



CITY OF SANTA CRUZ
SENIOR WASTEWATER COLLECTION MAINTENANCE TECHNOLOGIST

Reports to: Wastewater Collection Field Crew Leader or Wastewater Collection Manager
Supervises: Non-Supervisory
Bargaining Unit: Service

BASIC FUNCTION

Under general supervision, provides lead direction to assigned wastewater collection and stormwater systems maintenance crew; performs a variety of semi-skilled to skilled work in the inspection, construction, maintenance, and repair of the City's wastewater collection and stormwater systems; and performs related work as assigned.

DISTINGUISHING CHARACTERISTICS

This is the advanced journey-level class in the Wastewater Collection Maintenance classification series that performs the most complex duties required to ensure that that City wastewater collection and stormwater system infrastructure are maintained in a safe and effective working condition and provide the highest level of safety for public use. Incumbents in this class are assigned tasks which require the application of a more advanced skill or specialized knowledge of the techniques and tools used in wastewater collection and stormwater system maintenance and/or which require the regular use of specialized equipment. Incumbents work independently or as a lead member of a crew. This class is distinguished from the Collection Maintenance Field Crew Leader in that the latter is the first supervisory-level class in the series responsible for organizing, assigning, supervising, and reviewing the work of assigned staff involved in wastewater collection and stormwater system maintenance and repair.

TYPICAL DUTIES *(May include, but are not limited to, those duties listed below.)*

- Provides technical and functional direction to assigned wastewater collection and stormwater system maintenance staff; reviews and controls quality of work; assists in completing employee evaluations.
- Assists in planning, scheduling, prioritizing, and assigning maintenance and repair work and assignments in consultation with the Wastewater Collection Field Crew Leader; communicates status of assignments to appropriate personnel, working cooperatively to schedule assignments in accordance with established priorities and special operational priorities; instructs staff in work procedures.
- Trains employees in work methods, use of tools and equipment, and relevant safety precautions.

City of Santa Cruz

Senior Wastewater Collection Maintenance Technologist

- Assists in developing work plans, procedures, and schedules.
- Estimates time, materials, and equipment required for assigned jobs; keeps required labor, equipment, and material records and submits reports as directed.
- Maintains the City's wastewater and stormwater collection system in a safe and sanitary manner to ensure safe conditions for the City.
- Operates specialized vehicles and a variety of light, medium, and heavy equipment related to the inspection, construction, maintenance, and repair of the City's wastewater and stormwater infrastructure system, including backhoes, front-end loaders, trucks, air compressors, pneumatic hammers, concrete saws, pipe cutters, sprayers, compactors, forklifts, and rollers.
- Oversees and participates in inspection and testing of lines in the collection systems visually or using closed-circuit television devices and other specialized testing equipment.
- Cleans the collection systems using appropriate rodding or high velocity cleaner equipment; drives and operates hydraulic vacuum or flush truck.
- Inspects, maintains, and repairs wastewater and stormwater lines, mains, laterals, manholes, and cleanouts to ensure compliance with established codes.
- Enters into confined spaces such as manholes, vaults, and tanks using appropriate safety procedures and apparatus.
- Locates wastewater lines by reading maps, drawings, and street markings.
- Performs asphalt and concrete repair and patchwork; removes trees, brush, and debris to access wastewater main lines and laterals and stormwater systems.
- Uses pavement breaker to begin trenches or make minor excavations, places shoring where required, and makes necessary installations and repairs to collection system pipelines; assists in backfilling excavations and applies temporary resurfacing to repair area.
- Performs complex maintenance and repair of light, medium, and heavy equipment appropriate to the functional area of assignment; performs occasional fabrication and repair of equipment using arc and gas welding.
- Operates and maintains a variety of hand and power tools and equipment related to work assignment as instructed.
- Maintains work areas in a clean and orderly condition, including securing equipment 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 City workers.
- Applies chemicals and rodent bait to wastewater lines following appropriate safety procedures.
- Assists pump station maintenance crew as assigned.
- Responds to complaints and answers questions from public or escalates to supervisor, as necessary.
- Responds to operations, maintenance, and repair emergency situations as required.
- Maintains records and logs of daily activities; completes work orders.
- Observes safe work methods and makes appropriate use of related safety equipment, such as respiratory personal protective equipment, as required.
- Performs related duties as assigned.

City of Santa Cruz
Senior Wastewater Collection Maintenance Technologist

WORKING CONDITIONS

Position requires sitting, standing, walking on level, uneven, and slippery surfaces, reaching, twisting, turning, kneeling, bending, stooping, squatting, crouching, grasping, and making repetitive hand movements in the performance of daily duties. The position also requires both near and far vision when operating assigned equipment. The ability to lift, carry, and push tools, equipment, and supplies weighing up to 95 pounds is also required. Additionally, the incumbent in this outdoor position works in all weather conditions, including wet, heat, and cold. The incumbent may be exposed to fumes, dust chemicals, and air contaminants, vibration and moving objects, such as rotating overhead cranes, may be exposed to gasoline when fueling vehicles, and will work at heights of up to 30 feet when inspecting equipment. The nature of the work requires the incumbent to work in confined spaces, and meet respiratory requirements. The incumbent may climb ladders, use power and noise producing tools and equipment, drive motorized vehicles, and work in heavy vehicle traffic conditions.

Some of these requirements may be accommodated for otherwise qualified individuals requiring and requesting such accommodations.

MINIMUM QUALIFICATIONS

Knowledge:

- Principles, practices, tools, and materials for installing, cleaning, and repairing wastewater and stormwater collection systems.
- The operation and minor maintenance of a variety of hand and power tools, vehicles, and power equipment.
- Safety equipment and practices related to the work, including the handling of hazardous chemicals and confined space entry.
- Traffic control procedures and traffic sign regulations.
- Applicable Federal, State, and local laws, codes, and regulations relevant to assigned area of responsibility.
- Safety procedures for operating equipment and power tools.
- Techniques for providing a high level of customer service by effectively dealing with the public and City staff.

Abilities:

- Oversee activities of wastewater collection maintenance personnel.
- Inspect the work of others and maintain established quality control standards.
- Train others in proper and safe work procedures.
- Identify and implement effective course of action to complete assigned work.
- Oversee and perform semi-skilled and skilled construction, modification, maintenance, and repair work on wastewater and stormwater collection systems infrastructure such as found in the City.

City of Santa Cruz

Senior Wastewater Collection Maintenance Technologist

- Safely and effectively operate and maintain specialized maintenance and repair equipment related to wastewater and stormwater collection system inspection, cleaning, maintenance, and repair.
- Determine materials and supplies required for repair.
- Locate underground utilities in accordance with Underground Service Alert (USA) regulations.
- Set up and operate traffic area construction zones, including cones, barricades, and flagging.
- Perform work in a confined space following required confined space entry procedures.
- Read and interpret construction drawings and specifications.
- Make accurate arithmetic calculations.
- Give, as well as understand and follow oral and written instructions.
- Make sound, independent decisions within established policy and procedural guidelines.
- Maintain accurate logs, records, and basic written records of work performed.
- 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 and maintain effective working relationships with those contacted in the course of the work.

OTHER REQUIREMENTS

- Willingness to perform on-call duty assignment and call-back work as required.
- Willingness to wear a uniform.
- Must be clean shaven at all times as required to wear respiratory protection equipment.
- Must maintain compliance with respiratory requirements.
- Must reside within a 30 minute response time by the end of probationary period.

EDUCATION AND EXPERIENCE

Any combination of education and experience that provides the above knowledge, skills, and abilities combined with any required licenses is qualifying. A typical way to obtain the required qualifications is to possess the equivalent of the following:

- High school degree or equivalent; and
- Three (3) years of experience in the inspection, installation, maintenance, and repair of wastewater collection and stormwater systems, or equivalent as defined by the California Water Environment Association (CWEA).

City of Santa Cruz
Senior Wastewater Collection Maintenance Technologist

CERTIFICATES AND LICENSES:

- Possession and continued maintenance of a California Class B Driver's License with the appropriate endorsements.
- Must possess a Grade II Wastewater Collection System Maintenance Technologist Certificate issued by the California Water Environment Association (CWEA) within four (4) qualifying test cycles.
- Possession of First Aid and Cardiopulmonary Resuscitation (CPR) certification .

DESIRABLE QUALIFICATIONS

- Possession of a Grade II Wastewater Collection System Maintenance Technologist Certificate issued by the California Water Environment Association (CWEA).
- Some experience at the supervisory or lead worker level.

Classification No.: 205
Date of Issue: 2/11
Supersedes: 9/95
Updated: 10/13

Career Ladder

- Wastewater Collection Manager
- Wastewater Collection Field Crew Leader
- *Senior Wastewater Collection Maintenance Technologist*
- Wastewater Collection Maintenance Trainee/Technologist I/
Technologist II