

CITY OF MT. SHASTA

CLASS TITLE: WASTEWATER TREATMENT PLANT OPERATOR II

BASIC FUNCTION:

Under the direction of the Public Works Director, perform a variety of activities at wastewater treatment facilities involved in maintaining safe and proper wastewater quality including sample collection, equipment monitoring, and laboratory tests and analyses; prepare and compile related logs and records.

REPRESENTATIVE DUTIES:

ESSENTIAL DUTIES:

Perform a variety of activities at wastewater treatment facilities involved in maintaining safe and proper wastewater quality including sample collection, equipment monitoring, and laboratory tests and analyses; assist in assuring wastewater quality levels comply with established standards and requirements.

Collect wastewater samples to identify concentrations of chemical, physical and biological characteristics in accordance with established requirements and procedures; prepare and set up glass tubes and bottles for sample testing and analysis.

Conduct laboratory tests and analyses to identify wastewater quality levels; utilize a variety of laboratory equipment including DO meters, pH meters, ovens, lab scales, autoclaves, filters, incubators and various instruments and hand tools.

Inspect and monitor equipment, gauges and meters at treatment plants, pump stations and other facilities to identify wastewater quality levels; assist in calibrating, modifying and adjusting equipment in response to wastewater quality characteristics.

Interpret and record meter, gauge and other monitoring equipment readings, and test and analysis results; perform calculations as needed; prepare and compile various records and logs related to samples, readings, results, dates, times and assigned duties; evaluate data and prepare reports.

Inspect, troubleshoot and diagnose wastewater facility and equipment problems and malfunctions; repair or replace gauges, pumps, filters and various other controls, parts and equipment as necessary; maintain related records; recommend major repairs as appropriate.

Maintain and collect samples from wastewater ponds; assist in assuring accuracy of water quality readings and test and analysis results; provide input concerning related procedures to enhance accuracy and efficiency; assist with developing schedules and time lines.

Check pond and other wastewater volume levels, and flows as directed.

Assist with the application of chlorine and other water treatment-related chemicals to adjust

wastewater quality as required.

Communicate with City personnel and various outside agencies to exchange information and resolve issues or concerns.

Operate a computer and assigned software; input data and maintain various automated records and files as directed.

Maintain facilities, systems and equipment in a clean and sanitary condition.

Monitor inventory levels of laboratory supplies as assigned.

Assist with general, streets and grounds maintenance activities as needed; operate snow plows to clear streets of snow as assigned; drive a vehicle to haul and transport supplies and equipment as required.

OTHER DUTIES:

Perform related duties as assigned.

KNOWLEDGE AND ABILITIES:

KNOWLEDGE OF:

Practices, procedures, equipment and techniques involved in conducting laboratory tests and analyses to identify wastewater quality levels.

Basic principles of chemistry, physics and biology.

Appropriate safety precautions and procedures.

Gauges, meters and other monitoring equipment.

General operations of a wastewater treatment plant.

Wastewater sampling and testing techniques.

Operation of a computer and assigned software.

Oral and written communication skills.

Record-keeping and report preparation techniques.

Mathematic calculations.

ABILITY TO:

Perform a variety of activities at wastewater treatment facilities involved in maintaining safe and proper wastewater quality.

Collect wastewater samples to identify concentrations of chemical, physical and biological characteristics.

Understand practices, procedures, equipment and techniques involved in conducting laboratory tests and analyses to identify wastewater quality levels.

Inspect and monitor equipment, gauges and meters.

Interpret and record monitoring equipment and test and analysis results.

Troubleshoot, diagnose and resolve wastewater facility malfunctions.

Utilize a variety of laboratory equipment including DO meters, pH meters, ovens, lab scales, autoclaves, filters, incubators and various instruments and hand tools

Observe health and safety regulations.
Work cooperatively with others.
Meet schedules and time lines.
Communicate effectively both orally and in writing.
Prepare and compile various records, logs and reports.

EDUCATION AND EXPERIENCE:

Any combination equivalent to: graduation from high school and two years experience working with wastewater quality control functions.

LICENSES AND OTHER REQUIREMENTS:

Valid California Class B driver's license.
Valid California Wastewater Treatment Plant Grade I certification.
Incumbents must obtain valid California Wastewater Treatment Plant Operator Grade II certification within one year of employment.

WORKING CONDITIONS:

ENVIRONMENT:

Indoor and outdoor work environment.
Regular exposure to fumes, odors, gases.
Subject to noise from equipment operation.
Seasonal heat and cold or adverse weather conditions.

PHYSICAL DEMANDS:

Dexterity of hands to operate assigned tools and equipment.
Sitting for extended periods of time.
Seeing to monitor systems and test samples.
Lifting, carrying, pushing or pulling heavy objects as assigned by the position.
Bending at the waist, kneeling or crouching.
Reaching overhead, above the shoulders and horizontally.
Hearing and speaking to exchange information.

HAZARDS:

Working around machinery having moving parts.
Infectious materials from wastewater.
Chemical fumes.