

Jurisdictional Class: Competitive
EEO Category: Technicians
Revised: 01/15/2020

WATER RESOURCES CHEMIST

DISTINGUISHING FEATURES OF THE CLASS: This position involves three (3) areas of responsibility: Laboratory Director, Pretreatment Program Manager, and Administrative Assistant. The work is performed under the general direction of the Chief Wastewater Treatment Plant Operator, with leeway allowed for the exercise of independent judgment in carrying out the details of the work. Supervision is exercised over the work of pretreatment personnel, and laboratory personnel. The incumbent performs related work as required.

TYPICAL WORK ACTIVITIES: (Illustrative Only)

Supervises and directs two separate groups of professional level technical employees: the laboratory staff and the pretreatment staff;
Primarily functions as Laboratory Director, which requires leading, organizing, and assigning complex chemical and bacteriological examinations used for effluent monitoring, process control and pretreatment testing;
Responsible for managing the requirements of state and federal laboratory accreditation agencies;
Oversees the collection and analysis of wastewater samples by laboratory and operational personnel;
Oversees the collection and analysis of industrial waste samples from the collection system and industrial sites throughout the Sewer District by pretreatment and laboratory personnel;
Performs daily review of pretreatment activities, determines the daily goals necessary to satisfy regulatory requirements;
Works as an interface between the regulatory agencies and the Sewer District in conjunction with the Commissioner;
Reviews, prepares and maintains many types of technical reports necessary to keep the sewer district in regulatory compliance;
Meets with industrial representatives and develops solutions to persistent environmental problems that could result in regulatory penalties;
Provides technical assistance to senior staff on aspects regarding the discharge permit as may be required to satisfy the numerous complex regulatory demands of operating a regional sewer district.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS: Thorough knowledge of modern laboratory practices, terminology and safety precautions; thorough knowledge of analytical chemistry and bacteriology related to examination of water, waste-water, industrial wastes and other materials; thorough knowledge of instrumental analysis; thorough knowledge of use and storage of chemicals; thorough knowledge of accepted quality assurance and quality control procedures for laboratories; thorough knowledge of Federal Pretreatment Program requirements and the industrial processes regulated by this program; thorough knowledge of permit writing, analytical reporting, enforcement procedures, and regulatory reporting requirements for the pretreatment program; ability to comprehend a basic understanding of the operation, control and maintenance of a wastewater treatment

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FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS cont'd: facility; skill in the operation and care of laboratory equipment; ability to direct and supervise, on a daily basis, the work of professional-level technically-trained staff in the laboratory and in the pretreatment area; ability to understand and follow complex technical oral and written instructions; sound professional judgment.

MINIMUM QUALIFICATIONS: Either:

- (A) Graduation from a regionally accredited or New York State registered college or university with a Master's Degree in sanitary or wastewater chemistry or a closely related field; **OR**
- (B) Graduation from a regionally accredited or New York State registered college or university with a Bachelor's Degree in chemistry, bacteriology or a closely related field, **AND** one (1) year of laboratory experience involving sanitary chemistry.

SPECIAL REQUIREMENT: Possession of a valid New York State driver's license at time of appointment. License must remain valid throughout appointment.

Adopted: 03/02/1982
Revised: 09/25/1996; 03/30/2009; 01/15/2020