

Industrial water consumption

- Concession/assignment title 07COA158789/36FMDA18 Holder: PI Centenario Coahuila, S. de R.L. de C.V.
- Registration Date: December 7, 2018
- Use Covered by the Title: INDUSTRIAL
- Volume of National Waters (m³/year): 150,000.00
- Volume of Underground Waters (m³/year): 150,000.00
- Marginal Notes: None
- Hydrological Region: NAZAS-AGUANAVAL
- Aquifer Mentioned in Title: 523 - PRINCIPAL -REGION LAGUNERA
- Approved Aquifer: 0523 - PRINCIPAL -REGION LAGUNERA
- State: COAHUILA DE ZARAGOZA
- Consult REPDA Database: <https://app.conagua.gob.mx/consultarepda.aspx>

Water quality:

Physicochemical parameters:

- pH: 8.20 (within the range of 6.5-8.5)
- Electrical conductivity: 0.769 mS/cm
- Hardness: 270.4 mg/L CaCO₃ (hard)
- Total dissolved solids: 322.9 mg/L (well below the maximum limit of 1,000 mg/L)
- Effective salinity (SE): 5.07 meq/L → Class C3 (medium salinity)
- Potential salinity (PS): 3.34 meq/L
- Sodium (Na⁺): 3.72 meq/L → Class S1 (low risk of sodification)

Major ion analysis:

- o Calcium: 4.20 meq/L (84.16 ppm)
- o Magnesium: 1.20 meq/L (14.55 ppm)
- o Chlorides: 0.65 meq/L (23.1 ppm)
- o Sulfates: 5.38 meq/L (262.6 ppm)
- o Nitrates: 0.24 meq/L (3.374 ppm)

Heavy metals and trace elements:

- o Iron: 0.012 ppm (< 0.30 ppm)*
- o Copper: 0.014 ppm (< 2.0 ppm)*
- o Zinc: 0.107 ppm (< 5.0 ppm)*
- o Manganese: 0.01 ppm (< 0.15 ppm)*
- o Arsenic and lead (partial analysis)*
- o Arsenic: 0.005 ppm (< 0.01 ppm NOM-127 limit)*
- o Lead: not detected (< 0.001 ppm)*
- o The water complies with the chemical parameters (pH, TDS, heavy metals, arsenic, and lead within regulatory limits) for human consumption.*