

## CHAPTER 8

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# Implementation Resources



## **Chapter 8. Implementation Resources**

### **Background and Context of Chapter**

This chapter suggests resources to assist local governments, nonprofit organizations, citizens groups, and others interested in implementing recommendations in the Action Agenda. Four types of resources are listed:

- Ordinances, regulations, and publications
- Other relevant model programs
- Partnership opportunities
- Grants and funding opportunities.

The Action Agenda contains projects and guidance to be applied toward salmon habitat conservation over the next 5 years, but it is not an exhaustive list. There may be questions as to why certain actions were not included. The direct answer is that the Action Agenda is intended to be as simple and straightforward to implement as possible. For example, there are many more regulatory elements that were omitted because they are too complex to implement in the time frame or are controversial in terms of their scientific validity. Some projects were omitted because of an incomplete understanding of the biology supporting the action. Jurisdictions and communities will make progress toward resolving these complexities and uncertainties through studies and analysis undertaken in the strategic assessment as well as in watershed-wide discussions that will lead to the long-term conservation plan. Through adaptive management, new knowledge will guide the development and implementation of new actions.

As described in Chapter 1, Introduction, the Action Agenda is meant to offer guidance and choices rather than set forth requirements and obligations. As actions in the agenda are implemented and more knowledge about salmon conservation is gained, governments, organizations, businesses, and interested citizens in the Lake Washington/Cedar/Sammamish Watershed will work together to develop commitments to a long-term plan to conserve salmon habitat in the watershed.

### **Resource List of Example Ordinances and Publications**

The interjurisdictional WRIA 8 Staff Committee (see Chapter 9, Acknowledgements, for committee roster) has developed this section to provide local governments with a reference list of example ordinances and regulations that have been or are in the process of being developed and that are considered to be beneficial to salmon habitat. However, the examples have not been specifically reviewed against the factors of salmon habitat decline for WRIA 8. The list is not

meant to be exhaustive; rather, it offers samples. ***Local governments are not required to adopt these ordinances; they are being provided for information purposes only.***

## Clearing and Grading

Models to consider:

1. Clearing and Grading Ordinance, City of Redmond
2. Steep Slopes Ordinance (Vegetative Retention Section), City of Mukilteo
3. Revegetation Guidelines for Steep Slopes, City of Seattle
4. Stormwater, Clearing, and Grading Ordinance, Title 22.800, City of Seattle.

Publications:

1. *Vegetation Management: A Guide for Puget Sound Bluff Property Owners*. 1993. Manashe, El. Washington Department of Ecology. Publication 93-31
2. *Puget Sound Shoreline Stewardship Guidebook*. 1999. Broadhurst, G. (Puget Sound Water Quality Action Team Publication). Copies available at [http://www.wa.gov/puget\\_sound/Publications/Requests.htm](http://www.wa.gov/puget_sound/Publications/Requests.htm)
3. *Technical Requirements Manual*. Stormwater, Grading and Drainage Control Code. City of Seattle.

## Fish Passage Barriers

Publications:

1. *Fish Passage at Culverts*. Aquatic Habitats Guidelines Project (Washington Department of Fish and Wildlife, Washington Department of Ecology, Washington State Department of Transportation, U.S. Army Corps of Engineers). Summer 2002. Available at <http://www.wa.gov/wdfw/hab/ahg/culverts.htm>
2. *Fishways – Design, Operation and Evaluation*. Aquatic Habitats Guidelines Project (Washington Department of Fish and Wildlife, Washington Department of Ecology, Washington State Department of Transportation, U.S. Army Corps of Engineers). Guideline subject to

future funding. Please check  
<http://www.wa.gov/wdfw/hab/ahg/fishways.htm>

3. *Overwater Structures: Marine Issues*. May 2001; *Overwater Structures: Freshwater Issues*. May 2001. Washington Department of Fish and Wildlife white papers. <http://www.wa.gov/wdfw/hab/ahg/overwatr.htm>
4. *Guidance for Project Implementation*. Washington Department of Fish and Wildlife. Available at <http://www.wa.gov/wdfw/hab/ahg/guidelin.htm>
5. *Priority Index*. Washington State Department of Transportation.

Technical assistance:

1. Fish Passage Barrier Technical Assistance website. Washington Department of Fish and Wildlife.  
<http://www.wa.gov/wdfw/hab/ahg/weblinks.htm>.

## **Floodplain Alterations**

Models to consider:

1. Flood Hazard Ordinance, Federal Emergency Management Agency
2. Zero Rise Floodplain Principles and Programs, King County
3. Zero Rise Floodplain Principles and Programs, City of Bellevue.

Publications:

1. *Floodplain Management – Higher Regulatory Standards: Floodplain Development, Fish Habitat Protection, Stormwater Management*. 1st Edition, July 2001. Federal Emergency Management Agency, Region 10. Bothell, Washington
2. *FEMA Model Ordinance for Flood Loss Reduction and Fish Habitat Protection*. Revised November 6, 2001. Federal Emergency Management Agency, Region 10. Bothell, Washington.

## Land Use

Models to consider:

1. Reduced Street Standards and Reduced Impervious Surfaces, City of Olympia
2. Steep Slopes Ordinance, City of Seattle
3. Steep Slopes Ordinance, City of Mukilteo
4. Tri-County Management Zone.

## Retention of Large Woody Debris

Models to consider:

1. King County Flood Hazard Reduction Program (includes policies for how large woody debris can be incorporated/retained during flood hazard reduction efforts)
2. King County Capitol Improvement Projects Program (has guidance on retaining large woody debris).

## Shoreline Modification

Models to consider:

1. *Integrated Streambank Protection Guidelines*. Washington Department of Fish and Wildlife. <http://www.wa.gov/wdfw/hab/ahg/ispgdoc.htm>
2. Tri-County Management Zone proposal. <http://www.salmoninfo.org/tricounty/mzone/zoneToC.htm>.

Publications:

1. *Puget Sound Shoreline Stewardship Guidebook* (Puget Sound Water Quality Action Team Publication). Request a copy at [http://www.wa.gov/puget\\_sound/Publications/Requests.htm](http://www.wa.gov/puget_sound/Publications/Requests.htm)
2. *Integrated Streambank Protection Guidelines*. Chapter 1, Integrated Streambank Protection. Aquatic Habitats Guidelines Project (Washington Department of Fish and Wildlife, Washington Department of Ecology, Washington State Department of Transportation, U.S. Army Corps of Engineers). <http://www.wa.gov/wdfw/hab/ahg/ispgch1.pdf>

3. *Alternative Bank Protection Methods for Puget Sound Shorelines*. May 2000. Zelo, Ian, Hugh Shipman, and Jim Brennan. Shorelands and Environmental Assistance Program, Washington Department of Ecology. Ecology Publication 00-06-012. Olympia, Washington
4. *Strategy and Recommended Action List for Protection and Restoration of Marine Life in the Inland Waters of Washington State*. 1999. Mills, M. Puget Sound/Georgia Basin International Task Force. 38 pp.
5. *Protection and Restoration of Marine Life in the Inland Waters of Washington State*. 1997. West, J.E. Puget Sound/Georgia Basin International Task Force Report Series: Number 6. 144 pp.
6. *Alternatives to Bulkheads in the Puget Sound Region: What Is Soft Shore Protection? What Is Not?* 2000. Johannessen, Jim. From proceedings of the 17th International Conference of the Coastal Society. Portland, Oregon
7. Draft Model Critical Area Ordinance, Washington State Office of Community Development
8. Model Wetland Ordinance, 1990, Washington Department of Ecology
9. Shoreline Regulations (SMA), Washington Department of Ecology
10. Best Available Science Role – WAC 195 – Growth Management Act Requirement, Washington State Office of Community Development
11. Mitigation Sequencing Approach, Washington Department of Ecology.

## **Stormwater**

Models to consider:

1. *Stormwater Management Manual for Western Washington*, Washington Department of Ecology
2. Tri-County Stormwater Guidance
3. *King County Surface Water Design Manual*, King County.

Publications:

1. *The Practice of Watershed Protection*. Schueler, Thomas R. Center for Watershed Protection: <http://www.cwp.org>. Stormwater Manager's Resource Center website: <http://www.stormwatercenter.net>
2. *Stormwater Management Manual for Western Washington*. Washington Department of Ecology.

**Wetlands**

Models to consider:

1. Best Available Science Model for Sensitive Areas. Washington State Office of Community Development. (Under development.)

Publications:

1. *Wetlands and Urbanization – Implications for the Future*. Horner, Richard R. and Amanda Zool Azous. Lewis Publishers. 338 pp.

**Other Models to Consider**

1. Tri-County Model 4(d) Rule Response Proposal, <http://www.salmoninfo.org/tricounty/bioreview.htm>
2. Integrated Pest Management. City of Seattle and King County. Information available at <http://www.metrokc.gov/hazwaste/ipm/>
3. Integrated Pest Management. City of Portland Parks Department
4. *Forests and Fish Report*. Washington State Forest Practices. Information available from Washington Department of Natural Resources
5. *Seattle's Urban Blueprint for Habitat Protection and Restoration*. June 2001. City of Seattle
6. Built Area Option for Land Use Management (best suited for jurisdictions whose landscapes are dominated by built systems that may interfere with natural habitat-forming processes). Appendix 2-G to Tri-County Model 4(d) Rule Response Proposal. Available at <http://www.salmoninfo.org/tricounty/tcplan.htm>



7. *Soos Creek District Environmental Protection Plan*. November 2000. (Includes appendix titled Best Management Practices Framework for Maintenance and Repair of Water and Sewer Utilities in and Near Wetlands and Streams.) Developed by Associated Earth Sciences, Law Office of Thomas J. Mortimer, and Roth Hill Engineering Partners
8. *Inventory and Monitoring of Salmon Habitat in the Pacific Northwest: Directory and Synthesis of Protocols for Management/Research and Volunteers in Washington, Oregon, Idaho, Montana, and British Columbia* (Washington Department of Fish and Wildlife publication). Available at <http://www.wa.gov/wdfw/hab/sshiap/dataptcl.htm>
9. Low Impact Development Resources, [http://www.wa.gov/puget\\_sound/Programs/lid\\_cd/LID\\_resources.htm](http://www.wa.gov/puget_sound/Programs/lid_cd/LID_resources.htm)
10. Monitoring protocols from Washington State's Independent Science Panel.

## Partnership Opportunities

Here is an initial list of partners for funding actions, particularly for protection of habitat. Others exist that are not listed.

- Cascade Land Conservancy
- Groundswell Northwest
- The Nature Conservancy
- Trust for Public Lands.

## Funding Sources

The following table was compiled to provide information on funding sources to those interested in implementing recommendations contained in this document. This list is not all inclusive. Website addresses with additional funding information related to salmon conservation can be found at the end of this section.

**Table 8-1. Funding Sources**

Type	Title	Sponsor	Brief Description	Contact Info
Acquisition	Washington Wildlife Recreation Program	Washington Interagency Committee for Outdoor Recreation	Funding available for acquisition and development of recreation and conservation lands	360-902-3000 or <a href="http://www.wa.gov/iac">http://www.wa.gov/iac</a>
Acquisition	Aquatic Lands Enhancement Account (ALEA) Grants	Washington Department of Natural Resources	Funding available for the acquisition of aquatic lands in order to restore, enhance, and protect aquatic habitats and ecosystems, as well as projects that provide non-motorized public access to shorelines or interpretation	360-902-1000 or <a href="http://www.wa.gov/dnr/htdocs/aqr/alea">http://www.wa.gov/dnr/htdocs/aqr/alea</a>
Acquisition	Conservation Futures	King County Department of Natural Resources and Parks	Funding available for local governments to acquire open space	206-296-7775
Aquatic weeds control	Washington Department of Ecology Water Quality Grants	Washington Department of Ecology Water Quality Program	Funding available for technical assistance and public education to help control noxious weeds	360-407-6562 or <a href="http://www.ecy.wa.gov/programs/wq/plants/grants/index.html">http://www.ecy.wa.gov/programs/wq/plants/grants/index.html</a>
Education/involvement	Environmental Education Grants Program	U.S. Environmental Protection Agency	Funding available for environmental education projects	<a href="mailto:berger.diane@epa.gov">berger.diane@epa.gov</a> or <a href="http://www.epa.gov/enviroed">http://www.epa.gov/enviroed</a>
Education/involvement	Public Involvement and Education Fund	Puget Sound Water Quality Action Team	Support for public involvement and education projects aimed at protecting Puget Sound's water quality	1-800-54-SOUND or <a href="http://www.wa.gov/puget_sound">http://www.wa.gov/puget_sound</a>
Education/involvement	National Environmental Education and Training Foundation	National Environmental Education and Training Foundation	Grants or technical assistance for fisheries education, habitat, and production-related projects	360-902-2260
Education/involvement	Magic Apple Grants	Washington Department of Ecology	Funding available to teachers who promote knowledge and stewardship of clean water	360-407-6408
Farming best management practices	Livestock Cost-Sharing Program	King County Department of Natural Resources and Parks	Funding available to assist in implementation of farming best management practices	206-296-1471 or <a href="http://www.metrokc.gov">http://www.metrokc.gov</a>

Type	Title	Sponsor	Brief Description	Contact Info
General	Centennial Clean Water Fund	Washington Department of Ecology	Grants and loans available for point and non-point source projects, including treatment facilities, stream and salmon habitat restoration, and water-quality monitoring	360-407-6429 or <a href="http://www.ecy.wa.gov">http://www.ecy.wa.gov</a>
General	Forestry Assistance Grants	Washington Department of Natural Resources	Funding for projects such as tree planting, program development, education, and maintenance	360-825-1631 or <a href="http://www.wa.gov/dnr/htdocs/rp/urban/urban.htm">http://www.wa.gov/dnr/htdocs/rp/urban/urban.htm</a>
Habitat protection – general	Partnerships for Wildlife	U.S. Fish and Wildlife Service	For wildlife conservation and appreciation projects to conserve the diverse array of fish and wildlife species in the United States	703-358-2201 or <a href="http://www.fws.gov">http://www.fws.gov</a>
Habitat restoration	National Oceanic and Atmospheric Administration's Fisheries Community-Based Restoration Program	National Oceanic and Atmospheric Administration	Projects must result in on-the-ground habitat restoration with benefits to marine, estuarine, or anadromous fisheries resources	301-713-0174 or <a href="http://www.noaa.gov">http://www.noaa.gov</a>
Habitat restoration	Stewardship Incentive Program	Washington Department of Natural Resources	Funding for projects including forest, soil and water, riparian and wetland protection and enhancement, fisheries and wildlife enhancement, and others	
Habitat restoration – fish and wildlife	Volunteer and Cooperative Projects Program Grants	Washington Department of Fish and Wildlife	Funds available for projects that benefit fish and wildlife	360-902-2806 or <a href="http://www.wa.gov/wdfw/">http://www.wa.gov/wdfw/</a>
Habitat restoration – general	Urban Reforestation and Habitat Restoration Grants	King County Department of Natural Resources and Parks	Supports projects to reforest urban areas, remove invasive species, and provide wildlife habitats	206-296-8265 or <a href="http://dnr.metrokc.gov/wlr/lands/hrhrdesc.htm">http://dnr.metrokc.gov/wlr/lands/hrhrdesc.htm</a>
Habitat restoration – general	Natural Resource Stewardship Network	King County Department of Natural Resources and Parks	Assists urban forestry and watershed stewardship projects	206-296-8042 or <a href="http://dnr.metrokc.gov/wlr/pi/nrsn.htm">http://dnr.metrokc.gov/wlr/pi/nrsn.htm</a>
Habitat restoration – general	Waterworks grants	King County Department of Natural Resources and Parks	Funding available for projects that protect and improve watersheds, rivers, lakes, wetlands, and tidewaters	206-296-8265 or <a href="http://dnr.metrokc.gov/wlr/waterres/wsf/wsfinfo.htm">http://dnr.metrokc.gov/wlr/waterres/wsf/wsfinfo.htm</a>
Habitat restoration – revegetation	American Forests	American Forests	Funding available for tree planting projects	202-955-4500 ext. 204

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<b>Type</b>	<b>Title</b>	<b>Sponsor</b>	<b>Brief Description</b>	<b>Contact Info</b>
Marine/ nearshore protection	Coastal Zone Management Grant	Washington Department of Ecology	Grants for projects that benefit the state's marine resources	<a href="http://www.ecy.wa.gov">http://www.ecy.wa.gov</a>
Marine/ nearshore protection	Washington Sea Grant Program	University of Washington, Office of Marine Environmental and Resource Programs	Funding for research and related technology transfer activities	206-543-6600 or <a href="http://www.washington.edu">http://www.washington.edu</a>
Point and non-point source pollution control	Centennial Clean Water Fund, State Revolving Loan Fund	Washington Department of Ecology	Funds available for point/non-point source projects, including treatment facilities, stream and salmon habitat restoration and water- quality monitoring	360-407-6429 or <a href="http://www.ecy.wa.gov/programs/wq/links/funding.html">http://www.ecy.wa.gov/programs/wq/links/funding.html</a>
Salmon protection – general	Pacific Grassroots Salmon Initiative	National Fish and Wildlife Federation	Grants for salmon habitat protection and restoration project (including planning, management, and public outreach)	415-778-0999 or <a href="http://www.nfwf.org">http://www.nfwf.org</a>
Salmon recovery – general	Small Change for a Big Difference	King County Department of Natural Resources and Parks	Supports salmon and watershed education, enhancement, protection, and restoration	206-296-8494 or <a href="http://dnr.metrokc.gov/wlr/pi/grants.htm">http://dnr.metrokc.gov/wlr/pi/grants.htm</a>
Salmon recovery – general	Mid-Sound Fisheries Enhancement Group	Mid-Sound Fisheries Enhancement Group	Funding available for projects related to salmon enhancement and preservation	206-529-9467 or <a href="mailto:midsound@nwlink.com">midsound@nwlink.com</a>
Salmon recovery – general	Salmon Habitat Recovery Grant	Washington Salmon Recovery Funding Board	Funding available for habitat protection and restoration projects	360-902-2636 or <a href="http://www.wa.gov/iac/salmongrants.html">http://www.wa.gov/iac/salmongrants.html</a>
Salmon recovery – habitat protection	Community Salmon Fund	King County and the National Fish and Wildlife Foundation	Grants available for projects that improve or protect salmon habitat on private property in King and Snohomish counties	206-691-0700, 206-296-8265, or <a href="http://dnr.metrokc.gov/wlr/waterres/salmon-fund/">http://dnr.metrokc.gov/wlr/waterres/salmon-fund/</a>
Salmon recovery – habitat protection	Salmon Habitat Recovery Grant	Washington Salmon Recovery Funding Board	Funding for salmon habitat protection and restoration projects	360-902-2636 or <a href="http://www.wa.gov/iac">http://www.wa.gov/iac</a>
Salmon recovery – habitat protection	Washington State Salmon Restoration Grant Program	National Fish and Wildlife Foundation	Funding for Pacific salmon restoration projects in Washington	202-857-0166 or <a href="http://www.nfwf.org">http://www.nfwf.org</a>

Type	Title	Sponsor	Brief Description	Contact Info
Wetland restoration	Five Star Restoration Challenge Grants	U.S. Environmental Protection Agency and National Fish and Wildlife Foundation	Supports community-based wetland and riparian restoration projects	206-857-0166 or <a href="http://www.nfwf.org">http://www.nfwf.org</a>
Wetland restoration	U.S. Fish and Wildlife Service's Small Grants Program	U.S. Fish and Wildlife Service	Funding available for wetland projects	360-753-9440 or <a href="http://northamerican.fws.gov/NAWCA/smgrants.html">http://northamerican.fws.gov/NAWCA/smgrants.html</a>

For additional information regarding funding opportunities for salmon recovery, please visit the following websites:

<http://dnr.metrokc.gov/wlr/PI/Fundsrcs.htm>  
<http://salmoninfo.org/fundinginfo.htm>

