



## HERITAGE RANCH COMMUNITY SERVICES DISTRICT

### TREATMENT OPERATOR II

#### **DEFINITION**

Under general supervision, operates, maintains, and repairs water distribution and treatment and wastewater collection and treatment systems, facilities, and appurtenances; and performs related work as required.

#### **SUPERVISION RECEIVED AND EXERCISED**

Receives general supervision from the Operations Manager. Exercises no supervision of staff.

#### **CLASS CHARACTERISTICS**

This is the full journey-level class in the treatment operator classification series responsible for performing the full range of duties required to ensure that the water and wastewater systems, facilities, and appurtenances are operated effectively and are maintained in a safe and effective working condition according to District practices and procedures, as well as state and federal regulations. Responsibilities include inspecting and attending to assigned areas in a timely manner, and performing a wide variety of tasks in the operation, maintenance, and repair of assigned facilities and systems. Positions at this level receive only occasional instruction or assistance as new or unusual situations arise and are fully aware of the operating procedures and policies of the District. This class is distinguished from Treatment Operator III in that the latter is responsible for providing technical and functional direction to lower-level staff and is capable of performing the most complex duties assigned to the department.

#### **EXAMPLES OF TYPICAL JOB FUNCTIONS** (Illustrative Only)

*Management reserves the right to add, modify, change, or rescind the work assignments of different positions and to make reasonable accommodations so that qualified employees can perform the essential functions of the job.*

- Inspects, monitors, and documents plant operations to ensure compliance with environmental regulations and public health standards; reads, records, and calculates readings of meters, gauges, and other instrumentation and interprets into operational characteristics.
- Operates, adjusts, and maintains treatment plant flows, pumps, motors, feeders, filters, aeration systems, and other plant equipment to maintain appropriate plant operations; monitors, reviews, and analyzes automated information and control system data, and adjusts equipment settings and chemical levels; notifies Treatment Operator III or Operations Manager of unusual situations.
- Collects samples and performs water and wastewater process laboratory tests in accordance with permit requirements; analyzes and interprets laboratory results, recognizing problems that may be occurring during the treatment process; makes process adjustments accordingly; generates data for mandated reports.
- Operates valves, pumps, and automated controls to regulate the flow of wastewater and water through the system.

- Performs construction, maintenance, and repair activities of District water and wastewater utilities systems and facilities to ensure safe and efficient access for the public.
- Monitors and controls the operation of water distribution systems incorporating chemical feeding equipment, Supervisory Control and Data Acquisition (SCADA) system, filtration equipment, pump stations, and/or storage tanks; inspects for compliance with established codes and/or damaged or worn parts and makes repairs as necessary.
- Checks the operation of automatic pump and valve regulating equipment and makes adjustments or repairs as needed.
- Performs water valve maintenance and exercises valves on an annual basis.
- Flushes water distribution lines to ensure water quality, utilizes chlorine level testing devices, and runs chemical tests.
- Reads meters; performs water meter maintenance, including installing new meters, testing and repairing meters of various sizes, repairing leaks, and replacing meters as necessary; performs shutdowns of services, as required.
- Performs a variety of semi-skilled work to repair, maintain, install, inspect, troubleshoot, and adjust a variety of mechanical equipment relating to the District's lift stations.
- Inspects and tests underground wastewater collection pipes, lateral connections, storm drain interceptors, and associated appurtenances using closed-circuit television devices and other specialized testing equipment to locate leaks, breaks, infiltration and the buildup of dirt, debris, roots, and other materials on a scheduled preventative maintenance basis.
- Performs preventative maintenance, troubleshoots, maintains, calibrates, and repairs a variety of electrical, mechanical, process instrumentation, and hydraulic systems, equipment, and fixtures, such as electric motors, engines, gas and electric powered pumps, drive units, emergency systems, power generation systems, pressure and flow regulators, SCADA, programmable logic controllers (PLCs), and other treatment plant fixtures and appliances.
- Inspects, monitors, and conducts sampling at various commercial and industrial sites for compliance with wastewater discharge regulations.
- Performs general plant maintenance such as cleaning, painting, and repairing plant facilities as well as various ground maintenance duties.
- Locates and marks underground utilities as requested.
- Maintains accurate records and documentation of all plant activities; compiles data on plant operations and chemical use.
- Operates and maintains tools, specialized vehicles, and a variety of light, medium, and heavy equipment related to the maintenance and repair of the District's systems, facilities, and appurtenances.
- Observes safe work methods and makes appropriate use of related safety equipment as required.
- Maintains work areas in a clean and orderly condition and secures equipment and tools at the close of the workday.
- Installs street barricades and cones and controls traffic around work sites to ensure safe conditions for the general public and District workers.
- Maintains accurate logs and records of work performed and materials and equipment used.
- Provides needed information and demonstrations concerning how to perform certain work tasks to new employees in the same or similar class of positions.
- Provides assistance to the Operations Manager on various special projects as assigned.
- Performs other duties as assigned.

## **QUALIFICATIONS**

### **Knowledge of:**

- Principles, practices, equipment, material, and tools used in the operation, maintenance, and repair of water and wastewater treatment facilities and equipment.
- Standard chemical and physical tests of water and related materials.
- Maintenance principles, practices, tools, and materials for maintaining and repairing water distribution systems, including water hydraulics, valves, pipe materials, and water service components; wastewater collection systems, including gravity and pressurized wastewater lines, manholes, wastewater cleanouts, and other related facilities and equipment.
- Basic mechanical, electrical, hydraulic, and plumbing principles.
- Basic principles of biology, chemistry, bacteriology, and mathematics.
- The operation and minor maintenance of a variety of hand and power tools, vehicles, and power equipment.
- Basic traffic control procedures and traffic sign regulations.
- Applicable federal, state, and local laws, regulatory codes, ordinances, and procedures relevant to assigned areas of responsibility.
- Safe work methods and safety practices pertaining to the work including the handling and storage of hazardous chemicals.
- Safe driving rules and practices.
- Modern office practices, methods, and computer equipment and applications related to the work.
- Record keeping principles and procedures.
- English usage, grammar, spelling, vocabulary, and punctuation.
- Techniques for providing a high level of customer service by effectively dealing with the public, vendors, contractors, and District staff.

### **Ability to:**

- Operate, maintain, and repair a variety of water and wastewater treatment facilities and equipment.
- Accurately interpret and read flow diagrams, SCADA systems, telemetry equipment, charts, and indicating meters, and make appropriate process adjustments.
- Conduct standard chemical and physical tests of water and wastewater samples.
- Perform construction, modification, maintenance, and repair work on water distribution and wastewater collection systems, facilities, and appurtenances such as found in the District.
- Recognize and correct or report unusual, inefficient, or dangerous operating conditions.
- Set up and operate traffic area construction zones, including cones, barricades, and flagging.
- Locate underground utilities by use of blue prints and electronic locating equipment in accordance with Underground Service Alert (USA) regulations.
- Make accurate arithmetic calculations.
- Read and interpret construction drawings and specifications.
- Safely and effectively use and operate hand tools, mechanical equipment, power tools, and equipment required for the work.
- Handle hazardous chemicals in a safe manner.
- Understand the organization and operation of the District as necessary to assume assigned responsibilities.
- Interpret, apply, and ensure compliance with federal, state, and local policies, procedures, laws, and regulations.

- Maintain accurate logs, records, and basic written records of work performed.
- Understand and follow oral and written instructions.
- Organize own work, set priorities, and meet critical time deadlines.
- Use English effectively to communicate in person, over the telephone, and in writing.
- Use tact, initiative, prudence, and independent judgment within general policy, procedural, and legal guidelines.
- Establish, maintain, and foster positive and effective working relationships with those contacted in the course of work.

**Education and Experience:**

*Any combination of training and experience that would provide the required knowledge, skills, and abilities is qualifying. A typical way to obtain the required qualifications would be*

Equivalent to the completion of the twelfth (12<sup>th</sup>) grade and three (3) years of experience in construction, maintenance, and repair and operation of water and/or wastewater systems, facilities, and appurtenances.

**Licenses and Certifications:**

- Possession of, or ability to obtain, a valid California Driver's License by time of appointment.
- Possession of a Grade II Water Treatment Operator Certificate (T2) issued by the California State Water Resources Control Board (SWRCB) Drinking Water Department.
- Possession of a Grade I Water Distribution Operator Certificate (D1) issued by the California SWRCB Drinking Water Department.
- Possession of a Grade I Wastewater Treatment Plant Operator Certificate issued by the California State Water Resources Control Board is desirable.

**PHYSICAL DEMANDS**

Must possess mobility to work in the field and standard wastewater and water treatment plant and related facilities; strength, stamina, and mobility to perform light to medium physical work, to work in confined spaces, around machines and to climb and descend ladders, and to operate varied hand and power tools and equipment; to operate a motor vehicle and to visit various District and meeting sites; vision to read printed materials and a computer screen; color vision to read gauges and identify appurtenances; and hearing and speech to communicate in person and over the telephone or radio. The job involves frequent walking in operational areas to identify problems or hazards. Finger dexterity is needed to access, enter, and retrieve data using a computer keyboard or calculator and to operate above-mentioned tools and equipment. Positions in this classification bend, stoop, kneel, reach, and climb to perform work and inspect work sites. Employees must possess the ability to lift, carry, push, and pull materials and objects up to 75 pounds and heavier weights with the use of proper equipment.

**ENVIRONMENTAL ELEMENTS**

Employees work in the field and are exposed to loud noise levels, cold and hot temperatures, inclement weather conditions, road hazards, vibration, confining workspace, chemicals, mechanical and/or electrical hazards, and hazardous physical substances and fumes. The employee interfaces with staff, management, and the public in providing customer service, explaining District policies and procedures, and requesting and providing information.

**WORKING CONDITIONS**

Required to work evenings, weekends and holidays on a rotational basis on an on-call or call-back basis when necessary to accommodate the needs of the District.

EFFECTIVE: January 2016

DEPARTMENT: Operations

FLSA: Non-Exempt