

## **WATER TREATMENT PLANT OPERATOR** **TYPE A PLANT**

### **DISTINGUISHING FEATURES OF THE CLASS:**

This responsibility during a shift for the safe and efficient operation and maintenance of a Type A Water Treatment Plant containing facilities for filtration with pretreatment or a chemical softening process. The work is performed as prescribed in Federal, State and local laws and regulations, and under the direct supervision of the Chief Water Treatment Plant Operator with some freedom allowed to exercise independent judgement in carrying out the work. An incumbent exercises no supervision, but may oversee the work of a Water Treatment Plant Operator Trainee and subordinate employees. Does related work as required.

### **TYPICAL WORK ACTIVITIES:**

Operates pumps, valves, motors, compressors and related plant equipment;

Maintains and repairs pumps, valves, motors, compressors and related plant equipment;

Maintains records of meter, gauge and scale readings as well as weather data;

Backwashes filtration beds, settling basins and sandwashing system in sand plants;

Monitors filter media and replaces it when needed;

Regulates and adjusts chlorinators;

Samples and tests water for control of plant performance and operation and performs basic laboratory procedures including preparing distilled water and buffer solutions;

Performs preventive and routine maintenance of plant equipment including equipment related to turbidity and telemetry;

Assists the Chief Operator in monitoring, inspecting and investigating complaints regarding the city watershed;

Performs routine building maintenance and basic building repairs including custodial duties;

**WATER TREATMENT PLANT OPERATOR TYPE A PLANT** – contd.

May monitor the city's hydroelectric plants and upper and lower pump stations to ensure proper functioning;

Receives sewer and water related calls after hours and notifies service people as needed;

Reports orally and in writing to Chief Operator as required;

Leads and supervises in shift work involving Wastewater Plant Attendants, Laborers and temporary and seasonal employees.

**FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONNEL CHARACTERISTICS:**

Good knowledge of the principles and practices involved in operating and maintaining a Type A Water Treatment Plant;

Good knowledge of the materials, equipment and chemicals involved in operating and maintaining a Type A Water Treatment Plant;

Good knowledge of the principles and practices involved in patrolling and inspecting a watershed including the common causes of watershed pollution and contamination;

Good knowledge of Federal, State and local laws and regulations applicable to a Type A Water Treatment Plant and watershed patrol and inspection;

Working knowledge of laboratory principles and practices, equipment, materials and chemicals as they related to water treatment testing;

Working knowledge of the principles and practices and equipment and materials involved in operating and maintaining a water transmission and distribution system;

Working knowledge of Federal, State and local laws and regulations applicable to operating and maintaining a water transmission and distribution system;

Working knowledge of the physical sciences as they relate to water purification;

Working knowledge of office record keeping and log keeping;

Ability to lead and participate in work involving other employees;

Ability to establish and maintain effective working relationships with others;

**WATER TREATMENT PLANT OPERATOR TYPE A PLANT** – contd.

Ability to understand and follow complex oral and written instructions;

Ability to communicate effectively both orally and in writing.

**MINIMUM QUALIFICATIONS:**

Possession of a Grade II-A Water Treatment Operator certificate issued under the provisions of the New York State Sanitary Code at time of appointment.