



## **CITY OF CALEXICO**

### **CLASS TITLE: WATER TREATMENT PLANT OPERATOR III**

**MONTHLY: \$5,439 - \$6,611**

**RANGE: O-22**

#### **BASIC FUNCTION:**

Under the direction of the Chief Water Plant Operator-Treatment, perform technical work in the monitoring, testing, calibrating, repair and adjusting water quality equipment within the City water system; monitor and adjust chemical dosages to assure adequate and safe drinking water.

#### **REPRESENTATIVE DUTIES:**

##### **ESSENTIAL DUTIES:**

Perform technical work in the monitoring, testing, calibrating, repair and adjusting water quality equipment within the City water system; conduct jar tests; take daily and weekly water samples; deliver samples for lab testing.

Monitor and set the SCADA system to assure compliance with water quality standards and appropriate levels of the water system.

Adjust and maintain related chlorination systems; compute and monitor chemical dosages to be added; replace cylinders; switch chlorinators and check analyzers; utilize a computer to monitor plant performance; monitor raw water influent.

Check and maintain complex electronic and mechanical equipment; troubleshoot malfunctions and alarms; repair and replace electrical and mechanical components as necessary; calibrate equipment and backwater filters.

Operate and maintain related specialized equipment, including transfer pumps, distribution pumps, electrical motors, lab equipment, hand tools, lawn mower and other related equipment.

Prepare and maintain related records, including lab analysis reports, CT calculations, daily readings, monthly surface water treatment regulations, alum plant dosage and others as required; input data into computerized data system.

##### **OTHER DUTIES:**

Perform a variety of maintenance duties as assigned; receive various deliveries of stock; perform grounds work; clean and maintain plant; assist other department personnel as necessary.

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**Ewing Consulting Services**

Conduct plant tours for schools and customers.

Respond to emergency situations as assigned.

Perform related duties as assigned.

**KNOWLEDGE AND ABILITIES:**

**KNOWLEDGE OF:**

Sampling and water testing techniques.

Laws and regulations applicable to City water systems.

State of California Department of Health standards, rules, regulations and requirements applicable to water distribution and treatment systems.

Chemical analysis of water quality, including chlorine use and the use of a variety of test kits and equipment.

Surface water treatment regulations.

Principles of electricity, electronics, hydraulics, chemistry and math.

City of Calexico water transmission and distribution system.

Use of equipment, tools, chemicals and meters used to test water quality.

Operation, maintenance, and repair of various pumps and meters.

Technical aspects of field of specialty.

Operation and maintenance of valves, flow meters, hydraulic equipment and uses for this apparatus.

Record-keeping techniques.

Interpersonal skills using tact, patience and courtesy.

**ABILITY TO:**

Perform skilled work in the monitoring, testing and adjusting City water quality.

Monitor and adjust chemical dosages to assure adequate and safe drinking water.

Maintain current knowledge of technological advances in the field.

Analyze situations accurately and adopt an effective course of action.

Check and maintain complex electronic and mechanical equipment.

Plan and organize work.

Meet schedules and timelines.

Maintain records related to assigned activities.

Work independently with little direction.

Establish and maintain cooperative and effective working relationships with others.

Understand and follow oral and written directions.

Observe health and safety regulations.

Observe legal and defensive driving practices.

Work courteously and tactfully with customers and employees.

**EDUCATION AND EXPERIENCE:**

Any combination equivalent to graduation from high school supplemented by 24 units of college-level course work in math and chemistry and one year of increasingly responsible maintenance of water distribution systems.

**LICENSES AND OTHER REQUIREMENTS:**

State of California Water Treatment Plant Operator grade III certification.  
Valid California driver's license.

**WORKING CONDITIONS:**

**ENVIRONMENT:**

Water Treatment Plant environment.  
Driving a vehicle to conduct work.  
Regular exposure to fumes and odors.  
Adverse and extreme weather conditions.

**PHYSICAL DEMANDS:**

Climbing ladders and steps to storage tanks.  
Standing and sitting for extended periods of time.  
Lifting, carrying, pushing or pulling heavy objects as assigned by the position.  
Bending at the waist, kneeling or crouching to take water samples.  
Dexterity of hands and fingers to operate hand and power tools.  
Reaching overhead, above the shoulders and horizontally.  
Hearing and speaking to exchange information.  
Seeing to inspect systems and read a variety of materials.  
Walking.

**HAZARDS:**

Working around and with machinery having moving parts.  
Working in a cramped or restrictive work chamber.  
Working at heights.  
Chemical fumes.