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- Purpose: In the nature of a substitute. 1
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- S. 3348 4
- To amend the Harmful Algal Blooms and Hypoxia Research and 5
- Control Act of 1998 to address harmful algal blooms, and for 6
- other purposes. 7
- Referred to the Committee on and ordered to be 8
- printed 9
- Ordered to lie on the table and to be printed 10
- AMENDMENT IN THE NATURE OF A SUBSTITUTE INTENDED TO BE 11
- PROPOSED BY MR. SULLIVAN 12
- 13 Viz:
- 14 Strike all after the enacting clause and insert the following:
- SECTION 1. SHORT TITLE. 15

Amendments Act of 2024". 17

SEC. 2. AMENDMENTS TO THE HARMFUL ALGAL 18 BLOOMS AND HYPOXIA RESEARCH AND CONTROL 19 ACT OF 1998. 20

21 (a) Assessments.— (1) IN GENERAL.-Section 603 of the Harmful Algal Blooms and Hypoxia Research and 22 Control Act of 1998 (33 U.S.C. 4001) is amended-23 (A) in the section heading, by striking "assessments" and inserting "task force, 24 assessments, and action strategy"; 25 (B) in subsection (a)— 26 (i) by redesignating paragraphs (13) and (14) as paragraphs (14) and (15), 27 respectively; and 28 (ii) by inserting after paragraph (12) the following: 29 "(13) the Department of Energy;"; 30 (C) by striking subsections (b), (c), (d), (e), (g), (h), and (i) and redesignating 31 subsection (f) as subsection (b); 32

This Act may be cited as the "Harmful Algal Bloom and Hypoxia Research and Control 16

1	(D) in subsection (b), as so redesignated—
2 3	(i) in paragraph (1), in the first sentence, by striking "coastal waters including the Great Lakes" and inserting "marine, estuarine, and freshwater systems"; and
4	(ii) in paragraph (2)—
5	(I) by amending subparagraph (A) to read as follows:
6	"(A) examine—
7 8	"(i) the causes and ecological consequences of hypoxia on marine and aquatic species in their natural environments; and
9 10	"(ii) the socio-cultural or economic costs of hypoxia, including impacts on food safety and security;";
11 12	(II) by redesignating subparagraphs (B), (C), and (D) as subparagraphs (D), (E), and (F), respectively;
13	(III) by inserting after subparagraph (A) the following:
1 4	"(B) examine the effect of other environmental stressors on hypoxia;
15 16	"(C) evaluate alternatives for reducing, mitigating, and controlling hypoxia and its environmental impacts;";
17 18	(IV) in subparagraph (D), as redesignated by subclause (II), by inserting ", social," after "ecological"; and
19 20 21	(V) in subparagraph (E), as redesignated by subclause (II), by striking "hypoxia modeling and monitoring data" and inserting "hypoxia modeling, forecasting, and monitoring and observation data"; and
22	(E) by adding at the end the following:
23 24	"(c) Action Strategy and Scientific Assessment for Marine and Freshwater Harmful Algal Blooms
25 26 27	"(1) IN GENERAL.—Not less frequently than once every 5 years, the Task Force shall complete and submit to Congress an action strategy for harmful algal blooms in the United States.
28	"(2) ELEMENTS.—Each Action Strategy shall—
29 30	"(A) examine, and include a scientific assessment of, marine and freshwater harmful algal blooms, including such blooms—
31	"(i) in the Great Lakes;
32	"(ii) in the upper reaches of estuaries;
33	"(iii) in freshwater lakes and rivers;
34	"(iv) in coastal and marine waters; and
35	"(v) that originate in freshwater lakes or rivers and migrate to coastal waters;
36	"(B) examine the causes, ecological consequences, and economic or socio-cultural

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1	impacts, including food safety and security, of harmful algal blooms;
2	"(C) examine the effect of other environmental stressors on harmful algal blooms;
3 4 5	"(D) examine potential methods to prevent, control, and mitigate harmful algal blooms and the potential ecological, social, cultural, and economic costs and benefits of such methods;
6 7 8 9	"(E) identify priorities for research needed to advance techniques and technologies to detect, predict, monitor, respond to, and minimize the occurrence, duration, and severity of harmful algal blooms, including recommendations to eliminate significant gaps in harmful algal bloom forecasting, monitoring, and observation data;
10 11	"(F) evaluate progress made by, and the needs of, activities and actions of the Task Force to prevent, control, and mitigate harmful algal blooms;
12 13	"(G) identify ways to improve coordination and prevent unnecessary duplication of effort among Federal agencies with respect to research on harmful algal blooms; and
14 15 16 17	"(H) include regional chapters relating to the requirements described in this paragraph in order to highlight geographically and ecologically diverse locations with significant ecological, social, cultural, and economic impacts from harmful algal blooms.
18 19	"(d) Consultation.—In carrying out subsections (b) and (c), the Task Force shall consult with—
20	"(1) States, Indian tribes, and local governments; and
21 22	"(2) appropriate industries (including fisheries, agriculture, and fertilizer), academic institutions, and nongovernmental organizations with relevant expertise.".
23 24 25	(2) CLERICAL AMENDMENT.—The table of contents in section 2 of the Coast Guard Authorization Act of 1998 (Public Law 105–383; 112 Stat. 3412; 136 Stat. 1268) is amended by striking the item relating to section 603 and inserting the following:
26	"Sec.603.Task Force, assessments, and Action Strategy."
27 28 29	(3) CONFORMING AMENDMENT.—Section 102 of the Harmful Algal Bloom and Hypoxia Amendments Act of 2004 (33 U.S.C. 4001a) is amended by striking "In developing" and all that follows through "management.".
30 31	(b) National Harmful Algal Bloom and Hypoxia Program.—Section 603A of the Harmful Algal Blooms and Hypoxia Research and Control Act of 1998 (33 U.S.C. 4002) is amended—
32	(1) in subsection (a)—
33	(A) in paragraph (1)—
34 35	(i) by striking "predicting," and inserting "monitoring, observing, forecasting,"; and
36	(ii) by striking "and" after the semicolon; and
37	(B) by striking paragraph (2) and inserting the following:
38	"(2) the scientific assessment submitted under section 603(b); and

1	"(3) the Action Strategy.";
2	(2) in subsection (c)—
3 4 5	(A) in paragraph (3), by striking "ocean and Great Lakes science and management programs and centers" and inserting "programs and centers relating to the science and management of marine, estuarine, and freshwater systems"; and
6 7	(B) in paragraph (5), by inserting "while recognizing each agency is acting under its own independent mission and authority" before the semicolon;
8 9	(3) in subsection (d), by striking "Except as provided in subsection (h), the" and inserting "The";
10	(4) in subsection (e)—
11 12	(A) in the matter preceding paragraph (1), by inserting "(or the Administrator, as provided under subsection (g))" after "Under Secretary";
13	(B) by amending paragraph (2) to read as follows:
14 15 16 17 18 19	"(2) examine, in collaboration with State and local entities, Indian tribes, Tribal organizations, and Native Hawaiian organizations, including island communities, low-population rural communities, subsistence communities, fisheries, and recreation industries that are most dependent on coastal and water resources that may be impacted by marine and freshwater harmful algal blooms and hypoxia, the causes, ecological consequences, cultural impacts, and social and economic costs of harmful algal blooms and hypoxia;";
20	(C) in paragraph (3)—
21 22	(i) in subparagraph (B), by inserting ", including the annual Gulf of Mexico hypoxia zone mapping cruise" after "Program";
23	(ii) in subparagraph (C), by striking "and" after the semicolon; and
24	(iii) by adding at the end the following:
25 26 27	"(E) to identify opportunities to improve monitoring of harmful algal blooms and hypoxia, with a particular focus on waters that may affect fisheries, public health, or subsistence harvest;
28 29	"(F) to examine the effects of other environmental stressors on harmful algal blooms and hypoxia;
30 31 32	"(G) to assess the combined effects of harmful algal blooms, hypoxia, and other environmental stressors on marine, freshwater, or estuarine ecosystems and living resources;
33 <u>3</u> 4	"(H) to evaluate adaptation and mitigation strategies to address the impacts of harmful algal blooms and hypoxia; and
35 36 37 38	"(1) to support seafood mariculture and to expand access to testing for harmful algal bloom toxins, including for subsistence and recreational harvesters, through innovative methods that increase the efficiency and effectiveness of such testing in rural and remote areas;";
3 9	(D) in paragraph (4), by striking "agencies" and inserting "entities, regional coastal
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1 2	observing systems (as defined in section 12303 of the Integrated Coastal and Ocean Observation System Act of 2009 (33 U.S.C. 3602)),";
3	(E) in paragraph (6), by inserting "and communities" after "ecosystems";
4 5	(F) by redesignating paragraphs (7) , (8) , (9) , (10) , and (11) as paragraphs (8) , (9) , (10) , (12) , and (13) , respectively;
6	(G) by inserting after paragraph (6) the following:
7 8 9 10	"(7) support sustained observations, including through the funding described in paragraph (3), to provide State and local entities, Indian tribes, Tribal organizations, Native Hawaiian organizations, and other entities access to real-time or near real-time observation data for decision-making to protect human and ecological health and local economies;";
11 12	(H) in paragraph (9), as redesignated by subparagraph (F), by inserting "and Indian tribes" after "managers";
13 14 15	(I) in paragraph (10), as redesignated by subparagraph (F), in subparagraph (A), by striking ", tribal, and local stakeholders" and inserting "and local stakeholders and Indian tribes, Tribal organizations, and Native Hawaiian organizations"; and
16 17	(J) by inserting after paragraph (10), as redesignated by subparagraph (F), the following:
18 19 20	"(11) expand access to testing for harmful algal bloom toxins, including for subsistence and recreational harvesters, through innovative methods that increase the efficiency and effectiveness of such testing in rural and remote areas;";
21	(5) by amending subsections (f), (g), and (h) to read as follows:
22	"(f) Cooperation and Coordination.—The Under Secretary shall—
23 24 25	"(1) work cooperatively with and avoid duplication of effort of other agencies on the Task Force and States, Indian tribes, Tribal organizations, Native Hawaiian organizations, and nongovernmental organizations concerned with marine and freshwater issues; and
26 27	"(2) coordinate harmful algal bloom and hypoxia and related activities and research with those entities.
28 29	"(g) Freshwater and Estuarine Program Duties.—The Administrator, in coordination with the Task Force, shall—
30 31	"(1) carry out the duties under the Administrator's purview under subsection (e) for freshwater aspects of the Program through the activities required under section 603C; and
32 33	"(2) coordinate with the Under Secretary on estuarine aspects of the Program through the activities required under this section.
34 35 36 37 38 39 40	"(h) Anti-Deficiency Act Applied to Harmful Algal Bloom Services.—Any services accepted by an officer or employee of the United States Government under this title relating to the development and dissemination of forecasts and bulletins through the Harmful Algal Bloom Operational Forecast System of the National Centers for Coastal Ocean Science and the National Oceanic and Atmospheric Administration shall be considered, for purposes of section 1342 of title 31, United States Code, services for an emergency involving the safety of human life or the protection of property. Such consideration shall apply only to services performed for areas with 5

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1 2 3	active harmful algal blooms during any lapse in appropriations beginning on or after the date of the enactment of the Harmful Algal Bloom and Hypoxia Research and Control Amendments Act of 2024."; and
4	(6) by striking subsection (i).
5	(c) National Oceanic and Atmospheric Administration Activities
6 7	(1) IN GENERAL.—Section 603B of the Harmful Algal Blooms and Hypoxia Research and Control Act of 1998 (33 U.S.C. 4003) is amended to read as follows:
8	"SEC. 603B. NATIONAL OCEANIC AND ATMOSPHERIC
9	ADMINISTRATION ACTIVITIES.
10	"(a) In General.—The Under Secretary shall—
11 12	"(1) carry out response activities for marine, coastal, and Great Lakes harmful algal bloom and hypoxia events;
13 14 15	"(2) develop and enhance operational harmful algal bloom observing and forecasting programs, including operational observations and forecasting, monitoring, modeling, data management, and information dissemination;
16 17	"(3) maintain and enhance the funding described in section 603A(e)(3) relating to harmful algal blooms and hypoxia;
18 19	"(4) enhance communication and coordination among Federal agencies carrying out activities and research relating to marine and freshwater harmful algal bloom and hypoxia;
20 21	"(5) to the greatest extent practicable, leverage existing resources and expertise available from local research universities and institutions; and
22	"(6) use cost effective methods in carrying out this section.
23 24 25 26 27	"(b) Integrated Coastal and Ocean Observation System. —The collection of monitoring and observing data under this section shall comply with all data standards and protocols developed pursuant to the Integrated Coastal and Ocean Observation System Act of 2009 (33 U.S.C. 3601 et seq.). Such data shall be made available through the National Integrated Coastal and Ocean Observation System established under section 12304 of that Act (33 U.S.C. 3603).".
28 29 30	(2) CLERICAL AMENDMENT.—The table of contents in section 2 of the Coast Guard Authorization Act of 1998 (Public Law 105–383; 112 Stat. 3412; 136 Stat. 1268) is amended by striking the item relating to section 603B and inserting the following:
31	"Sec.603B.National Oceanic and Atmospheric Administration activities.".
32	(d) Environmental Protection Agency Activities.—
33 34	(1) IN GENERAL.—The Harmful Algal Bloom and Hypoxia Research and Control Act of 1998 is amended by inserting after section 603B (33 U.S.C. 4003) the following:
35	"SEC. 603C. ENVIRONMENTAL PROTECTION AGENCY
36	ACTIVITIES.
37	"(a) In General.—The Administrator shall—

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"(1) carry out research on the ecology and human health impacts of freshwater harmful
 algal blooms and hypoxia events;

"(2) develop and enhance operational freshwater harmful algal bloom monitoring,
observing, and forecasting programs in lakes, rivers, and reservoirs, and coordinate with the
National Oceanic and Atmospheric Administration on such programs in the Great Lakes
and estuaries (including tributaries thereof), including operational observations and
forecasting, monitoring, modeling, data management, and information dissemination, to
support event response, prioritization, prevention, adaptation, and mitigation activities;

- "(3) enhance communication and coordination among Federal agencies carrying out
 freshwater harmful algal bloom and hypoxia activities and research;
- "(4) to the greatest extent practicable, leverage existing resources and expertise available
 from Federal and State partners and local research universities and institutions; and
- 13 "(5) use cost-effective methods in carrying out this section.
- "(b) Nonduplication.—The Administrator shall ensure that activities carried out under
 subsection (a) focus on new approaches to addressing freshwater harmful algal blooms and are
- not duplicative of existing research and development programs authorized by this title or any
 other law.".
- (2) CLERICAL AMENDMENT.—The table of contents in section 2 of the Coast Guard
 Authorization Act of 1998 (Public Law 105–383; 112 Stat. 3412; 136 Stat. 1268) is
 amended by inserting after the item relating to section 603B the following:
- 21 "Sec.603C Environmental Protection Agency activities.".
- 22 (e) National Harmful Algal Bloom and Hypoxia Observing Network,---
- (1) IN GENERAL.—Section 606 of the Harmful Algal Blooms and Hypoxia Research and
 Control Act of 1998 (33 U.S.C. 4005) is amended to read as follows:

25 "SEC. 606. NATIONAL HARMFUL ALGAL BLOOM 26 OBSERVING NETWORK.

"(a) In General.—The Under Secretary, acting through the National Centers for Coastal Ocean
Science and the Integrated Ocean Observing System of the National Oceanic and Atmospheric
Administration, shall integrate Federal, State, regional, and local observing capabilities to
establish a national network of observing systems for the monitoring, detection, and forecasting
of harmful algal blooms by leveraging the capacity of regional associations of the Integrated
Ocean Observing System, including through the incorporation of emerging technologies and new
data integration methods.

- "(b) Coordination and Data Assembly.—In carrying out subsection (a), the Program Office of
 the Integrated Ocean Observing System shall—
- "(1) coordinate with the National Centers for Coastal Ocean Science regarding
 observations, data integration, and information dissemination;
- "(2) establish a center for the assembly of data on harmful algal blooms to integrate,
 disseminate, and provide a central architecture to support ecological forecasting; and

1 2	"(3) coordinate with the Water Quality Portal to store and serve discrete data related to the monitoring of freshwater, estuarine, and coastal harmful algal blooms.".
3 4 5	(2) CLERICAL AMENDMENT.—The table of contents in section 2 of the Coast Guard Authorization Act of 1998 (Public Law 105–383; 112 Stat. 3412; 136 Stat. 1268) is amended by striking the item relating to section 606 and inserting the following:
6	"Sec.606.National harmful algal bloom observing network.".
7	(f) National-level Incubator Program.—
8 9	(1) IN GENERAL.—The Harmful Algal Blooms and Hypoxia Research and Control Act of 1998 is amended by inserting after section 606 (33 U.S.C. 4005) the following:
.10	"SEC. 606A. NATIONAL-LEVEL INCUBATOR PROGRAM.
11 12 13 14	"(a) In General.—The Under Secretary, in collaboration with the Administrator and research universities and institutions, shall establish a national-level incubator program (in this section referred to as the 'program') to increase the number of strategies, technologies, and measures available to prevent, mitigate, and control harmful algal blooms.
15 16 17	"(b) Framework.—The program shall establish a framework for preliminary assessments of novel strategies, technologies, and measures to prevent, mitigate, and control harmful algal blooms in order to determine the potential effectiveness and scalability of such technologies.
18 19 20 21	"(c) Funding.—The program shall provide merit-based funding, using amounts otherwise available to the Under Secretary for the award of grants, for strategies, technologies, and measures that eliminate or reduce, through biological, chemical, or physical means, the levels of harmful algae and associated toxins resulting from harmful algal blooms.
22 23 24 25	"(d) Database.—The program shall include a database for cataloging the licensing and permitting requirements, economic costs, feasibility, effectiveness, and scalability of novel and established strategies, technologies, and measures to prevent, mitigate, and control harmful algal blooms.
26 27	"(e) Prioritization.—In carrying out the program, the Under Secretary shall prioritize proposed strategies, technologies, and measures that would, to the maximum extent practicable—
28	"(1) protect key habitats for fish and wildlife;
29	"(2) maintain biodiversity;
30	"(3) protect public health;
31	"(4) protect coastal resources of national, historical, and cultural significance; or
32	"(5) benefit low-income communities, Indian tribes, and rural communities.".
33 34 35	(2) CLERICAL AMENDMENT.—The table of contents in section 2 of the Coast Guard Authorization Act of 1998 (Public Law 105–383; 112 Stat. 3412; 136 Stat. 1268) is amended by inserting after the item relating to section 606 the following:
36	"Sec.606A.National-level incubator program.".
37 38	(g) Definitions.—Section 609 of the Harmful Algal Blooms and Hypoxia Research and Control Act of 1998 (33 U.S.C. 4008) is amended—
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1 2 3	(1) in paragraph (1), by striking "means the comprehensive research plan and action strategy established under section 603B" and inserting "means the action strategy for harmful algal blooms in the United States most recently submitted under section 603(c)";
4	(2) by amending paragraph (3) to read as follows:
5 6 7 8 9 10	"(3) HARMFUL ALGAL BLOOM.—The term 'harmful algal bloom' means a high concentration of marine or freshwater algae (including diatoms), macroalgae (including Sargassum), or cyanobacteria resulting in nuisance conditions or harmful impacts on marine and freshwater ecosystems, subsistence resources, communities, or human health through the production of toxic compounds or other biological, chemical, or physical impacts of the bloom.";
11	(3) by striking paragraph (9);
12 13	(4) by redesignating paragraphs (4), (5), (6), (7), and (8) as paragraphs (5), (8), (9), (11), and (13), respectively;
14	(5) by inserting after paragraph (3) the following:
15 16 17	"(4) HARMFUL ALGAL BLOOM AND HYPOXIA EVENT.—The term 'harmful algal bloom and hypoxia event' means the occurrence of a harmful algal bloom or hypoxia as a result of a natural, anthropogenic, or undetermined cause.";
18	(6) in paragraph (5), as redesignated by paragraph (4)—
19	(A) by striking "aquatic" and inserting "marine or freshwater"; and
20	(B) by striking "resident" and inserting "marine or freshwater";
21	(7) by inserting after paragraph (5), as redesignated by paragraph (4), the following:
22 23	"(6) INDIAN TRIBE.—The term 'Indian tribe' has the meaning given that term in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5304).
24 25 26 27	"(7) NATIVE HAWAIIAN ORGANIZATION.—The term 'Native Hawaiian organization' has the meaning given that term in section 6207 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 7517) and includes the Department of Hawaiian Home Lands and the Office of Hawaiian Affairs.";
28	(8) by inserting after paragraph (9), as redesignated by paragraph (4), the following:
29 30 31 32	"(10) SUBSISTENCE USE.—The term 'subsistence use' means the customary and traditional use of fish, wildlife, or other freshwater, coastal, or marine resources by any individual or community to meet personal or family needs, including essential economic, nutritional, or cultural applications."; and
33	(9) by inserting after paragraph (11), as redesignated by paragraph (4), the following:
34 35 36	"(12) TRIBAL ORGANIZATION.—The term 'Tribal organization' has the meaning given that term in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5304).".
37 38:	(h) Authorization of Appropriations.—Section 610 of the Harmful Algal Blooms and Hypoxia Research and Control Act of 1998 (33 U.S.C. 4009) is amended—
39	(1) by amending subsection (a) to read as follows:
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"(a) In General.—There is authorized to be appropriated to carry out this title, for each of 1 fiscal years 2025 through 2029-2 "(1) \$19,500,000 to the Under Secretary; and 3 "(2) \$8,000,000 to the Administrator."; and 4 (2) by adding at the end the following: 5 "(c) Transfer Authority.-The Under Secretary or the Administrator may make a direct non-6 expenditure transfer of funds authorized to be appropriated pursuant to subsection (a) to the head 7 of any Federal department or agency, with the concurrence of such head, to carry out, as 8 appropriate, relevant provisions of this title and section 9(g) of the National Integrated Drought 9 Information System Reauthorization Act of 2018 (33 U.S.C. 4010(g)).". 10 SEC. 3. OTHER HARMFUL ALGAL BLOOM MATTERS. 11 (a) Harmful Algal Bloom or Hypoxia Event of National Significance.--Section 9(g) of the 12 National Integrated Drought Information System Reauthorization Act of 2018 (33 U.S.C. 13 4010(g)) is amended— 14 (1) in paragraph (1)— 15 (A) in subparagraph (B), by adding at the end the following new sentence: "The 16 appropriate Federal official may waive the non-Federal share requirements of the 17 preceding sentence if such official determines no reasonable means are available 18 through which the recipient of the Federal share can meet the non-Federal share 19 requirement.": and 20 (B) by adding at the end the following: 21 22 "(D) CONTRACT, COOPERATIVE AGREEMENT, AND GRANT AUTHORITY.-The appropriate Federal official may enter into contracts, cooperative agreements, and 23 grants with States, Indian Tribes, Tribal organizations, Native Hawaiian organizations, 24 local governments, or other entities to pay for or reimburse costs incurred by such 25 entities for the purposes of supporting the determination of, and assessing the 26 environmental, economic, social, subsistence use, and public health effects of, a 27 harmful algal bloom or hypoxia event of national significance."; 28 (2) in paragraph (2)----29 (A) in subparagraph (A), by inserting "a leadership official of an affected Indian 30: Tribe, the executive official of the District of Columbia, or the executive official of an 31 affected territory or possession of the United States," after "State,"; and 32 (B) in subparagraph (B), by striking "consider" and all that follows through 33 "boundary," and inserting "consider factors such as-34 "(i) the risk to public health and the potential severity of the detrimental 35 environmental effects of the harmful algal bloom or hypoxia event, as indicated 36 by---37 "(I) data on shellfish or water quality obtained through sampling 38 programs, including baseline data, and regulatory or advisory thresholds 39

1	established to explain management actions related to the event;
2 3	"(II) toxin levels in fish, marine mammals, seabirds, shellfish, or water during the event;
4 5	"(III) toxic aerosols produced during the event, including potential human exposures to toxic aerosols;
6	"(IV) reports of human or animal illnesses or mortalities during the event;
7 8	"(V) any closures of fishing or shellfish harvesting locations or recreational public waters, including beaches, during the event;
9	"(VI) the duration and spatial extent of the event; or
10	"(VII) impacts to habitats or ecosystems associated with the event;
11 12 13 14 15 16	"(ii) the potential economic, social, and subsistence impacts associated with the harmful algal bloom or hypoxia event, including to fisheries and aquaculture, recreation and tourism, monitoring and management, social or cultural resource use, and event response activities, assessed in comparison with historical data from when a State or region did not experience such an event, as possible, as indicated by—
17	"(I) increases in public health expenditures;
18 19	"(II) losses to commercial fisheries and aquaculture industries, recreation and tourism, real estate, and other impacted industries or businesses;
20 21 22	"(III) increases in monitoring and management expenditures, including costs incurred for event response and clean-up (such as for beach clean-up following an influx of biomass or a fish-kill) by public or private sectors; or
23 24	"(IV) impacts to subsistence resources, including nutritional, cultural, and economic effects on subsistence communities;
25 26 27	"(iii) the relative magnitude of those impacts in relation to past occurrences of harmful algal bloom or hypoxia events that occur on a recurrent or annual basis; and
28 29 30	"(iv) the geographic scope of the harmful algal bloom or hypoxia event, including the potential of the event to affect several municipalities, to affect more than 1 State, or to cross an international boundary.";
31	(3) in paragraph (3), by adding at the end the following:
32 33 34	"(D) INDIAN TRIBE.—The term 'Indian Tribe' has the meaning given that term in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5304).
35 36 37 38	"(E) NATIVE HAWAIIAN ORGANIZATION.—The term 'Native Hawaiian organization' has the meaning given that term in section 6207 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 7517) and includes the Department of Hawaiian Home Lands and the Office of Hawaiian Affairs.
39	"(F) TRIBAL ORGANIZATION.—The term 'Tribal organization' has the meaning given

- that term in section 4 of the Indian Self-Determination and Education Assistance Act
 (25 U.S.C. 5304)."; and
- 3 (4) by adding at the end the following:

4 "(4) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to
5 carry out this subsection \$2,000,000 for each of fiscal years 2025 through 2029, to remain
6 available until expended.".

7 (b) Protect Families From Toxic Algal Blooms.—Section 128 of the Water Resources
8 Development Act of 2020 (33 U.S.C. 610 note; division AA of Public Law 116–260) is

- 9 amended—
- 10 (1) by redesignating subsection (e) as subsection (f); and
- 11 (2) by inserting after subsection (d) the following:

12 "(e) Harmful Algal Bloom Technologies.—In carrying out the demonstration program under

13 subsection (a), the Secretary may enter into agreements with water and irrigation districts located

in the focus areas described in subsections (c) and (d) for the use or purchase of any new

- 15 technologies developed under the demonstration program to expedite the prevention or removal
- 16 of harmful algal blooms in those areas.".