



**American Water Works
Association**

Dedicated to the World's Most Important Resource®

ANSI/AWWA G520-17

AWWA Management Standard

Wastewater Collection System Operation and Management

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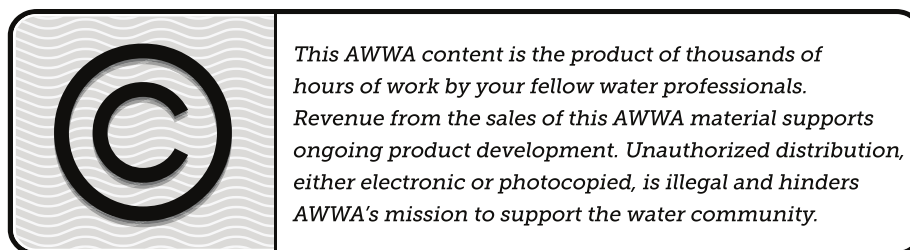
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Foreword

This foreword is for information only and is not a part of ANSI/AWWA G520.*

I. Introduction.

I.A. *Background.* The AWWA utility management standards are designed to serve water, wastewater, and reuse utilities—hereafter referred to as the *water sector*—and their customers, owners, service providers, and government regulators. The standards developed under the program are generally intended to improve a utility's overall operations and service. One aspect of the standards program is an effort to establish formal management and operations guidelines. These guidelines identify appropriate practices, procedures, and behaviors the implementation of which will promote effective and efficient utility operations and contribute to protection of public health, public safety, and the environment.

AWWA's standards process has been used for more than 90 years to produce American National Standards Institute (ANSI)—approved standards for materials and processes that are used by the water sector. These standards are recognized worldwide and have been adopted by many utilities and organizations. Likewise, this performance standard is developed using the same ANSI-recognized formal process. Volunteer standards committees establish standard practices in a uniform and appropriate format.

Formal standards committees have been and continue to be formed to address the individual standards practices for the diverse areas of water sector operation. A formal standards committee was created in 2001 to develop standards for distribution system operation and management, water treatment plant operation and management, and source water management. This standard on wastewater collection system operation and management is the outcome of the Wastewater Collection Systems Operation and Management Standards Committee.

I.B. *History.* This is the first edition of this standard. It was approved by the AWWA Board of Directors on Jan. 14, 2017.

I.C. *Acceptance.* ANSI/AWWA G520 does not address additives requirements. Users of this standard should consult the appropriate state or local agency having jurisdiction in order to

1. Determine the status of certifications by parties offering to certify products for contact with, or treatment of wastewater, including reclaimed water.
2. Determine current information on product certification.

* American National Standards Institute, 25 West 43rd Street, Fourth Floor, New York, NY 10036.

II. Special Issues.

II.A. *Advisory Information on Application of Standards.* This standard includes only those requirements that are limited exclusively to the operation and management of a wastewater collection system. Separate standards will cover utility programs such as emergency preparedness, security, business practices, wastewater treatment, source water protections, and overall utility management.

III. Use of This Standard. It is the responsibility of the user of an AWWA standard to determine that the products described in that standard are suitable for use in the particular application being considered.

III.A. *User Options and Alternatives.* The following information should be provided by the purchaser.

1. Standard used—that is, ANSI/AWWA G520, Wastewater Collection System Operation and Management, of latest revision.

2. Details of other federal, state and provincial, and local requirements (Sec 4.1.1).

III.B. *Modification to Standard.* Any modification of the provisions, definitions, or terminology in this standard must be provided by the purchaser.

IV. Major Revisions. This is the first edition of this standard.

V. Comments. If you have any comments or questions about this standard, please call the AWWA Engineering and Technical Services at 303.794.7711, FAX at 303.795.7603; write to the department at 6666 West Quincy Avenue, Denver, CO 80235-3098; or email at standards@awwa.org.



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AWWA Management Standard

Wastewater Collection System Operation and Management

SECTION 1: GENERAL

Sec. 1.1 Scope

This standard describes the critical requirements for the effective operation and management of a wastewater collection system.

Sec. 1.2 Purpose

The purpose of this standard is to define the minimum requirements for the operation and management of a wastewater collection system, including maintaining infrastructure and operation and maintenance (O&M) of facilities.

Sec. 1.3 Application

This standard can be referenced in the evaluation of wastewater collection systems operation and management. The stipulations of this standard apply when this document has been referenced and then only to the operation and management of wastewater collection systems.

SECTION 2: REFERENCES

This standard references the following documents. In their latest editions, they form a part of this standard to the extent specified within the standard. In any case of conflict, the requirements of this standard shall prevail.

ANSI/AWWA G400—Utility Management System.

ANSI/AWWA G430—Security Practice for Operation and Management.

ANSI/AWWA G440—Emergency Preparedness Practices.

ANSI/AWWA G510—Wastewater Treatment Plant Operation and Maintenance.

USEPA—*Guide for Evaluating Capacity, Management, Operation, and Maintenance (CMOM) Programs at Sanitary Sewer Collection Systems*.

SECTION 3: DEFINITIONS

The following definitions shall apply in this standard:

1. *Capacity, management, operations, and maintenance (CMOM)*: A flexible, dynamic framework for municipalities to identify and incorporate widely accepted wastewater industry practices to

- a. Better manage, operate, and maintain collection systems.
- b. Investigate capacity constrained areas of the collection system.
- c. Respond to sanitary sewer overflow (SSO) events.

2. *Collection system*: A system composed of gravity pipes, manholes, tanks, lift stations, control structures, and force mains that gather used water from residential and nonresidential customers and convey the flow to the wastewater treatment plant.

3. *Combined sewer overflow (CSO)*: Overflows in the combined system resulting from defective materials, system blockages, joint failures, line breaks, wet-weather events, and other activities that discharge a combination of raw sewage and stormwater from within the system onto adjacent areas.

4. *Corrective maintenance*: A maintenance task performed to identify, isolate, and rectify a fault in an asset so that it can be returned to a condition that allows it to perform its intended function.

5. *Documented procedure*: A procedure that is established, documented, implemented, and maintained.