

Oregon Water Resources Department
 725 Summer Street NE, Suite A
 Salem Oregon 97301-1266
 (503) 986-0900
 www.wrd.state.or.us

Application for a Permit to
**Store Water in
 a Reservoir**
 (Alternate Review)

Alternate Review Process (ORS 537.409): You may use this form for any reservoir storing less than 9.2 acre-feet or with a dam less than 10 feet high.

Use a separate form for each reservoir

Please type or print in dark ink. If your application is found to be incomplete or inaccurate, we will return it to you. If any requested information does not apply, insert "n/a". A summary of review criteria and procedures that are generally applicable to these applications is available at www.wrd.state.or.us/OWRD/PUBS/forms.shtml.

1. APPLICANT INFORMATION

Applicant: MARY ORDAL (for City of Hillsboro)
First Last
 Mailing Address: 4400 NW 229TH AVE
HILLSBORO OR 97124
City State Zip
 Phone: 503-681-6225
Home Work Other
 *Fax: 503-681-6124 *Email Address: maryo@ci.hillsboro.or.us
*optional information

2. LOCATION AND SOURCE

A. Reservoir Name: LOWER POND
 B. Source: Provide the name of the water body or other source from which water will be diverted, and the name of the stream or lake it flows into. Indicate if source is run-off, seepage, or an unnamed stream or spring.
 Source: SURFACE RUNOFF Tributary to: TOALATIN RIVER
 C. Reservoir Location

Township (N or S)	Range (E or W)	Section	quarter/quarter	tax lot number
<u>1 S</u>	<u>2 W</u>	<u>8, 9, 16</u>	<u>SW, SW of 9</u>	<u>1S 209001500</u>

D. County of Use: WASHINGTON

E. Dam: Maximum height of dam: 0 feet. If excavated, write "excavated" or "0 feet".

F. Quantity: Amount of water to be stored in the reservoir at maximum capacity.

List quantity in Acre-Feet: 6

3. WATER USE

Indicate the proposed use(s) of the stored water. NOTE: You may wish to consider filing for "Multipurpose use" for your reservoir. Multipurpose use does not limit the types of future uses for the stored water. Multipurpose covers all uses including: stockwater, fish and wildlife, aesthetics, domestic, irrigation, agriculture, fire protection and pollution abatement. If any use will be out of reservoir use, regardless of the type of storage listed, a secondary application must be filed to appropriate the stored water.

Multi-purpose

App. No. R-87380 For Department Use Permit No. _____ Date _____

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 SALEM, OREGON

4. PROPERTY OWNERSHIP

Do you own all the land where you propose to divert, transport, and use water?

Yes (please check appropriate box below then skip to section 5)

There are no encumbrances

This land is encumbered by easements, rights of way, roads or other encumbrances (please provide a copy of the recorded deed(s))

No (Please check the appropriate box below)

I have a recorded easement or written authorization permitting access.

I do not currently have written authorization or easement permitting access.

Written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigated and/or domestic use only (ORS 274.040). (Do not check this box if you described your use as "Multipurpose" in #3 above)

List Name and mailing addresses of all affected land owners:

[Empty box for listing land owners]

5. ENVIRONMENTAL IMPACT

A. Channel: is the reservoir In Stream or off channel?

B. Wetland: is the project in a wetland? Yes No Don't know

C. Existing: is this an existing reservoir? Yes No

If yes how long has it been in place? 11 years

D. Fish Habitat: Is there fish habitat upstream from the proposed structure? Yes No Don't know

If yes, how much? miles

E. Partnerships: Have you been working with other agencies? Yes No

Indicate agency, staff and phone numbers of those involved. Also indicate any agencies that are cost sharing in this project. PERMITS FOR ORIGINAL PARK DEVELOPMENT IN 1995

1995-DSL PERMIT #95-586: EARLE JOHNSON 503-378-3805 SEE REMARKS

Darrell Hedun 503-846-7780 Watermaster Dist 18 6. SIGNATURE

I swear that all statements made and information provided in this application are true and correct to the best of my knowledge.

Mary E Ordal Landowner Signature

1/15/2009 Date

Before you submit your application be sure you have:

- Answered each question completely.
Included a legible map that includes Township, Range, Section, quarter-quarter and tax lot number.
The map must meet map requirements to be accepted.
Included a land use form or receipt stub signed by a local planning official.
Included a check payable to Oregon Water Resources Department for the appropriate amount.

FEE STRUCTURE: The fee is based on the number of acre-feet proposed to be stored. The base fee is \$80. In addition, there is a fee of \$20 per acre-foot or fraction thereof. Example: 0.3 AF= \$ 100 ; 1.5 AF= \$ 120 ; 20.0 AF= \$ 480 ; 30.0 AF= \$ 680.

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1995-DSL PERMIT #95-586:
EARLE JOHNSON
503-378-3805 SEE REMARKS

Darrell Hedun 503-846-7780 6. SIGNATURE
Watermaster Dist 18

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[Handwritten signature]

1/15/2009

Landowner Signature

Date

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For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form.

This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.

Please check the appropriate box below and provide the requested information

Land uses to be served by proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): Section 6 (III) (B) of Hillsboro

Land uses to be served by proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.)

If approvals have been obtained but all appeal periods have not ended, check "Being pursued".

Type of Land-Use Approval Needed (e.g. plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:			
		<input type="checkbox"/> Obtained	<input type="checkbox"/> Denied	<input type="checkbox"/> Being pursued	<input type="checkbox"/> Not being pursued
		<input type="checkbox"/> Obtained	<input type="checkbox"/> Denied	<input type="checkbox"/> Being pursued	<input type="checkbox"/> Not being pursued
		<input type="checkbox"/> Obtained	<input type="checkbox"/> Denied	<input type="checkbox"/> Being pursued	<input type="checkbox"/> Not being pursued
		<input type="checkbox"/> Obtained	<input type="checkbox"/> Denied	<input type="checkbox"/> Being pursued	<input type="checkbox"/> Not being pursued
		<input type="checkbox"/> Obtained	<input type="checkbox"/> Denied	<input type="checkbox"/> Being pursued	<input type="checkbox"/> Not being pursued
		<input type="checkbox"/> Obtained	<input type="checkbox"/> Denied	<input type="checkbox"/> Being pursued	<input type="checkbox"/> Not being pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

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Name: Jennifer K Wells Title: Senior Planner
 Signature: [Signature] Phone: (503) 681-6214 Date: 12/18/08
 Government Entity: City of Hillsboro

Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

Receipt for Request for Land Use Information

Applicant name: _____

City or County: _____ Staff contact: _____

Signature: _____ Phone: _____ Date: _____



Oregon Water Resources Department Land Use Information Form

THIS FORM IS NOT REQUIRED IF: 1) water is to be diverted, conveyed, and/or used only on federal lands; or 2) the application is for a water-right transfer, allocation of conserved water, exchange, permit amendment, or ground water registration modification, and all of the following apply: a) only the place of use is proposed for change, b) there are no structural changes, c) the use of water is for irrigation, and d) the use is located in an irrigation district or exclusive farm-use zone.

Applicant Name: CITY OF HILLSBORO, PARKS + RECREATION
 Mailing Address: 4400 NW 229th Ave
 City: Hillsboro State: OR Zip: 97124 Day Phone: 503-681-6225

This application is related to a Measure 37 claim. Yes No

MARY ORDAL

A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), or used. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

Township	Range	Section	¼ ¼	Tax Lot #	Plan Designation (e.g. Rural Residential/RR-5)	Water to be:			Proposed Land Use:
13	2W	09		1500	R-2 zoning Flood plain	<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	Park
						<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	
						<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	
						<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	

List all counties and cities where water is proposed to be diverted, conveyed, or used. _____

B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

- Permit to Use or Store Water
 Water-Right Transfer
 Exchange of Water
 Allocation of Conserved Water
 Limited Water Use License
 Permit Amendment or Ground Water Registration Modification

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Source of water: Reservoir/Pond Ground Water Surface Water (name) runoff

Estimated quantity of water needed: 6 acre-ft cubic feet per second gallons per minute acre-feet

Intended use of water: Irrigation Commercial Industrial Domestic for _____ household(s)
 Municipal Quasi-municipal Instream Other multiple: aesthetic + fish + wildlife

Briefly describe: LOWER POND @ PARK WAS BUILT IN 1996; RESULT OF CONVERSION OF SEASONAL FLOODED PEM WETLAND DOMINATED BY REED CANARY GRASS

Note to applicant: If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt below and include it with the application filed with the Water Resources Department.

Receipt for Request for Land Use Information

State of Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1266

TO RESTORE AN OXBOW
REMNANT LAKE WITH
PERMANENTLY FLOODED
PEM WETLANDS.

A tract of land being part of Sections 8, 9 and 17, Township 1 South, Range 2 West of the Willamette Meridian, in the County of Washington and State of Oregon, described as follows:

PARCEL I:

Beginning at the Southwest corner of Section 9; and running thence South 2.90 chains, more or less, to the North line of the R. Holbrook Donation Land Claim, thence West 7-1/2 chains, more or less, along the line of said Holbrook Donation Land Claim to the center of the county road; thence North 12-1/2° West along the center of said county road 13.25 chains to a post; thence North 89° 15' East 16.75 chains to the middle channel of Rock Creek; thence down such channel to the South line of said Section 9; thence West 13.50 chains to the place of beginning.

PARCEL II:

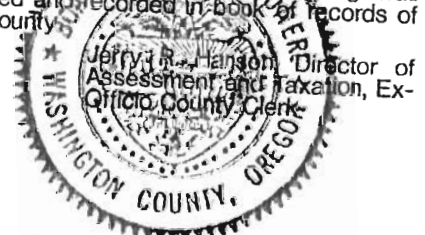
Lot 1, of Section 16, Township 1 South, Range 2 West of the Willamette Meridian, in the County of Washington and State of Oregon.

PARCEL III:

All that part of the Donation Land Claim of Russell Holbrook and wife being Claim No. 62, Township 1 South, Range 2 West of the Willamette Meridian, in the County of Washington and State of Oregon, lying North of the Tualatin River and East of the county road known as Rood Bridge Road.

STATE OF OREGON }
County of Washington } SS

I, Jerry R. Hanson, Director of Assessment and Taxation and Ex-Officio Recorder of Conveyances for said county, do hereby certify that the within instrument of Writing was received and recorded in book of records of said county.



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**Remarks: Application to Store Water in a Reservoir
Lower Pond at Rood Bridge Park, Hillsboro OR**

Rood Bridge Park is Hillsboro's premier park because of its 60+ acre size and range of features including both developed and natural areas. Development of the park began in 1995, with construction in phases. The Lower Pond was created as an effort to restore a remnant oxbow lake wetland; this work was done in accordance with a DSL / COE Joint Permit issued in 1995 (COE Action ID #95-586 and DSL # RF-9867). Prior to construction, the Lower Pond area was a seasonally flooded remnant oxbow lake PEMS wetland dominated by reed canary grass. The area was altered / excavated in compliance with permits to create a permanently flooded oxbow lake PEMd wetland.

At the time the park was planned, the City planned on accepting Level 4 treated effluent from Clean Water Services. CWS was planning to give the City discharge water which was intended to be used for the Lower Pond as well as for general irrigation. A manmade creek system was designed to aerate the discharge before it entered the Lower Pond, to ensure any residual chemicals were fully oxidized. The plans for the CWS discharge water were subsequently put on hold, so treated effluent is not used at the park to augment Lower Pond water levels.

The Lower Pond maintains water levels on a year-round basis. Water enters the pond from surface water runoff as well as from occasional flooding from the Tualatin River. The Lower Pond does maintain some water year round even in years when there is no flooding. The pond edges have been planted with a variety of native plants, and this effort continues with additional plantings to enhance fish and wildlife value. (This picture is from 2001; since then, thousands of native plants have been added to the pond edges) The Lower Pond does have some warm water fish. It also supports a variety of Waterfowl.



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View of Lower Pond at Rood Bridge Park looking east from the River House (2001)

Remarks re Water Use Request for Rood Bridge Park

(Water pumped from Lower pond to flow via man-made creeks to Woodland Pond and return to Lower Pond.)

Rood Bridge Park is Hillsboro's premier park because of its 60+ acre size and range of features including both developed and natural areas. Development of the park began in 1995, with construction in phases. A key element of the park design was the intended use of Level 4 treated effluent water for irrigation and for augmenting water level in the park's Lower Pond. A manmade creek system was designed to aerate the discharge water before it entered the Lower Pond, to ensure that any residual chemicals were fully oxidized. The creek system was an important design element, and also provided aesthetic values to the park. It was designed as a recirculating system so that it could function even when discharge water was not being utilized. Discharge water or water from the Lower Pond would be pumped via 6" pipe underground to the creeks and then flow back via gravity in the lined man-made creeks back to the Woodland Pond and then back to the Lower Pond. The plans for the CWS discharge water were subsequently put on hold, and the treated discharge water was not available. Meanwhile, the park and recirculating creek system and pump had been developed. The majority of the creek system is along the edge of a wooded area developed as a rhododendron garden, and so is partially shaded.

The water from the Lower Pond is pumped via a 20 HP pump to the beginning of the man-made creeks providing approximately 600 gpm of water. The water flows into two creek channels which enter the Woodland Pond via small waterfalls. The Woodland Pond has an outlet creek which returns water to the Lower Pond. There is approximately 1600 lf of creek system including the return creek to the Lower Pond. The creeks are 2-3 feet in width, lined with rubber topped with river rock, and a few inches in depth.

The submersible pump is fed by a 6" diameter intake pipe. This pipe sits inside a large 24" diameter pipe that extends into the Lower Pond. Both the intake pipe and the large protective pipe have protective mesh screenings on them. The intake pipe has a fine mesh that protects fish or other aquatic life from being drawn into the pump. There is a big screen box on the end of the large pipe to block fish and aquatic life as well as debris from the pipe intake. This 4' x 4' x 6' box is fitted with two layers of heavy protective screen (approximately 0.5" diameter openings). These systems have enabled the pump to run successfully since installation in 1999 without clogging and have protected the fish and aquatic life that utilizes the Lower Pond.

The park is maintained by full time maintenance staff. Care is used to ensure that any fertilizers or other chemicals do not enter the creeks or ponds at the park. Staff are licensed applicators; management practice limits use of any fertilizers or herbicides in areas adjoining water resources, including man-made water features and buffer zones.

The creek and pond system are key aesthetic features of the park. The creeks do not support fish, although ducks have been observed in the creeks. Waterfowl and amphibians have been observed in the Woodland Pond, and the Lower Pond is home to a variety of waterfowl, amphibians and other aquatic life.

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Rood Bridge Park Ponds & Creek Recirculating System Hillsboro OR



- Park Boundary
- Tax Lots
- - - Man made creeks
- Pipe - water from lower pond pumped to start of creeks

Lower Pond on
Tax Lot 1S2090001500

Woodland Pond on
tax Lot 1S208DD03400

Creek system on both tax lots

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△ Government
Corners



1 inch equals 400 feet

R-07380