AMENDMENT NO._____ Calendar No._____

Purpose: To provide for perfluoroalkyl and polyfluoroalkyl substances release disclosure, detection, and safe drinking water assistance.

IN THE SENATE OF THE UNITED STATES—116th Cong., 1st Sess.

S. 1790

To authorize appropriations for fiscal year 2020 for military activities of the Department of Defense, for military construction, and for defense activities of the Department of Energy, to prescribe military personnel strengths for such fiscal year, and for other purposes.

Referred to the Committee on _____ and ordered to be printed

Ordered to lie on the table and to be printed

AMENDMENTS intended to be proposed by Mrs. CAPITO (for herself, Mr. CARPER, and Mr. BARRASSO)

Viz:

1 In section 318(a), add at the end the following:

2 (3) OTHER AUTHORITY.—In addition to the re-
3 quirements under paragraph (1), when otherwise au-
4 thorized to expend funds for the purpose of address-
5 ing ground or surface water contaminated by a
6 perfluorinated compound, the Secretary of Defense
7 may, to expend those funds, enter into a grant
8 agreement, cooperative agreement, or contract
9 with—

(A) the local water authority with jurisdiction over the contamination site, including—

(i) a public water system (as defined in section 1401 of the Safe Drinking Water Act (42 U.S.C. 300f)); and

(ii) a publicly owned treatment works (as defined in section 212 of the Federal Water Pollution Control Act (33 U.S.C. 1292)); or

(B) a State, local, or Tribal government.

At the end of division A, add the following:

TITLE XVII—PFAS RELEASE DISCLOSURE, DETECTION, AND SAFE DRINKING WATER ASSISTANCE

SEC. 1701. DEFINITION OF ADMINISTRATOR.

In this title, the term ''Administrator'' means the Administrator of the Environmental Protection Agency.

Subtitle A—PFAS Release Disclosure

SEC. 1711. ADDITIONS TO TOXICS RELEASE INVENTORY.

(a) DEFINITIONS.—In this section:

(1) ADMINISTRATOR.—The term "Administrator" means the Administrator of the Environmental Protection Agency.

(2) TOXICS RELEASE INVENTORY.—The term "toxics release inventory" means the toxics release inventory under section 313(c) of the Emergency Planning and Community Right-To-Know Act of 1986 (42 U.S.C. 11023(c)).

(b) IMMEDIATE INCLUSION.—

(1) IN GENERAL.—Subject to subsection (e), beginning January 1 of the calendar year following the date of enactment of this Act, the following chemicals shall be deemed to be included in the toxics release inventory:

(A) Perfluorooctanoic acid (commonly referred to as "PFOA") (Chemical Abstracts Service No. 335–67–1).

(B) The salt associated with the chemical described in subparagraph (A) (Chemical Abstracts Service No. 3825–26–1).

(C) Perfluorooctane sulfonic acid (commonly referred to as "PFOS") (Chemical Abstracts Service No. 1763–23–1).

(D) The salts associated with the chemical described in subparagraph (C) (Chemical Ab-

stract Service Nos. 45298–90–6, 29457–72–5, 56773–42–3, 29081–56–9, 4021–47–0, 111873–33–7, and 91036–71–4).

(E) A perfluoroalkyl or polyfluoroalkyl substance or class of perfluoroalkyl or polyfluoroalkyl substances that is—

(i) listed as an active chemical substance in the February 2019 update to the inventory under section 8(b)(1) of the Toxic Substances Control Act (15 U.S.C. 2607(b)(1)); and

(ii) on the date of enactment of this Act, subject to the provisions of—

(I) section 721.9582 of title 40, Code of Federal Regulations; or

(II) section 721.10536 of title 40, Code of Federal Regulations.

(2) THRESHOLD FOR REPORTING.—

(A) IN GENERAL.—Subject to subparagraph (B), the threshold for reporting the chemicals described in paragraph (1) under section 313(f)(1) of the Emergency Planning and Community Right-To-Know Act of 1986 (42 U.S.C. 11023(f)(1)) is 100 pounds.

(B) REVISIONS.—Not later than 5 years after the date of enactment of this Act, the Administrator shall—

(i) determine whether revision of the threshold under subparagraph (A) is warranted; and

(ii) if the Administrator determines a revision to be warranted under clause (i), initiate a revision under section 313(f)(2) of the Emergency Planning and Community Right-To-Know Act of 1986 (42 U.S.C. 11023(f)(2)).

(c) INCLUSION FOLLOWING ASSESSMENT.—

(1) IN GENERAL.—Subject to subsection (e), a perfluoroalkyl or polyfluoroalkyl substance or class of perfluoroalkyl or polyfluoroalkyl substances shall be automatically included in the toxics release inventory beginning January 1 of the calendar year after any of the following dates:

(A) ESTABLISHMENT OF TOXICITY VALUE.—The date on which the Administrator establishes a toxicity value for the perfluoroalkyl or polyfluoroalkyl substance or class of perfluoroalkyl or polyfluoroalkyl substances.

(B) SIGNIFICANT NEW USE RULE.—The date on which the Administrator finalizes a significant new use rule under subsection (a)(2) of section 5 of the Toxic Substances Control Act (15 U.S.C. 2604), except a significant new use rule promulgated in connection with an order issued under subsection (e) of that section, for the perfluoroalkyl or polyfluoroalkyl substance or class of perfluoroalkyl or polyfluoroalkyl substances.

(C) ADDITION TO EXISTING SIGNIFICANT NEW USE RULE.—The date on which the perfluoroalkyl or polyfluoroalkyl substance or class of perfluoroalkyl or polyfluoroalkyl substances is added to a list of substances covered by a significant new use rule previously promulgated under subsection (a)(2) of section 5 of the Toxic Substances Control Act (15 U.S.C. 2604), except a significant new use rule promulgated in connection with an order issued under subsection (e) of that section.

(D) ADDITION AS ACTIVE CHEMICAL SUBSTANCE.—The date on which the perfluoroalkyl or polyfluoroalkyl substance or class of perfluoroalkyl or polyfluoroalkyl substances that

is on a list of substances covered by a significant new use rule under subsection (a)(2) of section 5 of the Toxic Substances Control Act (15 U.S.C. 2604), except a significant new use rule promulgated in connection with an order issued under subsection (e) of that section, is—

(i) added to the inventory under subsection (b)(1) of section 8 of the Toxic Substances Control Act (15 U.S.C. 2607) and designated as an active chemical substance under subsection (b)(5)(A) of that section; or

(ii) designated as an active chemical substance on the inventory in accordance with subsection (b)(5)(B) of that section.

(2) THRESHOLD FOR REPORTING.—

(A) IN GENERAL.—Subject to subparagraph (B), the threshold for reporting under section 313(f)(1) of the Emergency Planning and Community Right-To-Know Act of 1986 (42 U.S.C. 11203(f)(1)) the substances and classes of substances included in the toxics release inventory under paragraph (1) is 100 pounds.

(B) REVISIONS.—Not later than 5 years after the date of enactment of this Act, the Administrator shall—

(i) determine whether revision of the thresholds under subparagraph (A) is warranted; and

(ii) if the Administrator determines a revision to be warranted under clause (i), initiate a revision under section 313(f)(2) of the Emergency Planning and Community Right-To-Know Act of 1986 (42 U.S.C. 11023(f)(2)).

(d) INCLUSION FOLLOWING DETERMINATION.—

(1) IN GENERAL.—To the extent not already subject to subsection (b), not later than 2 years after the date of enactment of this Act, the Administrator shall determine whether the substances and classes of substances described in paragraph (2) meet the criteria described in section 313(d)(2) of the Emergency Planning and Community Right-To-Know Act of 1986 (42 U.S.C. 11023(d)(2)) for inclusion in the toxics release inventory.

(2) SUBSTANCES DESCRIBED.—The substances and classes of substances referred to in paragraph (1) are perfluoroalkyl and polyfluoroalkyl substances

and classes of perfluoroalkyl and polyfluoroalkyl substances, including—

(A) hexafluoropropylene oxide dimer acid (Chemical Abstracts Service No. 13252–13–6);

(B) the compounds associated with the chemical described in subparagraph (A) (Chemical Abstracts Service Nos. 62037–80–3 and 2062–98–8);

(C) perfluoro[(2-pentafluoroethoxy-ethoxy)acetic acid] ammonium salt (Chemical Abstracts Service No. 908020–52–0);

(D) 2,3,3,3-tetrafluoro 2-(1,1,2,3,3,3-hexafluoro)-2-(trifluoromethoxy) propanoyl fluoride (Chemical Abstracts Service No. 2479–75–6);

(E) 2,3,3,3-tetrafluoro 2-(1,1,2,3,3,3-hexafluoro)-2-(trifluoromethoxy) propionic acid (Chemical Abstracts Service No. 2479–73–4);

(F) 3H-perfluoro-3-[(3-methoxy-propoxy) propanoic acid] (Chemical Abstracts Service No. 919005–14–4);

(G) the salts associated with the chemical described in subparagraph (F) (Chemical Abstracts Service Nos. 958445–44–8, 1087271–46–2, and NOCAS_892452);

(H) 1-octanesulfonic acid 3,3,4,4,5,5,6,6,7,7,8,8-tridecafluoro-potassium salt (Chemical Abstracts Service No. 59587–38–1);

(I) perfluorobutanesulfonic acid (Chemical Abstracts Service No. 375–73–5);

(J) 1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-potassium salt (Chemical Abstracts Service No. 29420–49–3);

(K) the component associated with the chemical described in subparagraph (J) (Chemical Abstracts Service No. 45187–15–3);

(L) heptafluorobutyric acid (Chemical Abstracts Service No. 375–22–4);

(M) perfluorohexanoic acid (Chemical Abstracts Service No. 307–24–4);

(N) each perfluoroalkyl or polyfluoroalkly substance or class of perfluoroalkyl or polyfluoroalkyl substances for which a method to measure levels in drinking water has been validated by the Administrator; and

(O) a perfluoroalkyl and polyfluoroalkyl substance or class of perfluoroalkyl or polyfluoroalkyl substances other than the chemicals described in subparagraphs (A)

through (N) that is used to manufacture fluoropolymers, as determined by the Administrator.

(3) ADDITION TO TOXICS RELEASE INVENTORY.—Subject to subsection (e), if the Administrator determines under paragraph (1) that a substance or a class of substances described in paragraph (2) meets the criteria described in section 313(d)(2) of the Emergency Planning and Community Right-To-Know Act of 1986 (42 U.S.C. 11023(d)(2)), the Administrator shall revise the toxics release inventory to include that substance or class of substances not later than 2 years after the date on which the Administrator makes the determination.

(e) CONFIDENTIAL BUSINESS INFORMATION.—

(1) IN GENERAL.—Prior to including on the toxics release inventory pursuant to subsection (b)(1), (c)(1), or (d)(3) any perfluoroalkyl or polyfluoroalkyl substance or class of perfluoroalkyl or polyfluoroalkyl substances the chemical identity of which is subject to a claim of a person of protection from disclosure under subsection (a) of section 552 of title 5, United States Code, pursuant to sub-

section (b)(4) of that section, the Administrator shall—

(A) review that claim of protection from disclosure; and

(B) require that person to reassert and substantiate or resubstantiate that claim in accordance with section 14(f) of the Toxic Substances Control Act (15 U.S.C. 2613(f)).

(2) NONDISCLOSURE OF PROTECTION INFORMATION.—If the Administrator determines that the chemical identity of a perfluoroalkyl or polyfluoroalkyl substance or class of perfluoroalkyl or polyfluoroalkyl substances qualifies for protection from disclosure under paragraph (1), the Administrator shall include the substance or class of substances, as applicable, on the toxics release inventory in a manner that does not disclose the protected information.

(f) EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986.—Section 313(c) of the Emergency Planning and Community Right-To-Know Act of 1986 (42 U.S.C. 11023(c)) is amended—

(1) by striking the period at the end and inserting "; and";

(2) by striking "are those chemicals" and inserting the following: "are—

"(1) the chemicals"; and

(3) by adding at the end the following:

"(2) the chemicals included under subsections (b)(1), (c)(1), and (d)(3) of section 1711 of the National Defense Authorization Act for Fiscal Year 2020.".

Subtitle B—Drinking Water

SEC. 1721. NATIONAL PRIMARY DRINKING WATER REGULATIONS FOR PFAS.

Section 1412(b)(2) of the Safe Drinking Water Act (42 U.S.C. 300g–1(b)(2)) is amended by adding at the end the following:

"(D) PERFLUOROALKYL AND POLYFLUOROALKYL SUBSTANCES.—

"(i) IN GENERAL.—Not later than 2 years after the date of enactment of this subparagraph, the Administrator shall promulgate a national primary drinking water regulation for perfluoroalkyl and polyfluoroalkyl substances, which shall, at a minimum, include standards for—

"(I) perfluorooctanoic acid (commonly referred to as 'PFOA'); and

"(II) perfluorooctane sulfonic acid (commonly referred to as 'PFOS').

"(ii) ALTERNATIVE PROCEDURES.—

"(I) IN GENERAL.—Not later than 1 year after the validation by the Administrator of an equally effective quality control and testing procedure to ensure compliance with that national primary drinking water regulation to measure the levels described in subclause (II) or other methods to detect and monitor perfluoroalkyl and polyfluoroalkyl substances in drinking water, the Administrator shall add the procedure or method as an alternative to the quality control and testing procedure described in that national primary drinking water regulation by publishing the procedure or method in the Federal Register.

"(II) LEVELS DESCRIBED.—The levels referred to in subclause (I) are—

"(aa) the level of a perfluoroalkyl or polyfluoroalkyl substance;

"(bb) the total levels of perfluoroalkyl and polyfluoroalkyl substances; and

"(cc) the total levels of organic fluorine.

"(iii) INCLUSIONS.—The Administrator may include a perfluoroalkyl or polyfluoroalkyl substance or class of perfluoroalkyl or polyfluoroalkyl substances on—

"(I) the list of contaminants for consideration of regulation under paragraph (1)(B)(i); and

"(II) the list of unregulated contaminants to be monitored under section 1445(a)(2)(B)(i).

"(iv) MONITORING.—When establishing monitoring requirements for public water systems as part of a national primary drinking water regulation under clause (i) or clause (vi)(II), the Administrator shall tailor the monitoring require-

1 ments for public water systems that do not
2 detect or are reliably and consistently
3 below the maximum contaminant level (as
4 defined in section 1418(b)(2)(B)) for the
5 perfluoroalkyl or polyfluoroalkyl substance
6 or class of perfluoroalkyl or polyfluoroalkyl
7 substances subject to the national primary
8 drinking water regulation.

9 "(v) HEALTH RISK REDUCTION AND
10 COST ANALYSIS.—In meeting the require-
11 ments of paragraph (3)(C), the Adminis-
12 trator may rely on information available to
13 the Administrator with respect to 1 or
14 more specific perfluoroalkyl or
15 polyfluoroalkyl substances to extrapolate
16 reasoned conclusions regarding the health
17 risks and effects of a class of
18 perfluoroalkyl or polyfluoroalkyl substances
19 of which the specific perfluoroalkyl or
20 polyfluoroalkyl substances are a part.

21 "(vi) REGULATION OF ADDITIONAL
22 SUBSTANCES.—

23 "(I) DETERMINATION.—The Ad-
24 ministrator shall make a determina-
25 tion under paragraph (1)(A), using

the criteria described in clauses (i) through (iii) of that paragraph, whether to include a perfluoroalkyl or polyfluoroalkyl substance or class of perfluoroalkyl or polyfluoroalkyl substances in the national primary drinking water regulation under clause (i) not later than 18 months after the later of—

"(aa) the date on which the perfluoroalkyl or polyfluoroalkyl substance or class of perfluoroalkyl or polyfluoroalkyl substances is listed on the list of contaminants for consideration of regulation under paragraph (1)(B)(i); and

"(bb) the date on which—

"(AA) the Administrator has received the results of monitoring under section 1445(a)(2)(B) for the perfluoroalkyl or polyfluoroalkyl substance or

1 class of perfluoroalkyl or
2 polyfluoroalkyl substance; or
3 "(BB) the Adminis-
4 trator has received finished
5 water data or finished water
6 monitoring surveys for the
7 perfluoroalkyl or
8 polyfluoroalkyl substance or
9 class of perfluoroalkyl or
10 polyfluoroalkyl substances
11 from a Federal or State
12 agency that the Adminis-
13 trator determines to be suf-
14 ficient to make a determina-
15 tion under paragraph
16 (1)(A).
17 "(II) PRIMARY DRINKING WATER
18 REGULATIONS.—
19 "(aa) IN GENERAL.—For
20 each perfluoroalkyl or
21 polyfluoroalkyl substance or class
22 of perfluoroalkyl or
23 polyfluoroalkyl substances that
24 the Administrator determines to

1 regulate under subclause (I), the
2 Administrator—
3 "(AA) not later than 18
4 months after the date on
5 which the Administrator
6 makes the determination,
7 shall propose a national pri-
8 mary drinking water regula-
9 tion for the perfluoroalkyl or
10 polyfluoroalkyl substance or
11 class of perfluoroalkyl or
12 polyfluoroalkyl substances;
13 and
14 "(BB) may publish the
15 proposed national primary
16 drinking water regulation
17 described in subitem (AA)
18 concurrently with the publi-
19 cation of the determination
20 to regulate the
21 perfluoroalkyl or
22 polyfluoroalkyl substance or
23 class of perfluoroalkyl or
24 polyfluoroalkyl substances.
25 "(bb) DEADLINE.—

"(AA) IN GENERAL.—Not later than 1 year after the date on which the Administrator publishes a proposed national primary drinking water regulation under item (aa)(AA) and subject to subitem (BB), the Administrator shall take final action on the proposed national primary drinking water regulation.

"(BB) EXTENSION.—The Administrator, on publication of notice in the Federal Register, may extend the deadline under subitem (AA) by not more than 6 months.

"(vii) LIFETIME DRINKING WATER HEALTH ADVISORY.—

"(I) IN GENERAL.—Subject to subclause (II), the Administrator shall publish a health advisory under paragraph (1)(F) for a perfluoroalkyl or

1 polyfluoroalkyl substance or class of
2 perfluoroalkyl or polyfluoroalkyl sub-
3 stances not later than 1 year after the
4 later of—
5 "(aa) the date on which the
6 Administrator finalizes a toxicity
7 value for the perfluoroalkyl or
8 polyfluoroalkyl substance or class
9 of perfluoroalkyl or
10 polyfluoroalkyl substances; and
11 "(bb) the date on which the
12 Administrator validates an effec-
13 tive quality control and testing
14 procedure for the perfluoroalkyl
15 or polyfluoroalkyl substance or
16 class of perfluoroalkyl or
17 polyfluoroalkyl substance, if such
18 a procedure did not exist on the
19 date on which the toxicity value
20 described in item (aa) was final-
21 ized.
22 "(II) WAIVER.—The Adminis-
23 trator may waive the requirements of
24 subclause (I) with respect to a
25 perfluoroalkyl or polyfluoroalkyl sub-

stance or class of perfluoroalkyl and polyfluoroalkyl substances if the Administrator determines that there is a substantial likelihood that the perfluoroalkyl or polyfluoroalkyl substance or class of perfluoroalkyl or polyfluoroalkyl substances will not occur in drinking water.''.

SEC. 1722. MONITORING AND DETECTION.

(a) MONITORING PROGRAM FOR UNREGULATED CONTAMINANTS.—

(1) IN GENERAL.—The Administrator shall include each substance described in paragraph (2) in the fifth publication of the list of unregulated contaminants to be monitored under section 1445(a)(2)(B)(i) of the Safe Drinking Water Act (42 U.S.C. 300j–4(a)(2)(B)(i)).

(2) SUBSTANCES DESCRIBED.—The substances referred to in paragraph (1) are perfluoroalkyl and polyfluoroalkyl substances and classes of perfluoroalkyl and polyfluoroalkyl substances—

(A) for which a method to measure the level in drinking water has been validated by the Administrator; and

(B) that are not subject to a national primary drinking water regulation under clause (i) or (vi)(II) of subparagraph (D) of section 1412(b)(2) of the Safe Drinking Water Act (42 U.S.C. 300g–1(b)(2)).

(3) EXCEPTION.—The perfluoroalkyl and polyfluoroalkyl substances and classes of perfluoroalkyl and polyfluoroalkyl substances included in the list of unregulated contaminants to be monitored under section 1445(a)(2)(B)(i) of the Safe Drinking Water Act (42 U.S.C. 300j–4(a)(2)(B)(i)) under paragraph (1) shall not count towards the limit of 30 unregulated contaminants to be monitored by public water systems under that section.

(b) APPLICABILITY.—

(1) IN GENERAL.—The Administrator shall—

(A) require public water systems serving more than 10,000 persons to monitor for the substances described in subsection (a)(2);

(B) subject to paragraph (2) and the availability of appropriations, require public water systems serving not fewer than 3,300 and not more than 10,000 persons to monitor for the substances described in subsection (a)(2); and

(C) subject to paragraph (2) and the availability of appropriations, ensure that only a representative sample of public water systems serving fewer than 3,300 persons are required to monitor for the substances described in subsection (a)(2).

(2) REQUIREMENT.—If the Administrator determines that there is not sufficient laboratory capacity to carry out the monitoring required under subparagraphs (B) and (C) of paragraph (1), the Administrator may waive the monitoring requirements in those subparagraphs.

(3) FUNDS.—The Administrator shall pay the reasonable cost of such testing and laboratory analysis as is necessary to carry out the monitoring required under paragraph (1) from—

(A) funds made available under subsection (a)(2)(H) or (j)(5) of section 1445 of the Safe Drinking Water Act (42 U.S.C. 300j–4); or

(B) any other funds made available for that purpose.

SEC. 1723. ENFORCEMENT.

Notwithstanding any other provision of law, the Administrator may not impose financial penalties for the violation of a national primary drinking water regulation (as

1 defined in section 1401 of the Safe Drinking Water Act
2 (42 U.S.C. 300f)) with respect to a perfluoroalkyl or
3 polyfluoroalkyl substance or class of perfluoroalkyl or
4 polyfluoroalkyl substances for which a national primary
5 drinking water regulation has been promulgated under
6 clause (i) or (vi) of subparagraph (D) of section
7 1412(b)(2) of the Safe Drinking Water Act (42 U.S.C.
8 300g–1(b)(2)) earlier than the date that is 5 years after
9 the date on which the Administrator promulgates the na-
10 tional primary drinking water regulation.

11 **SEC. 1724. DRINKING WATER STATE REVOLVING FUNDS.**

12 Section 1452 of the Safe Drinking Water Act (42
13 U.S.C. 300j–12) is amended—

14 (1) in subsection (a)(2), by adding at the end
15 the following:

16 "(G) EMERGING CONTAMINANTS.—

17 "(i) IN GENERAL.—Subject to clause
18 (ii), amounts deposited under subsection
19 (t) in a State loan fund established under
20 this section may be used to provide grants
21 for the purpose of addressing emerging
22 contaminants, with a focus on
23 perfluoroalkyl and polyfluoroalkyl sub-
24 stances.

25 "(ii) REQUIREMENTS.—

"(I) SMALL AND DISADVANTAGED COMMUNITIES.—Not less than 25 percent of the amounts described in clause (i) shall be used to provide grants to—

"(aa) disadvantaged communities (as defined in subsection (d)(3)); or

"(bb) public water systems serving fewer than 25,000 persons.

"(II) PRIORITIES.—In selecting the recipient of a grant using amounts described in clause (i), a State shall use the priorities described in subsection (b)(3)(A).";

(2) in subsection (m)(1), in the matter preceding subparagraph (A), by striking "this section" and inserting "this section, except for subsections (a)(2)(G) and (t)"; and

(3) by adding at the end the following:

"(t) EMERGING CONTAMINANTS.—

"(1) IN GENERAL.—Amounts made available under this subsection shall be allotted to a State as if allotted under subsection (a)(1)(D) as a capital-

ization grant, for deposit into the State loan fund of the State, for the purposes described in subsection (a)(2)(G).

"(2) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this subsection $100,000,000 for each of fiscal years 2020 through 2024, to remain available until expended.".

Subtitle C—PFAS Detection

SEC. 1731. DEFINITIONS.

In this subtitle:

(1) DIRECTOR.—The term "Director" means the Director of the United States Geological Survey.

(2) PERFLUORINATED COMPOUND.—

(A) IN GENERAL.—The term "perfluorinated compound" means a perfluoroalkyl substance or a polyfluoroalkyl substance that is manmade with at least 1 fully fluorinated carbon atom.

(B) DEFINITIONS.—In this definition:

(i) FULLY FLUORINATED CARBON ATOM.—The term "fully fluorinated carbon atom" means a carbon atom on which all the hydrogen substituents have been replaced by fluorine.

(ii) NONFLUORINATED CARBON ATOM.—The term "nonfluorinated carbon atom" means a carbon atom on which no hydrogen substituents have been replaced by fluorine.

(iii) PARTIALLY FLUORINATED CARBON ATOM.—The term "partially fluorinated carbon atom" means a carbon atom on which some, but not all, of the hydrogen substituents have been replaced by fluorine.

(iv) PERFLUOROALKYL SUBSTANCE.—The term "perfluoroalkyl substance" means a manmade chemical of which all of the carbon atoms are fully fluorinated carbon atoms.

(v) POLYFLUOROALKYL SUBSTANCE.—The term "polyfluoroalkyl substance" means a manmade chemical containing a mix of fully fluorinated carbon atoms, partially fluorinated carbon atoms, and nonfluorinated carbon atoms.

SEC. 1732. PERFORMANCE STANDARD FOR THE DETECTION OF PERFLUORINATED COMPOUNDS.

(a) IN GENERAL.—The Director shall establish a performance standard for the detection of perfluorinated compounds.

(b) EMPHASIS.—

(1) IN GENERAL.—In developing the performance standard under subsection (a), the Director shall emphasize the ability to detect as many perfluorinated compounds present in the environment as possible using analytical methods that—

(A) achieve limits of quantitation (as defined in the document of the United States Geological Survey entitled "Analytical Methods for Chemical Analysis of Geologic and Other Materials, U.S. Geological Survey" and dated 2002); and

(B) are as sensitive as is feasible and practicable.

(2) REQUIREMENT.—In developing the performance standard under subsection (a), the Director may—

(A) develop quality assurance and quality control measures to ensure accurate sampling and testing;

(B) develop a training program with respect to the appropriate method of sample collection and analysis of perfluorinated compounds; and

(C) coordinate with the Administrator, including, if appropriate, coordinating to develop media-specific, validated analytical methods to detect individual and different perfluorinated compounds simultaneously.

SEC. 1733. NATIONWIDE SAMPLING.

(a) IN GENERAL.—The Director shall carry out a nationwide sampling to determine the concentration of perfluorinated compounds in estuaries, lakes, streams, springs, wells, wetlands, rivers, aquifers, and soil using the performance standard developed under section 1732(a).

(b) REQUIREMENTS.—In carrying out the sampling under subsection (a), the Director shall—

(1) first carry out the sampling at sources of drinking water near locations with known or suspected releases of perfluorinated compounds;

(2) when carrying out sampling of sources of drinking water under paragraph (1), carry out the sampling prior to any treatment of the water;

(3) survey for ecological exposure to perfluorinated compounds, with a priority in deter-

1 mining direct human exposure through drinking
2 water; and
3 (4) consult with—
4 (A) States to determine areas that are a
5 priority for sampling; and
6 (B) the Administrator—
7 (i) to enhance coverage of the sam-
8 pling; and
9 (ii) to avoid unnecessary duplication.
10 (c) REPORT.—Not later than 90 days after the com-
11 pletion of the sampling under subsection (a), the Director
12 shall prepare a report describing the results of the sam-
13 pling and submit the report to—
14 (1) the Committee on Environment and Public
15 Works and the Committee on Energy and Natural
16 Resources of the Senate;
17 (2) the Committee on Energy and Commerce of
18 the House of Representatives;
19 (3) the Senators of each State in which the Di-
20 rector carried out the sampling; and
21 (4) each Member of the House of Representa-
22 tives that represents a district in which the Director
23 carried out the sampling.

SEC. 1734. DATA USAGE.

(a) IN GENERAL.—The Director shall provide the sampling data collected under section 1733 to—

(1) the Administrator of the Environmental Protection Agency; and

(2) other Federal and State regulatory agencies on request.

(b) USAGE.—The sampling data provided under subsection (a) shall be used to inform and enhance assessments of exposure, likely health and environmental impacts, and remediation priorities.

SEC. 1735. COLLABORATION.

In carrying out this subtitle, the Director shall collaborate with—

(1) appropriate Federal and State regulators;

(2) institutions of higher education;

(3) research institutions; and

(4) other expert stakeholders.

SEC. 1736. AUTHORIZATION OF APPROPRIATIONS.

There are authorized to be appropriated to the Director to carry out this subtitle—

(1) $5,000,000 for fiscal year 2020; and

(2) $10,000,000 for each of fiscal years 2021 through 2024.

Subtitle D—Safe Drinking Water Assistance

SEC. 1741. DEFINITIONS.

In this subtitle:

(1) CONTAMINANT.—The term "contaminant" means any physical, chemical, biological, or radiological substance or matter in water.

(2) CONTAMINANT OF EMERGING CONCERN; EMERGING CONTAMINANT.—The terms "contaminant of emerging concern" and "emerging contaminant" mean a contaminant—

(A) for which the Administrator has not promulgated a national primary drinking water regulation; and

(B) that may have an adverse effect on the health of individuals.

(3) FEDERAL RESEARCH STRATEGY.—The term "Federal research strategy" means the coordinated cross-agency plan for addressing critical research gaps related to detecting, assessing exposure to, and identifying the adverse health effects of emerging contaminants in drinking water developed by the Office of Science and Technology Policy in response to the report of the Committee on Appropriations of

1 the Senate accompanying S. 1662 of the 115th Con-
2 gress (S. Rept. 115–139).
3 (4) TECHNICAL ASSISTANCE AND SUPPORT.—
4 The term "technical assistance and support" in-
5 cludes—
6 (A) assistance with—
7 (i) identifying appropriate analytical
8 methods for the detection of contaminants;
9 (ii) understanding the strengths and
10 limitations of the analytical methods de-
11 scribed in clause (i);
12 (iii) troubleshooting the analytical
13 methods described in clause (i);
14 (B) providing advice on laboratory certifi-
15 cation program elements;
16 (C) interpreting sample analysis results;
17 (D) providing training with respect to
18 proper analytical techniques;
19 (E) identifying appropriate technology for
20 the treatment of contaminants; and
21 (F) analyzing samples, if—
22 (i) the analysis cannot be otherwise
23 obtained in a practicable manner other-
24 wise; and

(ii) the capability and capacity to perform the analysis is available at a Federal facility.

(5) WORKING GROUP.—The term "Working Group" means the Working Group established under section 1742(b)(1).

SEC. 1742. RESEARCH AND COORDINATION PLAN FOR ENHANCED RESPONSE ON EMERGING CONTAMINANTS.

(a) IN GENERAL.—The Administrator shall—

(1) review Federal efforts—

(A) to identify, monitor, and assist in the development of treatment methods for emerging contaminants; and

(B) to assist States in responding to the human health risks posed by contaminants of emerging concern; and

(2) in collaboration with owners and operators of public water systems, States, and other interested stakeholders, establish a strategic plan for improving the Federal efforts referred to in paragraph (1).

(b) INTERAGENCY WORKING GROUP ON EMERGING CONTAMINANTS.—

(1) IN GENERAL.—Not later than 180 days after the date of enactment of this Act, the Adminis-

1 trator and the Secretary of Health and Human
2 Services shall jointly establish a Working Group to
3 coordinate the activities of the Federal Government
4 to identify and analyze the public health effects of
5 drinking water contaminants of emerging concern.
6 (2) MEMBERSHIP.—The Working Group shall
7 include representatives of the following:
8 (A) The Environmental Protection Agency,
9 appointed by the Administrator.
10 (B) The following agencies, appointed by
11 the Secretary of Health and Human Services:
12 (i) The National Institutes of Health.
13 (ii) The Centers for Disease Control
14 and Prevention.
15 (iii) The Agency for Toxic Substances
16 and Disease Registry.
17 (C) The United States Geological Survey,
18 appointed by the Secretary of the Interior.
19 (D) Any other Federal agency the assist-
20 ance of which the Administrator determines to
21 be necessary to carry out this subsection, ap-
22 pointed by the head of the respective agency.
23 (3) EXISTING WORKING GROUP.—The Adminis-
24 trator may expand or modify the duties of an exist-

ing working group to perform the duties of the Working Group under this subsection.

(c) NATIONAL EMERGING CONTAMINANT RESEARCH INITIATIVE.—

(1) FEDERAL RESEARCH STRATEGY.—

(A) IN GENERAL.—Not later than 180 days after the date of enactment of this Act, the Director of the Office of Science and Technology Policy (referred to in this subsection as the "Director") shall coordinate with the heads of the agencies described in subparagraph (C) to establish a research initiative, to be known as the "National Emerging Contaminant Research Initiative", that shall—

(i) use the Federal research strategy to improve the identification, analysis, monitoring, and treatment methods of contaminants of emerging concern; and

(ii) develop any necessary program, policy, or budget to support the implementation of the Federal research strategy, including mechanisms for joint agency review of research proposals, for interagency co-funding of research activities, and for information sharing across agencies.

(B) RESEARCH ON EMERGING CONTAMINANTS.—In carrying out subparagraph (A), the Director shall—

(i) take into consideration consensus conclusions from peer-reviewed, pertinent research on emerging contaminants; and

(ii) in consultation with the Administrator, identify priority emerging contaminants for research emphasis.

(C) FEDERAL PARTICIPATION.—The agencies referred to in subparagraph (A) include—

(i) the National Science Foundation;

(ii) the National Institutes of Health;

(iii) the Environmental Protection Agency;

(iv) the National Institute of Standards and Technology;

(v) the United States Geological Survey; and

(vi) any other Federal agency that contributes to research in water quality, environmental exposures, and public health, as determined by the Director.

(D) PARTICIPATION FROM ADDITIONAL ENTITIES.—In carrying out subparagraph (A),

1 the Director shall consult with nongovernmental
2 organizations, State and local governments, and
3 science and research institutions determined by
4 the Director to have scientific or material inter-
5 est in the National Emerging Contaminant Re-
6 search Initiative.
7 (2) IMPLEMENTATION OF RESEARCH REC-
8 OMMENDATIONS.—
9 (A) IN GENERAL.—Not later than 1 year
10 after the date on which the Director and heads
11 of the agencies described in paragraph (1)(C)
12 establish the National Emerging Contaminant
13 Research Initiative under paragraph (1)(A), the
14 head of each agency described in paragraph
15 (1)(C) shall—
16 (i) issue a solicitation for research
17 proposals consistent with the Federal re-
18 search strategy; and
19 (ii) make grants to applicants that
20 submit research proposals selected by the
21 National Emerging Contaminant Research
22 Initiative in accordance with subparagraph
23 (B).
24 (B) SELECTION OF RESEARCH PRO-
25 POSALS.—The National Emerging Contaminant

1 Research Initiative shall select research pro-
2 posals to receive grants under this paragraph
3 on the basis of merit, using criteria identified
4 by the Director, including the likelihood that
5 the proposed research will result in significant
6 progress toward achieving the objectives identi-
7 fied in the Federal research strategy.
8 (C) ELIGIBLE ENTITIES.—Any entity or
9 group of 2 or more entities may submit to the
10 head of each agency described in paragraph
11 (1)(C) a research proposal in response to the
12 solicitation for research proposals described in
13 subparagraph (A)(i), including—
14 (i) State and local agencies;
15 (ii) public institutions, including pub-
16 lic institutions of higher education;
17 (iii) private corporations; and
18 (iv) nonprofit organizations.
19 (d) FEDERAL TECHNICAL ASSISTANCE AND SUP-
20 PORT FOR STATES.—
21 (1) STUDY.—
22 (A) IN GENERAL.—Not later than 1 year
23 after the date of enactment of this Act, the Ad-
24 ministrator shall conduct a study on actions the
25 Administrator can take to increase technical as-

1 sistance and support for States with respect to
2 emerging contaminants in drinking water sam-
3 ples.
4 (B) CONTENTS OF STUDY.—In carrying
5 out the study described in subparagraph (A),
6 the Administrator shall identify—
7 (i) methods and effective treatment
8 options to increase technical assistance and
9 support with respect to emerging contami-
10 nants to States, including identifying op-
11 portunities for States to improve commu-
12 nication with various audiences about the
13 risks associated with emerging contami-
14 nants;
15 (ii) means to facilitate access to quali-
16 fied contract testing laboratory facilities
17 that conduct analyses for emerging con-
18 taminants; and
19 (iii) actions to be carried out at exist-
20 ing Federal laboratory facilities, including
21 the research facilities of the Administrator,
22 to provide technical assistance and support
23 for States that require testing facilities for
24 emerging contaminants.

(C) AVAILABILITY OF ANALYTICAL RESOURCES.—In carrying out the study described in subparagraph (A), the Administrator shall consider—

(i) the availability of—

(I) Federal and non-Federal laboratory capacity; and

(II) validated methods to detect and analyze contaminants; and

(ii) other factors determined to be appropriate by the Administrator.

(2) REPORT.—Not later than 18 months after the date of enactment of this Act, the Administrator shall submit to Congress a report describing the results of the study described in paragraph (1).

(3) PROGRAM TO PROVIDE FEDERAL ASSISTANCE TO STATES.—

(A) IN GENERAL.—Not later than 3 years after the date of enactment of this Act, based on the findings in the report described in paragraph (2), the Administrator shall develop a program to provide technical assistance and support to eligible States for the testing and analysis of emerging contaminants.

(B) APPLICATION.—

(i) IN GENERAL.—To be eligible for technical assistance and support under this paragraph, a State shall submit to the Administrator an application at such time, in such manner, and containing such information as the Administrator may require.

(ii) CRITERIA.—The Administrator shall evaluate an application for technical assistance and support under this paragraph on the basis of merit using criteria identified by the Administrator, including—

(I) the laboratory facilities available to the State;

(II) the availability and applicability of existing analytical methodologies;

(III) the potency and severity of the emerging contaminant, if known; and

(IV) the prevalence and magnitude of the emerging contaminant.

(iii) PRIORITIZATION.—In selecting States to receive technical assistance and

1 support under this paragraph, the Admin-
2 istrator—
3 (I) shall give priority to States
4 with affected areas primarily in finan-
5 cially distressed communities;
6 (II) may—
7 (aa) waive the application
8 process in an emergency situa-
9 tion; and
10 (bb) require an abbreviated
11 application process for the con-
12 tinuation of work specified in a
13 previously approved application
14 that continues to meet the cri-
15 teria described in clause (ii); and
16 (III) shall consider the relative
17 expertise and availability of—
18 (aa) Federal and non-Fed-
19 eral laboratory capacity available
20 to the State;
21 (bb) analytical resources
22 available to the State; and
23 (cc) other types of technical
24 assistance available to the State.

1 (C) DATABASE OF AVAILABLE RE-
2 SOURCES.—The Administrator shall establish
3 and maintain a database of resources available
4 through the program developed under subpara-
5 graph (A) to assist States with testing for
6 emerging contaminants that—
7 (i) is—
8 (I) available to States and stake-
9 holder groups determined by the Ad-
10 ministrator to have scientific or mate-
11 rial interest in emerging contami-
12 nants, including—
13 (aa) drinking water and
14 wastewater utilities;
15 (bb) laboratories;
16 (cc) Federal and State emer-
17 gency responders;
18 (dd) State primacy agencies;
19 (ee) public health agencies;
20 and
21 (ff) water associations;
22 (II) searchable; and
23 (III) accessible through the
24 website of the Administrator; and
25 (ii) includes a description of—

(I) qualified contract testing laboratory facilities that conduct analyses for emerging contaminants; and

(II) the resources available in Federal laboratory facilities to test for emerging contaminants.

(D) WATER CONTAMINANT INFORMATION TOOL.—The Administrator shall integrate the database established under subparagraph (C) into the Water Contaminant Information Tool of the Environmental Protection Agency.

(4) FUNDING.—Of the amounts available to the Administrator, the Administrator may use not more than $15,000,000 in a fiscal year to carry out this subsection.

(e) REPORT.—Not less frequently than once every 2 years until 2029, the Administrator shall submit to Congress a report that describes the progress made in carrying out this subtitle.

(f) EFFECT.—Nothing in this section modifies any obligation of a State, local government, or Indian Tribe with respect to treatment methods for, or testing or monitoring of, drinking water.

Subtitle E—Miscellaneous

SEC. 1751. PFAS DATA CALL.

Section 8(a) of the Toxic Substances Control Act (15 U.S.C. 2607(a)) is amended by adding at the end the following:

"(7) PFAS DATA.—Not later than January 1, 2023, the Administrator shall promulgate a rule in accordance with this subsection requiring each person who has manufactured a chemical substance that is a perfluoroalkyl or polyfluoroalkyl substance in any year since January 1, 2006, to submit to the Administrator a report that includes, for each year since January 1, 2006, the information described in paragraph (2).".

SEC. 1752. SIGNIFICANT NEW USE RULE FOR LONG-CHAIN PFAS.

Not later than June 22, 2020, the Administrator shall take final action on the significant new use rule proposed by the Administrator under the Toxic Substances Control Act (15 U.S.C. 2601 et seq.) in the proposed rule entitled "Long-Chain Perfluoroalkyl Carboxylate and Perfluoroalkyl Sulfonate Chemical Substances; Significant New Use Rule" (80 Fed. Reg. 2885 (January 21, 2015)).

1 **SEC. 1753. PFAS DESTRUCTION AND DISPOSAL GUIDANCE.**

2 (a) IN GENERAL.—Not later than 1 year after the
3 date of enactment of this Act, the Administrator shall
4 publish interim guidance on the destruction and disposal
5 of perfluoroalkyl and polyfluoroalkyl substances and mate-
6 rials containing perfluoroalkyl and polyfluoroalkyl sub-
7 stances, including—

8 (1) aqueous film-forming foam;

9 (2) soil and biosolids;

10 (3) textiles treated with perfluoroalkyl and
11 polyfluoroalkyl substances; and

12 (4) spent filters, membranes, and other waste
13 from water treatment.

14 (b) CONSIDERATIONS; INCLUSIONS.—The interim
15 guidance under subsection (a) shall—

16 (1) take into consideration—

17 (A) the potential for releases of
18 perfluoroalkyl and polyfluoroalkyl substances
19 during destruction or disposal, including
20 through volatilization, air dispersion, or leach-
21 ate; and

22 (B) potentially vulnerable populations liv-
23 ing near likely destruction or disposal sites; and

24 (2) provide guidance on testing and monitoring
25 air, effluent, and soil near potential destruction or

disposal sites for releases described in paragraph (1)(A).

(c) REVISIONS.—The Administrator shall publish revisions to the interim guidance under subsection (a) as the Administrator determines to be appropriate, but not less frequently than once every 3 years.

SEC. 1754. PFAS RESEARCH AND DEVELOPMENT.

(a) IN GENERAL.—The Administrator, acting through the Assistant Administrator for the Office of Research and Development, shall—

(1)(A) further examine the effects of perfluoroalkyl and polyfluoroalkyl substances on human health and the environment; and

(B) make publicly available information relating to the findings under subparagraph (A);

(2) develop a process for prioritizing which perfluoroalkyl and polyfluoroalkyl substances, or classes of perfluoroalkyl and polyfluoroalkyl substances, should be subject to additional research or regulatory efforts that is based on—

(A) the potential for human exposure to the substances or classes of substances;

(B) the potential toxicity of the substances or classes of substances; and

(C) information available about the substances or classes of substances;

(3) develop new tools to characterize and identify perfluoroalkyl and polyfluoroalkyl substances in the environment, including in drinking water, wastewater, surface water, groundwater, solids, and the air;

(4) evaluate approaches for the remediation of contamination by perfluoroalkyl and polyfluoroalkyl substances in the environment; and

(5) develop and implement new tools and materials to communicate with the public about perfluoroalkyl and polyfluoroalkyl substances.

(b) FUNDING.—There is authorized to be appropriated to the Administrator to carry out this section $15,000,000 for each of fiscal years 2020 through 2024.