

TREATMENT PLANT MAINTENANCE TECHNICIAN

General Statement of Duties

Performs semi-skilled to skilled technical and trades work in the maintenance and repair of pumps and equipment at the wastewater treatment plant and pumping stations.

Distinguishing Features of the Class

An employee in this class performs semi-skilled to skilled level work in the maintenance and repair of equipment and machinery at the wastewater treatment plant and pumping stations. Work involves performing preventive maintenance on all types of equipment; making daily rounds to lift stations and ensuring they are functioning properly; adding odor control; mowing grass; weed eating; cleaning around lift stations; checking, cleaning and repairing bar screens; checking the generators and topping off fluids and changing oil; and assisting the lead maintenance employee with other tasks. The employee is subject to hazards associated with water and wastewater and mechanical operations including working in both inside and outside environments, in extreme hot and cold weather, and exposure to various hazards such as loud noises, vibrations, moving mechanical parts, electrical current, working on scaffolding, exposure to chemicals fumes, odors, dusts, mists, gases, poor ventilation, and oils. The employee may be required to wear a respirator. Work around raw sewage is also subject to the final standards of OSHA on blood borne pathogens. Work is performed under the lead direction of the Treatment Plant Maintenance Mechanic/Treatment Plant Operator, evaluated by the Treatment Plant Superintendent, and is reviewed through observation, and discussion for quality, appearance and functionality.

Duties and Responsibilities

Essential Duties and Tasks

Performs preventive maintenance on all types of equipment; assists with maintenance of the treatment facility and equipment; inspects plant equipment to ensure proper operation.

Pulls and repairs pumps; tears down and rebuilds aerators; changes out capacitors.

Makes daily rounds to lift stations and ensures they are functioning properly; empties bar screen cans; washes down pits; checks, cleans and repairs bar screens; checks the generators and tops off fluids; changes oil; greases pumps and motors; checks mission units, valves, floats, etc.; adds odor control.

Participates in facility maintenance; paints around the plant; mows grass; weed eats; cleans around lift stations; removes debris from access roads; uses box blade to smooth gravel at lift stations; applies pesticides.

Drives service truck to lift stations; operates attachments used to pull pumps.

Sets up and takes down signs and unloads trucks at the wastewater and water treatment plants.

Assists the lead mechanic in maintaining and repairing pumps, motors, hydraulic systems, aerators, check valves, air release valves, impellers, mission units, lights, switches, wiring, pipes, fittings and other apparatus and equipment.

Assists the lead mechanic in rebuilding and overhauling defective parts and machinery, instrumentation and equipment.

Performs small engine repairs to lawn mowers, weed eaters, bobcats, etc.

Repairs and replaces sewer lines and pump lines as needed.

Prepares and maintains records of maintenance and repair activities.

May perform plant operations on a fill-in basis for other plant operators.

Additional Job Duties

Performs related duties as required.

Recruitment and Selection Guidelines

Knowledge, Skills, and Abilities

Knowledge of the installation, repair, and maintenance of the mechanical, plumbing, and hydraulic components of treatment plants and pumping stations.

Knowledge of the hazards and necessary safety precautions of the work.

Knowledge of the tools, parts, and methods associated with diagnosing, repairing, and maintaining equipment.

Working knowledge of biological, chemical and other treatment plant operations.

Skill in the operation and care of equipment and tools utilized in the work.

Ability to detect malfunctioning of pumps and motors by observation, sound, and chart readings, and to take proper remedial action.

Ability to read and follow schematic drawings, blueprints, and written and oral instructions.

Ability to understand and follow oral and written instructions.

Ability to establish and maintain effective working relationships with supervisors, co-workers, other employees and the general public.

Ability to prepare and maintain accurate records of work activities and prepare reports.

Physical Requirements

Must be able to physically perform the basic life operational functions of climbing, balancing, stooping, kneeling, crouching, crawling, reaching, standing, walking, pushing, pulling, lifting, fingering, grasping, feeling, talking, hearing, and repetitive motions.

Must be able to perform heavy work exerting up to 100 pounds of force occasionally; 50 pounds of force frequently; and 20 pounds constantly to move objects.

Must possess the visual acuity to operate machines and equipment including close inspection of moving and small parts, use measurement devices, perform mechanical and skilled trades tasks, and prepare maintenance records.

Desirable Education and Experience

Graduation from high school and some experience in the mechanical or plumbing trades, preferably including experience in pump repair; or an equivalent combination of education and experience.

Special Requirement

Possession of a valid NC driver's license; possession of appropriate NC Wastewater Operator certification or ability to obtain within the time frame specified by the City.