selénio (µg/L Se)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10                                                                                                | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Dimetenamida (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                                | 0,1                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Pesticidas Totais ) (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,5                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Bentazona (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0,1                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Clorpirifos (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0,1                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Metalaxil (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0,1                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Diurão (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0,1                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Desetil-terbutilazina (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                       | 0,1                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Terbutilazina (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                               | 0,1                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Imidaclopride (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                               | 0,1                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Simazina (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0,1                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Desetil-simazina (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,1                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| COV                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                   | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Benzeno (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1,0                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| 1,2 – dicloroetano (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                          | 3,0                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Clorofórmio(µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                                  | ---                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Bromodiclorometano(µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                           | ---                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Dibromoclorometano(µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                           | ---                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Bromofórmio(µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                                  | ---                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Tricloroeteno(µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                                | ---                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Trihalometanos - total (µg/L):                                                                                                                                                                                                                                                                                                                                                                                                                     | 100                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Tetracloroeteno(µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                              | ---                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Tetracloroeteno e Tricloroeteno (µg/L):                                                                                                                                                                                                                                                                                                                                                                                                            | 10                                                                                                | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| HAP                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                   | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Benzo(b)fluoranteno (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                         | ---                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Benzo(k)fluoranteno (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                         | ---                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Benzo(a)pireno (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                              | 0,010                                                                                             | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Benzo(ghi)perileno (µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                          | ---                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Indeno(1,2,3-cd)pireno(µg/L)                                                                                                                                                                                                                                                                                                                                                                                                                       | ---                                                                                               | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Hidrocarbonetos Aromáticos Policíclicos µg/L):                                                                                                                                                                                                                                                                                                                                                                                                     | 0,10                                                                                              | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Radiológicos                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                   | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Alpha total (Bq/L)                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0,10                                                                                              | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Dose Indicativa total (mSv/yr)                                                                                                                                                                                                                                                                                                                                                                                                                     | 0,10                                                                                              | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| Radão (Bq/L)                                                                                                                                                                                                                                                                                                                                                                                                                                       | 500,00                                                                                            | ---                                                                                                             | ---    | ---                        | ---                 | 0                           | ---        | 100%                  |
| NOTA 1: Zonas de abastecimento controladas: CAJADOS                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                   |                                                                                                                 |        |                            |                     |                             |            |                       |
| NOTA 2: Parâmetro (conservativo) analisado pela entidade gestora em alta (CM PALMELA)                                                                                                                                                                                                                                                                                                                                                              |                                                                                                   |                                                                                                                 |        |                            |                     |                             |            |                       |
| Informação complementar relativa à averiguação das situações de incumprimento dos VP (causas e medidas correctivas)                                                                                                                                                                                                                                                                                                                                |                                                                                                   |                                                                                                                 |        |                            |                     |                             |            |                       |
| Informação complementar relativa à averiguação das situações de incumprimento dos VP (causas e medidas correctivas): O valor de pH é reflexo das características hidrogeológicas da água. A CMP obteve parecer favorável da ARS-LVT para não fazer correção de pH. Assim, valores de pH abaixo dos 6,5 são registados como incumprimento mas não constituem qualquer preocupação do ponto de vista da qualidade da água para abastecimento humano. |                                                                                                   |                                                                                                                 |        |                            |                     |                             |            |                       |