Great Lakes Restoration Initiative

Presented by

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Healing Our Waters-Great Lakes Coalition

Wednesday, May 3, 2023

GLRI: Basics

The GLRI invests in the region's environmental, economic, and public health through a coordinated interagency process. As outlined in the Action Plan, this program currently focuses on five major restoration priorities:

- (1) Toxic Substances and Areas of Concern;
- (2) Invasive Species;
- (3) Nearshore Health and Nonpoint Source Pollution;
- (4) Habitat and Wildlife Protection and Restoration; and
- (5) Foundations for future action



GLRI: Amplifies and Supplements

Building on past successes and ongoing programs, the GLRI supplements resources and helps coordination through existing programs with more clearly defined goals and targets.

For example:

- Plans under the Great Lakes Water Quality Agreement, including Lakewide Management Plans and Remedial Action Plans for Areas of Concern
- Comprehensive Management Plan for St. Clair River and Lake St. Clair
- Great Lakes Binational Toxic Strategy
- State Wildlife Action Plans
- U.S. Fish and Wildlife Service (FWS) National Fish Habitat Action Plan
- A Joint Strategic Plan for Management of Great Lakes Fisheries
- Plans under the U.S. Canada Convention on Great Lakes Fisheries

- Partners in Flight North American Land Conservation Plans
- North American Waterbird Conservation Plan
- North American Waterfowl Management Plan
- U.S. Shorebird Conservation Plan
- Great Lakes Coastal Wetland Monitoring Plan
- Great Lakes Fishery Plan
- Endangered Species Recovery Plans
- Coastal Management Plans under the Coastal Zone Management Act
- Plans under the Coastal and Estuarine Land Conservation Program
- Source Water Protection Plans
- Tribal-Federal Environmental Agreements



Boundary Waters Treaty

Great Lakes Water Quality Agreement

Clean Water Act - 1987 Amendments

Great Lakes Legacy Act

E.O. 13340

Great Lakes Regional Collaboration Strategy

GLRI

Boundary Waters Treaty (1909)

- It establishes free use of boundary waters for commerce and navigation forever (Article I).
- It grants respective federal and state/provincial governments legal jurisdiction over the use, obstruction, and diversion of these waters (Article II).
- It creates the International Joint Commission (IJC) and requires future hydromodifications be approved by a majority of the three Canadian and three U.S. Commissioners (Articles III, IV, VII, VIII).
- The IJC can only provide research or orders of approval if either federal government submits a referral (Article IX).



Boundary Waters Treaty

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E.O. 13340

Great Lakes Regional Collaboration Strategy

GLRI

1983 1972 1978 1987 2012 Phosphorus Persistent Updated Remedial Modernized loadings toxic phosphorus Action Plans Enhanced substances reduction for Areas of Visible governance strategies Concern pollution Ecosystem New and/or approach to Lakewide expanded Management management issue annexes Plans

Great Lakes Water Quality Agreement



Boundary Waters Treaty

Great Lakes Water Quality Agreement

Clean Water Act - 1987 Amendments

Great Lakes Legacy Act

E.O. 13340

Great Lakes Regional Collaboration Strategy

GLRI

Established § 118 of the Clean Water Act:

- (a) contains a congressional finding that the Great Lakes are a valuable national resource and that the United States should seek to attain the goals of the Great Lakes Water Quality Agreement of 1978.
- (b) establishes the **Great Lakes National Program Office** to be located in a Great Lakes state.

(c) Sets up the office's functions, including: Developing and implementing specific action plans to carry out responsibilities under the Great Lakes Water Quality Agreement

Establishing a systemwide surveillance network to monitor water quality and serving as the liaison with the International Joint Commission, the Canadian counterpart of the agency, and coordinating with EPA and other federal actions aimed at improving Great Lakes water quality.



Boundary Waters Treaty

Great Lakes Water Quality Agreement

Clean Water Act - 1987 Amendments

Great Lakes Legacy Act

E.O. 13340

Great Lakes Regional Collaboration Strategy

Great Lakes Legacy Act (2002)

- Authorizes funding for projects to monitor, evaluate, and remediate contaminated sediment in the areas of concern located wholly within, or shared by, the United States, to increase public awareness of contaminated sediments, and to promote research and development for innovative approaches, technologies, and techniques for the remediation of contaminated sediments.
- Funding authorized pursuant to the Great Lakes Legacy Act for remediation of contaminated sediment is primarily focused on sites within the areas of concern that are not Superfund sites.



GLRI

Boundary Waters Treaty

Great Lakes Water Quality Agreement

Clean Water Act - 1987 Amendments

Great Lakes Legacy Act

E.O. 13340

Great Lakes Regional Collaboration Strategy

GLRI

Executive Order 13340 (May 18, 2004)

Establishment of Great Lakes Interagency Task Force and Promotion of a Regional Collaboration of National Significance for the Great Lakes

"Policy. The Great Lakes are a national treasure ... The United States and Canada have made great progress...The Federal Government is committed to making progress on the many significant challenges that remain. Along with numerous State, tribal, and local programs, over 140 Federal programs help fund and implement environmental restoration and management activities throughout the Great Lakes system...These activities would benefit substantially from more systematic collaboration and better integration of effort...To this end, the Federal Government will partner with the Great Lakes States, tribal and local governments, communities, and other interests to establish a regional collaboration to address nationally significant environmental and natural resource issues involving the Great Lakes. It is the further policy of the Federal Government that its executive departments and agencies will ensure that their programs are funding effective, coordinated, and environmentally sound activities in the Great Lakes system."



Great Lakes Interagency Task Force





Boundary Waters Treaty

Great Lakes Water Quality Agreement

Clean Water Act - 1987 Amendments

Great Lakes Legacy Act

E.O. 13340

Great Lakes Regional Collaboration Strategy

GLRI

Great Lakes Regional Collaboration Strategy

Declaration (2004)

Affirm the need for leaders in the region, including Great Lakes Governors, federal agency heads, Members of the Great Lakes Congressional Delegation, Great Lakes mayors and Tribal leaders, building upon the extensive regional efforts to date, to collaboratively work together and with the Great Lakes community toward a common goal of protecting and restoring the Great Lakes ecosystem in order to address the new and continuing challenges and ensure a healthy ecosystem for future generations.

Collaboration Strategy (2005) Aquatic Invasive Species Habitat/Species Coastal Health AOC/Sediments Nonpoint Source Toxic Pollutants Indicators and information Sustainable Development



Boundary Waters Treaty

Great Lakes Water Quality Agreement

Clean Water Act - 1987 Amendments

Great Lakes Legacy Act

E.O. 13340

GLRI

Great Lakes Regional Collaboration Strategy

Public Law 111-88 (Oct. 30, 2009)

The Administrator is authorized to transfer **up to \$475,000,000** of the funds appropriated for the **Great Lakes Initiative** under the heading "Environmental Programs and Management" to the head of any Federal department or agency, with the concurrence of such head, to carry out activities that would:

- support the Great Lakes Restoration Initiative and Great Lakes Water Quality Agreement programs, projects, or activities;
- to enter into an interagency agreement with the head of such Federal department or agency to carry out these activities;
- and to make grants to governmental entities, nonprofit organizations, institutions, and individuals for planning, research, monitoring, outreach, and implementation in furtherance of the Great Lakes Restoration Initiative and the Great Lakes Water Quality Agreement.

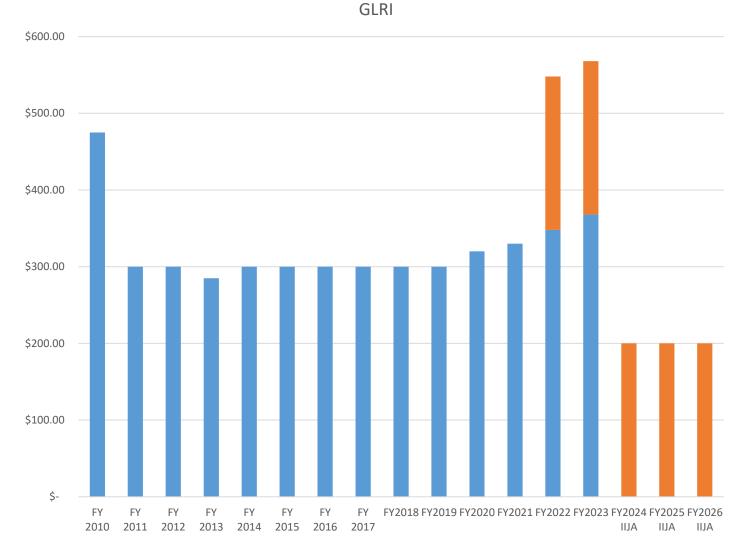


Codifying the GLRI: 33 U.S.C. §1268

- There is established in the Agency a Great Lakes Restoration Initiative (referred to in this paragraph as the "Initiative") to carry out programs and projects for Great Lakes protection and restoration.
- Focus areas In carrying out the Initiative, the Administrator shall prioritize programs and projects, to be carried out in coordination with non-Federal partners, that address the priority areas described in the Initiative Action Plan, including—
 - (i) the remediation of toxic substances and areas of concern;
 - (ii) the prevention and control of invasive species and the impacts of invasive species;
 - (iii) the protection and restoration of nearshore health and the prevention and mitigation of nonpoint source pollution;
 - (iv) habitat and wildlife protection and restoration, including wetlands restoration and preservation; and
 - (v) accountability, monitoring, evaluation, communication, and partnership activities.

GLRI: Funding

- Interagency agreements
- Project agreements
- Negotiated grants and contracts
- Competitive awards
- Competitive grant solicitations are announced through grants.gov.



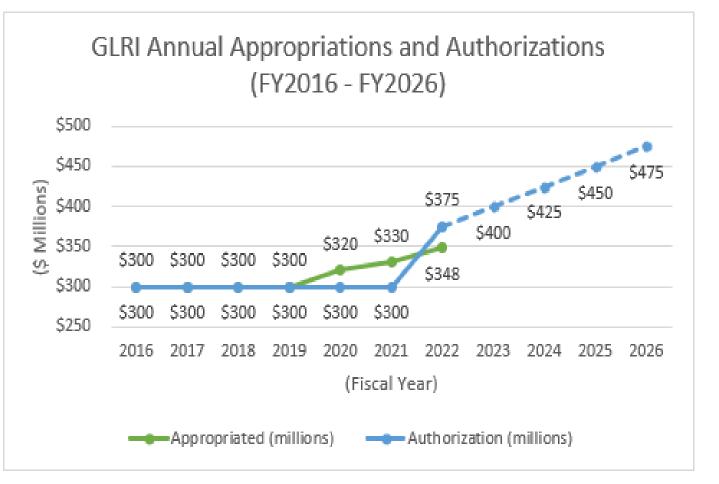
GLRI Appropriations GLRI IIJA

Base Funding

Public Law 116-294 signed January 5, 2021

Reauthorized GLRI for another five years.

Transfer authority, focus areas, monitoring, reporting, action plans





33 U.S.C. §1268

GLRI: Restrictions on Funding

- Limitation No funds made available to carry out the Initiative may be used for any water infrastructure activity (other than a <u>green</u> <u>infrastructure</u> project that improves habitat and other ecosystem functions in the Great Lakes) for which financial assistance is received—
 - (I) from a State water pollution control revolving fund established under subchapter VI;
 - (II) from a State drinking water revolving loan fund established under section 300j–12 of title 42; or
 - (III) pursuant to the Water Infrastructure Finance and Innovation Act of 2014 (33 U.S.C. 3901 et seq.).





GREAT LAKES RESTORATION INITIATIVE ACTION PLAN III

Fiscal Year 2020 - Fiscal Year 2024



October 2019

Goal Setting: GLRI Action Plans

The Great Lakes Restoration Initiative Accelerates Great Lakes Protection and Restoration in Five Focus Areas

 FY 2010 – FY 2014:
 FY 2015 – FY 2019:
 FY 2020 – FY 2024:

 GLRI Action Plan I
 GLRI Action Plan II
 GLRI Action Plan II

Toxic Substances and Areas of Concern

Invasive Species

Nonpoint Source Pollution Impacts on Nearshore Health

Habitats and Species

Foundations for Future Restoration Actions

Long-Term Goals for the Great Lakes Ecosystem

- All Areas of Concern delisted
- Fish safe to eat
- Water safe for recreation
- Safe source of drinking water
- No new self-sustaining invasive species
- Existing invasive species controlled
- Harmful/nuisance algal blooms eliminated
- Habitat protected and restored to sustain healthy ecosystem function and native species

*Socioeconomic Impacts of the Great Lakes Restoration Initiative. University of Michigan Research Seminar in Quantitative Economics. September 30, 2018.



FY 2020 – FY 2024 Great Lakes Restoration Initiative Action Plan Summary

•••••••••••••••••••••••••••••••••••••••	-		Measures of Progress – These measures track results produced from GLRI funding unless otherwise noted.				
Focus Areas	Objectives	Commitments	• 1.1.1.** Areas of Concern where all management actions necessary for delisting have been implemented.				
Focus Area 1: Toxic Substances	 1.1. Remediate, restore, and delist Areas of Concern. 	 Implement management actions necessary to remove Beneficial Use Impairments and delist Areas of Concern. 	 1.1.2.** Beneficial Use Impairments removed in Areas of Concern. 1.1.3.* Areas of Concern with a complete and approved list of all management actions necessary for delisting. 				
and Areas of Concern	1.2. Share information on the risks and benefits of consuming Great Lakes fish, wildlife, and harvested plant resources with the people who consume them.	 Increase the availability and accessibility of information to vulnerable populations that consume Great Lakes fish, wildlife, and harvested plant resources. 	 1.2.1. Number of state and tribal organizations that collect and share information with vulnerable populations regarding the consumption of Great Lakes fish, wildlife, and harvested plant resources. 				
	1.3. Increase knowledge about (1) "Chemicals of Mutual Concern" identified pursuant to the Great Lakes Water Quality Agreement's Annex 3; and (2) other priority chemicals that have negatively impacted, or have the potential to negatively impact, the ecological or public health of the Great Lakes.	 Fill critical data gaps for Annex 3 and other priority chemicals in the Great Lakes through discrete monitoring and assessment activities. 	1.3.1. Discrete chemical monitoring and assessment activities conducted.				
Focus Area 2: Invasive Species	2.1. Prevent introductions of new invasive species.	 Work with Great Lakes states and tribes to conduct rapid response actions or exercises. Manage pathways through which invasive species can be introduced to the Great Lakes ecosystem. 	 2.1.1.* Rapid responses or exercises conducted. 2.1.2. Projects that manage pathways through which invasive species can be introduced to the Great Lakes ecosystem. 2.1.3. Early detection and surveillance activities conducted. 				
		 Conduct early detection and surveillance activities. 	2.2.1.* Aquatic/terrestrial acreage controlled.				
	 2.2. Control established invasive species. 2.3. Develop invasive species control technologies and refine management techniques. 	 Implement control projects for GLRI-targeted invasive species. Conduct field testing of innovative control technologies and methods to prevent the introduction and to control the spread of invasive species. Develop/enhance invasive species-specific collaboratives to 	 2.3.1. Technologies and methods field tested. 2.3.2. Collaboratives developed/enhanced. 				
		support rapid responses and communicate the latest control and management techniques.	 3.1.1.* Estimated pounds of phosphorus reductions from conservation practice implementation throughout Great Lake watersheds. 3.1.2.** Acres receiving technical or financial assistance on nutrient management in priority watersheds. 				
Focus Area 3: Nonpoint Source	 Reduce nutrient loads from agricultural watersheds. 	 Implement systems of conservation practices on farms and in streams to reduce and treat nutrient runoff. Increase adoption of enhanced nutrient management practices to the strength of the strength					
Pollution Impacts on Nearshore Health	3.2. Reduce untreated stormwater runoff.	 to reduce risk of nutrient losses from farmland. Increase implementation of green infrastructure practices to infiltrate stormwater runoff. Implement watershed management projects in urban and rural communities to reduce runoff and erosion. 	 3.2.1.* Estimated gallons (in millions) of untreated stormwater runoff captured or treated. 3.2.2.* Miles of Great Lakes shoreline and riparian corridors restored or protected. 				
	3.3. Improve effectiveness of nonpoint source control and refine management efforts.	 Assess achievement of Great Lakes Water Quality Agreement's Annex 4 nutrient targets. Evaluate effectiveness of nonpoint source projects. Develop new or improved approaches for reducing or preventing 	 3.3.1.* Nutrient monitoring and assessment activities conducted. 3.3.2.* Nutrient or stormwater runoff reduction practices or tools developed or evaluated. 				
Focus Area 4:	4.1. Protect and restore communities of native	 Identify habitats that support important Great Lakes species 	 4.1.1.* Acres of coastal wetland, nearshore, and other habitats restored, protected, or enhanced. 4.1.2.* Miles of connectivity established for aquatic species. 				
Habitats and Species	aquatic and terrestrial species important to the Great Lakes.	and take actions to restore, protect, enhance, and/or provide connectivity for these habitats.	• 4.2.1.* Species benefited where actions have been completed to significantly protect or promote recovery of populations.				
	4.2. Increase resiliency of species through comprehensive approaches that complement on-the-ground habitat restoration and protection.	 Update and implement recovery actions for federal threatened, endangered, and candidate species. Support population-level protections, enhancements, and re-introductions for state, tribal, and Great Lakes native species 					
		of importance.	 5.1.1. Youth impacted through education and stewardship projects. 				
Focus Area 5: Foundations	5.1. Educate the next generation about the Great Lakes ecosystem.	 Support experience-based learning opportunities for youth to promote Great Lakes stewardship. 	 5.2.1. Annual Great Lakes monitoring conducted and used to prioritize GLRI funding decisions. 5.2.2. Identify and address cross-Focus Area science priorities to support implementation of GLRI and the Great Lakes Water Quality 				
for Future Restoration Actions	5.2. Conduct comprehensive science programs and projects.	 Assess overall health of the Great Lakes ecosystem and identify the most significant remaining problems. Identify cross-cutting science priorities and implement projects 	 5.2.2. Identity and address cross-Focus Area science priorities to support implementation of GLRI and the Great Lakes Water Quality Agreement. 				
		to address those priorities.	* These measures have a numerical target.				
			[#] Measures 1.1.1, 1.1.2, and 3.1.2 track results from GLRI and other federal funding.				

FOCUS AREA 1 TOXIC SUBSTANCES AND AREAS OF CONCERN

Objective

Commitment

1.1. Remediate, restore, and delist Areas of Concern.

 Implement management actions necessary to remove Beneficial Use Impairments and delist Areas of Concern.

FOCUS AREA 1

	Measures of Progress with Annual Targets	Baseline/ Universe	FY 2020 Target	FY 2021 Target	FY 2022 Target	FY 2023 Target	FY 2024 Target	
	 1.1.1. Areas of Concern where all management actions necessary for delisting have been implemented. 	Baseline: 12 Universe: 31	16	18	19	20	22	
-	 1.1.2. Beneficial Use Impairments removed in Areas of Concern. 	Baseline: 80 Universe: 255	93	101	109	118	128	
-	 1.1.3. Areas of Concern with a complete and approved list of all management actions necessary for delisting. 	Baseline: 18 Universe: 31	22	24	26	28	31	

"Baselines" identify results through FY 2018 and "Targets" are cumulative. "Universes" represent the total number possible.



Summary of FY 2017 - FY 2024 Allocations* by Focus Area

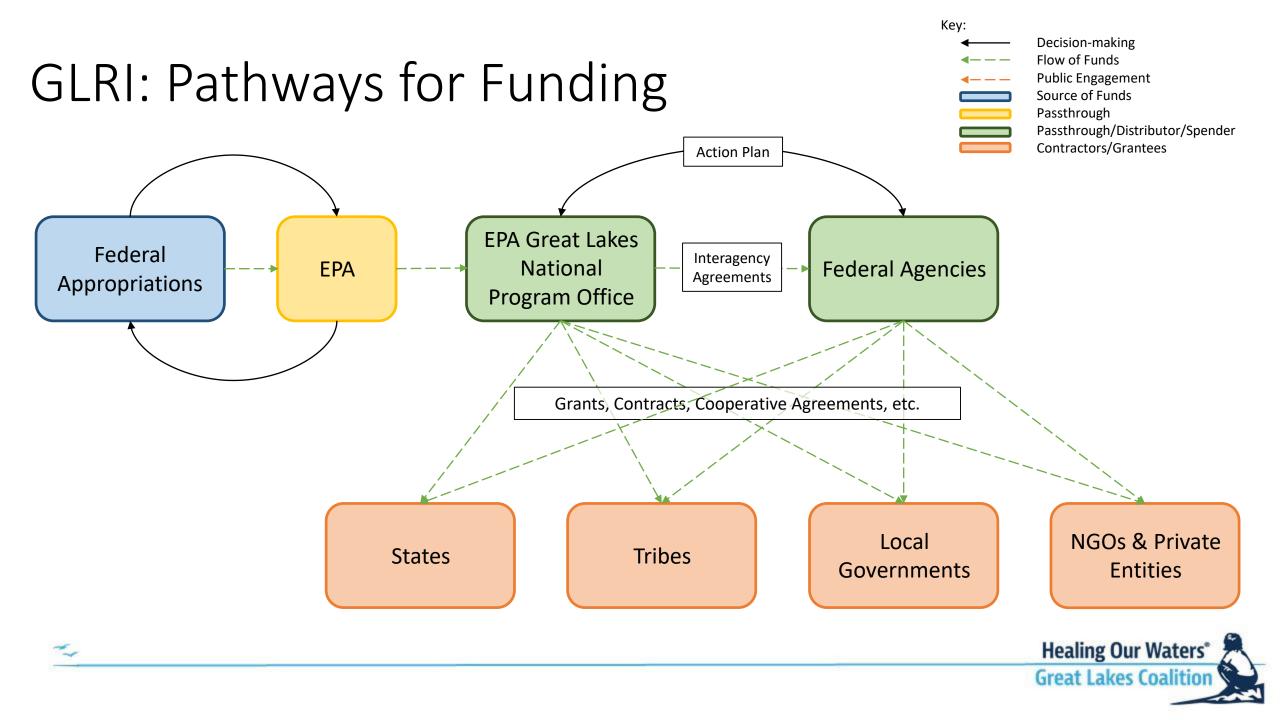
(Dollars in Thousands)

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Focus Area	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 20	23 FY 2	024
Toxic Substances and AOC	\$107,500	\$105,600	\$107,466	\$115,800	\$118.500	\$62,600	\$162	2,165	TBD
Invasive Species	\$62,200	\$56,700	\$57,000	\$62,900	\$66,000	\$81,000	\$70	0,213	TBE
Nonpoint Source	\$47,900	\$50,600	\$51,200	_		Su	mmar	y of FY	201
Pollution Impacts on Nearshore Health					Agency	FY	2017	FY 2018	(D 3 1
Habitat and Species	\$49,500	\$52,400	\$51,400	DHS-	USCG	\$	1,580	\$50	_
Foundations for Future	\$32,900	\$34,700	\$33,000	DOC	-NOAA	\$12	2,027	\$24,629	9
Restoration Actions	\$52,900	354,700	355,000		-USACE		5,940	\$43,55	_
TOTAL	\$300,000	\$300,000	\$300,000	- DOI-	BIA	\$1	0,904	\$11,61	7
		,	,	DOI-	NPS	\$4	4,379	\$3,940	0
Allocations are based on bu	dgets approved	by Regional W	orking Group	age DOI-	USFWS	\$4	1,794	\$52,902	2
allocations reflect adjustme					USGS	\$2	6,817	\$25,724	4
develop allocations for futu			nd FY 2024, ba	ised DOT-	MARAD		\$800	\$67:	5
and will make adjustments	upon appropriati	on.		HHS-	ATSDR/CD	C	\$593	\$59	0
				TICD	ADTIC			A1.15	-

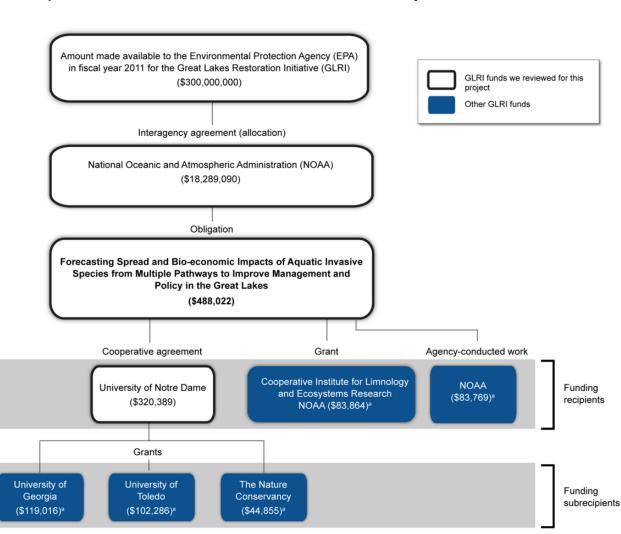
y of FY 2017 - FY 2024 Allocations* by Agency

(Dollars in Thousands)											
Agency	Agency FY 2017 FY 2018 FY 2019 FY 2020 FY 2021 FY 202										
DHS-USCG	\$1,580	\$500	\$1,661	\$1,250	\$1,300	\$1,200	TBD	TBD			
DOC-NOAA	\$12,027	\$24,629	\$29,405	\$28,163	\$16,621	\$29,420	TBD	TBD			
DOD-USACE	\$55,940	\$43,559	\$37,387	\$30,599	\$42,612	\$17,687	TBD	TBD			
DOI-BIA	\$10,904	\$11,617	\$9,842	\$15,840	\$15,765	\$19,368	TBD	TBD			
DOI-NPS	\$4,379	\$3,940	\$3,822	\$3,794	\$4,968	\$7,996	TBD	TBD			
DOI-USFWS	\$41,794	\$52,902	\$47,272	\$53,523	\$59,288	\$78,910	TBD	TBD			
DOI-USGS	\$26,817	\$25,724	\$21,603	\$19,780	\$19,790	\$20,702	TBD	TBD			
DOT-MARAD	\$800	\$675	\$803	\$5,500	\$8,000	\$6,500	TBD	TBD			
HHS-ATSDR/CDC	\$593	\$590	\$0	\$0	\$0	\$0	TBD	TBD			
USDA-APHIS	\$1,262	\$1,176	\$1,312	\$1,378	\$1,459	\$1,830	TBD	TBD			
USDA-NRCS	\$22,072	\$25,096	\$20,697	\$22,239	\$24,374	\$31,824	TBD	TBD			
USDA-USFS	\$11,355	\$10,153	\$11,646	\$9,921	\$12,464	\$12,958	TBD	TBD			
IA Totals:	\$189,522	\$200,560	\$185,448	\$191,988	\$206,641	\$228,395	TBD	TBD			
EPA and Misc. IAs	\$110,478	\$99,440	\$114,552	\$128,012	\$123,359	\$119,605	TBD	TBD			
Totals:	\$300,000	\$300,000	\$300,000	\$320,000	\$330,000	\$348,000	\$368,000	TBD			
Allocations are based on allocations reflect adjust AOCs. RWG agencies d based on the authorized (p of 024,										





GLRI: Pathways for Funding



Sources: GAO analysis of EPA's January 2015 financial management update reports for GLRI amounts made available in fiscal year 2011, and information from NOAA and the University of Notre Dame. | GAO-15-526

^aThe Cooperative Institute for Limnology and Ecosystems Research and recipients of grants made by the University of Notre Dame may have further subawarded these GLRI funds, but GAO did not review that information.



Figure 6: Example of Distribution of Funds for a Great Lakes Restoration Initiative Project

Codified Requirement

(H) Monitoring and reporting The Administrator shall—

(i) establish and maintain a process for monitoring and periodically reporting to the public on the progress made in implementing the Initiative Action Plan;(ii) make information about each project carried out under the Initiative Action Plan available on a public website; and

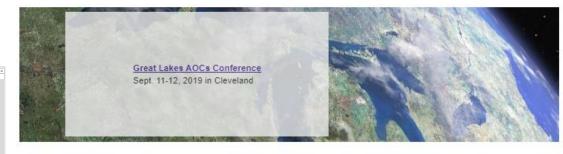
(iii) provide to the Committee on Transportation and Infrastructure of the House of Representatives and the Committee on Environment and Public Works of the Senate a yearly detailed description of the progress of the Initiative and amounts transferred to participating Federal departments and agencies under subparagraph (D)(ii).



33 U.S.C. §1268

(ii) Public Information Sharing www.GLRI.us





Committed to creating a new standard of care that will leave the Great Lakes better for the next generation

The Great Lakes Restoration Initiative accelerates efforts to protect and restore the largest system of fresh surface water in the world - the Great Lakes.

Built upon the foundation of the Great Lakes Regional Collaboration Strategy, GLRI answered a challenge of the governors of the Great Lakes states. Since 2010 the multi-agency GLRI has provided funding to 16 federal organizations to strategically target the biggest threats to the Great Lakes ecosystem and to accelerate progress toward achieving long term goals:

- · Fish safe to eat
- Water safe for recreation
- Safe source of drinking water
- All Areas of Concern delisted
- · Harmful/nuisance algal blooms eliminated
- · No new self-sustaining invasive species
- Existing invasive species controlled
- Native habitat protected and restored to sustain native species

GLRI Action Plan III - Action Plan III is under development; it will outline priorities and goals for the GLRI for fiscal years 2020-2024.

Interactive map of GLRI projects

GLRI Action Plan II, developed with input from states, tribes, local governments, universities, business, and others, outlines how GLRI Federal agencies target their activities for fiscal years 2015-2019 to accelerate environmental progress in five Focus Areas:

- Toxic Substances and Areas of Concern
- Invasive Species
- · Nonpoint Source Pollution Impacts on Nearshore Health
- Habitats and Species
- Foundations for Future Restoration Actions

A	B	С	D	E	F	G	н		J
1 Funde	r Year G	LRI Amount	Project Type		Recipient Name	Project Description	Focus Area	Project Start Date	Project End Date Affec
2 ATSDF	2010 \$	5,000,000	New Project	Biomonitoring of Great Lakes populations	Dept. of HHS-Agency for Toxic Substance	The Agency for Toxic Substances and Disease Registry established programs with Minnes(1	- Toxic Substances and Areas of Concern	9/10/2010	9/30/2016 Multi-
3 ATSDF	2010 \$	500,000	New Project			The Agency for Toxic Substances and Disease Registry and its partners in state and local I 1		9/10/2010	9/30/2016 Multi-
4 ATSDF	2011 \$	2,195,661	Continuation			The Agency for Toxic Substances and Disease Registry established programs with Minnes(1		9/10/2010	9/30/2016 Multi-
	2011 \$	195,600				The Agency for Toxic Substances and Disease Registry and its partners in state and local I 1		9/10/2011	9/30/2016 NY
6 ATSDF	2012 \$	2,200,000	Continuation			The Agency for Toxic Substances and Disease Registry established programs with Minnes(1		9/10/2010	9/30/2016 Multi-
7 ATSDF	2013 \$	525,000	New Project	Biomonitoring of Great Lakes Populations	Dept. of HHS-Agency for Toxic Substance	The Agency for Toxic Substances and Disease Registry funded a cooperative agreement pri 1	- Toxic Substances and Areas of Concern	3/3/2014	9/30/2018 NY
8 ATSDF	2013 \$	250,000	New Project			The Agency for Toxic Substances and Disease Registry will promote better understanding a 1		9/29/2014	9/30/2018 MN
9 ATSDF	2014 \$	800,000	Continuation			The Agency for Toxic Substances and Disease Registry funded a cooperative agreement pr 1		3/3/2015	9/30/2019 NY
10 ATSDF		249,000	Continuation			The Agency for Toxic Substances and Disease Registry will promote better understanding a 1		9/29/2014	9/30/2019 MN
11 ATSDF	2015 \$	1,047,739	New Project	Biomonitoring Legacy and Emerging Great	Dept. of HHS-Agency for Toxic Substance	The Agency for Toxic Substances and Disease Registry is scheduled to fund (by June 1, 201	- Toxic Substances and Areas of Concern	7/1/2016	6/30/2020 WI
12 ATSDF	2016 \$	850,000	Continuation	Biomonitoring Legacy and Emerging Great	Dept. of HHS-Agency for Toxic Substance	The Agency for Toxic Substances and Disease Registry is scheduled to fund (by June 1, 201	- Toxic Substances and Areas of Concern	7/1/2016	6/30/2020 WI
13 BIA	2019 \$	99,798	New Project	Contaminant Screening in Indigenous Medi	St. Regis Mohawk Tribe of NY	To restore beneficial uses, restore native plant species of cultural significance, and verify ch 1	- Toxic Substances and Areas of Concern	7/1/2019	12/31/2020 NY
14 EPA	2010 \$	178,000	New Project	Assessment of Three Michigan Beneficial U	Michigan Dept of Environmental Quality	This project will implement procedures to monitor, assess, and prepare delisting documents 1	- Toxic Substances and Areas of Concern	9/1/2010	8/31/2015 MI
15 EPA	2010 \$	491,000	New Project	Beneficial Use Impairment Monitoring of Mi	Ozaukee County (WI)	This project will implement a comprehensive monitoring program of the Milwaukee River in C1	- Toxic Substances and Areas of Concern	9/1/2010	12/31/2014 WI
16 EPA	2010 \$	296,358	New Project	Chicago as a Source of Air Toxics to Lake	University of Iowa	This project will investigate the importance of the Chicago region as a source of persistent of	- Toxic Substances and Areas of Concern	9/1/2010	8/31/2015 Multi-
17 EPA	2010 \$	1.207.055	New Project	Consortium of State Fish Advisory Program	Minnesota Department of Health	This project will provide support for the State of Minnesota and the consortium of Great Lake1	- Toxic Substances and Areas of Concern	9/1/2010	11/30/2014 MN
18 EPA	2010 S	1.001.177	New Project	Enhance Wisconsin Fish Advisory Program	Wisconsin Department of Health and Fan	This five year project includes all components needed to improve Wisconsin's fish consump 1	- Toxic Substances and Areas of Concern	9/1/2010	2/28/2017 WI
19 EPA	2010 \$	174,941	New Project	Enhancing Integrated Atmospheric Deposit	University of Rhode Island	This project will support Annexes 12 and 15 of the GLWQA and the Toxic Substances and 1	- Toxic Substances and Areas of Concern	9/1/2010	8/30/2015 Multi-
20 EPA	2010 S	581.851	New Project	Enhancing St. Regis Mohawk Tribe Fish A	Health Research Inc.	Health Research Inc. will collaborate with the New York State Department of Health (NYSD)	- Toxic Substances and Areas of Concern	10/1/2010	12/31/2014 NY
21 EPA	2010 S	1.062.331	New Project	Fish-Net - Curriculum for Healthcare Provid	University of Illinois-Chicago	The goal of this project is to reach healthcare providers with a message regarding the health 1	- Toxic Substances and Areas of Concern	8/25/2010	2/24/2017 IL
22 EPA	2010 S	730.000	Continuation	Great Lakes Legacy Act (Buffalo River)	U.S. EPA	To delineate the limits of sediment contamination in the Lower Buffalo River near Buffalo. Ne 1	- Toxic Substances and Areas of Concern	10/26/2010	12/31/2011 NY
23 EPA	2010 S		Continuation	Great Lakes Legacy Act (Eighteenmile Cre		To conduct site characterization activities at the Eighteen - Mile creek	- Toxic Substances and Areas of Concern	4/6/2010	8/10/2011 NY
24 EPA	2010 S	702,395	New Project	Great Lakes Sediment Surveillance Program	University of Illinois-Chicago	This project will investigate the presence of persistent, bioaccumulative and toxic substance 1	- Toxic Substances and Areas of Concern	9/1/2010	8/31/2015 IL
25 EPA	2010 S		New Project	Health Care Provider Organization Outreac		The goal of this project is to inform fish consumers about the harmful impact of environment; 1		9/1/2010	8/30/2016 MI
26 EPA	2010 \$		New Project	Implementation of Mercury strategies in Mi		The purpose of this grant is to implement state and regional mercury strategies within the S1		10/1/2010	9/30/2015 MI
27 EPA	2010 S		New Project			This project will determine mercury levels in walleve, lake trout, whitefish, cisco, and siscov 1		9/1/2010	10/31/2014 WI
28 EPA	2010 \$	998.008		Operation of the Integrated Atmospheric De		This assistance will provide continued implementation of the Integrated Atmospheric Deposi 1		10/1/2009	9/30/2015 IN
29 EPA	2010 S	1.027.847		Operation of the Integrated Atmospheric De		This assistance will provide continued implementation of the Integrated Atmospheric Deposi 1		10/1/2009	9/30/2015 IN
30 EPA	2010 S		New Project	Portage Creek Toxic Substance Source Re		This project will restore 1,440 linear feet of habitat in an industrialized section of Portage Cre1		10/1/2010	12/31/2014 MI
31 EPA	2010 S		New Project	Quality Assurance for Air Monitoring Netwo		This grant provides funding for the Integrated Atmospheric Deposition Network (IADN). The I		9/1/2010	3/31/2016 Multi-
32 EPA	2010 S		New Project	St. Lawrence River Area of Concern Benefic		This project will focus on 4 Beneficial Use Impairments (Restrictions on Fish and Wildlife Col		10/1/2010	9/30/2017 NY
33 EPA	2010 \$		New Project			This project will form a Great Lakes Team to coordinate project planning, public outreach, si		10/1/2010	9/30/2011 NY
34 EPA	2010 \$		New Project	Support for Delisting the Beneficial Use Im		This project will provide statewide and local coordination and support for delisting the Benefi 1		10/1/2010	9/30/2015 WI
35 EPA	2010 \$		New Project	Sustainable Hazardous Waste Collection F		The tribe will develop a sustainable hazardous waste collection program to serve tribal and r		10/1/2010	9/30/2016 MI
36 EPA	2011 \$		New Project			The Michigan Department of Community Health (MDCH) will partner with the Michigan Depa 1		8/1/2011	1/31/2016 MI
37 EPA	2011 \$	297 073		Chicago as a Source of Air Toxics to Lake		This project will investigate the importance of the Chicago region as a source of persistent of		9/1/2010	8/31/2015 Multi-
38 EPA	2011 \$		New Project			The grant will support the Niagara County Soil and Water Conservation District's (NCSWCD 1		1/1/2012	12/31/2016 NY
39 EPA	2011 \$	165,658		Enhancing Integrated Atmospheric Deposit		This project will support Annexes 12 and 15 of the GLWQA and the Toxic Substances and 1		9/1/2010	8/30/2015 Multi-
40 EPA	2011 \$		Continuation	Great Lakes Legacy Act (Maumee River Ar		To conduct site characterization work at the Ottawa River. Duck and Otter creek. Swan creet		6/27/2011	10/30/2013 OH
40 EPA	2011 \$		Continuation	Great Lakes Legacy Act (Maurilee Rifer Al		To conduct site characterization work and conduct the dreading of contaminated sediment f		8/22/2011	9/30/2015 WI
41 LPA	2011 \$	313 840		Great Lakes Sediment Surveillance Progra		This project will investigate the presence of persistent, bioaccumulative and toxic substance		9/1/2010	8/31/2015
43 EPA	2011 \$	200.000		Lakewide Management Plan/ Remedial Act		This project will provide capacity for the Illinois Department of Natural Resources to assist w		9/30/2010	6/1/2016 IL
44 FPA	2011 \$			Michigan DEQ - Area of Concern Restoratio		This will fund Michigan Department of Environmental Quality's Area of Concern Program and 1		10/1/2011	1/31/2015 MI
44 LPA	2011 5	878.555		Minnesota Lake Superior LaMP Support		This project will provide capacity for the Minnesota Pollution Control Agency to assist with t 1		10/1/2010	3/30/2016 MN
+0 EPA	2011 3	070,000	increase	winnesota cake Superior Calvin Support	vinitiesota i oliditori Control Agency	This project will provide capacity for the willinesola Pollution Control Agency to assist with the	- TOXIC Substances and Areas of Concern	10/1/2010	5/50/2016 WIN +

summary All aphis atsdr bia cdc epa fhwa fs fws marad noaa nps nrcs usace uscg usgs

(i) Translating Goals into Measures

Long-Term Goals for the Great Lakes Ecosystem

All Areas of Concern delisted

Fish safe to eat

Water safe for recreation

Safe source of drinking water

No new self-sustaining invasive species

Existing invasive species controlled

Harmful/nuisance algal blooms eliminated

Habitat protected and restored to sustain healthy ecosystem function and native species

Focus		Result/Target					
Area	GLRI Action Plan II Measures	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
ន្ល	1.1.1 AOC Management Actions*	7/8	8/9	11/11	12/12	12/17	
ic	1.1.2 BUIs*	60/60	65/65	73/72	80/78	89/85	
Toxic Substances	1.2.1 People Provided Fish Consumption Information	221,230	207,953	98,942	118,361	794,810	
	1.2.2 Fish/Wildlife Emerging Contaminant Projects	14	7	9	11	9	
æ	2.1.1 Rapid Response Exercises	21/8	11/8	25/8	12/8	37/8	
nd Isivi	2.1.2 Projects Blocking Pathways	8	14	15	28	80	
ig al Inva es	2.1.3 Early Detection Activities	15	3	7	24	53	
ntin ing beci	2.2.1 Aquatic /Terrestrial Acres*	101,392/94,500	115,889/110,000	134,856/120,000	153,569/80,000	178,258/140,000	
Preventing and Controlling Invasive Species	2.2.2 Invasive Tributary Miles	0	0	0	69	76	
E III	2.3.1 Invasive Technologies*	62	65	70	92	105	
Ŭ	2.3.2 Invasive Collaboratives*	4	4	4	10	16	
n	3.1.1 Ag. Phosphorus Reduction* (lbs.)	160,117/130,000	402,943/310,000	767,864/525,000	1,113,603/795,000	1,551,605/1,070,000	
ts ol	3.1.2 Nutrient/Sediment Reduction (acres)	101,574	89,211	169,045	115,519	105,241	
Nonpoint Source Pollution Impacts on Nearshore Health	3.1.3 Measured Nutrient/Sediment Reductions* (Ibs.)	NA	NA	NA	138	NA	
npo arsh	3.2.1 Urban Runoff* (millions of gallons)	37/30	116/70	239/120	252/185	274/250	
ollt Ne:	3.2.2 Urban Runoff Projects	18	36	36	22	33	
	3.2.3 Measured Urban Runoff*	NA	NA	NA	46,964	2,816,500	
ies	4.1.1 Habitat Tributary Miles*	3,855/2,200	4,615/4,200	4,967/4,900	5,289/3,100	5,497/5,500	
pec	4.1.2 Shoreline Miles*	313/75	662/350	947/725	1,046/225	1,477/875	
s pu	4.1.3 Coastal Wetland Acres*	7,033/7,000	17,540/15,000	24,306/30,000	52,755/52,000	60,531/60,000	
Habitats and Species	4.1.4 Other Habitat Acres*	146,815/127,000	167,218/167,000	201,663/187,000	317,733/187,000	381,205/227,000	
bital	4.2.1 Federally-Listed Species Projects	10	17	24	31	50	
Hal	4.2.2 Self-Sustaining Species Projects	47	28	23	38	71	
	5.1.1 Climate Resiliency Criteria Developed	NA	Developed	NA	NA	NA	
ion	5.1.2 Climate Resiliency Criteria Incorporated	NA	NA	Incorporated	Incorporated	Incorporated	
orati	5.2.1 Trained Educators	331	407	611	914	677	
uture Restoration	5.2.2 People Educated	24.785	27,989	35,078	40,480	84,654	
re R	5.3.1 Evaluations	Completed	Completed	Completed	Completed	Completed	
utu	5.3.2 Annual Monitoring	Conducted	Conducted	Conducted	Conducted	Conducted	
Foundations for F	5.3.3 Targeted Watersheds, Habitats, Species to prioritize Funding	Identified	Identified	Identified	Identified	Identified	
tion	5.3.4 Annual GLRI Reports	Issued	Issued	Issued	Issued	Issued	
inda	5.3.5 Triennial GLWQA Reports	NA	Issued	NA	NA	Issued	
Fou	5.3.6 Triennial State of the Lakes Report	NA	NA	Issued	NA	NA	
	5.3.7 Online Information	Updated	Updated	Updated	Updated	Updated	
					-1		



GREAT LAKES RESTORATION INITIATIVE ACTION PLAN III

Fiscal Year 2020 - Fiscal Year 2024



October 2019

Revising the Action Plan

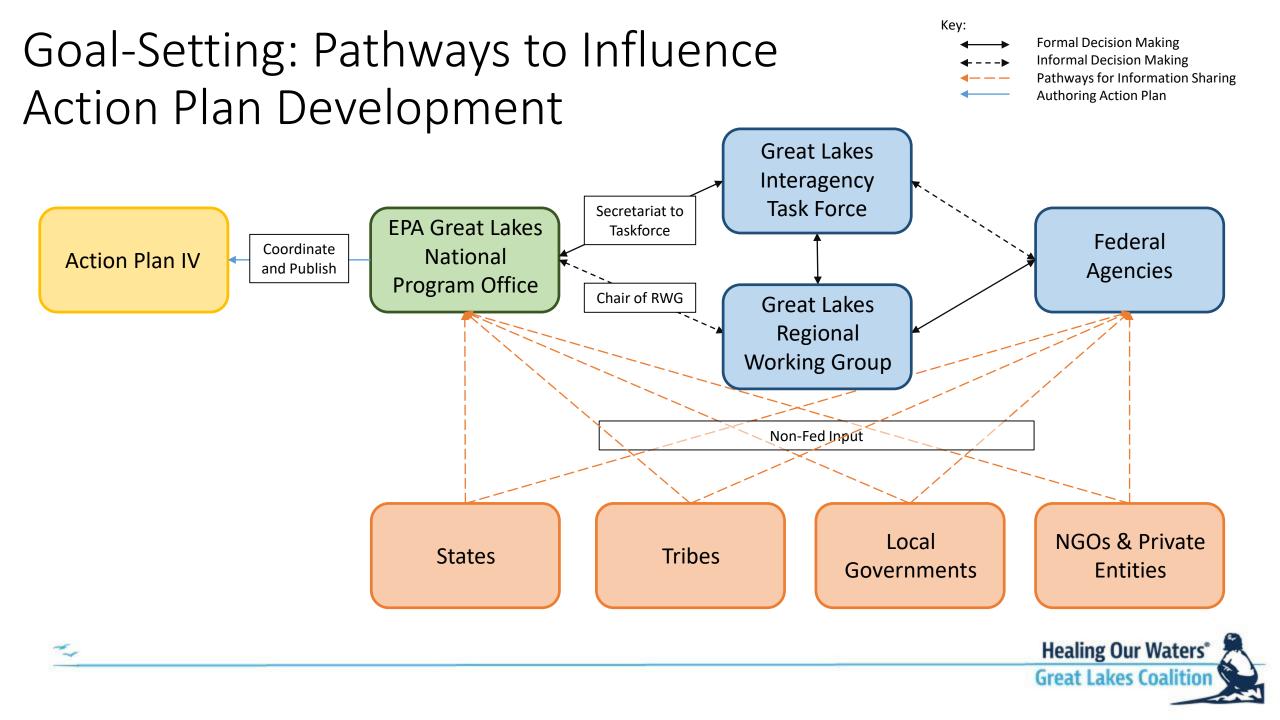
(i) In general Not less often than once every 5 years, the Administrator, in conjunction with the Great Lakes Interagency Task Force, shall review, and revise as appropriate, the Initiative Action Plan to guide the activities of the Initiative in addressing the restoration and protection of the Great Lakes system.

(ii) Outreach In reviewing and revising the Initiative Action Plan under clause (i), the Administrator shall consult with the Great Lakes States and Indian tribes and solicit input from other non-Federal stakeholders.

33 U.S.C. §1268



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