THE GENERAL ASSEMBLY OF PENNSYLVANIA

SENATE BILL No. 597 Session of 2021

INTRODUCED BY STEFANO, MENSCH, SCAVELLO, LAUGHLIN AND COLLETT, APRIL 21, 2021

REFERRED TO CONSUMER PROTECTION AND PROFESSIONAL LICENSURE, APRIL 21, 2021

AN ACT

1 2 3	Amending Title 27 (Environmental Resources) of the Pennsylvania Consolidated Statutes, in special programs, providing for water quality accountability.
4	The General Assembly of the Commonwealth of Pennsylvania
5	hereby enacts as follows:
6	Section 1. Title 27 of the Pennsylvania Consolidated
7	Statutes is amended by adding a chapter to read:
8	<u>CHAPTER 67</u>
9	WATER QUALITY ACCOUNTABILITY
10	<u>Sec.</u>
11	<u>6701. Scope.</u>
12	<u>6702. Definitions.</u>
13	<u>6703. Asset management plan.</u>
14	6704. Critical valve inspections and testing by water system
15	<u>operator.</u>
16	<u>6705. Meters.</u>
17	6706. Lead service line replacements.
18	6707. Development of cybersecurity system.

1	6708. Annual information to customers.
2	6709. Regulations.
3	6710. Contingency for public funding.
4	<u>6711. Enforcement.</u>
5	<u>§ 6701. Scope.</u>
6	This chapter relates to water quality accountability.
7	<u>§ 6702. Definitions.</u>
8	The following words and phrases when used in this chapter
9	shall have the meanings given to them in this section unless the
10	context clearly indicates otherwise:
11	"Commission." The Pennsylvania Public Utility Commission.
12	"Community sewerage system." A publicly or privately owned
13	community sewage system that uses a method of sewage collection,
14	conveyance, treatment or disposal other than renovation in a
15	soil absorption area or retention in a retaining tank.
16	"Critical valve." A valve that is identified as critical by
17	a water system operator, including a valve that is:
18	(1) located at a hospital or nursing home;
19	(2) located at an interconnection with a purveyor;
20	(3) a regulator control valve;
21	(4) a system valve that, if nonfunctioning, would cause
22	widespread disruption to a service area; or
23	(5) a valve in a facility, such as a treatment plant,
24	pump station, storage tank or well, that is needed to isolate
25	or operate the facility.
26	"Department." The Department of Environmental Protection of
27	the Commonwealth.
28	"Lead service line." A water service pipe made of lead that
29	connects a water main to a building inlet and a lead "pigtail,"
30	"gooseneck" or other fitting that is connected to the water
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1 <u>service pipe.</u>

2	"Public water system." A system for the provision to the
3	public of water for human consumption through pipes or other
4	constructed conveyances, if the system has at least 15 service
5	connections or regularly serves an average of at least 25
6	<u>individuals daily at least 60 days during a calendar year.</u>
7	"Water system operator." Any person or entity that owns or
8	operates a public water system or community sewerage system.
9	<u>§ 6703. Asset management plan.</u>
10	(a) Duty to implementBeginning no later than 12 months
11	after the effective date of this section, a water system
12	operator shall implement an asset management plan designed to
13	inspect, maintain, repair and renew its water and wastewater
14	infrastructure consistent with standards established by the
15	American Water Works Association and Water Environmental
16	Federation. The asset management plan shall include:
17	(1) A water main renewal program designed to achieve a
18	replacement recycle of no greater than 100 years as
19	determined by a detailed engineering analysis of the asset
20	material of construction, condition and estimated service
21	life remaining of the water mains serving the public water
22	system and the failure or low conveyance capability for fire
23	<u>flow.</u>
24	(2) A wastewater main renewal program designed to
25	achieve a replacement cycle or rehabilitation cycle no
26	greater than 100 years as determined by a detailed
27	engineering analysis of the asset material of construction
28	and condition, including the condition and type of main-to-
29	service connection and estimated service life remaining of
30	the wastewater mains serving the public wastewater system.

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1	(3) A water supply and treatment program designed to
2	inspect, maintain, repair, renew and upgrade wells, intakes,
3	pumps and treatment facilities in accordance with all Federal
4	and State regulations, standards established by the American
5	Water Works Association and the Water Environmental
6	Federation and any mitigation plan required under this
7	<u>chapter.</u>
8	(4) A sewer inspection program shall be created in
9	accordance with the NASSCO Pipeline Assessment Certification
10	Program (PACP).
11	(5) An initial schedule for the planned repair and
12	replacement of water and wastewater infrastructure over a
13	specified time period.
14	(6) A general description of the location of the water
15	and wastewater infrastructure, including a map.
16	(7) A reasonable estimate of the quantity of water and
17	wastewater infrastructure to be improved and an estimated
18	timeline in which the assets will be repaired or replaced.
19	(8) Projected annual expenditures to implement the plan
20	and measures taken to ensure that the plan is cost effective.
21	(9) The specific criteria used by the water system
22	operator to identify critical valves and their current
23	condition and a map identifying each one.
24	(b) Annual dedication of moneyEach water system operator
25	shall dedicate money on an annual basis to address and remediate
26	the highest priority projects as determined by its asset
27	<u>management plan.</u>
28	(c) Report to departmentA water system operator shall
29	post on its publicly accessible Internet website and provide an
30	annual report to the commission or department based on the

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1 operator's asset management plan prepared under this section.

2 The report shall include:

3	(1) A description that specifies all water and
4	wastewater infrastructure repaired, improved and replaced and
5	the associated costs in the immediately preceding 12-month
6	period according to the asset management plan. The report
7	shall also include a detailed description of inability to
8	execute pipe improvements as planned and how that has or will
9	be addressed so that the plan may be achieved.
10	(2) A detailed description of all water and wastewater
11	infrastructure to be improved in the upcoming 12-month period
12	and the estimated cost of the improvement.
13	(d) Centralized portal to be createdThe department shall
14	create a centralized portal allowing for electronic submittal of
15	the report required under subsection (c). The lack of a
16	centralized portal shall not affect the duty to submit a report
17	<u>under subsection (c).</u>
18	<u>§ 6704. Critical valve inspections by water system operator.</u>
19	(a) Duty to inspect and repair or replace critical valves
20	<u>A water system operator shall inspect each critical valve in its</u>
21	public water system in accordance with the provisions of
22	subsection (b) in order to determine:
23	(1) accessibility of the valve for operational purposes;
24	and
25	(2) the valve's operating condition.
26	<u>A water system operator shall repair or replace a valve found</u>
27	<u>to be broken or otherwise not operational.</u>
28	(b) Frequency of inspectionsA water system operator shall
29	inspect each critical valve consistent with a plan filed with
30	the commission or the department, no less than every five years.

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1	At a minimum, a valve inspection conducted pursuant to this
2	subsection shall include:
3	(1) clearing of the area around the valve to ensure full
4	access to the valve for operating purposes;
5	(2) cleaning out of the valve box;
6	(3) dynamic testing of the valve, by opening and then
7	closing the valve for either of the following number of
8	turns:
9	(i) recommended by the valve manufacturer to
10	constitute a credible test or the number of turns which
11	constitutes 15% of the total number of turns necessary to
12	completely open or completely close the valve; and
13	(ii) complying with any other criteria as may be
14	required by department rules and regulations.
15	(c) Annual fire hydrant inspectionA water system operator
16	shall annually inspect at least 33% of the fire hydrants in its
17	system in order to determine the hydrant's working condition.
18	The water system operator shall formulate and implement a plan
19	for flushing fire hydrants and at dead ends of water mains in
20	the public water system and as water quality needs dictate. The
21	plan for flushing may be combined with the periodic testing of
22	fire hydrants otherwise required.
23	(d) Recordkeeping and marking of fire hydrants
24	(1) A water system operator shall keep a record of all
25	inspections, tests and flushings conducted under this section
26	for a period of at least six years.
27	(2) A water system operator that owns, solely or
28	jointly, a fire hydrant shall mark the hydrant with the
29	initials of its name, abbreviation of its name, corporate
30	symbol or other distinguishing mark or code by which

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1	<u>ownership may be readily an</u>	d definitely ascertained. Each
2	<u>fire hydrant shall be marke</u>	d with a number or symbol, or
3	both, by which the location	of the hydrant may be determined
4	<u>on the water system operato</u>	r's office records. The markings
5	<u>may be made with paint, bra</u>	nd or with a soft metal plate and
6	shall be of such size and s	paced and maintained so as to be
7	easily read.	
8	<u>(e) GPS identificationA</u>	water system operator shall
9	identify the geographic location of each valve and fire hydrant	
10	<u>in its public water system usi</u>	ng a global positioning system
11	<u>based on satellite or other lo</u>	cation technology.
12	<u>§ 6705. Meters.</u>	
13	<u>(a) Allowable errorNo w</u>	ater meter that has an error in
14	registration of more than 2% m	ay be placed in service, nor may a
15	water meter that has an error	in registration of more than 4% be
16	allowed to remain in service,	when water is passing through the
17	meter at approximately the fol	lowing rates of flow:
18	<u>Meter size (inches)</u>	<u>Gallons per minute</u>
19	<u>5/8</u>	<u>6</u>
20	3/4	<u>10</u>
21	<u>1</u>	<u>20</u>
22	<u>1 1/2</u>	<u>30</u>
23	<u>2</u>	<u>50</u>
24	<u>3</u>	<u>90</u>
25	<u>4</u>	<u>180</u>
26	<u>6</u>	<u>300</u>
27	(b) Prohibition	
28	<u>(1) No water system op</u>	erator furnishing metered water
29	<u>service may allow a water m</u>	eter of one inch or less nor a
30	water meter of more than on	e inch to remain in service for a
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1	period longer than 20 years and eight ye	ars, respectively,
2	without testing the meter for accuracy a	nd readjusting the
3	meter if the meter is found to be incorr	
4	established in subsection (a).	
5	(2) At a customer's request, the wa	ter system operator_
6	shall also perform a meter test without	
7	been in service and has not been tested	-
8	than that specified in the following tab	ole:
9	Inch Meter	<u>Years</u>
10	<u>5/8</u>	<u>10</u>
11	3/4	<u>8</u>
12	<u>1</u>	<u>6</u>
13	More than 1	<u>4</u>
14	<u>(c) Meter test records</u>	
15	(1) When a water meter is tested, t	<u>he original test</u>
16	record shall be kept indicating:	
17	(i) the information necessary f	or identifying the
18	meter;	
19	(ii) the reason for making the	test;
20	(iii) the reading of the meter	before being
21	disturbed; and	
22	(iv) the accuracy of the meter	together with data_
23	taken at the time of the test.	
24	(2) The record shall be sufficientl	<u>y complete to permit</u>
25	the convenient checking of the methods e	mployed and the
26	calculations made.	
27	(3) A record shall also be kept, pr	referably numerically
28	arranged, indicating:	
29	(i) the date of meter purchase;	-
30	(ii) the name of the manufactur	<u>er;</u>

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1	(iii) the meter's size, identification, various
2	places of installation with dates of installation and
3	removal; and
4	(iv) the dates and general results of all tests.
5	(d) Installation and removal of meters
6	(1) Within 60 days of installation, a water meter shall
7	be inspected by the water system operator for mechanical
8	condition and suitability of location. In the case of a new
9	meter or a meter reconditioned by a manufacturer, the test
10	results of the manufacturer may be accepted as the
11	installation test if the water system operator has verified
12	the manufacturer's reported test results by testing the
13	greater of 10% or 10 meters of a shipment of meters. In case
14	of emergency, a meter not meeting the requirements of this
15	section may be installed temporarily.
16	(2) (i) A water meter that is removed from service
17	shall be tested within 30 days for accuracy to complete
18	the meter's test history. When a meter is removed from
19	service, it shall be properly sealed to secure registers
20	and measuring devices until it can be properly tested for
21	accuracy.
22	(ii) This paragraph does not apply to a meter
23	permanently removed from service and replaced by a new
24	meter using a remote reading device.
25	<u>§ 6706. Lead service line replacements.</u>
26	(a) Duty to submit plan to departmentWithin one year of
27	the effective date of this section, a water system operator
28	shall submit to the department a plan to remove and replace all
29	lead service lines, whether customer-owned or water system
30	operator-owned, within or connected to the operator's public
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1	water system. The removal and replacement must be completed
2	within 20 years from the effective date of this section.
3	(b) RegulationsThe department shall promulgate
4	regulations establishing the minimum plan requirements under
5	this section.
6	§ 6707. Development of cybersecurity system.
7	(a) RegulationsThe department shall promulgate
8	regulations establishing the minimum requirements for a water
9	system operator cybersecurity program.
10	(b) Development of cybersecurity program
11	(1) Within 120 days of the publication of the
12	department's final regulations under subsection (a), a water
13	system operator shall develop a cybersecurity program that:
14	(i) is determined by an accredited cyber security
15	professional;
16	(ii) implements organization accountabilities and
17	responsibilities for cyber risk management activities;
18	and
19	(iii) establishes policies, plans, processes and
20	procedures for identifying, reporting and mitigating
21	cyber risk to its public water system.
22	(2) As part of the program, the water system operator
23	shall conduct risk assessments and implement appropriate
24	<u>controls to:</u>
25	(i) mitigate identified risks to the public water
26	<u>system;</u>
27	(ii) maintain situational awareness of cyber threats
28	and vulnerabilities to the public water system; and
29	(iii) create and exercise incident response and
30	recovery plans.

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1	(c) Submission of program to departmentA copy of the
2	program developed under this subsection shall be provided to the
3	department in a manner prescribed by the department.
4	<u>§ 6708. Annual information to customers.</u>
5	<u>A water system operator shall annually inform the operator's</u>
6	customers of compliance with this chapter.
7	<u>§ 6709. Regulations.</u>
8	The department, in consultation with the commission, shall
9	promulgate regulations as necessary to implement this chapter.
10	§ 6710. Contingency for public funding.
11	<u>Before a water or wastewater system operator may receive a</u>
12	subsidized loan or other financial assistance from the
13	Commonwealth, the operator shall demonstrate to the department
14	that the operator has developed or is in the process of
15	developing an asset management program and cybersecurity plan as
16	required by this chapter.
17	<u>§ 6711. Enforcement.</u>
18	After three years of noncompliance with this chapter, a water
19	system operator shall be considered a public utility under 66
20	Pa.C.S. § 102 (relating to definitions).

21 Section 2. This act shall take effect in 60 days.

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