1. Application Authorization

To: Governor's Salmon Recovery Office
PO Box 43135
Olympia, Washington 98504-3135

From: Snohomish County, WA Department of Public Works Surface Water Management Division
(organization name)

Date: 1/8/99

The Salmon Recovery Office is requested to consider the following application(s) for financial assistance. If successful, I agree to provide the Salmon Recovery Office with additional information necessary to execute a Project Agreement and to adhere to all appropriate state and federal statutes governing grant monies. I am aware that the grant, if approved, will be paid on a reimbursement basis.

Project Name(s)	Rank in Priority Order
Snohmish River Estuary Restoration	1
Paradise Valley Acquisition: Multiple Sites	1
Stillaguamish and Snohomish Culvert Repairs	2

I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE INFORMATION IS TRUE AND CORRECT, THAT I AM AUTHORIZED TO SIGN AND SUBMIT THIS INFORMATION ON BEHALF OF THE APPLICATION, AND THAT I WILL ACQUIRE ALL APPROPRIATE PERMITS.

Joan Lee, P.E., Director, Surface Water Management Division			1/8/99
Print Name	*Title*	*Signature*	*Date*

2. Project Name

Paradise Valley Acquisition: Multiple Sites

(Name or title of the proposal, such as "Snohomish River Estuary Restoration")

3. Project Type

(Select only one)

[X] Land Acquisition (fee simple, lease or conservation easements)

[ ] Habitat Elements (restoration, protection, enhancement, monitoring, water quality/quantity improvements)

[ ] Combined (acquisition & habitat elements)

[ ] Administrative Capacity (inadequate staffing/lack of administration funds)

[ ] Plans or Studies (i.e. watershed planning, assessment/inventories/project prioritization)

4. Applicant / Organization Information

(For the organization which seeks funding)

Organization Name Snohomish County Department of Public Works - Surface Water Management Division

Organization Type

[ ] City/Town [ ] Conservation District [X] County [ ] Engineering/ Public Works

[ ] Native American Tribe [ ] Other [ ] Port District [ ] Public Utility District

Organization Address

Address 2930 Wetmore Ave Suite 101

City/Town Everett

County Snohomish

State, Zip WA 98201

Telephone (425) 388-3464

Billing Information SAME

Payee Name

Address

City/Town

State, Zip

Telephone

5. Applicant's Contact Person

(Who is the project's lead staff person or worker, and how do we communicate with that person?)

Last Name Heller First Name Ray Mr. [X] Ms. [ ]

Title Bear Creek Basin Steward

Address 700 Fifth Ave, Suite 2200 Work Phone 206-296-8391

City/Town Seattle FAX 206-296-8033

State, Zip WA 98104 Internet ray.heller@metrokc.gov

6. Project Location Information

Site Name or Planning Area Paradise Valley Conservation Area (Bear Creek Basin Headwaters)	
Waterbodies Impacted (include main river body & tributaries) Bear Creek, Spring Creek, Paradise Lake, large Wetlands area	
Counties Snohomish County	
Longitude 122 degrees, 04 minutes, 15 seconds	
Latitude 47 degrees, 47 minutes	
City/Town (if applicable) NA	
WRIA Number 08	WRIA Name Cedar – Sammamish
WRIA Number	WRIA Name

7. Driving Directions to Project Site (If Applicable)

(Site and vicinity maps are also required)

From Interstate 405 take exit 23, travel east on State Route 522 approximately 6 miles to Paradise Lake Road (signaled intersection). Traveling east approximately 1.5 miles east on Paradise Lake Road you enter the Paradise Valley Conservation Area and it extends to the Snohomish –King County boundary.

8. Funding Request and Source of Match

Amount Requested from the Salmon Recovery Program		$ 652,000 [a]
Applicant's Share - comes from these source(s) - Match is Optional		
Appropriation/Cash	$159,000 Snohomish County	
Conservation Futures	$1 million (Snohomish County), $160,000 (King County)	
Donated Land/Property Interest	$	
In-kind (Labor, Material, Equipment)	$	
State Grant (name-)	$	
Total for Applicant		$ 1,319,000 [b]
Total for Project Cost [a + b = c]		$ 1,971,000 [c]

9. Summary - Description of Project

Clearly state project objectives, geographic scope, summarize how the project provides benefits to salmon and the scientific basis for selecting and evaluating the project benefits. Indicate your anticipated start and completion dates for this project. Limit this narrative section to 1500 characters or less. See example.

The Paradise Valley Conservation area acquisitions will conserve the headwaters of Bear Creek in Snohomish County. Bear Creek is one of the most productive wild salmonid stream basins in Western Washington. Bear Creek Basin is only 50 sq. miles in area but is host to tens of thousands of spawning salmon (chinook, coho, sockeye, kokanee, steelhead, and cutthroat) each fall. Over 70,000 wild adult salmonids returned to spawn in the fall of 1996. The Paradise Valley conservation area is about 1100 acres in size. **[The current project is for purchase of approximately 375 acres].** It is comprised primarily of second growth forest, large wetlands, some salmonid spawning and prime rearing areas, and habitat for many other species of wildlife. The goal for the conservation area is to conserve the significant natural resources in the area through cooperative fee purchases, easements, and property tax incentives with the property owners. The regional significance of the area is recognized in the Bear Creek basin plan developed jointly by Snohomish County, King County, City of Redmond, and the community. In 1996, the Sammamish Watershed Forum, a regional body made up of elected officials from cities in the Sammamish Watershed and Snohomish and King Counties also identified and ranked the Paradise Valley Conservation area project as one of the top priorities in its 20 year vision for the Sammamish Watershed.

10. Application / Evaluation Questionnaire

(Applicants MUST answer all questions in three (3) pages or less. The information will be used to review and ensure the project benefits salmon. Retype the question and respond with a font size of 12 point or larger on a 8.5" or 11" white paper.)

1) **How was the project or activity selected and prioritized and what is the scientific basis for the selection?**
For example: limiting factors inventory, stock status, sequencing with other projects, implement with other funds, lack of administrative capacity, etc. Indicate source of your information.

In 1990, Snohomish County, King County and the City of Redmond completed a basin plan for the Big Bear Creek basin. This plan consisted of an extensive analysis of natural resources, basin problems, and provided recommendations for action. One of the key basin plan findings was recognition of and recommendation to preserve the regionally significant natural resources in the basin. The Paradise Valley conservation area is one of these regionally significant resource areas that warrants protection. In 1996 the Sammamish Watershed Forum (Bear Creek is one of many stream basins in the larger Sammamish Watershed) through a technical evaluation process selected the Paradise Valley Conservation area project as one of the top priorities in the Watershed. In 1998 an ESA review panel composed of biological staff at King County government ranked the Paradise Valley Conservation Project as a top priority for WRIA 8.

The six salmon stocks in Bear Creek are native wild stocks although coho and steelhead hatchery fry have been planted in recent years. The chinook, coho, steelhead, and kokanee stocks have seen small numbers of returning spawners in recent years. The Paradise Valley headwaters of Bear Creek provides prime salmonid spawning and rearing habitat. Preservation of the conservation area forests and wetlands will also provide protection to the instream habitat and natural hydrology of downstream high resource areas (see map).

Efforts through the basin plan implementation of the past eight years has been a coordinated one seeking to restore degraded lower basin areas and preserve the still thriving significant resource areas. Restoration through 1999 will have spent about $ 8 million to restore about five miles of instream and streamside habitat. Preservation efforts through programs like the Waterways 2000 programs have expended about $7 million to permanently protect 1600 acres with another 1300 acres in open space taxation programs.

The Bear Creek headwaters are split by the Snohomish – King County boundary. Paradise Valley Conservation area is the portion in Snohomish County while the Upper Bear Creek Conservation Area is the portion in King County. Biologically and geographically they are one system, which is why both Counties are working together with the Seattle - King - Snohomish Land Conservancy in preservation of the area. Snohomish County has appropriated $1,159,000 and King County $160,000to date for the Paradise Valley project. The Land Conservancy is doing property owner contact, negotiation, and solicitation of additional new funds to complete current and future acquisitions. The Paradise Valley Conservation area project was estimated in 1996 to cost $6,000,000. Snohomish County and the Land Conservancy have already obtained a letter of interest from property owners for about 800 acres willing to consider preservation options. It is planned to have significant acreage in the Conservation area protected in 1999. Provided funding is available, it is possible to protect at least 80% of the conservation area by 2003.

2) **Explain how this project or activity will protect, restore or enhance the habitat.**
What are the project or activity objectives? What are the expected benefits to salmon? What are the expected outcomes?

The objectives of the Paradise Valley Conservation area are the same as the adjacent downstream Upper Bear Creek Conservation area. First, to preserve forested area, wide riparian buffers (> 300 feet), and key salmonid spawning and rearing areas. Second, to limit new residences by purchasing development rights. Three, to establish a cooperative conservation ethic between property owners, the land conservancy, and local governments. Those objectives were met in the Upper Bear Creek Conservation area through the waterways 2000 program from 1995 through 1997 by providing conservation options to property owners so their goals and conservation goals could be more easily met. Success of this process is evident by the 80% property owners participation rate in the Upper Bear Creek Conservation area.

The expected benefits to salmon from the Paradise Valley conservation area are many. The large forested areas will help provide year around cool, clean stream flows that are slow to respond to storm events. The wooded riparian areas will provide the instream structure (LWD) for retaining spawning gravel, moderating flood flows, protecting stream banks, providing food sources for fish and wildlife, improved water quality, and protection from predators. Less residences will help retain forested area that will reduce impervious surfaces which will reduce future peak stream flow increases and improve water quality. A conservation ethic in the community is the best way to protect resources over the long term and on a daily basis because the people living here will take sustainable actions, talk to their neighbors about activities, and preserve fish and habitat through everyday activities. Watershed preservation will become a quality of life issue.

The expected outcome of the Paradise Valley conservation area and all other conservation areas in the Bear Creek basin are thriving salmonid and wildlife populations with a functioning rural landscape which includes compatible rural human uses like dispersed or clustered residences, forestry, and agriculture.

3) **How will the project or activity be monitored and evaluated to determine the benefit to salmon recovery?**

The Project evaluation and monitoring will take place through five coordinated actions. First, Snohomish County, King County, and the City of Redmond jointly fund a basinwide monitoring program as part of implementation of the Bear Creek basin plan. Goals of this basinwide monitoring program include assessing impacts of the basin plan recommendations and projects and to propose adjustments in basin plan recommendations if necessary. Second, Snohomish, Pierce and King Counties will implement a monitoring program(s) as part of the Chinook Salmon ESA listing process to assess impacts of the programs and projects that the three counties enact to recover Chinook salmon. Third, the Seattle-King-Snohomish Land Conservancy will be monitoring the properties that it acquires within this conservancy area and will likely have a land steward active in managing those properties. Four, the basin Bear Creek basin steward funded by Snohomish County, King County and the City of Redmond will be providing services to this area. Five, the Bear Creek basin citizen group called Water Tenders will be active in adopting properties purchased. Their activities include cleanups, nonnative plant removals, plantings, monitoring, species inventories and education.

11. Land Characteristics Information

(Complete for acquisition and restoration projects)

Acreage Type	Existing Acres	Acres to be Acquired	Acres to be Restored
Riparian lands			
Tidelands			
Uplands		225	
Wetlands		150	

12. Habitat Elements Cost Estimates - NA

Element/Item	Unit	Quantity	Estimated Cost (include taxes)
Instream			
Bank stabilization	Feet		
Barrier removal (fish passage)	Each		
Channel reconfiguration	Feet		
Culvert upgrades	Each		
Dike reconfiguration	Acres		
Esturarine/nearshore improvements	Sq Ft		
Large woody debris	Each		
Off channel habitat	Acres		
Water quality / quantity improvements	Lump sum		
Instream - other	Lump sum		
Riparian/Wetland			
Livestock fencing	Linear Ft		
Native plant establishment (revegetation)	Sq Ft		
Non-native plant removal/control	Sq Ft		
Silviculture treatments	Acres		
Riparian /Wetland - other	Lump sum		
Upland			
Abandonment / decommissioning (roads)	Miles		
Road erosion control (storm proofing)	Lump sum		
Storm water management	Lump sum		
Upland - other	Lump sum		
Monitoring			
Baseline monitoring			
Monitoring - other	Lump sum		
Architecture & Engineering (20% limit) (Include administrative costs and permits)			
TOTAL COSTS			

13. Planning & Administrative Capacity Cost Estimates - NA

Element/Item	Unit	Quantity	Estimated Cost (include taxes)
Professional Services			
Consultant(s)	Lump sum		
Mapping/GIS	Lump sum		
Professional services - other	Lump sum		
Salaries & Benefits			
Salary and benefits	# of FTE		
Planning Related Costs			
Communications (i.e. printing, telephone)	Lump sum		
Supplies (i.e. publication, maps)	Lump sum		
Rental costs (i.e. meeting rooms)	Lump sum		
Transportation (i.e. per diem)	Lump sum		
Planning related costs - other	Lump sum		
TOTAL COSTS			

14. Land Acquisition Cost Estimates

Anticipated date to complete purchases	**2000**
Acreage to be purchased	**375**
Value determination type (check all appropriate responses)	
Appraised/reviewed value	800 acres appraised at $4.5 million
Estimate of value / letter of opinion	
Purchase type (check all appropriate responses)	
Conservation easement	
Fee simple purchase	X
Lease	
Allowable costs	
Land	**$1,806,000**
Long-term lease	
Incidental costs associated with purchasing land[1]	**$70,000**
Administrative costs (5% limit)	**$95,000**
TOTAL COSTS	**$1,971,000**

[1] Incidental costs include: appraisal and review, closing costs, hazardous substances reviews, noxious weed control costs, recording fees, survey costs, title reports, insurance, baseline inventory, and taxes.