114TH CONGRESS 2D SESSION

H. R. 6116

To enable needed drinking water standards, reduce lead in drinking water, plan for and address threats from climate change, terrorism, and source water contamination, invest in drinking water infrastructure, increase compliance with drinking water standards, foster greater community right to know about drinking water quality, and promote technological solutions for drinking water challenges.

IN THE HOUSE OF REPRESENTATIVES

September 22, 2016

Mr. Pallone (for himself, Mr. Tonko, Mr. McNerney, Mrs. Capps, Mr. Cárdenas, Mr. Gene Green of Texas, and Ms. Degette) introduced the following bill; which was referred to the Committee on Energy and Commerce

A BILL

To enable needed drinking water standards, reduce lead in drinking water, plan for and address threats from climate change, terrorism, and source water contamination, invest in drinking water infrastructure, increase compliance with drinking water standards, foster greater community right to know about drinking water quality, and promote technological solutions for drinking water challenges.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,

1 SECTION 1. SHORT TITLE; TABLE OF CONTENTS; FINDINGS.

- 2 (a) SHORT TITLE.—This Act may be cited as the
- 3 "Safe Drinking Water Act Amendments of 2016".
- 4 (b) Table of Contents for
- 5 this Act is as follows:
 - Sec. 1. Short title; table of contents; findings.

TITLE I—REGULATING DANGEROUS DRINKING WATER CONTAMINANTS

- Sec. 101. Enabling EPA to set standards for new drinking water contaminants.
- Sec. 102. Deadlines for regulations on known dangerous contaminants.

TITLE II—REDUCING LEAD IN DRINKING WATER

- Sec. 201. Reducing lead in drinking water.
- Sec. 202. Drinking water fountain replacement for schools.
- Sec. 203. Aligning definitions of lead free.
- Sec. 204. Guidance for schools regarding lead in drinking water.
- Sec. 205. School lead pipe replacement program.
- Sec. 206. School remedial action program.

TITLE III—CLIMATE RESILIENCY, SECURITY, AND SOURCE WATER PROTECTION

- Sec. 301. Climate resiliency, security, and source water protection planning.
- Sec. 302. Regulation of hydraulic fracturing.
- Sec. 303. Risks of drought to drinking water.

TITLE IV—AQUA ACT

- Sec. 401. Short title.
- Sec. 402. Prevailing wages.
- Sec. 403. Use of funds.
- Sec. 404. Requirements for use of American materials.
- Sec. 405. Data on variances, exemptions, and persistent violations.
- Sec. 406. Assistance for restructuring.
- Sec. 407. Priority and weight of applications.
- Sec. 408. Disadvantaged communities.
- Sec. 409. Administration of State loan funds.
- Sec. 410. State revolving loan funds for American Samoa, Northern Mariana Islands, Guam, and the Virgin Islands.
- Sec. 411. Authorization of appropriations.
- Sec. 412. Affordability of new standards.
- Sec. 413. Focus on lifecycle costs.
- Sec. 414. Best practices for administration of State revolving loan fund programs.

TITLE V—INCREASING COMPLIANCE AND COMMUNITY RIGHT TO KNOW

Sec. 501. Streamlining reporting and enforcement.

Sec. 502. Consolidation.

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- Sec. 503. Water violations inventory.
- Sec. 504. Improved consumer confidence reports.

TITLE VI—STUDIES AND TECHNOLOGY

- Sec. 601. Real time monitoring technology research grants.
- Sec. 602. Presence of pharmaceuticals and personal care products in sources of drinking water.
- Sec. 603. Water loss and leak control technology.

1 (c) FINDINGS.—The Congress finds the following:

- (1) The Safe Drinking Water Act has not been substantially amended in 20 years, during which time the challenges facing drinking water systems and customers have increased dramatically.
 - (2) Climate change, aging infrastructure, lead contamination, and emerging contaminants threaten the public health and economic viability of cities and towns nationwide.
 - (3) The drinking water standard-setting provisions put in place in 1996 have proven unworkable, preventing the Federal Government from regulating dangerous contaminants, including perchlorate, strontium, and volatile organic compounds.
 - (4) Compliance and enforcement with existing drinking water standards has fallen far short of what is needed and expected.
- 18 (5) Increased drinking water investment is 19 needed to address a crisis in failing infrastructure.

TITLE I—REGULATING DANGER-OUS DRINKING WATER CON-2 **TAMINANTS** 3 4 SEC. 101. ENABLING EPA TO SET STANDARDS FOR NEW 5 DRINKING WATER CONTAMINANTS. 6 (a) IN GENERAL.—Section 1412(b) of the Safe 7 Drinking Water Act (42 U.S.C. 300g–1(b)) is amended— 8 (1) by amending paragraph (1)(A) to read as 9 follows: "(A) GENERAL AUTHORITY.—The Admin-10 11 istrator shall publish maximum contaminant 12 level goals and promulgate national primary 13 drinking water regulations for each contami-14 nant (other than a contaminant for which a na-15 tional primary drinking water regulation has 16 been promulgated as of the date of enactment 17 of the Safe Drinking Water Act Amendments of 18 2016) which, in the judgement of the Adminis-19 trator, may have any adverse effect on the 20 health of persons and which is known or antici-21 pated to occur in public water systems."; 22 (2) in paragraph (1)(B)(ii)(I)— 23 (A) by striking "every 5 years" and inserting "every 3 years"; and 24

1	(B) by striking "5 contaminants" and in-
2	serting "10 contaminants";
3	(3) in paragraph (1)(B)(ii)(II)—
4	(A) by striking "on findings that the cri-
5	teria of clauses (i), (ii), and (iii)" and inserting
6	"on a finding that the criteria"; and
7	(B) by striking "Such findings" and in-
8	serting "Such finding";
9	(4) in paragraph (1)(D)—
10	(A) by striking "paragraph (4)(C), or
11	completing the analysis under paragraph
12	(3)(C)," and inserting "subparagraph (B)(ii)";
13	and
14	(B) by striking "A determination for any
15	contaminant in accordance with paragraph
16	(4)(C) subject to an interim regulation under
17	this subparagraph shall be issued, and a com-
18	pleted analysis meeting the requirements of
19	paragraph (3)(C) shall be published, not later
20	than 3 years after the date on which the regula-
21	tion is promulgated and the regulation shall be
22	repromulgated, or revised if appropriate, not
23	later than 5 years after that date.";
24	(5) by amending paragraph (3) to read as fol-
25	lows

1	"(3) AUTHORIZATION.—There are authorized to
2	be appropriated to the Administrator, acting
3	through the Office of Ground Water and Drinking
4	Water, to conduct studies, assessments, and analyses
5	in support of regulations or the development of
6	methods, $\$35,000,000$ for each of fiscal years 2017
7	through 2022.";
8	(6) in paragraph (4), by striking subparagraph
9	(C);
10	(7) by amending paragraph (6) to read as fol-
11	lows:
12	"(6) Exception for standards with no
13	FEASIBLE TECHNOLOGIES.—
14	"(A) In general.—Notwithstanding para-
15	graph (4), if the Administrator determines that
16	there is no feasible technology to meet a max-
17	imum contaminant level, the Administrator
18	may, after notice and opportunity for public
19	comment, promulgate a maximum contaminant
20	level for the contaminant that maximizes health
21	risk reduction benefits and can be met with fea-
22	sible technology.
23	"(B) Judicial review.—A determination
24	by the Administrator that no feasible tech-
25	nology is available to meet a maximum contami-

1 nant level shall be considered an action per-2 taining to the establishment of a national pri-3 mary drinking water regulation and subject to 4 judicial review."; (8) in paragraph (12)(B)(ii), by inserting "(as 5 6 in effect on the day before the date of enactment of 7 the Safe Drinking Water Act Amendments of 2016)" after "paragraph (3)(B)"; 8 9 (9) in paragraph (13)(B)(i), by inserting "(as 10 in effect on the day before the date of enactment of 11 the Safe Drinking Water Act Amendments of 12 2016)" after "paragraph (3)"; and 13 (10) in paragraph (13)(C), by inserting "(as in 14 effect on the day before the date of enactment of the Safe Drinking Water Act Amendments of 2016)" 15 after "paragraph (3)(C)". 16 17 (b) Additional Conforming Amendment.—Section 1459 of the Safe Drinking Water Act (42 U.S.C. 18 19 300j-19) is amended— 20 (1) by striking subsection (c); and (2) by redesignating subsection (d) as sub-21 22 section (c).

SEC. 102. DEADLINES FOR REGULATIONS ON KNOWN DAN-2 GEROUS CONTAMINANTS. 3 Section 1412(b)(2) of the Safe Drinking Water Act 4 (42 U.S.C. 300g-1(b)(2)) is amended by adding at the 5 end the following: 6 "(D) LEAD AND COPPER RULE.— 7 "(i) IN GENERAL.—Notwithstanding 8 any other deadline established in this sub-9 section, not later than 9 months after the 10 date of enactment of the Safe Drinking 11 Water Act Amendments of 2016, the Ad-12 ministrator shall issue revised national pri-13 mary drinking water regulations for lead 14 and copper in accordance with this sub-15 paragraph. 16 REQUIREMENTS.—The revised regulations issued under clause (i) shall 17 18 ensure that— 19 "(I) corrosion controls are re-20 evaluated anytime source water or 21 treatment is changed; "(II) test results are valid, by 22 23 prohibiting techniques that artificially lower lead levels, including flushing 24 25 before samples are taken;

1	"(III) monitoring includes school
2	sites for all public water systems serv-
3	ing schools (as defined in section
4	1461);
5	"(IV) notification of lead prob-
6	lems is clear and effective; and
7	"(V) lead service lines are fully
8	replaced on a set timetable and when-
9	ever contamination is detected.
10	"(iii) Scope of lead line replace-
11	MENT REQUIREMENTS.—Requirements to
12	replace lead service lines under the revised
13	regulations issued under clause (i) shall ex-
14	tend to all service lines controlled by public
15	water systems, regardless of ownership.
16	"(E) Perchlorate.—Notwithstanding
17	any other deadline established in this sub-
18	section, not later than 12 months after the date
19	of enactment of the Safe Drinking Water Act
20	Amendments of 2016, the Administrator shall
21	publish a maximum contaminant level goal and
22	promulgate a national primary drinking water
23	regulation for perchlorate.
24	"(F) Perfluorinated compounds.—
25	Notwithstanding any other deadline established

in this subsection, not later than 2 years after
the date of enactment of the Safe Drinking
Water Act Amendments of 2016, the Administrator shall publish a maximum contaminant
level goal and promulgate a national primary
drinking water regulation for perfluorinated
compounds.

"(G) 8 MICROCYSTIN TOXIN.—Notwith-9 standing any other deadline established in this 10 subsection, not later than 2 years after the date 11 of enactment of the Safe Drinking Water Act Amendments of 2016, the Administrator shall 12 13 publish a maximum contaminant level goal and 14 promulgate a national primary drinking water 15 regulation for microcystin toxin.".

TITLE II—REDUCING LEAD IN DRINKING WATER

- 18 SEC. 201. REDUCING LEAD IN DRINKING WATER.
- 19 (a) Definition of Lead Service Line.—Section
- 20 1401 of the Safe Drinking Water Act (42 U.S.C. 300f)
- 21 is amended by adding at the end the following new para-
- 22 graph:

16

- 23 "(17) LEAD SERVICE LINE.—The term 'lead
- service line' means a service line that is not lead free
- (within the meaning of section 1417).".

1	(b) Replacing Lead Service Lines.—Section
2	1417 of the Safe Drinking Water Act (42 U.S.C. 300g–
3	6) is amended by adding at the end the following:
4	"(f) Replacing Lead Service Lines.—
5	"(1) Definitions.—In this subsection:
6	"(A) ELIGIBLE ENTITY.—The term 'eligi-
7	ble entity' means—
8	"(i) an owner or operator of a public
9	water system;
10	"(ii) a qualified nonprofit organiza-
11	tion, as determined by the Administrator;
12	or
13	"(iii) a municipality or a State, inter-
14	state, or intermunicipal agency.
15	"(B) Lead pipe replacement pro-
16	GRAM.—The term 'lead pipe replacement pro-
17	gram' means a project or activity the primary
18	purpose of which is to eliminate lead in water
19	for human consumption by—
20	"(i) replacing lead service lines;
21	"(ii) testing, planning, or carrying out
22	other relevant activities, as determined by
23	the Administrator, to identify the location
24	and condition of lead service lines; or

1	"(iii) providing assistance to low-in-
2	come homeowners to replace privately
3	owned lead service lines.
4	"(C) Low-income Homeowner.—The
5	term 'low-income homeowner' has such meaning
6	as may be given the term by the Governor of
7	the applicable State.
8	"(2) Grant Program.—
9	"(A) ESTABLISHMENT.—Not later than
10	180 days after the date of enactment of this
11	subsection, the Administrator shall establish a
12	grant program to provide assistance to eligible
13	entities for lead pipe replacement programs.
14	"(B) EVALUATION.—In determining
15	whether to provide assistance to an eligible enti-
16	ty under this subsection, the Administrator
17	shall evaluate whether the eligible entity has—
18	"(i) a current inventory of lead service
19	lines in the applicable public water system;
20	"(ii) a plan to notify customers of
21	such public water system of the replace-
22	ment of any publicly owned portion of a
23	lead service line;

1	"(iii) a plan to replace the privately
2	owned portion of a lead service line at the
3	cost of replacement;
4	"(iv) a plan for a program of assist-
5	ance to low-income homeowners to replace
6	the privately owned portion of lead service
7	lines; or
8	"(v) a plan of recommended measures
9	to avoid exposure of the public to short-
10	term increases in lead levels following a
11	lead service line replacement.
12	"(C) Priority application.—In pro-
13	viding assistance under this subsection, the Ad-
14	ministrator shall give priority to an eligible en-
15	tity that—
16	"(i) will carry out a lead pipe replace-
17	ment program at a public water system
18	that has exceeded the lead action level es-
19	tablished by the Administrator at any time
20	during the 3-year period preceding the
21	date of submission of the application of the
22	eligible entity;
23	"(ii) will address lead levels in water
24	for human consumption at a school,
25	daycare, or other facility that primarily

1	serves children or subpopulations at great-
2	er risk as identified under section 1458(a);
3	"(iii) will include in the lead pipe re-
4	placement program a program to provide
5	assistance to low-income homeowners; or
6	"(iv) addresses such priority criteria
7	as the Administrator may establish, con-
8	sistent with the goal of reducing lead in
9	water for human consumption.
10	"(D) Cost sharing.—
11	"(i) In general.—Subject to clause
12	(ii), the non-Federal share of the total cost
13	of a program funded by a grant provided
14	under this subsection shall be not less than
15	20 percent.
16	"(ii) Waiver.—The Administrator
17	may reduce or eliminate the non-Federal
18	share required under clause (i) for reasons
19	of affordability, as the Administrator de-
20	termines to be appropriate.
21	"(E) Low-income homeowner assist-
22	ANCE.—
23	"(i) In general.—Subject to clause
24	(ii), an eligible entity may use a grant pro-
25	vided under this subsection to provide as-

1	sistance to low-income homeowners to re-
2	place privately owned lead service lines.
3	"(ii) Limitation.—The amount of as-
4	sistance provided to an individual low-in-
5	come homeowner under this subparagraph
6	shall not exceed \$10,000.
7	"(3) Guidance.—Not later than 180 days
8	after the date of enactment of this subsection, the
9	Administrator shall, in cooperation with States and
10	qualified nonprofit organizations, develop guidance
11	for owners and operators of public water systems to
12	assist such owners and operators in the preparation
13	of an inventory of lead service lines in their public
14	water system.
15	"(4) Authorization of appropriations.—
16	There are authorized to be appropriated to carry out
17	this subsection \$100,000,000 for each of fiscal years
18	2017 through 2021.".
19	SEC. 202. DRINKING WATER FOUNTAIN REPLACEMENT FOR
20	SCHOOLS.
21	(a) In General.—Part F of the Safe Drinking
22	Water Act (42 U.S.C. 300j–21 et seq.) is amended by add-
23	ing at the end the following:

1	"SEC. 1466. DRINKING WATER FOUNTAIN REPLACEMENT
2	FOR SCHOOLS.
3	"(a) Establishment.—Not later than 180 days
4	after the date of enactment of this section, the Adminis-
5	trator shall establish a grant program to provide assist-
6	ance to local educational agencies for the replacement of
7	drinking water fountains manufactured prior to 1988.
8	"(b) Use of Funds.—Funds awarded under the
9	grant program—
10	"(1) shall be used to pay the costs of replace-
11	ment of drinking water fountains in schools; and
12	"(2) may be used to pay the costs of monitoring
13	and reporting of lead levels in the drinking water of
14	schools of a local educational agency receiving such
15	funds, as determined appropriate by the Adminis-
16	trator.
17	"(c) Authorization of Appropriations.—There
18	are authorized to be appropriated to carry out this section
19	not more than \$5,000,000 for each of fiscal years 2017
20	through 2021.".
21	(b) Definitions.—Section 1461(5) of the Safe
22	Drinking Water Act (42 U.S.C. 300j–21(5)) is amended
23	by inserting "or drinking water fountain" after "water
24	cooler" each place it appears.

1	SEC. 203. ALIGNING DEFINITIONS OF LEAD FREE.
2	Paragraph (2) of section 1461 of the Safe Drinking
3	Water Act (42 U.S.C. 300j–21(2)) is amended to read as
4	follows:
5	"(2) LEAD FREE.—The term 'lead free' has the
6	meaning given such term in section 1417.".
7	SEC. 204. GUIDANCE FOR SCHOOLS REGARDING LEAD IN
8	DRINKING WATER.
9	Part F of the Safe Drinking Water Act (42 U.S.C.
10	300j-21 et seq.), as amended, is further amended by add-
11	ing at the end the following new section:
12	"SEC. 1467. GUIDANCE FOR SCHOOLS REGARDING LEAD IN
13	DRINKING WATER.
14	"(a) Guidance on Lead Monitoring.—Not later
	"(a) GUIDANCE ON LEAD MONITORING.—Not later than 180 days after the date of enactment of this section,
14 15	
141516	than 180 days after the date of enactment of this section,
14151617	than 180 days after the date of enactment of this section, the Administrator shall publish revised guidance for school
14151617	than 180 days after the date of enactment of this section, the Administrator shall publish revised guidance for school officials seeking to reduce exposure to lead from drinking
14 15 16 17 18	than 180 days after the date of enactment of this section, the Administrator shall publish revised guidance for school officials seeking to reduce exposure to lead from drinking water in schools.
14 15 16 17 18 19	than 180 days after the date of enactment of this section, the Administrator shall publish revised guidance for school officials seeking to reduce exposure to lead from drinking water in schools. "(b) Requirements.—The Administrator shall in-
14 15 16 17 18 19 20	than 180 days after the date of enactment of this section, the Administrator shall publish revised guidance for school officials seeking to reduce exposure to lead from drinking water in schools. "(b) Requirements.—The Administrator shall include in the guidance published under subsection (a)—
14 15 16 17 18 19 20 21	than 180 days after the date of enactment of this section, the Administrator shall publish revised guidance for school officials seeking to reduce exposure to lead from drinking water in schools. "(b) Requirements.—The Administrator shall include in the guidance published under subsection (a)— "(1) testing protocols for schools to accurately
14 15 16 17 18 19 20 21 22	than 180 days after the date of enactment of this section, the Administrator shall publish revised guidance for school officials seeking to reduce exposure to lead from drinking water in schools. "(b) Requirements.—The Administrator shall include in the guidance published under subsection (a)— "(1) testing protocols for schools to accurately detect lead contamination in school drinking water
14 15 16 17 18 19 20 21 22 23	than 180 days after the date of enactment of this section, the Administrator shall publish revised guidance for school officials seeking to reduce exposure to lead from drinking water in schools. "(b) Requirements.—The Administrator shall include in the guidance published under subsection (a)— "(1) testing protocols for schools to accurately detect lead contamination in school drinking water and its sources;

1	"(3) recommendations for maintaining or re-
2	placing drinking water infrastructure, including
3	pipes, pipe fittings, fixtures, solder, drinking water
4	coolers, and drinking water fountains, when plan-
5	ning for or undergoing renovations of school prop-
6	erty; and
7	"(4) recommendations and forms for commu-
8	nicating lead testing results, potential health risks,
9	and response actions to students, staff, parents, and
10	communities.".
11	SEC. 205. SCHOOL LEAD PIPE REPLACEMENT PROGRAM.
12	Part F of the Safe Drinking Water Act (42 U.S.C.
13	300j–21 et seq.), as amended, is further amended by add-
14	ing at the end the following new section:
15	"SEC. 1468. SCHOOL LEAD PIPE REPLACEMENT PROGRAM.
16	"(a) Eligible Entity.—In this section, the term
17	'eligible entity' means—
18	"(1) a local educational agency; or
19	"(2) a public water system.
20	"(b) Grant Program.—
21	"(1) Establishment.—Not later than 180
22	days after the date of enactment of this section, the
23	Administrator shall establish a grant program to as-
24	sist eligible entities in carrying out programs to re-
25	place lead service lines for schools and solder that is

1	not lead free used in the plumbing for schools. Such
2	a program—
3	"(A) shall include replacing lead service
4	lines and solder that is not lead free; and
5	"(B) may include testing, planning, or car-
6	rying out other relevant activities, as deter-
7	mined by the Administrator, to identify the lo-
8	cation and condition of lead service lines and
9	solder that is not lead free.
10	"(2) Priority application.—In providing as-
11	sistance under this section, the Administrator shall
12	give priority to proposed programs for schools for
13	which, at any time during the 3-year period pre-
14	ceding the date of submission of an application of
15	the eligible entity, monitoring data has indicated ele-
16	vated lead levels in the school drinking water.
17	"(c) Authorization of Appropriations.—There
18	are authorized to be appropriated to carry out this section
19	\$50,000,000 for each of fiscal years 2017 through 2021."
20	SEC. 206. SCHOOL REMEDIAL ACTION PROGRAM.
21	(a) Lead Contamination in School Drinking
22	Water.—Section 1464(d) of the Safe Drinking Water
23	Act (42 U.S.C. 300j-24(d)) is amended—

1	(1) in paragraph (1), by striking "Within 9
2	months after the enactment of this section, each
3	State shall" and inserting "Any State may";
4	(2) in paragraph (2)—
5	(A) by striking "A copy" and inserting
6	"Any State establishing a program pursuant to
7	paragraph (1) shall make a copy"; and
8	(B) by striking "shall be"; and
9	(3) in paragraph (3)—
10	(A) by inserting "and fountains" after
11	"coolers" each place it appears;
12	(B) by striking "enactment of this sub-
13	section" and inserting "establishment of a pro-
14	gram under paragraph (1)"; and
15	(C) by inserting "or fountain" after "cool-
16	er".
17	(b) Federal Assistance for State Programs
18	REGARDING LEAD CONTAMINATION IN SCHOOL DRINK-
19	ING WATER.—Section 1465 of the Safe Drinking Water
20	Act (42 U.S.C. 300j–25) is amended—
21	(1) in subsection (a), by striking "States to es-
22	tablish" and inserting "States that establish"; and
23	(2) in subsection (c)—
24	(A) by striking "\$30,000,000" each place
25	it appears and inserting "\$100,000,000":

1	(B)	by	striking	"1989"	and	inserting
2	"2017";					
3	(C)	by	striking	"1990"	and	inserting
4	"2018"; <i>ε</i>	and				
5	(D)	by	striking	"1991."	and	inserting
6	"2019.".					
7	TITLE III-	- C	LIMA	TE R	ESI	LIEN-
8	CY, SEC	UI	RITY,	AND	SO	URCE
9	WATER 1	PR	OTEC	TION		
10	SEC. 301. CLIMATE	RES	SILIENCY,	SECURITY	, ANI	SOURCE
11	WATEI	R PR	OTECTION	N PLANNIN	IG.	
12	Section 1433	of t	the Safe 1	Drinking	Water	Act (42
13	U.S.C. 300i–2) is a	men	ded to rea	d as follow	vs:	
14	"SEC. 1433. CLIMATI	E RE	SILIENCY,	, SECURIT	Y, ANI	SOURCE
15	WATEI	R PR	OTECTION	N.		
16	"(a) Source	WA	TER AND	DISTRIB	UTION	System
17	VULNERABILITY AS	SSES	SMENTS	_		
18	"(1) In (ÆNI	ERAL.—N	ot later t	han 2	4 months
19	after the date	of	enactmer	nt of the	Safe	Drinking
20	Water Act Ar	neno	dments of	f 2016, e	ach c	ommunity
21	water system	sha	all submi	t to the	Adm	inistrator
22	source water	and	distribut	tion syste	m vul	Inerability
23	assessments.					

1	"(2) Identification of threats.—Assess-
2	ments submitted pursuant to paragraph (1) shall
3	identify—
4	"(A) threats to the community water sys-
5	tem's source water from industrial activity,
6	pipelines and storage tanks, contaminated sites,
7	agricultural activity, and oil and gas explo-
8	ration;
9	"(B) threats to the community water sys-
10	tem's source water and distribution system
11	from climate change, extreme weather, drought,
12	and temperature changes; and
13	"(C) threats to the community water sys-
14	tem's source water and distribution system
15	from intentional acts, including intentional con-
16	tamination, sabotage, and theft of any chemical
17	of interest (as designated under Appendix A to
18	part 27 of title 6, Code of Federal Regulations,
19	or any successor thereto).
20	"(3) Assessment of alternatives.—Assess-
21	ments submitted pursuant to paragraph (1) shall in-
22	clude a comparison of the disinfection methods used
23	by the community water system and reasonably
24	available alternative disinfection methods, including

a determination of whether reasonably available al-

- ternative disinfection methods could reduce the community water system's vulnerability to the threats identified pursuant to paragraph (2).
- "(4) Periodic review and resubmission.—
 Each community water system submitting a vulnerability assessment pursuant to paragraph (1) shall
 review, revise as necessary, and resubmit such assessment not less often than every 5 years.
- 9 "(5) GUIDANCE.—Not later than one year after 10 the date of enactment of the Safe Drinking Water 11 Act Amendments of 2016, the Administrator shall 12 provide guidance to community water systems for 13 the preparation of vulnerability assessments under 14 this subsection.
- 15 "(b) Source Water and Distribution System16 Protection Plans.—
- "(1) IN GENERAL.—Not later than 4 years
 after the date of enactment of the Safe Drinking
 Water Act Amendments of 2016, each community
 water system shall submit to the Administrator
 source water and distribution system protection
 plans.
- 23 "(2) MITIGATION OF IDENTIFIED THREATS.— 24 Plans submitted pursuant to paragraph (1) shall 25 identify strategies and resources to mitigate the

- threats identified in assessments prepared pursuant to subsection (a).
- 3 "(3) EMERGENCY RESPONSE PLANNING.—
 4 Plans submitted pursuant to paragraph (1) shall in5 clude specific emergency response plans for the
 6 threats identified in assessments prepared pursuant
 7 to subsection (a).
 - "(4) Periodic Review and Resubmission.—
 Each community water system submitting a plan
 pursuant to paragraph (1) shall review, revise as
 necessary, and resubmit such plan not less often
 than every 5 years.
 - "(5) GUIDANCE.—Not later than one year after the date of enactment of the Safe Drinking Water Act Amendments of 2016, the Administrator shall provide guidance to community water systems for the preparation of plans under this subsection.
- 18 "(c) Technical Assistance and Grants.—
 - "(1) IN GENERAL.—The Administrator shall establish and implement a program, to be known as the Drinking Water Infrastructure Resiliency and Sustainability Program, under which the Administrator may award grants in each of fiscal years 2017 through 2021 to owners or operators of community water systems for the purpose of increasing the re-

siliency or adaptability of the community water systems to threats identified pursuant to subsection (a).

"(2) USE OF FUNDS.—As a condition on receipt of a grant under this section, an owner or operator of a community water system shall agree to use the grant funds exclusively to assist in the planning, design, construction, implementation, operation, or maintenance of a program or project consistent with a plan developed pursuant to subsection (b).

"(3) Priority.—

"(A) WATER SYSTEMS AT GREATEST AND MOST IMMEDIATE RISK.—In selecting grantees under this subsection, the Administrator shall give priority to applicants that are owners or operators of community water systems that are, based on the best available research and data, at the greatest and most immediate risk of facing significant negative impacts due to threats described in subsection (a)(2).

"(B) Goals.—In selecting among applicants described in subparagraph (A), the Administrator shall ensure that, to the maximum extent practicable, the final list of applications funded for each year includes a substantial number that propose to use innovative ap-

1	proaches to meet one or more of the following
2	goals:
3	"(i) Promoting more efficient water
4	use, water conservation, water reuse, or
5	water recycling.
6	"(ii) Using decentralized, low-impact
7	development technologies and nonstructur-
8	al approaches, including practices that use,
9	enhance, or mimic the natural hydrological
10	cycle or protect natural flows.
11	"(iii) Reducing stormwater runoff or
12	flooding by protecting or enhancing nat-
13	ural ecosystem functions.
14	"(iv) Modifying, upgrading, enhanc-
15	ing, or replacing existing community water
16	system infrastructure in response to
17	changing hydrologic conditions.
18	"(v) Improving water quality or quan-
19	tity for agricultural and municipal uses, in-
20	cluding through salinity reduction.
21	"(vi) Providing multiple benefits, in-
22	cluding to water supply enhancement or
23	demand reduction, water quality protection
24	or improvement, increased flood protection,
25	and ecosystem protection or improvement.

1	"(4) Cost-sharing.—
2	"(A) FEDERAL SHARE.—The share of the
3	cost of any activity that is the subject of a
4	grant awarded by the Administrator to the
5	owner or operator of a community water system
6	under this subsection shall not exceed 50 per-
7	cent of the cost of the activity.
8	"(B) CALCULATION OF NON-FEDERAL
9	SHARE.—In calculating the non-Federal share
10	of the cost of an activity proposed by a commu-
11	nity water system in an application submitted
12	under this subsection, the Administrator shall—
13	"(i) include the value of any in-kind
14	services that are integral to the completion
15	of the activity, including reasonable admin-
16	istrative and overhead costs; and
17	"(ii) not include any other amount
18	that the community water system involved
19	receives from the Federal Government.
20	"(5) Report to congress.—Not later than 3
21	years after the date of the enactment of the Safe
22	Drinking Water Act Amendments of 2016, and
23	every 3 years thereafter, the Administrator shall
24	submit to the Congress a report on progress in im-

1 plementing this subsection, including information on 2 project applications received and funded annually. "(6) AUTHORIZATION OF APPROPRIATIONS.— 3 4 To carry out this subsection, there are authorized to 5 be appropriated \$50,000,000 for each of fiscal years 6 2017 through 2021.". 7 SEC. 302. REGULATION OF HYDRAULIC FRACTURING. 8 (a) Hydraulic Fracturing.—Section 1421(d)(1) of the Safe Drinking Water Act (42 U.S.C. 300h(d)(1)) is amended by striking subparagraph (B) and inserting 10 11 the following: 12 "(B) includes the underground injection of 13 fluids or propping agents pursuant to hydraulic 14 fracturing operations related to oil, gas, or geo-15 thermal production activities; but "(C) excludes the underground injection of 16 17 natural gas for purposes of storage.". 18 (b) DISCLOSURE OFHydraulic FRACTURING 19 CHEMICALS; MEDICAL EMERGENCIES; Proprietary 20 CHEMICAL FORMULAS.—Section 1421(b) of the Safe 21 Drinking Water Act (42 U.S.C. 300H(b)) is amended by 22 adding at the end the following: 23 "(4)(A) Regulations included under paragraph (1)(C) shall include the following requirements: 24

1	"(i) A person conducting hydraulic
2	fracturing operations shall disclose to the
3	State (or the Administrator if the Adminis-
4	trator has primary enforcement responsi-
5	bility in the State)—
6	"(I) prior to the commencement
7	of any hydraulic fracturing operations
8	at any lease area or portion thereof, a
9	list of chemicals intended for use in
10	any underground injection during
11	such operations, including identifica-
12	tion of the chemical constituents of
13	mixtures, Chemical Abstracts Service
14	numbers for each chemical and con-
15	stituent, material safety data sheets
16	when available, and the anticipated
17	volume of each chemical; and
18	"(II) not later than 30 days after
19	the end of any hydraulic fracturing
20	operations, the list of chemicals used
21	in each underground injection during
22	such operations, including identifica-
23	tion of the chemical constituents of
24	mixtures, Chemical Abstracts Service
25	numbers for each chemical and con-

stituent, material safety data sheets
when available, and the volume of
each chemical used.

"(ii) The State or the Administrator, as applicable, shall make the disclosure of chemical constituents referred to in clause (i) available to the public, including by posting the information on an appropriate Internet Web site.

"(iii) Whenever the State or the Administrator, or a treating physician or nurse, determines that a medical emergency exists and the proprietary chemical formula of a chemical used in hydraulic fracturing operations is necessary for medical treatment, the person conducting the hydraulic fracturing operations shall, upon request, immediately disclose the proprietary chemical formula or the specific chemical identity of a trade secret chemical to the State, the Administrator, or the treating physician or nurse, regardless of whether a written statement of need or a confidentiality agreement has been provided. The person conducting the hydraulic

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1	fracturing operations may require a writ-
2	ten statement of need and a confidentiality
3	agreement as soon thereafter as cir-
4	cumstances permit.
5	"(B) Subparagraphs (A)(i) and (A)(ii) do
6	not authorize the State (or the Administrator)
7	to require the public disclosure of proprietary
8	chemical formulas.".
9	SEC. 303. RISKS OF DROUGHT TO DRINKING WATER.
10	Part E of the Safe Drinking Water Act (42 U.S.C.
11	300j et seq.) is amended by adding at the end the fol-
12	lowing new section:
	"GEG 14504 DDOLIGHE DIGIZ ACCECCMENTE AND MANAGE
13	"SEC. 1459A. DROUGHT RISK ASSESSMENT AND MANAGE-
13 14	"SEC. 1459A. DROUGHT RISK ASSESSMENT AND MANAGE- MENT.
14	MENT.
14 15	MENT. "(a) Strategic Plan.—
14 15 16	MENT. "(a) Strategic Plan.— "(1) Development.—Not later than 90 days
14 15 16 17	MENT. "(a) Strategic Plan.— "(1) Development.—Not later than 90 days after the date of enactment of this section, the Ad-
14 15 16 17	MENT. "(a) Strategic Plan.— "(1) Development.—Not later than 90 days after the date of enactment of this section, the Administrator shall develop and submit to Congress a
114 115 116 117 118	MENT. "(a) Strategic Plan.— "(1) Development.—Not later than 90 days after the date of enactment of this section, the Administrator shall develop and submit to Congress a strategic plan for assessing and managing the risks
14 15 16 17 18 19 20	MENT. "(a) STRATEGIC PLAN.— "(1) DEVELOPMENT.—Not later than 90 days after the date of enactment of this section, the Administrator shall develop and submit to Congress a strategic plan for assessing and managing the risks of drought to drinking water provided by public
14 15 16 17 18 19 20 21	"(a) Strategic Plan.— "(1) Development.—Not later than 90 days after the date of enactment of this section, the Administrator shall develop and submit to Congress a strategic plan for assessing and managing the risks of drought to drinking water provided by public water systems. The strategic plan shall include steps
14 15 16 17 18 19 20 21	MENT. "(a) STRATEGIC PLAN.— "(1) DEVELOPMENT.—Not later than 90 days after the date of enactment of this section, the Administrator shall develop and submit to Congress a strategic plan for assessing and managing the risks of drought to drinking water provided by public water systems. The strategic plan shall include steps and timelines to—

1	"(B) compile a comprehensive list of the
2	effects of drought on drinking water provided
3	by public water systems which the Adminis-
4	trator determines may have an adverse effect
5	on human health;
6	"(C) summarize—
7	"(i) the known adverse human health
8	effects resulting from the effects of
9	drought on drinking water included on the
10	list established under subparagraph (B);
11	"(ii) factors that cause drought; and
12	"(iii) factors that exacerbate the ef-
13	fects of drought on drinking water pro-
14	vided by public water systems;
15	"(D) with respect to the effects of drought
16	on drinking water included on the list compiled
17	under subparagraph (B), determine whether
18	to—
19	"(i) establish guidance regarding fea-
20	sible analytical methods to quantify such
21	effects; and
22	"(ii) establish guidance regarding the
23	frequency of monitoring necessary to de-
24	tect such effects;

1	"(E) recommend feasible treatment op-
2	tions, including procedures, equipment, and
3	source water protection practices, to mitigate
4	such effects; and
5	"(F) enter into cooperative agreements
6	with, and provide technical assistance to, af-
7	fected States and public water systems, as iden-
8	tified by the Administrator, for the purpose of
9	managing risks associated with the effects of
10	drought on drinking water.
11	"(2) UPDATES.—The Administrator shall, as
12	appropriate, update and submit to Congress the
13	strategic plan developed under paragraph (1).
14	"(b) Information Coordination.—In carrying out
15	this section the Administrator shall—
16	"(1) identify gaps in the Agency's under-
17	standing of the effects of drought on drinking water
18	provided by public water systems, including—
19	"(A) the human health effects of drought;
20	and
21	"(B) methods and means of testing and
22	monitoring for the effects of drought on source
23	water of, or drinking water provided by, public
24	water systems;
25	"(2) as appropriate, consult with—

1	"(A) other Federal agencies that—
2	"(i) examine or analyze drought; or
3	"(ii) address public health concerns
4	related to drought;
5	"(B) States;
6	"(C) operators of public water systems;
7	"(D) multinational agencies;
8	"(E) foreign governments;
9	"(F) research and academic institutions;
10	and
11	"(G) companies that provide relevant
12	drinking water treatment options; and
13	"(3) assemble and publish information from
14	each Federal agency that has—
15	"(A) examined or analyzed drought; or
16	"(B) addressed public health concerns re-
17	lated to drought.
18	"(c) Feasible.—For purposes of this section, the
19	term 'feasible' has the meaning given such term in section
20	1412(b)(4)(D).".
21	TITLE IV—AQUA ACT
22	SEC. 401. SHORT TITLE.
23	This title may be cited as the "Assistance, Quality,
24	and Affordability Act of 2016".

SEC. 402. PREVAILING WAGES.

- 2 Subsection (e) of section 1450 of the Safe Drinking
- 3 Water Act (42 U.S.C. 300j-9) is amended to read as fol-
- 4 lows:
- 5 "(e) Labor Standards.—
- 6 "(1) IN GENERAL.—The Administrator shall
- 7 take such action as the Administrator determines to
- 8 be necessary to ensure that each laborer and me-
- 9 chanic employed by a contractor or subcontractor in
- 10 connection with a construction project financed, in
- 11 whole or in part, by a grant, loan, loan guarantee,
- refinancing, or any other form of financial assistance
- provided under this title (including assistance pro-
- vided by a State loan fund established under section
- 15 1452) is paid wages at a rate of not less than the
- prevailing wages for the same type of work on simi-
- lar construction in the immediate locality, as deter-
- mined by the Secretary of Labor in accordance with
- 19 subchapter IV of chapter 31 of title 40, United
- States Code.
- 21 "(2) Authority of Secretary of Labor.—
- With respect to the labor standards specified in this
- subsection, the Secretary of Labor shall have the au-
- thority and functions established in Reorganization
- Plan Numbered 14 of 1950 (5 U.S.C. App.) and sec-
- tion 3145 of title 40, United States Code.".

1	SEC. 403. USE OF FUNDS.
2	Section 1452(a)(2) of the Safe Drinking Water Act
3	(42 U.S.C. 300j–12(a)(2)) is amended—
4	(1) by striking "Except as otherwise" and in-
5	serting the following:
6	"(A) In general.—Except as otherwise";
7	(2) by striking "Financial assistance under this
8	section" and inserting the following:
9	"(B) Permissible expenditures.—Fi-
10	nancial assistance under this section";
11	(3) by striking "The funds may also be used"
12	and inserting the following:
13	"(D) CERTAIN LOANS.—Financial assist-
14	ance under this section may also be used";
15	(4) by striking "The funds shall not be used"
16	and inserting the following:
17	"(E) Limitation.—Financial assistance
18	under this section shall not be used";
19	(5) by striking "Of the amount credited" and
20	inserting the following:
21	"(F) Set-Aside.—Of the amount cred-
22	ited";
23	(6) in subparagraph (B) (as designated by
24	paragraph (2)) by striking "(not" and inserting
25	"(including expenditures for planning, design, siting,

and associated preconstruction activities, for replac-

1	ing or rehabilitating aging treatment, storage, or
2	distribution facilities of public water systems, or for
3	producing or capturing sustainable energy on site or
4	through the transportation of water through the
5	public water system, but not"; and
6	(7) by inserting after such subparagraph (B)
7	the following:
8	"(C) Sale of Bonds.—If a State issues
9	revenue or general obligation bonds to provide
10	all or part of the State contribution required by
11	subsection (e), and the proceeds of the sale of
12	such bonds will be deposited into the State loan
13	fund—
14	"(i) financial assistance made avail-
15	able under this section may be used by the
16	State as security for payment of the prin-
17	cipal and interest on such bonds; and
18	"(ii) interest earnings of the State
19	loan fund may be used by the State as rev-
20	enue for payment of the principal and in-
21	terest on such bonds.".

1	SEC. 404. REQUIREMENTS FOR USE OF AMERICAN MATE-
2	RIALS.
3	Section 1452(a) of the Safe Drinking Water Act (42
4	U.S.C. 300j-12(a)) is amended by adding at the end the
5	following new paragraph:
6	"(4) Requirements for use of American
7	MATERIALS.—
8	"(A) In General.—Notwithstanding any
9	other provision of law, none of the funds made
10	available by a State loan fund as authorized
11	under this section may be used for a project for
12	the construction, alteration, maintenance, or re-
13	pair of a public water system unless all of the
14	iron and steel products used in such project are
15	produced in the United States.
16	"(B) Waiver.—Upon request, the Admin-
17	istrator shall waive application of subparagraph
18	(A) in any case in which the Administrator (in
19	consultation with the Governor of the State)
20	finds that—
21	"(i) applying subparagraph (A) would
22	be inconsistent with the public interest;
23	"(ii) iron and steel products are not
24	produced in the United States in sufficient
25	and reasonably available quantities and of
26	a satisfactory quality; or

1	"(iii) inclusion of iron and steel prod-
2	ucts produced in the United States will in-
3	crease the cost of the overall project by
4	more than 25 percent.
5	"(C) REQUESTS FOR WAIVER.—If the Ad-
6	ministrator receives a request for a waiver
7	under this paragraph, the Administrator shall—
8	"(i) make available to the public, on
9	an informal basis, a copy of the request
10	and information available to the Adminis-
11	trator concerning the request;
12	"(ii) make the request and accom-
13	panying information available by electronic
14	means, including on the official public
15	Internet site of the Environmental Protec-
16	tion Agency; and
17	"(iii) allow for informal public input
18	on the request for at least 15 days prior to
19	making a finding based on the request.
20	"(D) Consistency with international
21	AGREEMENTS.—This paragraph shall be applied
22	in a manner consistent with United States obli-
23	gations under international agreements.
24	"(E) DEFINITION OF IRON AND STEEL
25	PRODUCTS.—In this paragraph, the term 'iron

1	and steel products' means the following prod-
2	ucts made primarily of iron or steel: lined or
3	unlined pipes and fittings, manhole covers and
4	other municipal castings, hydrants, tanks,
5	flanges, pipe clamps and restraints, valves,
6	structural steel, reinforced precast concrete,
7	and construction materials.".
8	SEC. 405. DATA ON VARIANCES, EXEMPTIONS, AND PER-
9	SISTENT VIOLATIONS.
10	Section 1452(b)(2) of the Safe Drinking Water Act
11	(42 U.S.C. 300j–12(b)(2)) is amended—
12	(1) in subparagraph (B), by striking "and" at
13	the end;
14	(2) in subparagraph (C), by striking the period
15	at the end and inserting "; and; and
16	(3) by adding at the end the following:
17	"(D) a list of all public water systems
18	within the State that have in effect an exemp-
19	tion or variance for any national primary drink-
20	ing water regulation or that are in persistent
21	violation of the requirements for any maximum
22	contaminant level or treatment technique under
23	a national primary drinking water regulation,
24	including identification of—

1	"(i) the national primary drinking
2	water regulation in question for each such
3	exemption, variance, or violation; and
4	"(ii) the date on which the exemption
5	or variance came into effect or the viola-
6	tion began.".
7	SEC. 406. ASSISTANCE FOR RESTRUCTURING.
8	(a) Definition.—Section 1401 of the Safe Drinking
9	Water Act (42 U.S.C. 300f), as amended, is further
10	amended by adding at the end the following:
11	"(18) Restructuring.—The term 'restruc-
12	turing' means changes in operations (including own-
13	ership, management, cooperative partnerships, joint
14	purchasing arrangements, consolidation, and alter-
15	native water supply).".
16	(b) Restructuring.—Clause (ii) of section
17	1452(a)(3)(B) (42 U.S.C. 300j–12(a)(3)(B)) is amended
18	by striking "changes in operations (including ownership,
19	management, accounting, rates, maintenance, consolida-
20	tion, alternative water supply, or other procedures)" and
21	inserting "restructuring".
22	SEC. 407. PRIORITY AND WEIGHT OF APPLICATIONS.
23	(a) Priority.—Section 1452(b)(3) of the Safe
24	Drinking Water Act (42 U.S.C. 300j–12(b)(3)) is amend-
25	ed—

1	(1) in subparagraph (A)—
2	(A) in clause (ii), by striking "and" at the
3	end;
4	(B) in clause (iii), by striking the period at
5	the end and inserting "; and"; and
6	(C) by adding at the end the following:
7	"(iv) improve the ability of public
8	water systems to protect human health and
9	comply with the requirements of this title
10	affordably in the future.";
11	(2) by redesignating subparagraph (B) as sub-
12	paragraph (D);
13	(3) by inserting after subparagraph (A) the fol-
14	lowing:
15	"(B) Affordability of New Stand-
16	ARDS.—For any year in which enforcement be-
17	gins for a new national primary drinking water
18	standard, each State that has entered into a
19	capitalization agreement pursuant to this sec-
20	tion shall evaluate whether capital improve-
21	ments required to meet the standard are afford-
22	able for disadvantaged communities (as defined
23	in subsection (d)(3)) in the State. If the State
24	finds that such capital improvements do not
25	meet affordability criteria for disadvantaged

1	communities in the State, the State's intended
2	use plan shall provide that priority for the use
3	of funds for such year be given to public water
4	systems affected by the standard and serving
5	disadvantaged communities.
6	"(C) Weight given to applications.—
7	After determining priority under subparagraphs
8	(A) and (B), an intended use plan shall provide
9	that the State will give greater weight to an ap-
10	plication for assistance if the application con-
11	tains—
12	"(i) a description of measures under-
13	taken by the public water system to im-
14	prove the management and financial sta-
15	bility of the public water system, which
16	may include—
17	"(I) an inventory of assets, in-
18	cluding a description of the condition
19	of the assets;
20	"(II) a schedule for replacement
21	of assets;
22	"(III) an audit of water losses;
23	"(IV) a financing plan that fac-
24	tors in all lifecycle costs indicating
25	sources of revenue from ratepayers,

1	grants, bonds, other loans, and other
2	sources to meet the costs; and
3	"(V) a review of options for re-
4	structuring;
5	"(ii) a demonstration of consistency
6	with State, regional, and municipal water-
7	shed plans;
8	"(iii) a water conservation plan con-
9	sistent with guidelines developed for such
10	plans by the Administrator under section
11	1455(a); and
12	"(iv) a description of measures under-
13	taken by the public water system to im-
14	prove the efficiency of the public water sys-
15	tem or reduce the public water system's
16	environmental impact, which may in-
17	clude—
18	"(I) water efficiency or conserva-
19	tion, including the rehabilitation or re-
20	placement of existing leaking pipes;
21	"(II) use of reclaimed water;
22	"(III) actions to increase energy
23	efficiency;
24	"(IV) actions to generate or cap-
25	ture sustainable energy on site or

1	through the transportation of water
2	through the public water system;
3	"(V) actions to protect source
4	water;
5	"(VI) actions to mitigate or pre-
6	vent corrosion, including design, selec-
7	tion of materials, selection of coating,
8	and cathodic protection; and
9	"(VII) actions to reduce disinfec-
10	tion byproducts."; and
11	(4) in subparagraph (D) (as redesignated by
12	paragraph (2)) by striking "periodically" and insert-
13	ing "at least biennially".
14	(b) Guidance.—Section 1452 of the Safe Drinking
15	Water Act (42 U.S.C. 300j–12) is amended—
16	(1) by redesignating subsection (r) as sub-
17	section (t); and
18	(2) by inserting after subsection (q) the fol-
19	lowing:
20	"(r) Small System Guidance.—The Administrator
21	may provide guidance and, as appropriate, tools, meth-
22	odologies, or computer software, to assist small public
23	water systems in undertaking measures to improve the
24	management, financial stability, and efficiency of the pub-

1 lic water system or reduce the public water system's environmental impact.". 2 3 SEC. 408. DISADVANTAGED COMMUNITIES. 4 (a) Assistance To Increase Compliance.—Section 1452(b)(3) of the Safe Drinking Water Act (42) U.S.C. 300j-12(b)(3)), as amended, is further amended by adding at the end the following: 8 "(E) Assistance to increase compli-9 ANCE.—A State's intended use plan shall pro-10 vide that, of the funds received by the State 11 through a capitalization grant under this sec-12 tion for a fiscal year, the State will, to the ex-13 tent that there are sufficient eligible project ap-14 plications, reserve not less than 6 percent to be 15 spent on assistance under subsection (d) to 16 public water systems included in the State's 17 most recent list under paragraph (2)(D).". 18 Assistance for Disadvantaged Commu-NITIES.—Section 1452(d) of the Safe Drinking Water Act 19 20 (42 U.S.C. 300j–12(d)) is amended— 21 (1) in paragraph (1), by adding at the end the 22 following: "Such additional subsidization shall di-23 rectly and primarily benefit such community."; and 24 (2) in paragraph (3), by inserting ", or portion

of a service area," after "service area".

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1	(c) Affordability Criteria.—Section 1452(d)(3)
2	of the Safe Drinking Water Act (42 U.S.C. 300j-
3	12(d)(3)) is amended by adding at the end: "Each State
4	that has entered into a capitalization agreement pursuant
5	to this section shall, in establishing affordability criteria,
6	consider, solicit public comment on, and include as appro-
7	priate—
8	"(A) the methods or criteria that the State
9	will use to identify disadvantaged communities;
10	"(B) a description of the institutional, reg-
11	ulatory, financial, tax, or legal factors at the
12	Federal, State, or local level that affect identi-
13	fied affordability criteria; and
14	"(C) a description of how the State will
15	use the authorities and resources under this
16	subsection to assist communities meeting the
17	identified criteria.".
18	SEC. 409. ADMINISTRATION OF STATE LOAN FUNDS.
19	Section 1452(g) of the Safe Drinking Water Act (42
20	U.S.C. 300j–12(g)) is amended—
21	(1) in paragraph (2)—
22	(A) in the first sentence, by striking "up
23	to 4 percent of the funds allotted to the State
24	under this section" and inserting ", for each
25	fiscal year, an amount that does not exceed the

1	sum of the amount of any fees collected by the
2	State for use in covering reasonable costs of ad-
3	ministration of programs under this section, re-
4	gardless of the source, and an amount equal to
5	the greatest of $$400,000$, $\frac{1}{5}$ of one percent of
6	the current valuation of the State loan fund, or
7	6 percent of all grant awards to the State loan
8	fund under this section for the fiscal year,";
9	(B) in subparagraph (D), by striking
10	"1419," and inserting "1419."; and
11	(C) in the matter following subparagraph
12	(D)—
13	(i) by striking "if the State" and all
14	that follows through "1993."; and
15	(ii) by striking "2 percent" and in-
16	serting "4 percent"; and
17	(2) by adding at the end the following:
18	"(5) Transfer of funds.—
19	"(A) IN GENERAL.—The Governor of a
20	State may—
21	"(i) reserve for any fiscal year not
22	more than the lesser of—
23	"(I) 33 percent of a capitaliza-
24	tion grant made under this section; or

1	"(II) 33 percent of a capitaliza-
2	tion grant made under section 601 of
3	the Federal Water Pollution Control
4	Act; and
5	"(ii) add the funds so reserved to any
6	funds provided to the State under this sec-
7	tion or section 601 of the Federal Water
8	Pollution Control Act.
9	"(B) STATE MATCHING FUNDS.—Funds
10	reserved under this paragraph shall not be con-
11	sidered for purposes of calculating the amount
12	of a State contribution required by subsection
13	(e) of this section or section 602(b) of the Fed-
14	eral Water Pollution Control Act.".
15	SEC. 410. STATE REVOLVING LOAN FUNDS FOR AMERICAN
16	SAMOA, NORTHERN MARIANA ISLANDS,
17	GUAM, AND THE VIRGIN ISLANDS.
18	Section 1452(j) of the Safe Drinking Water Act (42
19	U.S.C. 300j-12(j)) is amended by striking "0.33 percent"
20	and inserting "1.5 percent".
21	SEC. 411. AUTHORIZATION OF APPROPRIATIONS.
22	Subsection (m) of section 1452 of the Safe Drinking
23	Water Act (42 U.S.C. 300j-12) is amended to read as
24	follows:
25	"(m) AUTHORIZATION OF APPROPRIATIONS —

1 "(1) IN GENERAL.—There are authorized to be 2 appropriated to carry out this section— "(A) \$3,130,000,000 for fiscal year 2017; 3 "(B) \$3,600,000,000 for fiscal year 2018; 4 "(C) \$4,140,000,000 for fiscal year 2019; 5 6 "(D) \$4,800,000,000 for fiscal year 2020; 7 and 8 "(E) \$5,500,000,000 for fiscal year 2021. 9 "(2) AVAILABILITY.—Amounts made available 10 pursuant to this subsection shall remain available 11 until expended. 12 "(3) Reservation for needs surveys.—Of 13 the amount made available under paragraph (1) to 14 carry out this section for a fiscal year, the Adminis-15 trator may reserve not more than \$1,000,000 per 16 year to pay the costs of conducting needs surveys 17 under subsection (h).". 18 SEC. 412. AFFORDABILITY OF NEW STANDARDS. 19 (a) Treatment Technologies for Small Public Water Systems.—Clause (ii) of section 1412(b)(4)(E) 20 21 of the Safe Drinking Water Act (42 U.S.C. 300g-22 1(b)(4)(E)) is amended by adding at the end the following: "If no technology, treatment technique, or other means is included in a list under this subparagraph for a category of small public water systems, the Administrator shall pe-

1	riodically review the list and supplement it when new tech-
2	nology becomes available.".
3	(b) Assistance for Disadvantaged Commu-
4	NITIES.—
5	(1) In general.—Subparagraph (E) of section
6	1452(a)(1) of the Safe Drinking Water Act (42
7	U.S.C. 300j-12(a)(1)) is amended—
8	(A) by striking "except that the Adminis-
9	trator may reserve" and inserting "except
10	that—
11	"(i) in any year in which enforcement
12	of a new national primary drinking water
13	standard begins, the Administrator may
14	use the remaining amount to make grants
15	to States whose public water systems are
16	disproportionately affected by the new
17	standard for the provision of assistance
18	under subsection (d) to such public water
19	systems;
20	"(ii) the Administrator may reserve";
21	and
22	(B) by striking "and none of the funds re-
23	allotted" and inserting "; and
24	"(iii) none of the funds reallotted".
25	(2) Elimination of certain provisions.—

1	(A) Section 1412(b) (42 U.S.C. 300g-
2	1(b)) of the Safe Drinking Water Act is amend-
3	ed by striking paragraph (15).
4	(B) Section 1415 (42 U.S.C. 300g-4) of
5	the Safe Drinking Water Act is amended by
6	striking subsection (e).
7	(3) Conforming amendments.—
8	(A) Subparagraph (B) of section
9	1414(c)(1) of the Safe Drinking Water Act (42
10	U.S.C. $300g-3(c)(1)(B)$) is amended by strik-
11	ing ", $(a)(2)$, or (e) " and inserting "or $(a)(2)$ ".
12	(B) Section 1416(b)(2) of the Safe Drink-
13	ing Water Act (42 U.S.C. $300g-5(b)(2)$) is
14	amended by striking subparagraph (D).
15	(C) Section 1445(h) of the Safe Drinking
16	Water Act (42 U.S.C. 300j-4(h)) is amended—
17	(i) by striking "sections
18	1412(b)(4)(E) and $1415(e)$ (relating to
19	small system variance program" and in-
20	serting "section 1412(b)(4)(E)"; and
21	(ii) by striking "guidance under sec-
22	tions $1412(b)(4)(E)$ and $1415(e)$ " and in-
23	serting "guidance under section
24	1412(b)(4)(E)".

1	SEC. 413. FOCUS ON LIFECYCLE COSTS.
2	Section 1412(b)(4) of the Safe Drinking Water Act
3	(42 U.S.C. 300g–1(b)(4)) is amended—
4	(1) in subparagraph (D), by striking "taking
5	cost into consideration" and inserting "taking
6	lifecycle costs, including maintenance, replacement,
7	and avoided costs, into consideration"; and
8	(2) in subparagraph (E)(ii), in the matter pre-
9	ceding subclause (I), by inserting "taking lifecycle
10	costs, including maintenance, replacement, and
11	avoided costs, into consideration," after "as deter-
12	mined by the Administrator in consultation with the
12	States,".
13	States, .
13	SEC. 414. BEST PRACTICES FOR ADMINISTRATION OF
14	SEC. 414. BEST PRACTICES FOR ADMINISTRATION OF
141516	SEC. 414. BEST PRACTICES FOR ADMINISTRATION OF STATE REVOLVING LOAN FUND PROGRAMS.
14151617	SEC. 414. BEST PRACTICES FOR ADMINISTRATION OF STATE REVOLVING LOAN FUND PROGRAMS. Section 1452 of the Safe Drinking Water Act (42)
14151617	SEC. 414. BEST PRACTICES FOR ADMINISTRATION OF STATE REVOLVING LOAN FUND PROGRAMS. Section 1452 of the Safe Drinking Water Act (42 U.S.C. 300j-12) is amended by inserting after subsection
1415161718	SEC. 414. BEST PRACTICES FOR ADMINISTRATION OF STATE REVOLVING LOAN FUND PROGRAMS. Section 1452 of the Safe Drinking Water Act (42 U.S.C. 300j-12) is amended by inserting after subsection (r), as added by section 407(b), the following:
141516171819	SEC. 414. BEST PRACTICES FOR ADMINISTRATION OF STATE REVOLVING LOAN FUND PROGRAMS. Section 1452 of the Safe Drinking Water Act (42 U.S.C. 300j-12) is amended by inserting after subsection (r), as added by section 407(b), the following: "(s) BEST PRACTICES FOR PROGRAM ADMINISTRA-
14151617181920	SEC. 414. BEST PRACTICES FOR ADMINISTRATION OF STATE REVOLVING LOAN FUND PROGRAMS. Section 1452 of the Safe Drinking Water Act (42 U.S.C. 300j-12) is amended by inserting after subsection (r), as added by section 407(b), the following: "(s) BEST PRACTICES FOR PROGRAM ADMINISTRATION.—The Administrator shall—
14 15 16 17 18 19 20 21	SEC. 414. BEST PRACTICES FOR ADMINISTRATION OF STATE REVOLVING LOAN FUND PROGRAMS. Section 1452 of the Safe Drinking Water Act (42 U.S.C. 300j-12) is amended by inserting after subsection (r), as added by section 407(b), the following: "(s) BEST PRACTICES FOR PROGRAM ADMINISTRATION.—The Administrator shall— "(1) collect information from States on admin-
14 15 16 17 18 19 20 21 22	SEC. 414. BEST PRACTICES FOR ADMINISTRATION OF STATE REVOLVING LOAN FUND PROGRAMS. Section 1452 of the Safe Drinking Water Act (42 U.S.C. 300j-12) is amended by inserting after subsection (r), as added by section 407(b), the following: "(s) BEST PRACTICES FOR PROGRAM ADMINISTRATION.—The Administrator shall— "(1) collect information from States on administration of State programs with respect to State

1	"(B) programs in place to assist with the
2	completion of application forms;
3	"(C) incentives provided to systems that
4	partner with small public water systems for the
5	application process; and
6	"(D) techniques to ensure that obligated
7	balances are liquidated in a timely fashion;
8	"(2) not later than 3 years after the date of en-
9	actment of the Assistance, Quality, and Affordability
10	Act of 2016, disseminate to the States' best prac-
11	tices for administration of such programs, based on
12	the information collected pursuant to this sub-
13	section; and
14	"(3) periodically update such best practices, as
15	appropriate.".
16	TITLE V—INCREASING COMPLI-
17	ANCE AND COMMUNITY
18	RIGHT TO KNOW
19	SEC. 501. STREAMLINING REPORTING AND ENFORCEMENT.
20	(a) Enforcement.—
21	(1) ADVICE AND TECHNICAL ASSISTANCE.—
22	Section 1414(a)(1) of the Safe Drinking Water Act
23	(42 U.S.C. 300g-3(a)(1)) is amended—
24	(A) in subparagraph (A), in the matter fol-
25	lowing clause (ii), by striking "and provide such

1	advice and technical assistance to such State
2	and public water system as may be appropriate
3	to bring the system into compliance with the re-
4	quirement by the earliest feasible time"; and
5	(B) by adding at the end the following:
6	"(C) At any time after providing notice of a violation
7	to a State and public water system under subparagraph
8	(A), the Administrator may provide such advice and tech-
9	nical assistance to such State and public water system as
10	may be appropriate to bring the system into compliance
11	with the requirement by the earliest feasible time. In de-
12	ciding whether the provision of advice or technical assist-
13	ance is appropriate, the Administrator may consider the
14	potential for the violation to result in serious adverse ef-
15	fects to human health, whether the violation has occurred
16	continuously or frequently, and the effectiveness of past
17	technical assistance efforts.".
18	(2) Additional inspections.—
19	(A) IN GENERAL.—Section 1414 of the
20	Safe Drinking Water Act (42 U.S.C. 300g–3) is
21	amended—
22	(i) by redesignating subsections (d)
23	through (i) as subsections (e) through (j),
24	respectively; and

1	(ii) by inserting after subsection (c)
2	the following:
3	"(d) Additional Inspections Following Viola-
4	TIONS.—
5	"(1) In General.—The Administrator shall,
6	by regulation, and after consultation with the States,
7	prescribe the number, frequency, and type of addi-
8	tional inspections to follow any violation requiring
9	notice under subsection (c). Regulations under this
10	subsection shall—
11	"(A) take into account—
12	"(i) differences between violations
13	that are intermittent or infrequent and vio-
14	lations that are continuous or frequent;
15	"(ii) the seriousness of any potential
16	adverse health effects that may be in-
17	volved; and
18	"(iii) the number and severity of past
19	violations by the public water system; and
20	"(B) specify procedures for inspections fol-
21	lowing a violation by a public water system that
22	has the potential to have serious adverse effects
23	on human health as a result of short-term expo-
24	sure.

1	"(2) State primary enforcement responsi-
2	BILITY.—Nothing in this subsection shall be con-
3	strued or applied to modify the requirements of sec-
4	tion 1413.".
5	(B) Conforming amendments.—
6	(i) Subsections $(a)(1)(B)$, $(a)(2)(A)$,
7	and (b) of section 1414 of the Safe Drink-
8	ing Water Act (42 U.S.C. 300g-3) are
9	amended by striking "subsection (g)" each
10	place it appears and inserting "subsection
11	(h)".
12	(ii) Section 1448(a) of the Safe
13	Drinking Water Act (42 U.S.C. 300j-7(a))
14	is amended by striking "1414(g)(3)(B)"
15	and inserting " $1414(h)(3)(B)$ ".
16	(b) Electronic Reporting of Compliance Moni-
17	TORING DATA TO THE ADMINISTRATOR.—
18	(1) Requirement.—Section 1414 of the Safe
19	Drinking Water Act (42 U.S.C. 300g-3), as amend-
20	ed, is further amended by adding at the end the fol-
21	lowing:
22	"(k) Electronic Reporting of Compliance
23	MONITORING DATA TO THE ADMINISTRATOR.—The Ad-
24	ministrator shall by rule establish requirements for—

1	"(1) electronic submission by public water sys-
2	tems of all compliance monitoring data—
3	"(A) to the Administrator; or
4	"(B) with respect to public water systems
5	in a State which has primary enforcement re-
6	sponsibility under section 1413, to such State;
7	and
8	"(2) electronic submission to the Administrator
9	by each State which has primary enforcement re-
10	sponsibility under section 1413 of all compliance
11	monitoring data submitted to such State by public
12	water systems pursuant to paragraph (1)(B).".
13	(2) Final Rule.—Not later than 12 months
14	after the date of the enactment of this Act, the Ad-
15	ministrator of the Environmental Protection Agency
16	shall issue a final rule to carry out section 1414(k)
17	of the Safe Drinking Water Act, as added by para-
18	graph (1).
19	SEC. 502. CONSOLIDATION.
20	(a) Mandatory Assessment and Consolida-
21	TION.—Subsection (i) of section 1414 of the Safe Drink-
22	ing Water Act (42 U.S.C. 300g–3), as redesignated by
23	section 501(a)(2), is amended by adding at the end the
24	following:

1	"(3) Authority for mandatory assessment
2	AND MANDATORY CONSOLIDATION.—
3	"(A) Mandatory assessment.—A State
4	with primary enforcement responsibility or the
5	Administrator (if the State does not have pri-
6	mary enforcement responsibility) may require
7	the owner or operator of a public water system
8	to assess options for consolidation, or transfer
9	of ownership of the system, as described in
10	paragraph (1), if—
11	"(i) the public water system has re-
12	peatedly failed to comply with one or more
13	national primary drinking water regula-
14	tions;
15	"(ii) such consolidation or transfer is
16	feasible; and
17	"(iii) such consolidation or transfer
18	could result in greater compliance with na-
19	tional primary drinking water regulations.
20	"(B) Mandatory consolidation.—A
21	State with primary enforcement responsibility
22	or the Administrator (if the State does not have
23	primary enforcement responsibility) may require
24	the owner or operator of a public water system
25	to submit a plan for consolidation, or transfer

1	of ownership of the system, as described in
2	paragraph (1), and complete the actions re-
3	quired under such plan if—
4	"(i) the owner or operator of the pub-
5	lic water system completed the assessment
6	required under paragraph (A), but did not
7	complete consolidation or transfer of own-
8	ership;
9	"(ii) since completing such assess-
10	ment, the public water system has failed to
11	comply with one or more national primary
12	drinking water regulations; and
13	"(iii) such consolidation or transfer is
14	feasible.
15	"(C) REGULATIONS.—Not later than 2
16	years after the date of enactment of the Safe
17	Drinking Water Act Amendments of 2016, the
18	Administrator shall promulgate regulations to
19	implement this paragraph.
20	"(4) Financial assistance.—Notwithstand-
21	ing section 1452(a)(3), public water systems under-
22	taking consolidation or transfer of ownership pursu-
23	ant to this section may receive assistance under sec-
24	tion 1452 to carry out such consolidation or trans-
25	fer.

1	"(5) Protection of non-responsible sys-
2	TEM.—
3	"(A) Identification of liabilities.—
4	An owner or operator of a public water system
5	submitting a plan pursuant to this section shall
6	identify as part of such plan—
7	"(i) any potential liability for damages
8	arising from each specific violation identi-
9	fied in the plan of which the owner or op-
10	erator is aware or should be aware; and
11	"(ii) any funds or other assets avail-
12	able to satisfy such liability that are avail-
13	able, as of the date of submission of such
14	plan, to the public water system that com-
15	mitted such violation.
16	"(B) Reservation of funds.—A public
17	water system that has completed consolidation
18	with another public water system pursuant to a
19	plan approved or required pursuant to this sec-
20	tion shall not be liable in a civil action for any
21	damages arising from a specific violation identi-
22	fied in such plan, except to the extent to which
23	funds or other assets are identified pursuant to
24	subparagraph (A)(ii) as available to satisfy such
25	liability.".

(b) RETENTION OF PRIMARY ENFORCEMENT AU-1 2 THORITY.— 3 (1) IN GENERAL.—Section 1413(a) of the Safe 4 Drinking Water Act (42 U.S.C. 300g–2(a)) is 5 amended— 6 (A) in paragraph (5), by striking "; and" 7 and inserting a semicolon; 8 (B) by redesignating paragraph (6) as 9 paragraph (7); and 10 (C) by inserting after paragraph (5) the 11 following new paragraph: 12 "(6) has adopted and is implementing proce-13 dures for requiring public water systems to assess 14 options for, and complete, consolidation or transfer 15 of ownership, in accordance with the regulations 16 issued by the Administrator to implement section 17 1414(i)(3); and". 18 (2)Conforming AMENDMENT.—Section 19 1413(b)(1) of the Safe Drinking Water Act (42) 20 U.S.C. 300g-2(b)(1)) is amended by striking "of 21 paragraphs (1), (2), (3), and (4)". 22 SEC. 503. WATER VIOLATIONS INVENTORY. 23 Section 1414 of the Safe Drinking Water Act (42) U.S.C. 300g-3), as amended, is further amended by adding at the end the following new subsection:

"(1) EPA MANAGEMENT OF DATA.—

"(1) ESTABLISHMENT OF INVENTORY.—Not later than one year after the date of enactment of the Safe Drinking Water Act Amendments of 2016, the Administrator shall establish and maintain in a computer data base an inventory based on data submitted to the Administrator under this section regarding violations and exceedances. The Administrator shall make these data publicly accessible and searchable by zip code and county, and available in appropriate languages.

"(2) Report on hot spots and disproportionate impacts on communities of particular demographic categories as shown by the data in the inventory under paragraph (1)."

1 SEC. 504. IMPROVED CONSUMER CONFIDENCE REPORTS.

- 2 Section 1414(c)(4) of the Safe Drinking Water Act
- 3 (42 U.S.C. 300g-3(c)(4)) is amended by adding at the end
- 4 the following new subparagraph:
- 5 "(F) REVISIONS.—Not later than 24
- 6 months after the date of enactment of the Safe
- 7 Drinking Water Act Amendments of 2016, the
- 8 Administrator, in consultation with the groups
- 9 identified in subparagraph (A), shall promul-
- gate revisions to the regulations issued pursu-
- ant to subparagraph (A) to increase the effec-
- tiveness and understandability of consumer con-
- fidence reports.".

14 TITLE VI—STUDIES AND

15 **TECHNOLOGY**

- 16 SEC. 601. REAL TIME MONITORING TECHNOLOGY RE-
- 17 SEARCH GRANTS.
- 18 (a) Grant Program.—Not later than 1 year after
- 19 the date of enactment of this Act, the Administrator of
- 20 the Environmental Protection Agency shall establish a
- 21 grant program to provide funds to projects to develop
- 22 technology for real-time monitoring of drinking water con-
- 23 taminants. Grants awarded under this section shall be
- 24 awarded on a competitive basis after solicitation and eval-
- 25 uation of proposals.

- 1 (b) Projects.—Projects eligible for funding under
- 2 the grant program established under this section include
- 3 projects for the—
- 4 (1) development of new hardware and tech-
- 5 nology, or improvement of existing hardware or tech-
- 6 nology, that monitors contaminants in drinking
- 7 water in real-time; and
- 8 (2) development of software that assists in real-
- 9 time monitoring of contaminants in drinking water.
- 10 (c) Report to Congress.—Not later than 3 years
- 11 after the date of enactment of this Act, the Administrator
- 12 shall submit to the Committee on Energy and Commerce
- 13 of the House of Representatives and the Committee on
- 14 Environment and Public Works of the Senate a report de-
- 15 scribing the projects funded under the grant program es-
- 16 tablished under this section and the technology that has
- 17 been developed as a result of such projects.
- 18 (d) Authorization of Appropriations.—There
- 19 are authorized to be appropriated \$10,000,000 for fiscal
- 20 year 2017 to carry out this section, which shall remain
- 21 available until expended.

1	SEC. 602. PRESENCE OF PHARMACEUTICALS AND PER-
2	SONAL CARE PRODUCTS IN SOURCES OF
3	DRINKING WATER.
4	Subsection (a) of section 1442 of the Safe Drinking
5	Water Act (42 U.S.C. 300j-1) is amended by adding at
6	the end the following:
7	"(11) Presence of Pharmaceuticals and Per-
8	SONAL CARE PRODUCTS IN SOURCES OF DRINKING
9	Water.—
10	"(A) Study.—The Administrator shall carry
11	out a study on the presence of pharmaceuticals and
12	personal care products in sources of drinking water,
13	which shall—
14	"(i) identify pharmaceuticals and personal
15	care products that have been detected in
16	sources of drinking water and the levels at
17	which such pharmaceuticals and personal care
18	products have been detected;
19	"(ii) identify the sources of pharma-
20	ceuticals and personal care products in sources
21	of drinking water, including point sources and
22	nonpoint sources of pharmaceutical and per-
23	sonal care products;
24	"(iii) identify the effects of such pharma-
25	ceuticals and personal care products on hu-

1	mans, the environment, and the safety of drink-
2	ing water; and
3	"(iv) identify methods to control, limit,
4	treat, or prevent the presence of such personal
5	care pharmaceuticals and products.
6	"(B) Consultation.—The Administrator shall
7	conduct the study described in subparagraph (A) in
8	consultation with the Secretary of Health and
9	Human Services (acting through the Commissioner
10	of Food and Drugs), the Director of the United
11	States Geological Survey, the heads of other appro-
12	priate Federal agencies (including the National In-
13	stitute of Environmental Health Sciences), and other
14	interested stakeholders (including manufacturers of
15	pharmaceuticals and personal care products and
16	consumer groups and advocates).
17	"(C) Report.—Not later than 4 years after
18	the date of the enactment of this paragraph, the Ad-
19	ministrator shall submit to the Congress a report on
20	the results of the study carried out under this para-
21	graph.
22	"(D) Definitions.—In this paragraph:
23	"(i) The term 'personal care product' has
24	the meaning given the term 'cosmetic' in section

1	201 of the Federal Food, Drug, and Cosmetic
2	Act.
3	"(ii) The term 'pharmaceutical' has the
4	meaning given the term 'drug' in section 201 of
5	the Federal Food, Drug, and Cosmetic Act.".
6	SEC. 603. WATER LOSS AND LEAK CONTROL TECHNOLOGY.
7	Part E of the Safe Drinking Water Act (42 U.S.C.
8	300j et seq.), as amended, is further amended by adding
9	at the end the following:
10	"SEC. 1459B. WATER LOSS AND LEAK CONTROL TECH-
11	NOLOGY.
	NOLOGY. "The Administrator shall—
11	
11 12	"The Administrator shall—
11 12 13	"The Administrator shall—"(1) not later than 5 years after the date of en-
11 12 13	"(1) not later than 5 years after the date of enactment of this section, develop criteria for effective
111 112 113 114 115	"(1) not later than 5 years after the date of enactment of this section, develop criteria for effective water loss and leak control technology to be used by
111 112 113 114 115	"The Administrator shall— "(1) not later than 5 years after the date of enactment of this section, develop criteria for effective water loss and leak control technology to be used by public water systems; and
111 12 13 14 15 16	"(1) not later than 5 years after the date of enactment of this section, develop criteria for effective water loss and leak control technology to be used by public water systems; and "(2) implement a program through which a