



Canyon Regional Water Authority Job Description

Position Title: Surface Water Treatment Plant Operator II

Position Location: Lake Dunlap Surface Water Treatment Plant

Address: 850 Lakeside Pass New Braunfels, Texas 78130

JOB SUMMARY

The Surface Water Treatment Plant Operator II Performs skilled technical work in the operation, monitoring, maintenance, and optimization of water treatment facilities. Responsible for maintaining regulatory compliance, adjusting treatment processes, monitoring water quality, and ensuring the reliable production and delivery of potable water. Exercises independent judgment in plant operations and may provide guidance to less experienced operators.

ESSENTIAL FUNCTIONS

- Operates and monitors treatment plant processes, equipment, and SCADA systems.
- Adjusts chemical feed rates and treatment processes based on changing source water and water quality conditions.
- Conducts routine and regulatory water quality sampling and laboratory analyses.
- Interprets operational data, trends, alarms, and laboratory results.
- Monitors pumps, motors, valves, filters, membrane systems, chemical feed systems, and storage facilities.
- Performs filter backwashes, membrane integrity testing, and other process control activities as applicable.
- Troubleshoots operational issues and implement corrective actions.
- Maintains operational logs, compliance records, and regulatory reports.
- Assists in preparing monthly operating reports and regulatory documentation.
- Performs preventive maintenance and coordinate equipment repairs.
- Trains and mentors entry-level operators.
- Ensures compliance with all applicable federal, state, and local regulations.
- Follows established safety procedures and participate in safety training programs.
- Performs other duties as assigned by the Surface Water Treatment Plant Manager or Surface Water Treatment Plant Lead.

KNOWLEDGE, SKILLS, AND ABILITIES

- Thorough knowledge of water treatment principles and processes.
- Knowledge of Texas drinking water regulations and reporting requirements.
- Ability to calculate chemical dosages, detention times, filtration rates, and other treatment parameters.

- Ability to interpret laboratory data and process trends.
- Ability to identify treatment process problems and implement corrective actions.
- Ability to prepare accurate reports and maintain detailed records.
- Ability to communicate effectively with operators, maintenance staff, management, and regulatory agencies.

DECISION MAKING

- The Surface Water Treatment Plant Operator II works under the Surface Water Treatment Plant Manager or the Surface Water Treatment Plant Lead.

MINIMUM REQUIREMENTS

- High School Diploma or GED.
- Texas Class C Water Operator License issued by the Texas Commission on Environmental Quality. Must maintain license renewals.
- Three (3) to five (5) years of progressively responsible water treatment experience.
- Strong working knowledge of Microsoft 365 products, Outlook, Adobe Acrobat Pro, SCADA system, and the GIS System.
- Ability to work rotating shifts, weekends, holidays, and emergency callouts is required.
- Must be able to respond/participate in after hour assigned/emergency work within 45 minutes' notice and live within the area to be able to respond to this requirement.
- Valid Class "C" Texas Driver's License consistent with CRWA driving policies.

PREFERED QUALIFICATIONS

- Texas Class B Water Operator License issued by the Texas Commission on Environmental Quality.
- Experience operating surface water treatment facilities.
- Experience with membrane treatment systems.
- Experience with computerized maintenance management systems (CMMS).
- Basic mechanical, electrical, and instrumentation troubleshooting skills.

PHYSICAL DEMANDS AND WORKING CONDITIONS

- Physical requirements include lifting/carrying up to 50 pounds occasionally; pushing a maximum force of 55 pounds. Subject to standing, sitting, walking, climbing, bending, crawling, squatting, kneeling and working in cramped and strained positions for long periods of time to perform job scope.
- Working conditions can be outside with frequent exposure to inclement weather; water; mechanical, electrical, chemical and confined space hazards; offensive fumes; excessive noise; deep excavations; and animals, snakes and poisonous insects. Must use personal protective equipment.
- Travel to different sites and locations in a CRWA company vehicle may be required.

CAREER PROGRESSION

- Surface Water Treatment Plant Operator I
- Surface Water Treatment Plant Operator II
- Surface Water Treatment Plant Lead Operator
- Surface Water Treatment Plant Manager