

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: 11/4/2020

Time Collected: 02:35 P.M.

Sample Identification: Treated Water at Saboo
Treatment Plant

Report Number: RE011/2020-0

PARAMENTERS	ANALYSIS DATE	RESULT	LQ	METHOD	PRC Nº5/2017 - VMP
Aluminum (mg/L Al ³⁺)	09/11/20 19:00	0.068	/	SMEWW Method 3120 B	0.2
pH (-)	04/11/20 14:35	7.09	2 - 13	SMWW Method 4500 H ⁺	6,0 a 9,5
Chloride (mg/L Cl ⁻)	05/11/20 12:35	9.1	1	EPA SW - 846 - 300.1 - 1999	250
Residual Free Chlorine (mg/L Cl ₂)	04/11/20 14:35	1.50	0.1	POP 091	0,2 - 5,0
Residual Total Chlorine (mg/L Cl ₂)	04/11/20 14:35	1.71	0.1	POP 095	/
Conductivity (µS/cm)	04/11/20 14:35	36.1	1	SMWW Method 2510 B	/
Total Coliform (P/A)	05/11/20 08:00	Absence	/	SMEWW Method 9223 A e B	Absence
Color (CU)	05/11/20 08:00	<5	5	SMWW Method 2120 B	15
Total Hardness (mg/L CaCO ₃)	09/11/20 19:00	3.5	2	SMWW Method 2340 B	500
Escherichia coli (P/A)	05/11/20 08:00	Absence	/	SMEWW Method 9223 A e B	Absence
Total Iron (mg/L Fe)	09/11/20 19:00	< 0,025	0.025	SMEWW Method 3120 B	0.3
Fluoride (mg/L F ⁻)	05/11/20 12:35	0.59	0.2	EPA SW - 846 - 300.1 - 1999	1.5
Total Manganese (mg/L Mn)	09/11/20 19:00	< 0,025	0.025	SMEWW Method 3120 B	0.1
Nitrate (mg/L NO ₃ ⁻ - N)	05/11/20 12:35	0.35	0.0	EPA SW - 846 - 300.1 - 1999	10
Nitrite (mg/L NO ₂ ⁻ - N)	05/11/20 12:35	< 0,152	0.152	EPA SW - 846 - 300.1 - 1999	1
Total Dissolved Solids (mg/L)	06/11/20 08:31	< 20	/	POP 077	1000
Sulfate (mg/L SO ₄ ²⁻)	05/11/20 12:35	1.88	/	EPA SW - 846 - 300.1 - 1999	250
Hydrogen Sulphide (mg/L S ²⁻)	05/11/20 17:38	< 0,002	/	POP 061	0.1
Turbidity (NTU)	04/11/20 14:35	<0,1	0.053	SMWW Method 2130 B	5
Zinc (mg/L Zn)	09/11/20 19:00	< 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, November 19 2020

Responsible for report:



Eng. Sandro Bispo de Carvalho
Technical Manager
CRQ-IV: 03316985