

WASTEWATER TREATMENT PLANT LAB TECHNICIAN I

GENERAL STATEMENT OF DUTIES

Performs routine technical work in performing chemical and bacteriological tests of wastewater.

DISTINGUISHING FEATURES OF THE CLASS

An employee in this class performs a variety of standardized tests of wastewater samples. Duties include setting up flow measuring and sample collection equipment for industrial effluent monitoring, collecting and analyzing stream samples and training new employees. Some independent judgment and initiative are required in administering tests and setting up sample collection equipment. Work is performed under the general supervision of the Lab Chemist, and is evaluated through observation and overall efficiency of duties performed.

ILLUSTRATIVE EXAMPLES OF WORK

Performs biological, chemical, and bacteriological tests as related to the operational controls for wastewater treatment facilities.

Calculates and completes daily operational reports, and compiles data for state reports.

Analyzes samples for COD, TSS, pH, chlorine, and ammonia. Performs required quality control and detailed paperwork associated with these tests.

Analyzes samples for TS, TVS, pH, alkalinity, and volatile acid content. Performs required quality control and associated paperwork to assist in plant process control.

Assists with BOD setup and analysis.

Analyzes stream samples for conductivity and fecal coliform parameters. Performs required quality control and detailed paperwork associated with these tests.

Assists in scheduling sample collection with operators for analysis by outside laboratory.

Prepares solutions and reagents.

Assists in interpreting laboratory tests and preparing required reports.

Assists in maintaining an inventory of chemicals, solutions, culture media, required forms and other laboratory equipment.

Performs required preventative maintenance on laboratory equipment and records as required by the State; maintains a clean working environment.

Performs related work as required.

KNOWLEDGES, SKILLS AND ABILITIES

Working knowledge of laboratory procedures and sample collection methods.

Working knowledge of the principles of organic and inorganic chemistry.

Working knowledge of the hazards of laboratory safety requirements.

Ability to prepare laboratory reagents and assemble laboratory apparatus for chemical and biochemical analysis.

Ability to take sewage samples and perform the necessary laboratory test.

Ability to understand and follow oral and written instructions.

DESIRABLE EXPERIENCE AND TRAINING

Graduation from a two year community college or technical institute with a concentration in chemistry, biology, or a related field; minimum of two years of laboratory experience; or an equivalent combination of education and experience.

SPECIAL REQUIREMENTS

Some weekend and holiday work may be required to read and record laboratory tests.