

Water Quality Analysis

Physical and Chemical Characteristics

PARAMETERS	VALUE	MAXIMUM ALLOWED VALUE	USED NORM
FREE CHLORINE	0	0	SM 4500 Cl G – DPD Colorimetric Method
PH	7.35	4-9	SM 4500 H B – Photometric Spectrum
ODOR	Odorless	Odorless	SM 2150 B – Odor Threshold Test
COLOUR	Colorless	Colorless	SM 2120 C – Spectrophotometric Method
PESTICIDE RESIDUE	Absent	Absent	EPA 507 y SM 6630 – Gas Chromatography
ARSENIC	< 0.005 ppm	< 0.05 ppm	EPA 6010B
DETERGENTS	Absent	Absent	SM 5540 C
BICARBONATES	91 mg/l	< 600 mg/l	SM 2320 B
CARBONATES	0	100 ppm	SM 2320 B
CHLORIDE	53 ppm	< 400 ppm	SM 4500 Cl B
CALCIUM	80	< 150 mg/l	SM 3500-Ca D
POTASSIUM	0.2	N/A	Photometry
SODIUM	37 mg/l	< 200 mg/l	Photometry
MAGNESIUM	24 mg/l	< 400 mg/l	SM 3500-Mg E
TOTAL DISSOLVED SOLIDS	210 mg/l	101-500 mg/l	Conductimetry
NITRATES	1 ppm	< 50 ppml	SM 4500 NO3 B - Spectrophotometric
NITRITES	< 0.02 ppm	< 0.2 ppm	SM 4500-NO2 - B

Microbiological Characteristics

PARAMETERS	UNIT	VALUE	MAXIMUM ALLOWED VALUE
AEROBIC BACTERIA	U.F.C./ ml	0	500
TOTAL COLIFORMS	U.F.C./100 ml	0	< 3 ufc
E. COLI BACTERIA	U.F.C./100 ml	0	Absent
PSEUDOMONAS AERUGINOSA	U.F.C./250 ml	Absent	Absent
SALMONELLA BACTERIA	U.F.C./100 ml	Absent	Absent
YEAST AND MOULDS	U.F.C./50 ml	Absent	Absent

Conclusion

Water Suitable For Consumption According To C.A.A Artículo N° 985 (Res. MS y AS N° 209 del 7/03/94)



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