

WATER LAB TECHNICIAN

PURPOSE:

Collect, test and analyze water and other related samples to determine the physical, chemical and bacteriologic components.

FUNCTIONS:

1. Collect, test and analyze water and other related samples to determine their physical, chemical, and bacteriologic components.
 - * A. Collect samples from various locations in a valid manner consistent with good laboratory practice.
 - * B. Analyze samples either collected or provided using laboratory equipment to determine the physical, chemical, and bacteriologic components.
 - * C. Record all findings for reference and reporting purposes.
 - * D. Produce reports as necessary and on a regular basis.
 - * E. Utilize good laboratory practice to prevent cross-contamination and inaccurate results.
 - * F. Maintain a current knowledge of water chemistry, bacteriology, water quality assurance, MDH and EPA certified procedures, and related fields relevant to this work.
 - * G. Maintain a constant awareness of safe work practices.
 - H. Provide information to assist operators in resolving chemical treatment questions.

2. Perform related tasks as necessary.
 - A. Maintain the assigned spaces in a clean, safe, and orderly condition.
 - B. Perform routine maintenance on equipment assigned, including the calibration, maintenance, and service of laboratory and process control instrumentation.
 - C. Assist in maintaining and repairing water treatment equipment, including but not limited to pumps, generators, fans, feeders, flocculators, and filters as assigned.
 - D. Interact with the public and other agencies.
 - E. Respond to customer complaints and questions.

REQUIREMENTS:

EDUCATION:

- † A. College level course work in chemistry and bacteriology.

KNOWLEDGE:

- + A. Extensive knowledge of water chemistry.
- + B. Extensive knowledge of safe and effective laboratory practice and procedure.
- + C. Knowledge of chemistry and bacteriology and related laboratory analysis procedures.
- + D. Knowledge of effective sampling and monitoring procedures.
- + E. Knowledge of computerized information systems and spreadsheets.

SKILL:

- + A. Skill in the safe use of laboratory equipment to determine the physical, chemical, and bacteriologic components of water.

ABILITY:

- + A. Ability to attend work on a regular basis in accordance with a pre-determined schedule.
- + B. Ability to perform routine laboratory tests and sampling duties in the field.
- + C. Ability to understand and interpret laboratory test results.
- + D. Ability to communicate effectively across multiple media.
- + E. Ability to lift and transport laboratory samples and equipment weighing up to 25 pounds.
- + F. Ability to transport oneself to, from, and around various locations within the City of Duluth to collect samples.

* Essential functions of the classification.

+ Minimum classification requirements necessary on the first day of employment.

HR: CT	Union: Basic	EEOC: Technicians	CSB: 07/05/2005	Class No: 3232
WC: 7520	Pay: 27	EEOF: Utilities/Transportation	CC: 10/24/2005	Resolution: 05-0687R