

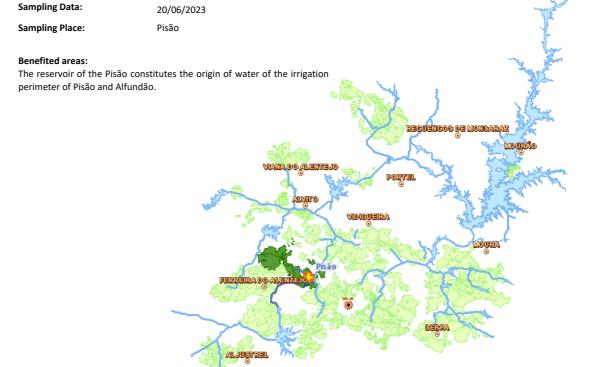
Water Quality Report for Irrigation **EFMA Primary Network**

	Lab results			Mater Ovelity for Insigntion
Responsible Laboratory: ALS Life Sciences Portugal, S.A.		(Bulletin nº 240347/2023)		Water Quality for Irrigation (annex XVI, DL n.º 236/98)
Parameters		Units	Results	Conformity
Alkalinity		mg/L CaCO3	148	
Ammonium		mg/L NH4	0,046	
Nitrogen Kjeldahl		mg/L N	0,68	
Total Nitrogen		mg/L N	0,57	
Bicarbonates		mg/L CO3H-	180	(a)
Boron		mg/L B	0,0347	
Calcium		mg/L Ca	45	
Chloride		mg/L Cl	69	
Total Hardness		mg/L CaCO3	198	
Total Iron (b)		mg/L Fe	0,0606	
Phosphates		mg/L P2O5	0,077	
Total Phosphorus		mg/L P	0,034	
Magnesium		mg/L Mg	20,9	
Manganese		mg/L Mn	0,0181	
Nitrates		mg/L NO3	<lq 2<="" td=""><td></td></lq>	
Nitrites		mg/L NO2	0,0287	
Potassium		mg/L K	6,52	
Ratio of Sodium Absorption (SAR)			1,207	
Ratio of Sodium Absorption adjusted (SARa	j)		1,306	
Sodium		mg/L Na	39,1	
Total Dissolved Solids (TDS)		mg/L	324	
Total Suspended Solids (TSS)		mg/L	6	
Sulphates		mg/L CO4	48,5	
Total Coliforms		NPM/100 mL	7	
Fecal Coliforms		NPM/100 mL	6	•

Note: With the exception of the SARaj parameter, test to determine the remaining parameters are included in the range of laboratory accreditation.

	Field (Determined with a r		Water Quality for Irrigation (annex XVI, DL n.º 236/98)	
	Parameters	Units	Results	Conformity
Temperature		ōС	25,3	
рН		Escala Sorensen	8,50	
Conductivity		μS/cm	606	

- Lower than the VMR (Maximum Value Recommended).
- Higher than VMR and below the VMA (Maximum Permitted Value).
- Higher than VMR. For this parameter is not defined one VMA.
- Higher than the VMA.
- (a) The maximum value recommended in the Integrated Production Standards, for most crops, is 90 mg / L.
- (b) The VMA in Annex XVI of the Decree-Law nº 236/98 refers to the dissolved iron (5 mg/L Fe).



The pH result exceeds the Recommended Maximum Value range for water quality for irrigation (VMR: [6.5-8.4]). This may be due to an increase in the biological activity of algae. High pH values can affect the plant's ability to absorb nutrients and promote the precipitation of iron, calcium, magnesium and phosphate ions, which may promote the clogging of drip irrigation systems.

The bicarbonate values exceed the maximum value recommended in the Integrated Production Standards. High concentrations of bicarbonates can affect crop yields, making it difficult to absorb some mineral nutrients.

The results of the remaining elements are within the range of expected values for this typology of water bodies.

MUSEUDNLUZ

In the document "Water Quality - Complementary Information", EDIA recommends some general measures to reduce the concentration of salts in the water bodies.





Comments: