

Implementation Strategy July 1, 2025 – June 30, 2035

Purpose: The 10-Year Implementation Strategy of the Lower Columbia Estuary Partnership (Estuary Partnership) will clearly tie back to issues addressed in the CCMP, including those habitats and species prioritized for protection and or restoration efforts, as well as other areas of focus that are identified in the CCMP including but not limited to water quality, stormwater, environmental education, science, monitoring, and maintaining the Estuary Partnership. The Implementation Strategy will also identify long-term financial sustainability objectives and financial strategies to accomplish the Actions of the CCMP.

The Implementation Strategy serves as a guidance document that addresses the basic requirements for the Habitat Protection and Restoration Strategy with the EPA Program Guidance FY25-FY28 (October 2024) and expands upon those habitat restoration specific activities to include the full suite of CCMP Actions and incorporates the results of the Estuary Partnership's Climate Change Vulnerability Assessment completed in 2016-17 prior to the last Implementation Plan.

The second component of the Strategy is to identify a plan to achieve long-term financial sustainability to implement strategies that support the Actions of the CCMP through diverse resources and partners. This section of the Implementation Strategy will meet the requirements of Financial Strategy as outlined in the EPA Program Guidance FY25-FY28 (October 2024).

Strategy Components:

Estuary Partnership Priority Issues:

- biological integrity
- habitat loss and modification
- impacts from human activity
- conventional pollutants
- toxic contaminants
- institutional constraints
- public awareness and stewardship

The seven priority issues are interrelated. The Estuary Partnership's fundamental goal is to achieve a high level of biological integrity for the lower Columbia River and estuary. That integrity has been degraded by human activity and growth over the last hundred plus years. The degradation is evidenced by habitat loss and modification, conventional pollutants (such as elevated temperature, increased dissolved gas, bacteria, and sediment), and toxic contaminants in fish tissue and sediments. Institutional constraints from multiple jurisdictions and lack of public awareness and stewardship make protection of the river challenging.

Estuary Partnership Goals in this 10-Year Implementation Window:

- Increase habitat and habitat function for multiple species; recover 30% (10,382 acres) of historic extent for priority habitats by 2030, and 40% (22,480 acres) of historic habitat coverage of priority habitats by 2050.
- Develop an inventory of greenhouse gas sequestration potential by habitats across the lower river.
- Reduce or remove contaminants and clean up contaminated sites to improve water quality; work with policy makers to secure long-term funding and support for toxics monitoring in the lower river and larger basin.
- Provide education and engagement activities and provide data and information for a range of audiences; reach
 3,000 students each year during 20,000 hours of river and environmental education programming; engage with
 250 volunteers annually; and expand learning and engagement by creating community outreach and education plans for at least 50% of Estuary Partnership restoration and stormwater projects.
- Convene and coordinate partners to enhance regional strategies and partnerships and heighten protection of the lower Columbia River, including hosting Science to Policy Summits, Columbia River Estuary Conferences, and participating in a range of local, regional, and national collaborations and conversations.

Habitat Restoration Targets:

Identify relevant habitat types and key species in the study area;

The Estuary Partnership updated its Habitat Restoration Targets in collaboration and consultation with the members of the Science Work Group in 2016. The results of the multiyear effort identified the Priority Habitats within each Hydrogeomorphic Reach (A through H) of the lower Columbia. The goals of the CCMP reflect the goals identified below in the Future Habitat Coverage with Targets table. The methodology is based on the goal of recovering 30% of historic extent for priority habitats as a short term goal, by 2030, and 40% of historic habitat coverage of priority habitats as a longer term goal, by 2050. The targets include the additional aspect of no conversion of other native habitats. We believe these targets will be protective of common species and put us on the trajectory of protecting biological integrity.

The Estuary Partnership completed a historical landcover change analysis in 2013, is in the process of updating that analysis (expected to be complete by October 2025), and consistent with CCMP Goals for Actions 1 and 2, will once again update the landcover dataset in 2035. Additionally, the Estuary Partnership completed a detailed sea level rise analysis and interactive map in 2018. The Estuary Partnership may adjust habitat targets based on our assessment of sea level rise impacts as well as the updated landcover data analysis when it is completed in 2025.

Reach	Priority Habitats							
Keach	1	2	3	4				
A	herbaceous tidal wetland	wooded tidal wetland						
В	wooded tidal wetland	herbaceous tidal wetland						
С	wooded tidal wetland	herbaceous tidal wetland						
D	herbaceous tidal wetland	wooded tidal wetland	forested	herbaceous				
E	herbaceous	forested	shrub-scrub	herbaceous tidal wetland				
F	forested	herbaceous	herbaceous wetland	shrub-scrub				
G	forested	herbaceous	herbaceous wetland					
Н	wooded wetland							

Table 1. Priority habitats (in order) by Hydrogeomorphic Reach

	Future Habitat Coverage with Targets							
Reach		30%	Γarget			40%	Target	
	Priority	Other	Total	% of	Priority	Other	Total	% of
	Habitat	Habitat	Habitat	Historic	Habitat	Habitat	Habitat	Historic
Α	3,483	11,825	15,308	82	4,644	11,825	16,469	88
В	10,122	12,032	22,154	83	10,122	12,032	22,154	83
С	7,689	10,806	18,495	59	10,252	10,806	21,058	67
D	5,108	2,097	7,205	43	6,644	2,097	8,741	52
E	4,706	2,700	7,406	45	6,274	2,700	8,974	54
F	17,872	7,976	25,848	42	21,046	7,976	29,022	47
G	9,974	2,991	12,965	40	11,888	2,991	14,879	45
н	1,132	4,301	5,433	81	1,337	4,301	5,638	84
All	60,085	54,728	114,813	54	72,205	54,728	126,933	60

Climate change stressors and impacts on living resources;

The impacts of recurring extreme weather events like hotter drier summers and milder winters are already affecting the Columbia estuary, and they are predicted to have profound impacts in the future. Ecosystems, and the wide range of services they provide to all species, including humans, are threatened in multiple ways by changing precipitation patterns, more extreme storms, sea level rise, warming temperatures, and more.

Major impacts from the changing climate that are observable in the lower Columbia include changes to streamflow and flow timing; precipitation rates, intensity, and timing; higher temperatures; longer, drier summers, and increased flooding with sea level rise and river stages.

The Estuary Partnership will continue to study and implement actions to address the impacts of climate change including;

- Identifying, protecting, and enhancing cold-water refuge areas for salmon survival
- Assessing the impacts of sea level rise and increased riverine flooding on lower Columbia wetlands
- Working with communities and partners to assess, identify, and generate solutions that address vulnerabilities and increase resilience

¹ https://www.estuarypartnership.org/our-work/research/climate-resiliency

- Identifying opportunities to increase the understanding of harmful algal blooms in area waterways and assess actions to address
- Consider restoration techniques such as living shorelines, hyporheic exchange, and nature-based solutions
- Develop an inventory of greenhouse gas sequestration potential by habitats across the lower river.

Key Strategies to Implement the CCMP 2025-2035

The following table identifies how the Estuary Partnership will implement the Actions identified in the CCMP. The table expands upon the Actions of the CCMP and includes; include the proposed action plan timeframe, and where appropriate, key milestones for completion; estimate the range of potential costs of the overall action and identify the possible sources of funding; targets; and performance measures.

Within the CCMP each Action includes statements identifying key activities – they are referred to as the "how" statements, and identification of lead implementors and partners. The Estuary Partnership's role is also identified. In this implementation plan table if the Estuary Partnership is not a lead implementer or reporter, that is noted.

The performance measures are intended to provide quantitative data that the Estuary Partnership can track over the implementation period to assess progress for meeting overall CCMP targets.

Action:	Proposed action plan timeframe, and where appropriate, key	Estimate the range of potential costs of the overall action and	Targets, including protection and restoration targets (if	Performance measures- (What the Estuary Partnership will track annually)
	milestones for	identify the	applicable):	
	completion;	possible sources	Note: All CCMP	
		of funding;	Targets included.	
Action 1: Inventory habitat types and attributes in the lower Columbia River and estuary and prioritize those that need protection and conservation; identify habitats and environmentally sensitive lands that should not be altered. Update periodically to reflect emerging science and issues.	1. Habitat maps updated by 2034 2. Map greenhouse gas sequestration potential by 2030. 3. Update Landcover Dataset by October 2025, with update by 2035 4. Refine regional carbon calculators, ongoing	1. Habitat Map data ~ \$100,000 to update in 2034. Potential Funding sources - EPA, State of OR, State or WA. 2. Greenhouse gas sequestration potential mapping ~\$275,000/year assessment and analysis phase (2024-2027), ~ \$100,000 - \$250,000 for mapping, ongoing costs not identified. Funded 2024-2026 EPA BIL, future potential funders EPA, States, competitive funding sources. 3. ~\$50,000-\$100,000/year to update carbon calculators. Not currently funded, potential future funders EPA, competitive funding sources.	1. Update the map of habitats every ten years. 2. Develop a map that estimates greenhouse gas sequestration potential by 2030. 3. Maintain and update criteria and tools to identify priority species and maps of their priority habitats. 4. Update and maintain maps that provide information and tools related to vulnerabilities in the estuary due to recurring extreme weather events, accelerated land loss, and sea level rise.	1. # of staff/contractors' hours spent in assessment and/or analysis of carbon/methane flux. 2. \$ spent on assessment and analysis of carbon/methane flux, and source of funds. 3. # of staff/contractor hours spent in habitat assessment. 4. \$ spent on habitat assessment. 5. # of reports provided, and to whom, on assessment, analysis, mapping addressed in this action.

ACTION 2: Protect, conserve, restore, and enhance priority habitats, particularly wetlands, on the mainstem and within tributaries of the lower Columbia River and in the estuary.	1. All activities are ongoing. 2. Complete the landcover dataset update in 2025, and in 2035 (Action 1).	1. Project development, collaboration, funding development ~ \$100,000 - \$250,000 per year. Not currently fully funded. Potential future funding sources - EPA, BPA, competitive funding sources. 2. Individual project site feasibility, assessment, design ~ \$200,000 and up. Site specific. Various local, state, and federal competitive funding sources. 3. Individual project site construction and maintenance ~\$250,000 and up. Site specific. Various local, state, and federal competitive funding sources.	1. No net loss of native habitats from the 2009 baseline; 2. Recover 30% (10,382 acres) of the historic coverage of priority* native habitats by 2030; and 3. Recover 40% (22,480 acres) of the historic coverage of priority native habitats by 2050. Priority native habitats by 2050. Priority native habitats include; herbaceous tidal wetland, wooded tidal wetland, forested, herbaceous, shrubscrub. Priority is identified by river reach A through H.	1. # acres of each habitat type restored annually, further identified by location and what entity accomplished. 2. # acres of each habitat type protected or conserved annually, further identified by location and what entity accomplished. 3. Total # acres restored, protected or conserved annually. 4. Cumulative acres restored, protected or conserved annually. 5. Total \$ annually of restoration, protection or conservation annually, further identified by funding source.
ACTION 3: Monitor status and trends of ecosystem conditions and effectiveness of management actions.	1. Complete annual ecosystem monitoring at 3-5sentinel sites annually. 2. Complete action effectiveness monitoring at all sites in accordance with approved monitoring plans - annually. 3. Expand the use of UAV to make monitoring more efficient and effective as appropriate	1.Annual cost to maintain a 4-5 person monitoring team to complete all AEM and EMP monitoring plans, including travel ~\$1.5m. Currently funded by BPA and specific project funders for monitoring plan implementation. 2.Annual UAV costs including inventory maintenance, insurance, certifications, maintenance ~ \$100,000 to \$250,000/year. Currently funded by BPA and project funders.	1. Assess at least 20 additional projects representing a broad geography, restoration method, and type of habitat in the habitat effectiveness monitoring program by 2035. 2. Continue to sample and analyze a full suite of indicators at fixed sentinel locations that represent the estuarine-tidal freshwater gradient through 2035 as part of the ecosystem monitoring program.	1. # of acres monitored annually by EMP. 2. # sites monitored annually by EMP, further identified by location. 3. # acres monitored annually by AEM. 4. # of sites monitored annually by AEM, further identified by location. 5. # and location of sites where UAVs were used for monitoring. 6. # of acres monitored annually using a UAV.
ACTION 4: Establish and maintain Columbia River flows to meet ecological needs of the lower Columbia River and estuary.	Implementation and reporting by other partners.	NA	1. Increase the amount of water dedicated to meeting minimum flows between 1999 and 2035.	NA

ACTION 5: Avoid the introduction and reduce the prevalence of nonnative invasive species. ACTION 6:	Implementation and reporting by other partners.	NA	1. Update the inventory of invasive species by 2035. 2. Provide programs and technical assistance to encourage the restoration and protection of native species with high cultural value such as wapato, cattail, and lamprey. 3. Make state lists of banned plants and invasive species accessible to a range of issuers and users, e.g. nurseries, etc., and update banned list every five years. 1. Develop a sediment	NA
Manage human-caused changes in river morphology and sediment distribution within the Columbia River channel to protect native and desired species.	reporting by other partners.		transport model for the lower river to inform appropriate locations for dredge material placement. 2. Inventory and map in-water structures that affect flow as part of the shoreline inventory every five years.	
ACTION 7: Develop floodplain management and shoreland protection programs	1. Update the Estuary Partnership Shoreline Inventory by October 2025, update by 2035. (Assumes coverage with update of Landcover Dataset, Action 1)	1. Included in the costs of Action 2, ~ \$100,000 to update in 2034. Potential Funding sources - EPA, State of OR, State or WA.	1. Reduce by 10% armored or structured shoreline by 2030. 2. Reduce by 30% non-water dependent structures in the floodplain and floodway by 2030 3. Map and make publicly available a 200-year floodplain map by 2030. 4. Update the Estuary Partnership shoreline inventory every ten years.	Included in Action 1.

ACTION 8: Reduce and improve the water quality of stormwater runoff and other non-point source pollution	1. Complete stormwater retrofits annually at schools and other public spaces. 2. Install native trees and shrubs with stormwater retrofit projects - ongoing.	1. ~ \$100,000 per year for community outreach, project development and proposal development. Currently funded (2024-2026) by CRBRP Stormwater program funds. Future funding sources include EPA, States, local governments, other competitive sources. 2. ~\$250,000 and up for individual stormwater retrofit project's. Currently funded by CRBRP Stormwater funds, States, local governments. Expect a similar mix of funding sources in the future. 3. ~\$50,000 and up, annually, for native trees and shrubs. Currently funded by project funders.	1. Increase on-site retention by 35% by 2035. 2. Increase regenerative and environmentally sustainable practices on farms, roadway rights-of-way, and forestry lands by 2035. 3. Complete at least 2 stormwater retrofit projects annually, beginning in 2024	1. # of projects completed 2. # of High School parking lot project # of schoolyard- based projects 3. # of sq. ft. of impervious surface treated by green infrastructure 4. # of sq. ft. of green infrastructure built 5. # of sq. ft. of impervious surface removed 6. # of plants planted 7. # of trees planted 8. # of classroom lessons provided # of students engaged 9. # of education and outreach materials created 10. # of people involved in project design meetings/events 11. # of people involved in project construction (depave, etc.) 12. # of native trees and plants installed with stormwater retrofit projects. 13. \$ spent annually on stormwater retrofit projects (total), further identified by source of funding.
ACTION 9: Ensure that development is ecologically sensitive, reduces greenhouse gas emissions, and reduces "heat island" effects	1. Complete Action 1, Landcover dataset updates. 2. Maintain habitat restoration and science programs that are current with industry standards and best practices - ongoing. 3. Complete surveys of fish passage barriers - 2025.	1. Costs of landcover dataset updates are in Action 1. 2. Professional development of restoration practitioners ~ \$20,000 to \$100,000 per year. Partially funded by EPA. Future funding from EPA or other competitive sources. 3. ~\$200,000 - \$500,000 per year in project development, community outreach, proposal development. 30% is funded by EPA BIL and EPA funds. 4. ~\$100,000 for fish passage barrier survey in 2025. Funded by LCFRB.	1.Decrease impervious surface in tracts with high disparity by 5% by 2035. 2. Increase by 10% mass transit, carpooling, walking, and bicycle commuting in the metro area by 2030. 3.Reduce by 30% the ratio of converted land to population growth by 2030. 4. Increase coverage of open space and trees and shrubs in urban areas by 35% by 2035.	# hours spent by staff and contractors on project and proposal development.

Action 10:	1 Complete annual	1. ~\$1.2million -	1. Update the	1 # of toxics manitaring
	1. Complete annual	•	' '	1. # of toxics monitoring
Expand and sustain	ecosystem	\$2million annually to support a monitoring	monitoring strategy	locations sampled each
regional monitoring of	monitoring at 3-5		through a	year.
toxic and conventional	sites annually. (Action	team including	collaborative process	2. # staff/contractor hours
pollutants.	3)	personnel, travel, and	by 2035 and every ten	spent in monitoring.
	2. Complete action	equipment. Currently	years thereafter.	3. List of toxics
	effectiveness	funded by BPA and	2. Review and	sampled/tested for in lower
	monitoring at all sites	project funders.	update a regional list	river annually.
	in accordance with	Future funding is	of priority	
	approved monitoring	expected to remain	contaminants	
	plans. (Action 3)	with BPA and	targeted for reduction	
	3. Complete updates	additional competitive	by 2030.	
	to the monitoring	funding sources.	3. Regularly	
	strategy every ten	2. ~\$25,000 - \$50,000	monitor and analyze	
	years.	annually to host the	the full suite of	
	4. Work with regional	SWG and disseminate	priority contaminants	
	partners to secure	information via web	at a minimum of 30	
	long-term toxics	based platforms.	sites by 2030 and	
	monitoring.	Currently funded by	report on impact on	
	4. Work with the	BPA and EPA. Future	ecosystem and	
	Science Work Group	funding is expected to	human health.	
	and other	remain with BPA and	4. Identify trends in	
	collaborators	EPA.	contaminants and	
	annually to ensure	3. ~\$250,000 and up	impacts of reduction	
	regional	depending on scope	actions by 2035 to	
	dissemination of	and scale, to support	adaptively manage.	
	status and trends.	a long-term toxics		
		monitoring program in		
		the lower Columbia.		
		Currently partially		
		funded by an EPA		
		CRPRP grant ending in		
		2025. Future funding		
		uncertain.		
Action 11:	Implementation and	NA	1. Decrease by 50%	NA
Reduce conventional	reporting by other		the number of	
pollutants.	partners.		streams that do not	
			meet water quality	
			standards by 2030.	
			2. Reduce	
			discharges by 25%	
			from nonpoint	
			sources by 2035.	
			3. Put in place	
			trading opportunities	
			among dischargers by	
1			2035	

Action 12:	1. Participate with the	1. ~\$25,000 -\$50,000	1. Clean up a	1. # sites where trash,
Clean up, reduce, or	States and other	for staff time to	minimum of five "hot	marine debris, or derelict
eliminate toxic	regional authorities	collaborate with	spots" by 2030.	vessels were removed,
contaminants,	on marine debris and	partners. Currently	2. Render hazardous	annually.
particularly	derelict vessel	funded by EPA. Future	waste sites harmless	2. # of staff/contractor
contaminants of	workgroups, clean up,	funding from EPA or	by 2050.	hours on marine debris or
regional concern.	and removal.	other competitive	3. Reduce sales of	derelict vessel workgroups
_		sources.	products containing	or clean up actions.
		2. ~\$20,000 -	contaminants	3. \$ spent on marine debris
		\$200,000 for	(fertilizers, pesticides,	or derelict vessel
		community and	personal care	workgroups or clean up
		volunteer events to	products) by 2030.	actions.
		address marine debris	4. Expand regional	
		and trash removal.	pharmaceutical	
			takeback programs	
			with law enforcement	
			and medical providers	
			by 2030.	
			5. Hold pesticide and	
			fertilizer take back	
			programs in multiple	
			locations annually.	
			6. Remove marine	
			debris at a minimum	
			of 40 sites by 2035.	
			7. Remove another	
			10% of mapped	
			derelict vessels by	
			2030.	
			8. Remove chlorine	
			from wastewater	
			treatment and	
			industrial processes	
			by 2040	

ACTION 13:

Provide information about the lower Columbia River and estuary that focuses on water quality, endangered species, habitat loss and restoration, biological diversity, and the effects of recurring extreme weather events on the estuary to a range of users

- 1. Provide regular reports to the SWG on ecosystem trends and health, at least annually.
- 2. Provide data, mapping, reports, and other information through accessible websites, easy to use written materials, story maps, and other methods.
- 3. Produce and circulate an eUpdate and Columbia Connections newsletter, monthly. 4. Increase the percentage of opens for the eUpdate and Newsletter.
- o~\$120,000 \$200,000 annually to
 support a full
 communications
 team, website,
 newsletters, eUpdate,
 partners
 communications,
 social media, and
 other outreach
 strategies. Currently,
 it is partially funded by
 EPA.
- EPA.

 °~\$5,000 \$10,000
 per project to create, implement and manage a communications strategy. Currently funded by EPA and other project funders. Future funding is tied to competitive funding sources for restoration, stormwater, and education programs.
- Reports, publications, and information:
 1. Issue a state of the estuary report that tracks indicators and reports natural resource trends and Estuary Partnership activities every five years.
- 2. Publish technical analyses of topics including toxic contaminants by 2027 and every ten years thereafter.
 3. Publish the inventory and status of habitat restoration

efforts in the region

- annually.
 4. Consistently
 distribute information
 to consumers and
 land users through
 various means, e.g.,
 media, print
 materials, websites,
- workshops.
 Exchange and sharing of information:
- 1. Host at least one Science to Policy Summit every two years.
- 2. Host or co-host a regional scientific workshop or conference at least every three years.
- 3. Update technical information on website annually.

- # of subscribers to eUpdate and Columbia Connections newsletter.
 % of opened eUpdate and Newsletters.
 % of projects with a communications plan, annually.
- 4. # people attending Science to Policy Summit and topic, when held. 5. # people attending Columbia River Estuary Conference, topics/speakers, when held.

ACTION 14:

Create and implement education and volunteer opportunities for community members of all ages to engage in activities that promote stewardship of the lower Columbia River and estuary

1. Complete annual plans for schoolbased programming 2. Complete annual plans for volunteer planting and other volunteer events annually. 3. Develop and maintain a suite of science and other environmental education opportunities for lending, access via the web, or other methods, with an annual review of offerings. 4. Support professional development to ensure that Estuary Partnership Environmental Educators are able to interact with and provide materials that represent the current state of the art, reflect best practices, and meet state goals. 5. Support a robust collaborative program that encourages community and partner engagement in project and proposal

development.

- 1. ~ \$500,000 -\$1.2m for annual planning and implementation -Environmental Education and On-Water Canoe programming. Currently funded by EPA, WA, and other competitive sources. Future funding from EPA, WA, competitive sources. 2. ~ \$50,000 -\$350,000 for planning, organizing, facilitating volunteer events.
- Currently funded by States and other competitive sources. Future funding from EPA, States, competitive sources. 3. ~\$25,000 -\$150,000 to develop and maintain curriculum. Currently funded by competitive sources. Future funding from EPA, WA, competitive sources. 4. ~\$20,000 -\$100,000 for professional funded. Currently it is only partially funded by EPA and other

competitive sources.

EPA, WA, competitive

approximately 30% is funded by EPA BIL and EPA funds. Future funding by EPA or other competitive

Future funding from

5. 3. ~\$100,000 -\$300,000 per year in project development, community outreach,

sources.

proposal development. Currently

sources.

1. Provide a minimum of 20,000 hours of river and environmental education programs to at least 3,000 students in K-12 grade annually. 2. Organize a minimum of ten volunteer opportunities engaging a minimum of 250 volunteers contributing 750 hours of volunteer time annually. 3. Update curriculum at least once a year. 4. Create community outreach and education plans for at least 50% of restoration projects that identify opportunities for education and public stewardship; include accessibility plan (if appropriate); create

listservs, social

media, and other

opportunities for

and engagement.

community learning

- 1. # hours of the following: a) k-12 in classroom science education, further identified by location b) k-12 field trips and service learning, further identified by location and school. 2. # of individual in classroom lessons, annually 3. # of individual students
- served
- 4. # of schools served annually
- 5. # of volunteers who participate annually in programming
- 6. # of trees and shrubs planted annually by: a) students in classroom
- activities b) volunteers - adults and
- youth in volunteer program activities 7. % of restoration projects with an accompanying
- plan 8. # hours spent by staff in professional development 9. # of hours spent in project and proposal

development

education/communications

ACTION 15:	1. Annual website	1. ~\$10,000 for annual	1. Update the Water	1. # Wayfinding signs on
Identify and improve	updates for the water	website and mapping	Trail website at least	Water Trail installed.
public access to the	trail	updates.	annually.	2. # of Water Trail sites
river.	2. Continue to install	2. ~\$50,000 -	2. Install Water Trail	maintained or cleaned for
	water trail wayfinding	\$100,000 to complete	wayfinding signs at	volunteer events.
	signs, complete by	the wayfinding project	locations of interest,	3. # of swimming sites
	October 2027.	for the water trail.	campgrounds, and	maintained or cleaned for
	3. Complete one	Currently not funded.	other sites by 2027.	volunteer events
	swimming area or	Future funding from	3. Conduct at least	4. # of paddling events
	beach cleanup as part	EPA or other	one cleanup or	5. # of people engaged in
	of the volunteer	competitive source.	maintenance of a	paddling
	program, each year,	3. ~\$250,000 -	Water trail site	6. # of Big Canoe program
	beginning in Summer	\$450,000 for annual	annually as part of the	partners, further identified
	2025.	on water paddling	volunteer program.	by organization
		program including	4. Conduct at least	7. # of sites tested prior to
		staffing, safety	one cleanup or	harvest of first foods
		equipment and	maintenance of a	
		training, supplies for	swimming area along	
		individual programs,	the Willamette, as	
		mileage, and partner	part of the volunteer	
		stipends. Currently	program, annually.	
		funded by competitive	Conduct at least	
		sources. Future	twenty-five paddles	
		funding by	annually with partners	
		competitive sources.	and community	
		4. ~\$10,000 - \$20,000	members.	
	1	l	l	1

for site testing for harvest of culturally

important foods.

Future funding by

Currently not funded.

competitive sources.

6. Complete testing at

one site used for

at least annually.

harvest of culturally

important first foods

Action 16:

Facilitate and assist federal, tribal, state, and local governments protection of the lower Columbia River and estuary.

- 1. Host and facilitate quarterly Science Work Group
 2. Maintain web-based science repository, maps, tools, and resources.
 3. Participate in local, state, regional work groups and collaboratives that coordinate with our programming.
- 1. ~\$20,000 annually to support the work of the Science Work Group. Currently funded by EPA and BPA, future funding is expected to remain through those sources.

 2. ~\$12,000 \$50,000 annually to maintain and undate web bases.
- 2. ~\$12,000 \$50,000 and update web based repositories. EPA funded, future funding expected to remain with EPA or other competitive sources. 3. ~\$150,000 -\$250,000 annually for GIS and mapping program. Currently funded by EPA, BPA, and other competitive funding sources. Future funding from mix of competitive funding sources.

4. ~\$120,000 annually to support staff participation in workgroups and collaboratives.
Currently funded by EPA, BPA and other competitive funding sources. Future funding from mix of competitive funding

sources.

- 1. Implement projects annually in at least five counties that advance habitat restoration or water quality goals of the states and federal government.
- Provide expertise to a minimum of two other organizations annually concerned with lower river resources such as Vancouver Lake Partnership, Oregon Abandoned and **Derelict Vessels** Workgroup, Lower Columbia Solutions Group, EPA Columbia **River Toxics Reduction Working** Group, and others.
- 1. # of hours and # of meetings of Science Work Group meetings. 2. # of attendees at each
- Science Work Group meeting and affiliation.
 3. List of local, state, regional work groups or collaboratives that staff participate in, further identified by # of meetings,

position held (if

applicable).

ACTION 17:

Create and maintain a regional entity (Lower Columbia Estuary Partnership) to advocate for the lower Columbia River and estuary and unify and coordinate Management Plan implementation.

- 1. Host quarterly meetings of the Board of Directors, Executive Committee, and other committees of the Board.
- 2. Complete an annual EPA workplan no later than April of each year.
- 3. Complete an annual operating budget and staffing plans by April of each year.
- 4. Host or participate in a range of local, state, regional, and national level collaborative partnerships to meet the goals of the CCMP, the 10-year implementation, and the broader goals of the National Estuary Program.
- Program.
 5. Complete annual performance measurement assessments and reports.

- 1. ~\$1.200,000 -\$3,000,000 to fully staff and fund the Estuary Partnership. Currently funded by EPA, the States, and a mix of competitive funds. Anticipate future funding to
- maintain that mix.

 2. ~\$10,000 annual performance reporting for EPA and other funders. Currently funded by EPA and other competitive sources, expect this funding mix to
- continue.
 3. ~\$100,000 \$250,000 annually to support project and proposal development.
 Currently only partially
- funding by EPA and competitive sources.

funded by EPA. Future

- 1. Assess current activity and progress regularly and define a ten-year strategy to implement activities in the Management Plan.
- 2. Develop a funding strategy to support the implementation strategy.
- 3. Update the status of implementation strategy activities annually.
- 4. Maintain or grow state and federal National Estuary Program funding.5. Maintain diversified
- 5. Maintain diversified funding.6. The Columbia River
- Basin Restoration Program is reauthorized regularly.
- 7. Make annual federal appropriations requests.

- 1. # proposals written and funded, including total \$ value, and purpose of project.
- 2. # of Board and Committee meetings, # of attendees, # hours for each meeting.
- 3. Total \$ value of program work completed in all areas including habitat restoration, science and monitoring, stewardship, environmental education, stormwater and green infrastructure, on-water programs, water trail, communications and community outreach,

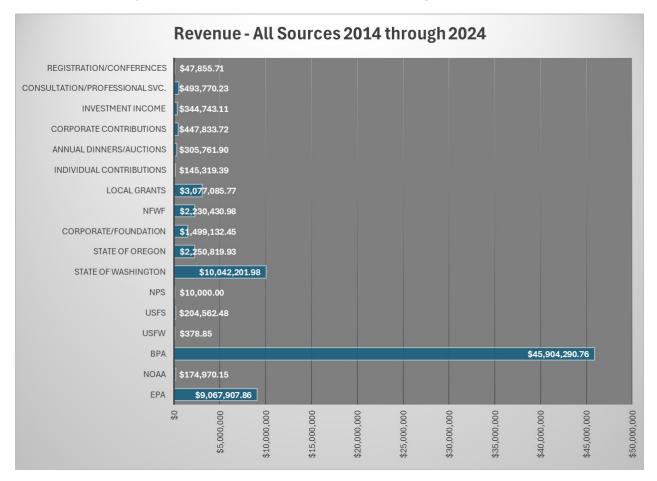
general administration.

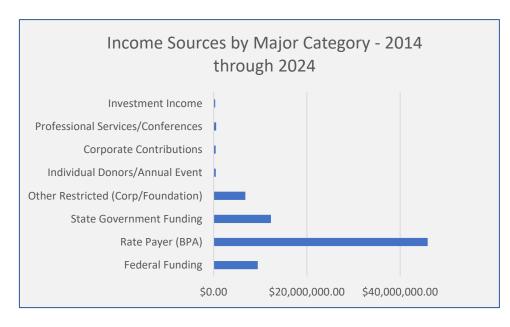
4. Total \$ value of all proposals submitted, awarded, or declined for each program area including habitat restoration, science and monitoring, stewardship, environmental education, stormwater and green infrastructure, on-water programs, water trail, communications and community outreach, general administration and capacity.

Financial Strategy:

Current Funding Serving the Estuary Partnership;

Over the last ten year period, from July 1, 2014, through June 30, 2024 the Estuary Partnership realized over seventy-six million dollars in revenue. That revenue comes from a variety of sources, but predominately from government grants, which provided over sixty-seven million dollars during the same time period – or about 88% of total revenue during the period. Below is the breakdown of funding from all sources:





When funding is broken into major categories, and BPA is considered separately as rate payer-sourced funds, the above chart illustrates the significant differences in funding between categories. It is also important to note that over seventyfour million dollars of revenue was from restricted sources, meaning it was connected to an approved scope of work and budget and did not offer flexibility in how those funds were expended. Those restricted funds accounted for 97.6% of revenue realized during the period. When funds that were realized as payment

for professional services the Estuary Partnership provided and registration for conferences are also removed from consideration – a total of just over one million dollars 1.6% of total revenue over the period was unrestricted.

Additionally, while the CCMP is a requirement of the EPA and a component to the Estuary Partnership's position as a National Estuary Program and all work that the Estuary Partnership accomplishes is in furtherance of our goals within the CCMP, only 11% of the total funding over the ten year period came from the EPA and even less of that EPA funding were Base funds. In practice the EPA Base funding the Estuary Partnership receives from the EPA supports the administrative and operational functions of the organization and little else. This would potentially be one of the few sources of funding that could support project and proposal development if it were more robust, or if there were other sources of funding to support the administrative and operational needs of the organization.

Priorities for Funding;

The Estuary Partnership will prioritize funding for projects that support the implementation of activities that meet the goals of the CCMP. In addition to a guiding interest in working to achieve the goals of the CCMP, the Estuary Partnership will prioritize funding that:

- Provides funding for communications and outreach with communities and partners;
- Provides funding for integrated, cross team collaboration on projects- environmental education components on habitat restoration projects, for example;
- Supports establishment of long-term monitoring in the lower river;
- Provides funding for the administrative and operational costs associated with implementing the work of the Estuary Partnership;

Short- and Long-Term Resource Needs;

- Short Term Five years or less:
 - o Unrestricted revenue to pursue project development and proposal writing
 - o New vehicles
 - Funding to support limited duration personnel for seasonal and limited duration projects after BIL sunsets
 - Water trail funding
 - Ongoing replacement of technology laptops, towers, servers, software, peripherals
 - Funding for professional development
- Long-Term Five to ten years or longer:
 - o Review of personnel policies and benefits to attract and retain a new generation of employees
 - New office space lease that better accommodates parking, storage, security, interior office/structural needs for the team-based workforce
 - Funding to support habitat restoration projects that may be further afield, beyond the boundaries of the study area

Strategies and Timelines to Develop Additional Resources:

Need:	Strategies:	Timeline:	Goals:
Increase Unrestricted Funding	Work to build giving campaigns	• Current (2/2025) through mid-2026.	 Increase campaign revenue by 25% by 2027 and 40% by
	 Increase individual giving 	• Current (2/2025) through end-2026.	2030.
	Build major donor programReview and reconsider	 Engage with a major donor consultant. Early 2026. Build campaign and secure 	Increase individual giving by 20% by 2027 and 40% by 2030.
	annual event approach	first major donor by early 2027.	Secure major donor by early 2027.

		Review annual event following 2025 39 th anniversary.	• Increase annual event revenue by 30% by 2028.
Diversify State Funding Sources	Work with state agencies to identify shared mission and identify potential funding sources	Throughout the 25-27 biennium, work with both states.	Secure funding through one additional state agency by 2028.
Increase Professional Services Income	Respond to RFPs for services – Education, restoration, stormwater, other programming	Current and ongoing	Secure multi-year contracts for at least two program areas by 2027.
Increase funding for administration and operations	No longer write proposals for awards that do not allow indirect cost recovery	Explore the viability of this approach in 2026.	All funders will support the 15% de minimis rate.
Additional project and proposal development funding	 Increase EPA Base funding to full appropriation Write proposals for organizational capacity 	 Work with delegation and ANEP to accomplish Identify and apply for organizational capacity grants beginning in 2025. 	 Secure full funding by 2026. Secure organizational capacity funds by mid-2026.

Strategy Implementors and Sources of Funding:

While the Estuary Partnership is driven by the goal of implementing the CCMP, not all of the resource development work that has to happen to ensure the long-term sustainability of the organization can be sustained by EPA Base funding. To accomplish the work that needs to be undertaken to diversify funding and secure organizational sustainability, the Executive Director and the Communications & Development Manager will work in partnership with other staff and consultants.