



# CITY OF OMAHA CLASS SPECIFICATION

**CLASSIFICATION TITLE: WASTEWATER MONITORING TECHNICIAN**

**BARGAINING UNIT:** [CIV BARGAINING](#)

**CODE NUMBER:** 5560

**PAY RANGE CODE:** [03120](#)

**REVISION DATE:** 8/31/17

## **NATURE OF WORK:**

This is technical work in the sampling and flow measurement of wastewater and combined sewage and data collection and verification of the assets that make up the collection system. Incumbents may be required to install and position flow measurement devices, take readings and samples, record into the computer system, and utilize closed circuit televised equipment (CCTV) to inspect sewers. Incumbents will utilize instruments to assist in maintaining asset information on the collection system including survey and GPS equipment. Incumbents will prepare reports for others to review and analyze to assist in the management of the collection system. Incumbents will work both independently and under the direction of others in their daily work assignments.

**ESSENTIAL FUNCTIONS:** *(Any one position may not perform all the duties listed, nor do the listed examples include all the duties that may be performed in positions allocated to this class.)*

Locates sites which may include sampling, flow monitoring, and CCTV inspections using sewer maps, industry maps, blueprints, and the Geographic Information System (GIS).

Installs, positions, and maintains flow measurement, sampling devices, and CCTV inspection equipment in manholes.

Collects flow meter readings and sampling data to assist in the determination and justification of user classifications and billing rates to assist in the capacity analysis of the collection system, and to compile data required for submittal for any of the City of Omaha's permits to discharge.

Utilizes CCTV equipment to create video and written reports of sewer mains inspections following current industry best practices.

Enters meter reading and sampling data into a computer.

Analyzes flow information and samples by reviewing information retrieved from measurement devices, performing calculations on the data, and comparing results to pre-determined guidelines.

Coordinates sampling dates with industry representatives and explains process and results. Also inspects industries to ensure compliance with municipal codes.

Investigates sewer use exemption requests and back-ups.

Prepares reports based on sampling and inspection results.

Calibrates flow meters, recorders, printers, and CCTV equipment. Also cleans, oils, repairs, and tests equipment.

Investigates and collects asset management data on the sewer collection and conveyance system utilizing survey, GPS, and other equipment. Checks and collects the data to ensure accuracy prior to entry to the City of Omaha's GIS.

Maintains regular job attendance in accordance with a schedule established for the position by the supervisor.

Performs other related duties as assigned or as the situation dictates within the scope of this classification.

**REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES:**

Knowledge of and ability to operate a computer or other technology using standard or customized computer or systems software applications appropriate to the assigned tasks.

Knowledge of or demonstrates ability to obtain knowledge of flow measurement and sampling equipment and operation.

Knowledge of or demonstrates ability to obtain knowledge of survey and GPS equipment.

Knowledge of or demonstrates ability to obtain knowledge of CCTV equipment.

Knowledge of safety precautions to be observed when working in manholes.

Knowledge of wastewater collection systems.

Knowledge of mathematics including algebra and geometry.

Knowledge of work zone safety.

Ability to learn and adapt to advances in computer and electronics device technology and software.

Ability to operate utility locating equipment.

Ability to read and interpret maps and blueprints.

Ability to measure within 1/64 of an inch.

Ability to calculate averages, percentages, standard deviations, and other mathematical formulas using a calculator.

Ability to communicate effectively with the general public and industry representatives.

Ability to understand oral or written instructions.

Ability to establish and maintain effective working relationships with fellow employees and members of the general public.

Ability to adhere to safety policies, procedures, and guidelines.

Ability to work in a confined space and to climb in and out of manholes with 24" diameter access.

Ability to climb, reach, balance, bend, stoop, squat, stand, walk, and lift up to eight hours or more.

Ability to move objects weighing over one hundred (100) pounds up to 33% of the time; objects weighing from twenty (20) to fifty (50) pounds up to 66% of the time; and objects weighing up to twenty (20) pounds 67 to 100% of the time.

**EDUCATION AND EXPERIENCE:** *(The knowledge, skills, and abilities above may be acquired through, but are not limited to, the following combination of education and/or experience.)*

High school graduation or its equivalent.

AND

One (1) year experience working with wastewater collection and/or treatment, survey, GPS data collection, or CCTV operation.

### **SPECIAL QUALIFICATIONS**

Must be able to work weekends and outside normal duty hours.

Must obtain a Class B commercial driver's license with an N endorsement within six (6) months of hire.

**WORKING CONDITIONS:** *(The conditions herein are representative of those that must be met by the employee to successfully perform the essential functions of the job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.)*

Work is performed primarily outdoors in manholes and sewer lines with exposure to insects and rodents, extreme temperatures ranging from below 32 degrees to above 100 degrees, high noise levels, confined spaces, chemicals, humidity, fumes, odors, dusts, mists, and gases.

**EQUIPMENT OPERATION:** *(Any one position may not use all of the tools and equipment listed nor do the listed examples comprise all of the tools and equipment that may be used in positions allocated to this classification.)*

Flow Meter  
Ramset Gun  
Scott Air Pack  
Computer  
Surveying Equipment  
Electronic Locating Equipment

Sampler  
Statistical Calculator  
Air Blowers  
Metal Detector  
Automotive Equipment

Drill  
Gas Detector  
Mobile Radio  
Power Saws  
CCTV Equipment

Previous Revision Date(s): 3/25/93  
6/28/07