



## **City of Newburyport**

### **Department of Public Services, Sewer Division**

#### **AFSCME Union**

#### **Waste Water Treatment Plant Mechanic**

#### **Grade 16**

#### **Job Description**

##### **Position Purpose:**

The purpose of this position is to perform skilled technical mechanical work in connection with maintenance of all mechanical equipment and pump systems located at the wastewater facilities. An individual in this position is also expected to perform many different types of maintenance and repair work and manual labor in addition to driving CDL vehicles. A WWTP Equipment Mechanic is responsible for maintaining and improving upon the efficiency and effectiveness of all areas under his/her direction and control.

##### **Supervision:**

*Supervision Scope:* Performs varied mechanical and responsible duties requiring knowledge of department standard operating procedures and the exercise of judgment and initiative to accomplish competent service delivery; works independently and in combination with others.

*Supervision Received:* Works under the general direction of the DPS Maintenance Foreman/Inspector, Assistant Chief Operator or Chief Operator of the Wastewater Treatment Plant; follows established department general and special orders, rules, regulations, policies and procedures.

*Supervision Given:* Provides instructions to WWTP Preventative Maintenance Mechanic when working together

##### **Job Environment:**

Work is performed in a Wastewater Treatment Plant, pump stations, yard or driving vehicle; usually noise levels are loud. Position entails driving and is subject to exposure to hazardous substances or materials and raw sewage; working near mechanical moving parts; may work in high precarious places. Work is performed mostly inside and occasionally out-of-doors in all weather conditions.

Requires the operation of light and heavy trucks and equipment including but not limited to: crane truck, bobcat and CDL vehicles. Also requires the operation of hand tools and power tools, welding equipment, precision tools. Occasionally uses a ladder for cleaning and repairing equipment.

Most contacts are with fellow employees in the department or other city departments.

**Essential Functions:**

*(The essential functions or duties listed below are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is similar, related or a logical assignment to the position.)*

- Maintains, overhaul, repair or replace a wide variety of equipment used at the Wastewater Treatment Facilities including; pumps, valves, air compressors, gears, piping, hydraulic or pneumatic equipment, etc. Performs routine maintenance on this same equipment
- Performs preventative maintenance services on equipment to include: oil filter changes on auxiliary and emergency generators; oil filter & lube of light trucks and other equipment.
- May assists with the cleaning, flushing and checking of sewer pipelines; maintains records of these activities
- Ability to read, interpret and record data from meters, gauges, scales, panels, computer consoles and other equipment.
- May transport and deliver sludge to compost facility
- Assist with plant operations as needed such as: operating belt filter press; monitor gages, meters and control panels; start and stop pumps, engines and generators to control and adjust flow and treatment process, etc.
- Loads and unloads heavy materials from vehicles; performs stocking operations.
- Performs other heavy laboring and various skilled and semi-skilled tasks essential to wastewater operations using a wide variety of power, pneumatic and hand tools.
- Assists with preparing, maintaining and performing job site and work safety practices.
- Is subject to call out to respond to emergencies after normal working hours.
- Operates and checks vehicles, attachments and tools for correct fluid levels, pressures and general operating condition. Services, maintains, clean and washes vehicles and equipment.
- Performs fabrication of mechanical parts as needed for equipment repair or modification.
- Performs facility maintenance including cleaning equipment, facilities and grounds as required.

**Other Functions:**

- May operate Trailer if have class A license
- Performs labor-intensive jobs as needed.
- Performs related work as required

**Minimum Required Qualifications:****Education, Training and Experience:**

Must have a High School Diploma or GED with 2 -5 years of advanced training/experience in WWTP maintenance and operation systems plus mechanical/plumbing work experience, heavy vehicle driving experience; or any equivalent combination of education, experience and training. Must have ability to operate Computer Maintenance Management System (software) All employment offers are conditional upon passing a reference and Criminal Offender Record Information (CORI) check

**Special Requirements**

Must possess a valid driver's license. Must have or be able to obtain within 3 months of employment a Commercial Driver's License (CDL) Class B with airbrakes endorsement. Must have or be able to obtain within 6 months of employment a Massachusetts Hoisting Engineer license with 2A and 1C endorsements. Must submit to CDL Drug testing regulations. Grade 4 Wastewater Treatment Certification preferred.

**Knowledge, Ability and Skill:**

**Knowledge:** Working knowledge of Wastewater Treatment Plant operations; thorough knowledge of proper tools used for repair of a variety of equipment which may include pumps, engines, generators, valves, gates, mixers, conveyors, blowers, chemical feed and odor control, disinfection equipment, sludge processing equipment; knowledge of wastewater treatment operations and systems; ; thorough and demonstrated mechanical and plumbing knowledge; demonstrated proficiency of replacing pump seals, shaft sleeves and packing. Knowledge of confined space entry and lock-out/tag-out safety procedures; thorough knowledge of the safe practices of driving heavy vehicles.

**Ability:** Ability to follow written and oral instructions; ability to work as a team with others to accomplish a project; ability to read and follow safety procedures; ability to perform basic mathematical calculations ability to perform physical labor is necessary; ability to enter confined spaces.

**Skill:** Skill in using CDL vehicles and various power tools and hand tools; mechanical and plumbing skills. Must be able to demonstrate proper use of Mig and Arc Welding equipment. Must be able to demonstrate use and proficiency of precision tools including, but not limited to, dial indicators, micrometers, caliper measuring devices, torque wrench, etc.

**Errors and Omissions:**

Errors could result in injury to other employees, damage to buildings or equipment, liability from personal property damage and delay in service or the cost to rework a repair/maintenance projects.

**Physical and Mental Requirements:**

While performing the functions of this job, the employee is required to stand, walk and listen for extended periods; may come in contact with toxic or caustic chemicals and risk of electrical shock; is frequently required to talk; uses hands to finger, handle, or feel objects, tools, or controls; reaches with hands and arms; kneels and bends to work on equipment or projects; occasionally sits to drive; employee must be able to access all levels of a wastewater facilities and enter confined spaces; specific vision abilities required include close and distance vision, peripheral and depth perception and the ability to adjust focus; ability to operate a vehicle and equipment accurately and efficiently; ability to frequently lift up to 75 lbs. and occasionally lift up to 100 lbs.; must be able to hear normal sounds, distinguish sound as voice patterns or vehicle sounds and communicate through human speech.

*(This job description does not constitute an employment agreement between the employer and employee. It is used as a guide for personnel actions and is subject to change by mutual agreement between the Union and the employer as the needs of the employer and requirements of the job change.*

