Metro contract
925795

FISH RESTORATION & ENHANCEMENT PROGRAM (R&E)
Oregon Department of Fish & Wildlife
Grant Agreement

Project #: 03-060
Project Title: Smith-Bybee Water Control Structure Refinements
Cost Code/Grant #: 54008 945060-08
Allocation: $8,000

Authority: The Department and Grantee enter into this Agreement under the authority of the Oregon Fisheries Restoration and Enhancement (R&E) Act of 1989, Oregon Laws 1989, chapter 512, sections 1, 2 and 10 to 13. This Agreement consists of this signed document and the attached exhibit(s).

This Agreement is between the State of Oregon; acting by and through its Department of Fish and Wildlife (ODFW), hereafter called **Department**, and Metro Regional Parks and Greenspaces Department, hereafter called the **Grantee**, in consideration of the mutual covenants contained herein. This Agreement consists of this signed document along with its attached exhibit(s).

Objective: The objective of this Agreement is to implement the Smith-Bybee Water Control Structure Refinements project, hereinafter called the **Project** as approved by the Restoration and Enhancement Board on July 30, 2004 and by the Oregon Fish and Wildlife Commission on September 10, 2004. The purpose of the Project is to improve fish passage at a water control structure used to manage wetland habitat at Smith and Bybee Lakes and their associated sloughs. The Grantee agrees to perform the Work in accordance with the terms and conditions of this Agreement.

Statement of Work: The Statement of Work and Budget (the "Work"), including the delivery schedule for such Work, is contained in Exhibit D attached and incorporated by reference into this Agreement. The Grantee agrees to perform the Work in accordance with the terms and conditions of this Agreement.

Agreement Documents: This Agreement consists of the following documents, which are listed in descending order of precedence: this Agreement less all exhibits, attached **Exhibit A** (Schedule for Release of Funds), **Exhibit B** (Grantee's Request for Fund Release), **Exhibit C** (Project Completion Report), **Exhibit D** (Statement of Work and Budget), **Exhibit E** (Oregon Watershed Restoration Reporting Form), and **Exhibit F** (Project Proposal).

I. FUNDING AND ACCOUNTING FOR FUNDS DISTRIBUTED

A. Upon receipt of this signed Agreement and submission to the Department of evidence that the Grantee has obtained the applicable permits, the Department will fund the approved Project for a total sum not to exceed $8,000 according to the

schedule attached as Exhibit A. Ten percent (10%) of this amount will be withheld until Project completion requirements are fulfilled. The funding period for this Agreement is effective from the date of last signature and shall expire on June 30, 2005. This Agreement facilitates payment to the Grantee for Project activities approved by the Oregon Fish and Wildlife Commission.

B. The Grantee agrees that the money provided by the Department will only be used for the purposes specified in the attached Statement of Work and Budget, Exhibit D, approved by the Fish and Wildlife Commission, unless the Department subsequently approves changes in the allocation of funds. Any substantial change in the Project, including the ending date, must be requested in writing and have the Department's prior written approval in order to be made a part of this Agreement.

C. The Grantee will submit a Grantee's Request for Fund Release form (Exhibit B), for each payment requested under the terms of this Agreement, showing an itemized accounting of how the requested payment has been spent and including invoices or receipts for the Project expenditures. No payment to the Grantee is due until forty-five (45) days after the Department receives the Grantee's Request for Fund Release and invoices. **There will be no payments made to the Grantee for invoices submitted more than forty-five (45) days after the expiration date of this Agreement.**

D. The Grantee will account for the funds distributed by the Department using Generally Accepted Accounting Principles (GAAP) to account for all income and expenses related to this Project. The Department will have reasonable access to the Grantee's books, documents, papers, and records that are directly pertinent to this Agreement for the purpose of making audit, examination, excerpts and transcripts.

E. The Grantee will not enter into any subcontracts for any of the work required by this Agreement, or assign or transfer any of its interest in this Agreement, without the Department's prior written consent, with the exception of subcontracting services that have been identified in attached Statement of Work and Budget (Exhibit D). In addition to any other provisions that the Department may require, Grantee will include in any subcontract allowed under this Agreement a requirement that the subcontractor is bound by Sections II, IV, VI, and VII of this Agreement as if the subcontractor were the Grantee. The Department's consent to any subcontract does not relieve Grantee of any of its duties or obligations under this Agreement.

F. The Department and Grantee are the only parties to this Agreement and are the only parties entitled to enforce its terms. Nothing in this Agreement gives, is intended to give, or may be construed to give or provide any benefit or right to third persons, unless such third persons are individually identified by name herein and expressly described as intended beneficiaries of the terms of this Agreement.

II. FUNDING CONDITIONS

A. As a condition for the dispersal of any Department funds, the Grantee will obtain the following relevant authorization for Project activities:

1. Permits, licenses and insurance certificates as required from local, state, or federal agencies or governing bodies;

2. Agreements from individual landowners on whose property the Project will be located, allowing access to the Project by Project sponsors, the Department, and its representatives;

3. Evidence that the entire Project complies with all public contract rules as described in the Oregon Attorney General's Model Public Contract Rules Manual, all Oregon Aquatic Habitat Restoration and Enhancement Guidelines, and the Oregon Plan;

4. Prior to construction, Grantee must have receipt of ODFW approval of fish passage structure design to ensure that the structure meets ODFW fish passage criteria. Any modifications to the approved design must have prior written approval from ODFW;

5. After construction, grantee will provide to the R&E Program Coordinator documentation of ODFW inspection and approval of completed fish passage structure.

B. As a condition of the dispersal of any Department funds, the Grantee will submit to the Department any publication or public presentation media created by the Grantee arising from the tasks performed or data collected from this Agreement. Any publication or public presentation will include a statement explaining that such work was partially funded through the Oregon Fisheries Restoration and Enhancement Act of 1989.

C. Funding of R&E Projects are contingent upon available funds. The Grantee understands and agrees the Department's payment of amounts under this Agreement attributable to work performed after the last day of the current biennium is contingent upon the Department's receiving from the Oregon Legislative Assembly appropriations, limitations, or other expenditure authority sufficient to allow the Department, in the exercise of its reasonable administrative discretion, to continue to make payments under this Agreement.

D. Records Maintenance; Access. Grantee will maintain all fiscal records relating to this Agreement in accordance with generally accepted accounting principles. In addition, Grantee will maintain any other records pertinent to this Agreement in such a manner as to clearly document Grantee's performance. Grantee acknowledges and agrees that ODFW

and the Oregon Secretary of State's Office and the federal government and their duly authorized representatives may have access to such fiscal records and other books, documents, papers, plans and writings of the Grantee that are pertinent to this Agreement to perform examinations and audits and make excerpts and transcripts. The Grantee will retain and keep accessible all such fiscal records, books, documents, papers, plans and writings for a minimum of six (6) years or such longer period as may be required by applicable law, following final payment and termination of this Agreement, or until the conclusion of any audit, controversy or litigation arising out of or related to this Agreement, whichever date is later.

E. Access to Public Records. Grantee acknowledges and agrees that Agency and the Oregon Secretary of State's Office and their duly authorized representatives shall have access to such fiscal records and other books, documents, papers, plans and writings of Contractor that are pertinent to this Contract to perform examinations and audits and make excerpts and transcripts except to the extent that such records are confidential under state or federal law, or rules adopted by a state agency pursuant to ORS 36.224.

III. ACCESS TO PROJECT SITE/LONG TERM MAINTENANCE OF PROJECT

A. The Grantee will allow the Department and/or its representatives access to the Project to monitor and evaluate the Project as needed.

B. The Grantee will evaluate and maintain the project site for the life of the structure to ensure adequate fish passage is provided and maintained.

IV. PROJECT COMPLETION REQUIREMENTS

A. The Grantee will submit the R&E Project Completion Report form (Exhibit C) and final invoice within forty-five (45) days after the Project's completion date. The report will include:

1. Photographs of the Project area at the beginning of the Project and after the Project was completed;

2. The measurable results achieved by or expected from the completed Project,

3. A summary of the activities paid for by the Department and the expenses for those activities, including funds expended from other fund sources,

4. Any additional information that would be helpful in evaluating the strengths and weaknesses of the Project's methods, materials, or assumptions based on Project objectives and expectations of results,

5. Assurances that R&E signs adequately identify the Project site. The Fish Restoration & Enhancement Program will provide the signs.

B. For fencing projects, fish passage projects, instream structure projects, riparian or other watershed enhancement projects, the Grantee must also complete the attached Oregon Watershed Restoration Reporting Form (Exhibit E) and return a copy to the R&E Coordinator. Part F

C. Within forty-five (45) days after the Project's completion date Grantee will submit to the R&E Program Coordinator an Operations and Maintenance Plan addressing details and responsibilities on how the fish passage structure will be operated and maintained to provide passage that meets ODFW criteria.

V. TERMINATION OF FUNDING

A. This Agreement may be terminated by mutual written consent signed by both parties, or by either party upon thirty (30) days notice in writing delivered by certified mail or in person.

1. If the Project is terminated by the Grantee, said Grantee will return all money received from the Department within thirty (30) days of sending notice of the termination. The Grantee will also be required to be required to submit an accounting of Department money and Project reports to the Department within thirty (30) days of sending notice of termination.

2. If the Department terminates Project funding, the Grantee will return to the Department all money received from the Department not yet actually expended on the Project, within 30 days of receiving notice of the termination. If the Grantee disputes the basis for the termination of the Project, the Grantee may request the Department reconsider its decision, stating the basis for the disagreement, within the 30 day period.

B. The Department may terminate the whole or any part of this funding Agreement effective upon delivery of written notice to the Grantee, or at such later date as the Department may establish, if:

1. Implementing the Project will exceed or is inconsistent with the approved Project proposal,

2. The Grantee has violated any term or condition imposed on the Project;

3. Continued operation of the Project may adversely affect fish populations in, above, or below the Project site,

4. Implementing the Project does not meet its proposed objective(s),

5. The Project is inconsistent with the Oregon Plan, Habitat Restoration Guidelines, or the Department's goals, policies or management plans.

VI. INDEMNITY

A. The Grantee will comply with all federal, state, and local laws and ordinances applicable to the work to be done under this Agreement.

B. In consideration of the payment provided by the Department under this Agreement, the Grantee hereby releases the State of Oregon and its officers, agents, employees, as well as the members of the Fish and Wildlife Commission or R&E Board, from all action, causes of action, damages, claims, or demands which the Grantee now has or in the future may have arising out of or connected to this Grant Agreement, including without limitation, claims for injury to lands, building, timber, streams, irrigation facilities, domestic animals, equipment, or other property of the Grantee, or personal injury or death to persons, resulting from activities of the State of Oregon or of any persons allowed to go on the Grantee's property as the result of this Agreement. Nothing in this Agreement will be construed as a waiver of State's immunities, defenses or limitations to any claim, including State's sovereign immunity, State's rights under the Eleventh Amendment to the United States Constitution, under the Oregon Tort Claims Act, or any statute or rule of common law.

VII. NOTICE

A. The parties may amend this Agreement only by written instrument signed by the duly authorized officials of both parties and referencing this Agreement by referring to the parties and the date of final signature.

B. Any notice to be given under the terms and conditions of this Agreement will be sufficient if in writing and delivered personally or mailed to the Grantee or the Department as follows:

Project Manager

Elaine Stewart
Metro Regional Parks and
Greenspaces Department
600 NE Grand Ave.
Portland, OR 97232-3736

Department Project Manager

Gary Galovich, R&E Coordinator
Oregon Department of Fish & Wildlife
3406 Cherry Ave
Salem, OR 97303

VIII. AGREEMENT BINDING

This Agreement is binding on and inures to the benefit of the parties and their respective successors or assigns.

GRANTEE:

James Desmond
Metro Director Regional Parks & Greenspaces
Federal Tax ID #93-0636311

Date 12.1.2004

DEPARTMENT:

Kris Kautz
Deputy Director for Administration

Date 11/16/04

Exhibit A

Project #: 03-060
Cost Code/Grant #: 54008 945060-08

SCHEDULE FOR RELEASE OF FUNDS

1. The Department will disperse funds upon forty-five (45) days after receiving a completed Grantee's Request for Fund Release form (Exhibit B.), including an itemized accounting and accompanied by invoices or receipts, as appropriate, for the project's expenditures. Billings must be itemized for personal services, construction materials, supplies, contractual services, equipment, and other expenditures.

2. Total funds granted for the project are $8,000 and 10% ($800) will be withheld [as required by OAR 635-009-0240(5)] until the Grantee submits a final report.

3. The Department will release the final payment when the Grantee has fulfilled the project completion requirements and submitted a final Grantee's Request for Fund Release.

4. The project may not extend beyond the ending date of this Agreement unless the Grantee requests an extension in writing and the Department approves an extension in writing before the end date. Unless the Department receives a request for extension of project funding, no work performed after the Agreement's end date will be eligible for funding.

5. Any invoices submitted by the grantee for project activities incurred before the project start date or after the expiration date of this agreement will not be paid by the Department.

Exhibit B

Fish Restoration and Enhancement Program

OREGON DEPARTMENT OF FISH & WILDLIFE
3406 Cherry Avenue NE
Salem, OR 97303

GRANTEE'S REQUEST FOR FUND RELEASE

Name: Metro Regional Parks and Greenspaces Department

Address: 600 NE Grand Ave, Portland, OR 97232-3736

Phone: 503-797-1515

Date: **FIN:** 93-0636311 **Project Number:** 03-060

In accordance with the terms of the Grant Agreement, I request the release of grant funds.

☐ Attached are invoices or receipts, as appropriate, paid for materials, services or both. I am requesting funds for reimbursement of the expenses for the purposes indicated on each receipt.

☐ Listed below, with details attached, are estimated costs of materials or services for which I will use funds from this release. I will send to the Department an itemized list of expenditures with copies of the receipts attached showing how the funds were used. The list and receipts will be submitted within forty-five (45) days of project completion.

ITEMIZED ACCOUNTING SUMMARY

Budget Category	Amount
Personnel Services	
Supplies/Services	
Construction Materials	
Travel	
Equipment	
Contract Services	
Other	
TOTAL	

I declare that this is true, correct, and complete to the best of my knowledge.

Grantee Signature _____ Date _____

All checks will be made out and sent to the Grantee responsible for paying the project's bills.

10% of the total R&E grant will be withheld until the project completion report is received

Revised 2003

Exhibit C
Restoration and Enhancement Program
OREGON DEPARTMENT OF FISH & WILDLIFE

Project Completion Report

Project Number: _____
Project Title: _____
Project Manager: _____
Address: _____
City/Zip: _____
Phone: _____
Location:
Stream, Lake or Estuary: _____
River System _____
County: _____
Township/Range/Section: _____

Landowner (list all landowners of property where the work was done): _____

_____

Type of Project (check all that apply):

Restoration		**Enhancement**	
__ Liberation Equipment		__ Access	__ Habitat
__ Hatchery Maint.		__ Education	__ Passage
__ Passage Maint.		__ Propagation	__ Screening
__ Screen Maint.		__ Monitoring	__ Other: _____
__ Other		__ Research	

☐ **Conducted under the Salmon and Trout Enhancement Program (STEP)?**

Date Completed: _____
Expenditures:
R&E Funds Used: $_____ (attach summary report for Department funds)
Matching Dollars Used: $_____ (attach summary report for other funds)
Equipment and Supplies (list all equipment & supplies purchased with R&E funds; attach additional sheets as needed):

_____ _____
_____ _____

Participation (list organizations that participated in this project):

_____ _____
_____ _____

Total Stream Miles Influenced: _____
Fish Species Benefited: _____
Project Accomplishments & Comments (attach additional sheets as needed):

_____
_____

Is the project site adequately identified by R&E signs? ☐ YES ☐ NO
Are before and after photos of the completed project attached (include date and location)? ☐ YES ☐ NO

Send Report to: R&E Program, ODFW, 3406 Cherry Avenue, Salem, OR 97303

Revised 2003

EXHIBIT D - Statement of Work and Budget			
RESTORATION and ENHANCEMENT PROGRAM			
PROJECT			
Project Title:	Smith-Bybee Water Control Structure Refinements		
Project Number:	03-060		
ODFW Grant/Phase Number:	54008 945060-08		
Project Status:	**New**		
Project Start Date:	Date of last signature	**Project End Date:**	June 30, 2005

Summary:

This project will improve fish passage at a water control structure used to manage wetland habitat at Smith and Bybee Lakes and their associated sloughs. The modifications will improve effectiveness and allow for better monitoring and maintenance.

BUDGET		
Personal Services:		
		-
Subtotal		-
Services & Supplies:		-
		-
Subtotal		-
Total P/S & S/S		-
Equipment:		
		-
Subtotal		-
Contract Services/Personal Service Contracts:		
Installation of trash rack	$	5,000
Reinforcement of gaps long four parallel sets of box culverts	$	3,000
	$	8,000
Subtotal	$	**8,000**
Total Grant:	$	**8,000**

Exhibit E

The Oregon Watershed Restoration Reporting Form 2003

General Directions

NOTE:

- Fill out this form for ALL watershed restoration projects, NOT just OWEB funded projects.
- You DO NOT need to fill out ALL pages of this form. Only fill out the FIRST PAGE and the SECTION(S) that apply to your project.
- DO NOT report more than once! Check with your project partners to make sure project has not already been reported. If you are updating a previously reported project, only report NEW information.
- This form is required for projects funded by OWEB and ODFW R & E grant programs, and projects under the US ACOE Regional General Permit (RGP).
- ATTACH A MAP to your project form.

WHY REPORT?

All over Oregon, people are involved in restoration projects to help improve habitat and water quality conditions in their watersheds. These restoration projects are a vital component of the Oregon Plan for Salmon and Watersheds. Private landowners, government agencies, watershed councils, SWCD's and other groups are reporting their projects to the Oregon Watershed Restoration Inventory so that Oregon can track its accomplishments in watershed restoration. The inventory also provides information to local groups for restoration planning, and will help to determine the effectiveness of Oregon's salmon recovery effort.

PROJECTS TO REPORT

Watershed restoration projects included in this inventory must be:

- activities designed to **restore aquatic, riparian, estuarine, wetland, upland, or overall watershed conditions or functions.**
- **completed or in-progress; DO NOT report planned projects.**
- activities **above and beyond normal maintenance or management procedures** in cases such as road and culvert improvements, erosion control, and so on.

FILLING OUT PROJECT REPORTING FORMS

The form generally takes 20 to 30 minutes to complete. For multi-year projects, use a different form for each year. Fill out the first page of the attached reporting form for ALL restoration projects. Then fill out the section(s) of the form that apply to your project:

Section A: **Instream** Activity
Section B: **Riparian** Activity
Section C: **Wetland or Estuary** Activity
Section D: **Upland, Grazing and Irrigation Management**
Section E: **Road** Activity
Section F: **Fish Passage Improvements**
Section G: **Urban Impact Reduction** Activity
Section H: **Project Monitoring** Activity

The survey form is designed for site-level information to establish w*hat type* of restoration work was done and *where* it was done. YOU MUST INCLUDE A MAP with each form (for example, photocopy of a 1:24,000 scale topographic map or Oregon Department of Forestry map). Indicate on the map the location of restoration activities. Label each location with the activity type.

RETURN TO ADDRESS BELOW:

1. **THE FIRST PAGE OF FORM**
2. **THE SECTION(S) THAT APPLY TO YOUR PROJECT**
3. **A PROJECT LOCATION MAP**

Bobbi Riggers
Oregon Watershed Enhancement Board
775 Summer Street NE, Suite 360
Salem, OR 97301-1290
Phone: 503/986-0059
Fax: 503/986-0199
e-mail: Bobbi.Riggers@state.or.us

The 2003 Oregon Watershed Restoration Reporting Form is available in electronic format on the Web at http://www.oweb.state.or.us under Monitoring (click on Restoration Inventory Forms).

Thank you for your participation!

Helpful Hints for filling out Watershed Restoration Reporting Form

1) **Use most current version of the form.** Each year form is revised to reflect current restoration guidelines, permit requirements, etc. Although the form's changes may be minimal, the need for follow-up is greatly reduced if the current form is used. You may check OWEB's website to download a current version of the form at http://www.oweb.state.or.us/monitoring/wri_forms.shtml
2) **Answer all questions on cover sheet.**
3) **Report all project participants regardless of whether they contributed funding.**
4) **Report who, actually funded the project.** If project was funded by a grant (e.g. OWEB or ODFW R & E), report the funding amount on the line with the grant program and grant number. Do not report the dollars under the grantee's name.
5) **Total Cost (item #4 on cover sheet) should equal the Total Cost of the restoration project. Likewise, Total Cost reported should equal the sum of Participant's funding contributions as well as the sum of costs on each activity page.** Do not include costs associated with project effectiveness monitoring, outreach, or watershed assessments under Total Cost.
6) **After completing the cover sheet, determine which activity section(s) best apply to the project. However, report each project activity only once.** In other words, do not report the same activity twice or three times just because it might fit under more than one Section heading. Some examples: Fish passage improvements should be reported under section F (not Section A or Section E). Riparian fencing should be reported under section B (not section D).
7) **On the appropriate activity section, enter projects goals and activity costs. Find the activity type listed, check the box and complete the project details requested for that activity.** If the project activity is not listed, please find the activity section that best applies and enter the project details under the 'Other' category.
8) **Always include a map with project location.** Clearly label each restoration treatment by activity type on the map.
9) **The completed forms should be submitted on one-sided copies.**
10) **Submit the cover sheet and only the completed sections of the form, plus the map.**
11) **When in doubt, feel free to contact the Oregon Watershed Restoration Inventory.** Bobbi Riggers can be reached at (503) 986-0059 or at Bobbi.Riggers@state.or.us.

The Oregon Watershed Restoration Reporting Form 2003

10/11/04

Read the General Directions. This form is for reporting completed projects (or completed phases of projects), not planned projects. For multi-year projects, complete a separate form for each year. You must include a map of the project. See the *Oregon Aquatic Habitat Restoration and Enhancement Guide* for descriptions of restoration treatments. Call the number below if you have questions.

1) DATE:_____ 2) This report is an UPDATE for a multi-year project ☐Yes ☐No

Restoration Project Participant and Funding Information and Total Cost for Implementation

3) PARTICIPANTS AND FUNDING INFORMATION: Fill in the appropriate boxes. Record information for you and the landowner. Under 'organization name or grant program', list project participants other than you and the landowner (e.g. OWEB, watershed councils, local, state, or federal agencies, SWCDs, conservation or sporting groups, job or volunteer programs, other private landowners). For projects funded by OWEB or ODFW R & E grants, the grant number is required. Report grant numbers for other grant programs where known. Record each participant's actual cash expenditures and/or inkind contributions (estimated value of *donated* materials, labor & equipment) to the project. *Use a second sheet if all participants do not fit on this page.*

your organization name	your name	phone number	cash	inkind
			$	$
your e-mail address:				
landowner name	contact person	phone number	cash	inkind
			$	$

organization name or grant program	grant number (if applicable)	contact person	phone number	cash	inkind
				$	$
				$	$
				$	$
				$	$
				$	$
4) TOTAL COST: This should equal the sum of all contributions as well as the sum of restoration activities reported in sections A-G of the form. Do not include costs for monitoring on this page.				total cash	total inkind
				$	$

Restoration Project Location – Attach a project location map. *Highlight* treatment areas and *label* activities.

5) STREAM NAME_____
TRIBUTARY OF: _____ BASIN _____

6) TOWNSHIP _____ RANGE _____ SEC _____ COUNTY_____

7) DOMINANT LANDUSE TYPE: ☐ forest ☐ range/pasture ☐ cropland ☐ wetland ☐ urban industrial/commercial ☐ urban residential ☐ rural residential ☐ other (specify)_____

Restoration Project Information

8) PROJECT NAME: _____

9) PROJECT DATES: Start (mo)_____(yr)_____ Completion (mo)_____(yr)_____ (do not report planned projects)

10) SPECIES: Does this project intend to benefit specific fish or wildlife species? ☐Yes ☐No
If YES: *Which* ones? _____

11) PROJECT SITE SELECTION: How was restoration project selected/prioritized? (check one box & answer associated questions)
☐ Watershed Assessment/Action Plan
Name _____ Conducted by_____ Year_____

☐ Other (describe *how* restoration need was identified, and *why* project *location* and *activity* were chosen)_____
_____

12) Will the EFFECTIVENESS of the restoration project be MONITORED? ☐Yes ☐No If YES, fill out Section H

Send to: Bobbi Riggers, OWEB, 775 Summer St NE, Ste 360, Salem, OR 97301-1290 ph 503-986-0059 fax 503-986-0199 e-mail: Bobbi.Riggers@state.or.us

-Attach a Project Map-

Current forms are available for download at: http://www.oweb.state.or.us/monitoring/wri_forms.shtml or you may contact Bobbi Riggers for a copy.

The Oregon Watershed Restoration Reporting Form 2003

10/11/04

Section A: INSTREAM Activity

Instructions: Report in-channel activities designed to improve aquatic habitat conditions. ***For Fish Passage Improvements, go to Section F.*** Answer questions about permits, goals, cost, and treatment miles. In table, check each appropriate activity box and fill in all details requested for the activity. Leave blank any questions that do not apply to your project. If project activity is not listed, describe it under "Other". *If this form is being used to comply with conditions of the Portland District Army Corps of Engineers (Corps) Regional General Permit (RGP) No. 2000-001 for placement of large wood or boulders, refer to the RGP for additional reporting requirements. Photos of the completed work are encouraged for projects under the RGP. Other types of authorizations or permits may be required from DSL and/or the Corps for other types of instream activity not covered by the RGP.* Mark and label clearly on a map the location of the project activity.

DSL Permit Number:_____ *or* ODF Notification Number:_____

☐Yes ☐No Is this project covered under RGP no. 2000-001 for log or boulder placement?

1. PROJECT GOALS: *to improve/increase stream*

___structure & complexity ___spawning habitat ___over-winter habitat ___stream flow
___interaction w/ floodplain ___rearing habitat ___summer habitat ___fish passage
___gravel recruitment ___increase pools ___streambank stabilization ___other_____

2. COST: Cash $_____ Inkind $ _____ 3. Total MILES of stream treated: _____miles

ACTIVITY	DESCRIPTION of Treatment
☐ **Large Wood Placement** *(Logs not anchored with cable, boulders, rebar, etc. -allowed to set up naturally or wedged against streambank or riparian trees)* ☐log placement associated with forestry operation (ODF21)	*key pieces = logs at least two times bankfull stream width (1.5 times if rootwad attached) and meet stream diameter, stream size, and slope requirements outlined in the ODF/ODFW Large Wood Placement Guide).* ____total # of structures placed ☐ smaller materials were added to key pieces in structures ____total # of key pieces placed ☐rootwads attached to some key pieces ____average # of key pieces per structure source of logs_____ **dimensions of key pieces** *(list range if necessary)* log length _____ft log diameter _____in *How many pieces of wood placed were at least 33 feet long AND 24" in diameter? _____ **stream characteristics where logs were placed** *(list range if necessary)* bankfull width _____ft gradient _____% bankfull depth _____ft method of placement other details_____
☐ **Boulder Placement** (not anchored)	____# of boulders placed av size _____ cu yds source of boulders_____ bankfull width _____ft gradient _____% bankfull depth _____ft method of boulder placement_____
☐ **Anchored Structures**	_____# of anchored structures **structure materials:** ☐logs ☐rootwads ☐boulders ☐other_____ **anchored with:** ☐rock/boulders ☐cable ☐rebar ☐ other_____
☐ **Engineered Structures**	☐ **full-spanning weirs** ____# materials used _____ ☐ **deflectors** ____# materials used _____ ☐ **'V' structures** ____# materials used _____
☐ **Off-Channel Habitat**	☐ **side channels: a) created/excavated:** _____# and length _____ft ***or* b) reconnected to stream:** _____# and length _____ft ☐ **alcoves created: a)** _____# with or **b)** _____# without tributary/spring input ☐ **off-channel ponds created: a)** _____# with or **b)** _____# without tributary/spring input
☐ **Instream Water Right Transfers/Leases**	*Priority date* | *Rate (cfs)* | *Type of Acquisition* | *Stream Reach/Point* | *Term (years)*
☐ **Other (specify)**	Describe and quantify activity:

Send to: Bobbi Riggers, OWEB, 775 Summer St NE, Ste 360, Salem, OR 97301-1290 ph 503-986-0059 fax 503-986-0199 e-mail: Bobbi.Riggers@state.or.us

-Attach a Project Map-

The Oregon Watershed Restoration Reporting Form 2003

10/11/04

Section B: RIPARIAN Activity

Instructions: Check (x) project goals and fill in project costs. In the table, check each appropriate project activity box and fill in all details requested for that activity. Leave blank any questions that do not apply to your project. If project activity is not listed, describe the project under "Other". Mark and label clearly on a map the location of each treatment area.

1. PROJECT GOALS:

___future LWD recruitment to stream ___streambank stabilization/protection ___run-off contaminant input
___future stream shading ___decrease erosion/stream sedimentation ___livestock access to stream
___other goals _____

2. COST: Cash $_____ Inkind $_____ 3. Total linear stream MILES treated: _____miles

ACTIVITY	DESCRIPTION of Treatment setback = fence distance from high water mark	
☐ **Riparian Planting** ☐conifer ☐hardwood (for hardwood conversion, go to Activity ODF 8 below)	length planted _____ linear stream miles total riparian acres planted _____ acres stream sides treated ☐one ☐two	
☐ **Riparian Fencing** [for other fencing (*e.g. pasture, cross-fencing*) go to Section D]	length fenced _____ linear stream miles setback _____ft *(list range if necessary)* total riparian acres protected _____ acres stream sides treated ☐one ☐two	stream characteristics where fence was constructed *(list range if necessary)* bankfull width _____ft bank height _____ ft
☐ **Other (specify)** _____	Describe and quantify activity (*e.g. linear stream miles and/or acres treated*):	

ODF Harvest Measures

Use a separate form for each harvest unit. Use Treatment Area 1, 2, 3 for separate stream treatment areas within each harvest unit. For each Treatment Area, check (X) the measure applied and answer all questions in that row. If there are more than 3 Treatment Areas, attach another Section B and label Treatment Area 4, Area 5, etc.

***ODF62** = no harvest in RMA; **ODF19** = max 25% harvest of excess BA; **ODF20** = retain snags/wood along small N streams; **ODF22** = re-allocate in-unit leave trees to RMA: a)25% of leave trees, b) 100% of leave trees, c)75% conifer component*

Treatment Area 1 ODF ☐62 ☐19 ☐20 ☐22 ☐a ☐b ☐c	stream size ☐sm ☐med ☐lg stream type ☐N☐F stream sides treated ☐one ☐two	trees retained along _____ miles of stream average width of leave tree area per side _____ ft leave tree area _____ acres
Treatment Area 2 ODF ☐62 ☐19 ☐20 ☐22 ☐a ☐b ☐c	stream size ☐sm ☐med ☐lg stream type ☐N☐F stream sides treated ☐one ☐two	trees retained along _____ miles of stream average width of leave tree area per side _____ ft leave tree area _____ acres
Treatment Area 3 ODF ☐62 ☐19 ☐20 ☐22 ☐a ☐b ☐c	stream size ☐sm ☐med ☐lg stream type ☐N☐F stream sides treated ☐one ☐two	trees retained along _____ miles of stream average width of leave tree area per side _____ ft leave tree area _____ acres
☐ **ODF 8: Riparian Conifer Restoration** (formerly hardwood conversion)	stream size ☐sm ☐med ☐lg stream type ☐N☐F	*(in conversion blocks only)* conifer restoration along _____miles of stream acres of conifer restoration _____ acres

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-Attach a Project Map-

The Oregon Watershed Restoration Reporting Form 2003

10/11/04

Section C: WETLAND or ESTUARY Activity

Instructions: Answer questions about permits, goals, project site, land/wetland type before treatment, and cost. In the table, fill in the row(s) that best describes your project. If project activity is not listed, describe it under "Other activity". Mark and label clearly on a map the location of each treatment area.

DSL Permit Number: _____ *or* ODF Notification Number: _____

1. PROJECT GOALS: *to increase*

____storage capacity of wetland
____net area of wetland
____vegetation to filter runoff
____vegetation to provide shade
____vegetation for flood control
____vegetation for food, cover or nesting
____water to stream during low flows
____connection to adjacent natural area
____the number of wetland types at site (i.e., meadow, forest, open water)
____fish habitat: *specify* rearing, winter, summer, etc. _____
____other _____

2. Is project site protected by a CONSERVATION EASEMENT? ☐Yes ☐No

3. Project site is CONNECTED TO:
☐ stream or river ☐ lake or reservoir ☐ other fresh waters ☐ ocean or estuary ☐ no other water body

4. Land/wetland type in project area BEFORE TREATMENT:
☐ non-wetland ☐ grass/herb meadow wetland ☐ open water wetland (>6ft. deep)
☐ agricultural wetland ☐ shrub or forest wetland

5. COST: Cash $_____ Inkind $_____

ACTIVITY (conditions after treatment)	DESCRIPTION of Treatment
____acres of filled or drained wetland returned to: ☐ grass/herb meadow wetland ☐ shrub or forest wetland ☐ open water wetland (>6ft. deep)	
____acres of non-wetland created into: ☐ grass/herb meadow wetland ☐ shrub or forest wetland ☐ open water wetland (>6ft. deep)	
____acres of existing wetland improved: ☐ grass/herb meadow wetland ☐ shrub or forest wetland ☐ open water wetland (>6ft. deep)	
Other activity - Describe and quantify activity *(e.g. acres treated):*	

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The Oregon Watershed Restoration Reporting Form 2003

10/11/04

Section D: UPLAND, GRAZING, and IRRIGATION MANAGEMENT

Instructions: Report upland, grazing, and irrigation projects designed to reduce erosion, improve water quality, increase stream flow, promote native riparian vegetation growth, and other watershed benefits. Check (x) project goals and fill in project costs. In the table, check the management category on the left. Fill in the type(s) and units of conservation practices applied. If project activity is not listed, describe it under "Other". Mark and label clearly on a map the location of the project activity.

1. PROJECT GOALS: *to increase or improve* / *to decrease*

___upslope soil stability
___streambank stability
___LWD recruitment to stream
___future shading to stream
___native plant species composition
___upland water storage capacity
___stream flow by_____cu ft/sec
___erosion/stream sedimentation
___run-off contaminant input to stream
___stream temperature
___livestock access to stream
___other_____

2. COST: Cash $_____ Inkind $_____

MANAGEMENT CATEGORY	TYPE of System or Practice Applied	UNITS System or Practice Applied to	
☐ **Grazing Management: off-channel livestock watering**	type 1:	# of water developments	
	type 2:	# of water developments	
	type 3:	# of water developments	
	type 4:	# of water developments	
☐ **Other grazing management practices** *report riparian fencing to restrict livestock stream access in Section B*	type 1:	acres	
	type 2:	acres	
	type 3:	acres	
☐ **Irrigation systems for improved water conservation**	type 1:	acres	
	type 2:	acres	
	type 3:	acres	
☐ **Erosion control systems/practices**	type 1:	acres	
	type 2:	acres	
	type 3:	acres	
☐ **Upland Vegetation Management** *(e.g. juniper control, etc.)*	type 1:	acres	
	type 2:	acres	
	type 3:	acres	
☐ **Conservation buffers**	type 1:	miles	acres
	type 2:	miles	acres
	type 3:	miles	acres
☐ **Other (specify)** _____	Describe and quantify activity (*e.g. acres treated*):		

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-Attach a Project Map-

The Oregon Watershed Restoration Reporting Form 2003

10/11/04

Section E: ROAD Activity

Instructions: Report projects designed to decrease risk of road failure and reduce chronic sediment input from existing roads (not new roads). *For Fish Passage Improvements, go to Section F.* **Do not report** any repairs required by the Oregon Department of Forestry, new road construction, or routine road maintenance including: surface grading, berm removal, spot rocking, essential ditch cleaning, culvert cleaning, or water bars. Check (x) project goals and fill in project costs. Under 'Improvement Actions', check each appropriate activity box and fill in values that apply. **Do not double count activities.** If project activity is not listed, describe it under "Other activities". Mark clearly on a map the length of road or location on the road where improvement work was completed. A map is not necessary for road inventories. **1 Station = 100 ft**

ODF Notification Number:_____

1. PROJECT GOALS: *to increase or improve* ... *to decrease*

___upslope stability ___erosion/stream sedimentation
___road/upslope drainage ___run-off contaminant input to stream
___flood/slide repair ___road access ___road density
___other_____ ___washout/diversion potential at stream crossings

2. COST: Cash $_____ Inkind $_____

IMPROVEMENT ACTIONS: *(only include unreported road work accomplished for the year)*

1. ☐ Road Inventory =_____miles of road surveyed using ODF Road Hazard Inventory Protocol or equivalent
For projects with one landowner, summarize road inventories by 4th or 5th field watersheds (e.g., Siletz, McKenzie, N Fork John Day).

2. ☐ Peak Flow Passage Improvements at Stream Crossings ***(for Fish Passage improvements, go to Section F)***

a) _____# of log fills/culverts removed, not replaced (if reported in fish passage section, do not repeat here)
b) _____# of structures replaced to meet 50+ year flow requirements (if reported in fish passage section, do not repeat here)
c) _____# of structures modified by improving inlet condition (if reported in fish passage section, do not repeat here)

TOTAL # of Stream Crossings Improved for Peak Flow Passage _____ (Do Not Double Count)

3. ☐ Surface Drainage Improvements ***(does not include water bars)***

a) _____# of permanent cross-drains added above stream crossings
b) _____# of culverts added at locations other than above stream crossings
c) _____# of existing culverts with outlet erosion protection added

TOTAL # of Non-Stream Crossings Improved for Surface Drainage _____ (Do Not Double Count)

d) _____# of stations of quality hard road rocking prior to haul
e) _____# of stations of rocking down-cutting ditch

TOTAL # of Stations Improved by Rocking for Surface Drainage _____ (Do Not Double Count)

4. ☐ Sidecast/Landslides

a) _____# of stations pulled back and stabilized
b) _____# of large landslides stabilized

5. ☐ Road Relocation or Vacating

a) _____# of stations obliterated, decommissioned, or vacated as per OAR 629-625-650
b) _____# of stations effectively closed to public use **(do not duplicate 5.a)**
c) _____# of stations relocated outside RMA or stream banks
d) _____# of stations relocated to reduce washout potential **(do not duplicate 4.b or 5.c)**

6. ☐ Grass Seeding

a) _____# of miles of grass seeding and mulching

7. ☐ Other Activities: _____

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-Attach a Project Map-

The Oregon Watershed Restoration Reporting Form 2003

10/11/04

Section F: FISH PASSAGE Improvements

Instructions: This Section should be used for all Fish Passage Improvement projects that address a migration barrier problem. ***Only report projects that provide both juvenile and adult passage.*** Answer questions about permits, target fish species, miles of habitat made accessible, and cost. Under 'Project Activities', check each appropriate activity box and fill in values that apply. If project activity is not listed, describe it under "Other activities". Mark and label clearly on a map the location of the fish passage project.

DSL Permit Number:_____ *or* ODF Notification Number:_____

FISH PASSAGE INFORMATION:

1. Target Fish Species: ☐coho ☐steelhead ☐chinook ☐cutthroat ☐other (specify) _____

2. Have the target fish species historically inhabited the area upstream of the barrier(s)? ☐Yes ☐No

3. Fish habitat extended due to this fish passage project **(If you do not have this information, consult local ODFW office)**
   ____miles of habitat opened that were previously *inaccessible* for both adults and juveniles
   ____miles of habitat opened that were previously *inaccessible* for juveniles, *accessible* for adults
   ____miles of habitat that were previously *accessible* for both juveniles and adults- access was improved

4. COST: Cash $_____ Inkind $ _____

PROJECT ACTIVITIES:

1. ☐ Road/Stream Crossings Improved for Juvenile and Adult Fish Passage

a) ____# of culverts/structures removed and not replaced
b) ____# of culverts/structures replaced with bridge
c) ____# of culverts/structures replaced with open bottom arch culverts
d) ____# of culverts/structures replaced with culverts placed embedded or flat
e) ____# of culverts/structures replaced with weir/baffle culverts
f) ____# of culverts/structures retrofitted [e.g., adding roughness (weirs, baffles, etc.) into existing culverts]
g) ____# of culverts with rock or log weirs installed below outlet

TOTAL # of Road/Stream Crossings Improved for Fish Passage _____ (Do Not Double Count!)

2. ☐ Other Fish Passage Improvements (fish ladders, tidegate replacements, push-up dams retired, etc.)

a) ____# of culverts/structures installed to allow side channel access
b) ____# of fish ladders installed
c) ____# of fish ladders improved
d) ____# of push-up dams permanently removed; replaced with _____
e) ____# of irrigation diversions with fish screens installed
f) ____# of _____ modified with _____.
(*type of diversion*) (*type of modification*)

3. Additional Details: _____

_____

4. Other Activities: _____

_____

_____

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-Attach a Project Map-

The Oregon Watershed Restoration Reporting Form 2003

10/11/04

Section G: Urban Impact Reduction Activity

Instructions: Report projects designed to reduce erosion, improve water quality, and enhance aquatic habitat. ***For Riparian restoration activities, go to Section B. For Fish Passage Improvements, go to Section F.*** Under "Project Activities", check (x) the activity on the left and enter the relevant information that quantifies the activities and the significance (% urban area or % watershed affected). If project activity is not listed, describe the project on the blank spaces provided or under "Other Projects". Costs for construction where required by code should not be included.

New Section G for reporting Urban Projects!!

TOTAL COST for Urban Activities Listed Below: Cash $_____ Inkind $ _____

PROJECT ACTIVITIES:

1. Water Quality Projects:

Activity	Number or Area (please label units)	% Urban Area Affected	Cost
☐Bioswales	#		Cash $ Inkind $
☐Wet Detention Facility	#		Cash $ Inkind $
☐Storm & Sanitary Sewer Separation	linear feet		Cash $ Inkind $
☐Street sweeping	miles		Cash $ Inkind $
☐Catch Basin Cleaning	#		Cash $ Inkind $
☐Pesticide Use Reduction	acres		Cash $ Inkind $
☐Other			Cash $ Inkind $
☐Other			Cash $ Inkind $
☐Other			Cash $ Inkind $

2. Water Quanity Projects:

Activity	Number or Area (please label units)	% Watershed Area Affected	Cost
☐Off Channel Flood Storage			Cash $ Inkind $
☐Detention Facility			Cash $ Inkind $
☐Other			Cash $ Inkind $
☐Other			Cash $ Inkind $

3. Other Projects:

☐Other			Cash $ Inkind $
☐Other			Cash $ Inkind $
☐Other			Cash $ Inkind $

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-Attach a Project Map-

The Oregon Watershed Restoration Reporting Form 2003

10/11/04

Section H: Project Monitoring Activity

Use this section to describe the type of monitoring used to evaluate the progress and effectiveness of your project. Fill out all questions in the top section. Please omit monitoring costs from cover sheet totals and instead include them under this section. In the table, check (X) the boxes that apply, identify the monitoring methods or protocols used, and the frequency and duration of monitoring before and after the project was implemented. *(example 1: frequency = once per year, duration = 20 years; example 2: frequency = 2 times per month, duration = 3 years; example 3: frequency = once every five years, duration = 25 years).*

Monitoring Objectives: _____

_____

Monitoring Implemented by Which Organization(s): _____

Best Contact Person for Monitoring Information (with phone number): _____

Monitoring Funded by Which Organization(s): _____

Monitoring Cost per Year: $_____ Total Budgeted Monitoring Cost: $_____ Amount Spent to Date: $_____

Monitoring Type	Monitoring Method/Protocol Used	Pre-Treatment Frequency	Pre-Treatment Duration	Post-Treatment Frequency	Post-Treatment Duration
Physical Measures					
☐ instream habitat					
☐ -channel morphology					
☐ -substrate					
☐ -woody debris					
☐ -other					
☐ riparian vegetation					
☐ upland vegetation					
☐ stream flow					
Biological Measures					
☐ adult fish sampling					
☐ juvenile fish sampling					
☐ macroinvertebrates					
☐ other					
Water Quality Measures					
☐ temperature					
☐ suspended sediment					
☐ dissolved oxygen					
☐ chemistry					
☐ fecal coliform					
☐ other					
Other Measures					
☐ fish passage effectiveness					
☐ slope stability					
☐ project inspection					
☐					

Briefly describe results to date: _____

_____

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-Attach a Project Map-

Exhibit F

Project 03-060

FISHERIES RESTORATION & ENHANCEMENT PROGRAM

Project Proposal
with B&E Board Revisions

APPLICANT INFORMATION

1. **Organization** (private non-profits: attach IRS 501[c][3] status letter): Metro Regional Parks and Greenspaces Department
2. **Federal Tax ID Number** (unnecessary for state agencies): 93-0636311
3. **Representative**: **First** Elaine **Middle I.** M. **Last** Stewart
4a. **Address 1**: Metro Parks and Greenspaces
4b. **Address 2**: 600 NE Grand Ave.
5. **City**: Portland
6. **State**: OR
7. **Zip**: 97232-3736
8. **County**: Multnomah
9. **Phone**: 503-797-1515
10. **Fax**: 503-797-1849
11. **E-Mail**: stewarte@metro.dst.or.us

PROPOSAL SUMMARY

1. **Title** (Brief and Explicit): Smith-Bybee Water Control Structure Refinements
2. **Hatchery**: n/a
3. **Basin**: Willamette
4. **Stream/Lake/Estuary**: Smith and Bybee lakes (Columbia Slough system)
5. **Type of Project**:

Restoration	Enhancement	
☐ Liberation	☐ Access	☐ Habitat
☐ Hatchery Maint.	☐ Education	☒ Passage
☐ Passage Maint.	☐ Propagation	☐ Screening
☐ Screen Maint.	☐ Monitoring	☐ Miscellaneous
☐ Miscellaneous	☐ Research	

6. **Is project part of a Salmon-Trout Enhancement Program (STEP) initiative?**
☒ NO ☐ YES • if Yes, and a propagation project, attach STEP proposal

7. **Total Project Cost**: $36,500
8. **R&E Funding Requested**: ~~$15,400~~ 8,000
9. **Start Date** (for R&E work): October 2004
10. **End Date**: June 2005

11. **Description** (75 word limit): The Smith-Bybee water control structure, completed in December 2003, is providing fish passage to 1,500 acres of off-channel habitat for salmonid rearing, feeding and refugia. Much off-channel habitat has been eliminated from the lower Willamette river, and juvenile Chinook salmon used the new structure to access Smith-Bybee wetlands this spring. The structure is functioning well to date, but several needs have been identified to protect the investment and ensure its proper operation.

Applicant Signature 5/27/04 Date

Regional Approval (ODFW proposals only) Date

PROJECT DESCRIPTION

1. Location

a. Nearest Town/City: Portland

b. Directions (from nearest highway): Access is through an area that is not open to the public; tours can be arranged with the contact person for this application. The site is located approximately 4.5 miles west of Interstate 5 off Columbia Blvd. (exit 307 from I-5). The wetlands are approximately 1 mile from the confluence of the Willamette and Columbia rivers, in north Portland.

2. Property Owner(s) (attach letter[s] of consent if the owner[s] is [are] not the same as the applicant): Metro

3. Background: Smith and Bybee lakes and their associated sloughs and wetlands are remnants of formerly extensive river bottomlands located near the confluence of the Willamette and Columbia rivers (Figure 1). Part of the Columbia Slough watershed, these large shallow lakes and wetlands are in the 1,928-acre Smith and Bybee Lakes Wildlife Area. Metro manages the wildlife area primarily for habitat, as remnant Columbia River floodplain wetland. A secondary purpose is passive recreation. Habitat types occurring at the wildlife area include open water, emergent wetland, bottomland hardwood wetland, riparian forest and grassland. Smith and Bybee Lakes Wildlife Area has been a protected natural area since 1990. There is a full-time wildlife area manager and a modest dedicated fund for maintaining the site.

Bybee and Smith lakes comprise about 1,500 acres of Columbia River floodplain wetland habitat. Historically, they were shallow wetlands, subject to daily tidal fluctuations and seasonal floods in the surrounding large rivers (notably winter floods and the spring freshet). Considerable changes have occurred in the surrounding landscape that have had significant impacts on these wetlands. The construction of major dams and dikes drastically altered the natural hydrology in the lower Columbia River ecoregion. Locally, an earth dam built in 1982 separated the large wetlands (Bybee and Smith lakes) from North Slough, and thus the Willamette and Columbia rivers. The dam blocked fish passage and converted the wetlands to permanent lakes held at fairly static water levels. Invasive species thrived (especially reed canarygrass) and native plant communities were lost (especially emergent and bottomland hardwood wetlands).

The new water control structure was built to provide habitat connectivity for juvenile salmonids and reverse habitat degradation. The structure is used to provide fish passage, control invasive plants and support native plant communities by providing appropriate hydrology. Water control structures are increasingly used to restore and manage wetland systems where landscape-level hydrologic changes have made it impossible to restore the appropriate hydrology without active manipulation.

The Columbia Slough Watershed Council recognized the water control structure project as a priority in its Watershed Action Plan. Ducks Unlimited and Metro implemented the project in late 2003 (Figure 2) and identified refinements for the structure soon after its operation began.

Smith-Bybee provides a rare opportunity to provide significant off-channel habitat for juvenile salmonids that move through and rear in the lower Willamette River. This habitat likely supports stocks originating in the Columbia River system also, because the Columbia Slough empties into the Willamette River only 0.25 mile from the its confluence with the Columbia River. Fish sampling in North and Columbia sloughs in 2002-2004 documented juvenile Coho and Chinook salmon there. In May 2004, a single sampling event picked up 180 age 1+ Chinook in Bybee Lake. The fishway is successfully providing access to the wetland habitat for salmonids.

4. Objectives: This proposal seeks funding to:

a. *Protect the investment already made in the structure by installing trash racks.* Considerably more debris, particularly woody debris, has been transported into the structure than was anticipated (Figure 3a). Fast-moving woody debris can damage the structure, and it also can become lodged in the reverse tidegates that are used to flood the wetlands, allowing water to flow back out when it should be retained. It is unsafe to manually remove debris from the tidegates when water is flowing. This problem could be avoided with metal trash racks installed on the four openings on the North Slough side of the structure to deflect debris. (Total cost $12,000; R&E request $5,000.)

b. ~~*Make the fishway's operation more efficient and safe using aluminum plates instead of stoplogs in part of the fishway.* The fishway has operated very well to date, however, the stoplogs could be operated more efficiently with a few modifications. A total of 11 slots in the fishway hold up to 13 stoplogs each to create a fish ladder (Figure 3b). Each stoplog is approximately 5.5 inches high. When staff is positioning stoplogs during fast flows, the water movement makes it difficult to hold them in place and they can be lost downstream. Fast-flowing water also places the operator at risk when standing on a ladder in the fishway placing boards. A set of aluminum plates could be placed in certain slots to slow water flow and make placement of remaining stoplogs safer and more efficient. (Total cost $5,000; R&E request $5,000.)~~

R&E Board denied this request.

c. *Ensure adequate flows in the fishway during low-water periods by reinforcing gaps along the set of box culverts that comprises the fishway.* The structure consists of four parallel sets of five box culverts. The set of box culverts used for the fishway has earth on one side and a set of culverts on the other side. It needs reinforcement along the side that is flush with the next set of box culverts (Figure 3c). During low water levels in December 2003, a diver confirmed that water escaped through joints between box culverts. If sufficient water escaped, it could impede the fishway's ability to pass fish. The void between the parallel box culvert runs will be filled with cement grout to prevent water from escaping at box culvert joints and ensure fish passage capability. (Total cost $5,000; R&E request $3,000.)

d. *Improved access for maintenance and fish monitoring (no R&E funds requested; description included to provide complete picture of work to be done).* Considerable thought and design was devoted to access within the structure in the headworks area, however, access to the exterior of the structure is also needed for

maintenance and fish monitoring work. No provision was made for access down the banks on either side of the structure during design and construction. The completed structure is surrounded by steep banks with large, loose rocks that provide hazardous footing (Figure 2b). The situation is particularly unsafe when people are carrying large pieces of woody debris or sampling gear. Poured concrete steps would provide a simple and safe solution. Concrete steps will be constructed adjacent to the concrete wing walls to facilitate access for debris removal. (Total cost $7,000; R&E request $0.)

5. Commercial and/or Recreational Fisheries Benefit: This project will support both commercial and recreational fisheries by supporting natural production of salmon.

6. Targeted Fish Species: Chinook and Coho salmon

7. Methods/Procedures/References (be specific): Metro is partnering with Ducks Unlimited (DU) to accomplish this work. DU designed the structure and managed its construction. These refinements are straightforward and do not include any experimental methods. **a.** The metal trash racks will be installed on each of the four openings on the North Slough side of the structure to deflect debris. Each rack will be approximately 8 ft. wide by 10 ft. tall. Racks will be constructed from A36 bar and A53 pipe welded together to form a vertical rack system; they will be galvanized for corrosion protection. ~~**b. Some stoplogs in the fishway will be replaced by a set of aluminum plates placed in certain slots to slow water flow and make placement of remaining stoplogs safer and more efficient. Six aluminum baffles approximately 2 feet wide by 3 feet tall will be fabricated from aluminum plate and shaped to facilitate placement into existing stoplog guides.**~~ **c.** The box culvert reinforcement entails filling a 2-inch-wide by 10-foot-high by 30-foot-long void between the parallel box culvert runs with cement grout. Earthen material will be temporarily removed from the top side of box culverts to facilitate grout placement.

8. List required permits and when they were, or will be, obtained:

Permit	Date Secured	Date Expected
n/a (no permits required)		

9. List sources of long-term Maintenance, Operation, and Funding: Smith and Bybee Lakes Wildlife Area was established nearly 15 years ago and is protected by complementary ordinances at the City of Portland and at Metro. A dedicated fund ensures modest funding for managing the site, and there is a full-time manager. Because the water control structure is central to the restoration of most of the site, its operation and maintenance are core duties of the wildlife area manager.

10. List elements, frequency, and longevity of project Monitoring: The wildlife area manager checks the structure at least weekly (more frequently during spring and early summer). The manager monitors the fishway for flow and debris, and monitors and manipulates the rest of the structure for habitat restoration purposes. These activities will occur in perpetuity. For spring 2004, DU has performed periodic fish sampling in the wetlands. Starting in November 2004, DU and Metro will place a two-way fish trap in the fishway. We will monitor ingress and egress of juvenile salmonids through the structure and mark them with PIT tags to document timing of use of the wetlands, residence time, growth, etc. This continuous sampling will occur from November 2004 through June 2005 (the trap will be checked every two days). Additional sampling will occur in the wetlands and the adjacent slough. We intend to seek funding for a second year of this monitoring work (November 2005 through June 2006).

11. Previous R&E Funding (list last 3 grants for Organization):

Title	Project Number	Amount	Completion Date
n/a (R&E funding has not been sought by Metro, to my knowledge)		$	
		$	
		$	

12. Previous, Non-Funded R&E Proposal Submissions (list last 3 for Organization):

Title	Date Submitted
n/a (R&E funding has not been sought by Metro, to my knowledge)	

SCHEDULE / PARTICIPANTS / FUNDING

• Please provide a detailed schedule of activities for the project, indicating when the work will be conducted ("Date") and by whom ("Participant"). Clearly indicate when necessary permits will be obtained, critical completion points, and subsequent monitoring/maintenance. See Application Instructions for further details.

Activity	Date (mo, yr)	Participant(s)
Design and engineering	August 2004	Metro, Ducks Unlimited
Fabricate materials	October 2004	Ducks Unlimited
Install improvements to structure	Oct. 2004-June 2005	Ducks Unlimited, Metro
Monitoring of structure	ongoing	Metro
Maintenance of structure	ongoing	Metro
Fish monitoring	Nov. 2004 – June 2005	Ducks Unlimited, Metro

• Please provide a list of all funding sources (e.g., R&E, OWEB, In-Kind Match, ODFW, etc.) and whether the funding has been secured. In-kind match can be for the participating group's time and expenses of volunteers or staff; these do not need any further documentation. For secured funding, please attach letters of commitment. For non-secured funding, please attach a summary page of submitted applications. Non-R&E funding critical for completion of the R&E work must have documentation.

Funding Source	Amount ($)	Secured? (Yes/No)
OWEB	$19,600	No
R&E	8,000 ~~$15,400~~	~~No~~ Yes
Metro (in-kind)	$1,000	Yes
Ducks Unlimited (in-kind)	$500	Yes
	$	
	$	
	$	
	$	
	$	
	$	
	TOTAL $36,500	

BUDGET

- Please give a detailed itemization of the budget for the project. See Application Instructions for further details and instructions on how to add more rows if needed.

- Make sure contract service estimates are described in an attached letter from the contractor, in the same format as this budget.

Item	Item Description (#, cost, etc.)	R&E Funds ($)	Other Funds ($)	Total ($)
Examples				
technician	12 months @ $2000/mo	12,000	12,000	24,000
gravel	5 yards @ $200/yd	1,000		1,000
Personnel				
DU engineer	30 hours at $81/hr	Denied ~~1,000~~	1,500	2,500
Metro project manager	48 hours at $50/hr	Denied ~~1,400~~		1,400
DU and Metro admin. costs	various (in-kind and other funding)		3,600	3,600
Personnel Benefits				
Supplies/Services				
~~Aluminum plates for fishway~~	~~lump sum~~	Denied ~~5,000~~		~~5,000~~
Travel				
Equipment				
Contracts				
Install improvements Trash rack and gap reinforcement	DU engineer's estimate (project will go out for competitive bid when funding has been secured)	8,000	16,000	24,000
TOTAL		$8,000 ~~$15,400~~	$21,100	$36,500

FINANCIAL OFFICER (please have your organization's financial officer fill in this section)

Name: Bill Stringer, Metro CFO

Address: 600 NE Grand Ave, Portland, OR 97232-2736

Phone: 503-797-1700

Signature 5/27/04 Date

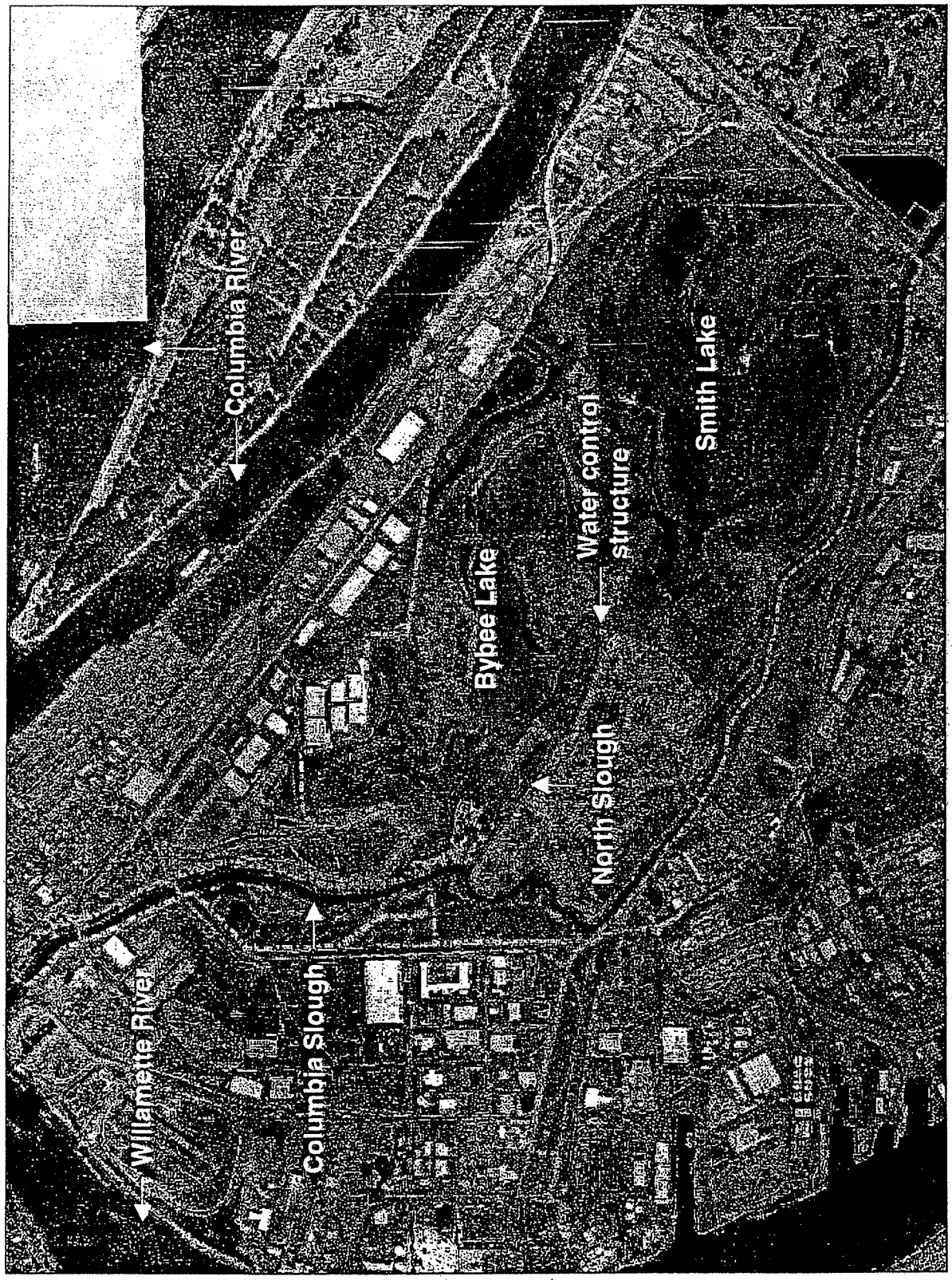
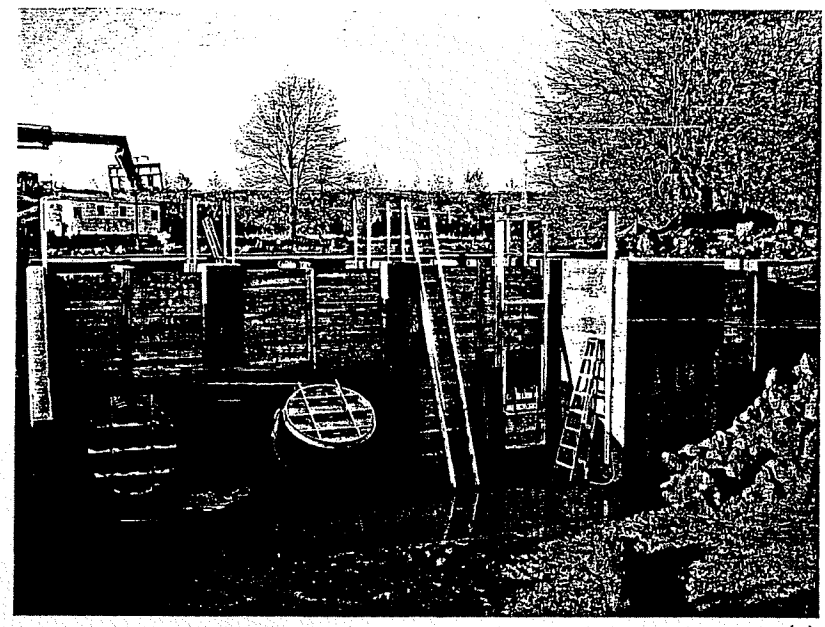
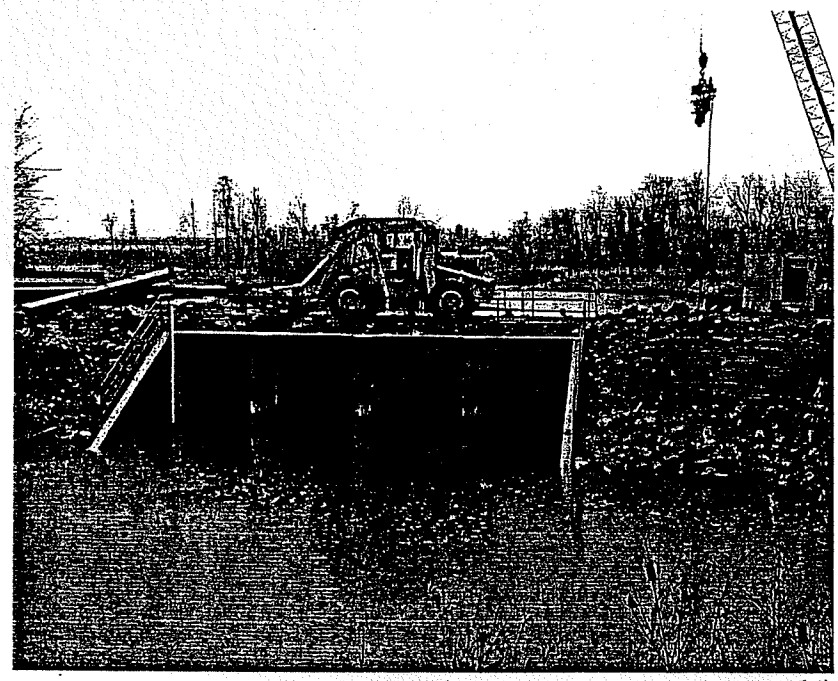


Figure 1. Smith and Bybee Lakes Wildlife Area (outlined in green).

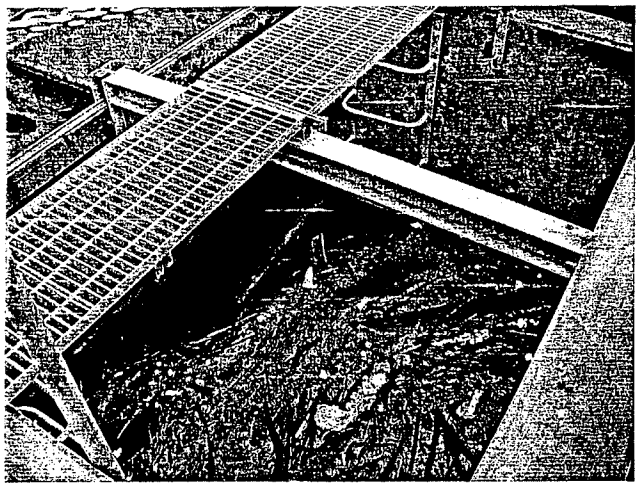


(a)

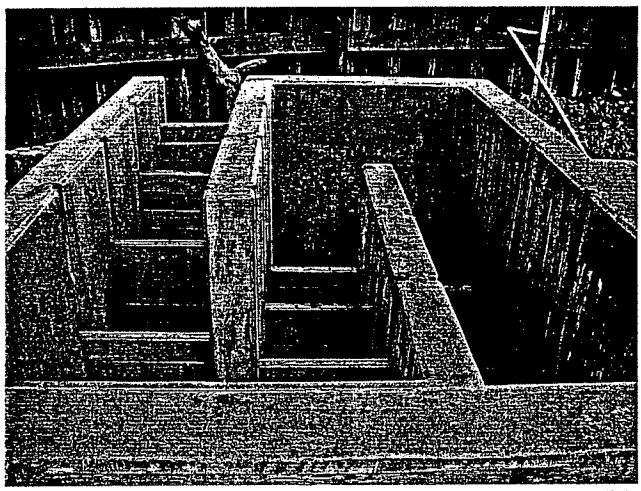


(b)

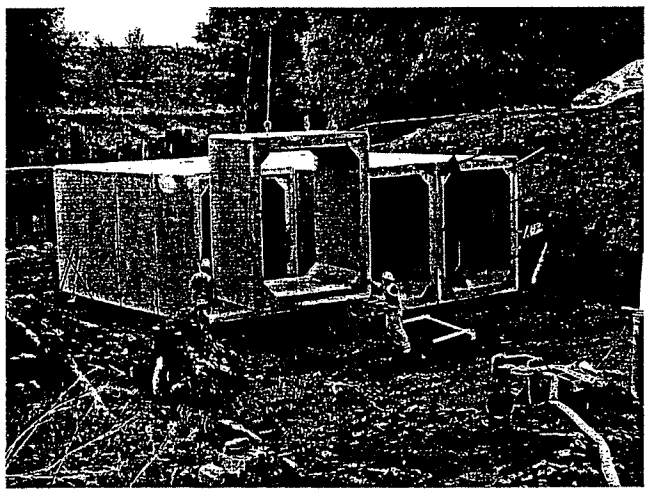
Figure 2. Smith-Bybee water control structure, showing headworks under construction (a) and North Slough opening at the end of construction (b).



(a)



(b)



(c)

Figure 3. Needed refinements include trash racks to block debris (a), aluminum plates to replace some stoplogs (b), and cement grout to reinforce a gap between two sets of box culverts (c – red arrows indicate joint between culverts).