

Analytical Laboratory Report

Client: Companhia Docas do Estado de São Paulo - CODESP

Collected By: Laboratório Controle Analítico

Project: Water Supply and Sewage Collection - Santos Port

Project Number: Contract DIPRE/04.2020

Date Collected: 1/6/2021

Time Collected: 10:25 A.M.

Sample Identification: Treated Water at Saboo
Treatment Plant

Report Number: RE001/2021-0

PARAMENTERS	ANALYSIS DATE	RESULT	LQ	METHOD	PRC Nº5/2017 - VMP
Aluminum (mg/L Al^{3+})	18/01/21 13:42	<0,025	/	SMEWW Method 3120 B	0.2
pH (-)	06/01/21 10:25	7.13	2 - 13	SMWW Method 4500 H^+	6,0 a 9,5
Chloride (mg/L Cl^-)	07/01/21 11:10	8.1	1	EPA SW - 846 - 300.1 - 1999	250
Residual Free Chlorine (mg/L Cl_2)	06/01/21 10:25	1.52	0.1	POP 091	0,2 - 5,0
Residual Total Chlorine (mg/L Cl_2)	06/01/21 10:25	1.90	0.1	POP 095	/
Conductivity ($\mu S/cm$)	06/01/21 10:25	41.2	1	SMWW Method 2510 B	/
Total Coliform (P/A)	07/01/21 08:00	Absence	/	SMEWW Method 9223 A e B	Absence
Color (CU)	06/01/21 17:20	<5	5	SMWW Method 2120 B	15
Total Hardness (mg/L $CaCO_3$)	18/01/21 13:42	5.593	2	SMWW Method 2340 B	500
<i>Escherichia coli</i> (P/A)	07/01/21 08:00	Absence	/	SMEWW Method 9223 A e B	Absence
Total Iron (mg/L Fe)	18/01/21 13:42	< 0,025	0.025	SMEWW Method 3120 B	0.3
Fluoride (mg/L F^-)	07/11/21 11:10	0.729	0.2	EPA SW - 846 - 300.1 - 1999	1.5
Total Manganese (mg/L Mn)	18/01/21 13:42	< 0,025	0.025	SMEWW Method 3120 B	0.1
Nitrate (mg/L NO_3^- - N)	07/01/21 11:10	0.395	0.0	EPA SW - 846 - 300.1 - 1999	10
Nitrite (mg/L NO_2^- - N)	07/01/21 11:10	< 0,152	0.152	EPA SW - 846 - 300.1 - 1999	1
Total Dissolved Solids (mg/L)	11/01/21 08:18	< 20	/	POP 077	1000
Sulfate (mg/L SO_4^{2-})	07/01/21 11:10	0.959	/	EPA SW - 846 - 300.1 - 1999	250
Hydrogen Sulphide (mg/L S^{2-})	07/01/21 11:42	< 0,002	/	POP 061	0.1
Turbidity (NTU)	06/01/21 10:25	0.3	0.053	SMWW Method 2130 B	5
Zinc (mg/L Zn)	18/01/21 13:42	< 0,025	0.025	SMEWW Method 3120 B	5

On the basis of the above test result(s), this water sample
of Ministério da Saúde (Health Ministry) for **POTABLE WATER**

DOES MEET

Portaria de Consolidação Nº5/2017

The following notes apply to this sample:

- 1) Analysis Undertaken as basic methodology described in the "Standard Methods" 23th edition.
- 2) The results of that analysis has restricted meaning and apply only to sample

Santos, January 18 2020

Responsible for report:



Lucas Gomes Antunes
Technical Manager
CRQ-IV: 04488618