

OREGON



WATER RESOURCES  
DEPARTMENT

2019 SOLICITATION

## WATER PROJECT GRANTS AND LOANS

### GRANT APPLICATION

**APPLICATION DEADLINE: BY 5:00PM ON APRIL 26, 2019**

**\*Application must be received by this date and time\***

Send application electronically to: [WRD\\_DL\\_waterprojects@oregon.gov](mailto:WRD_DL_waterprojects@oregon.gov)

Mail application to:

**OREGON WATER RESOURCES DEPARTMENT  
Attention: Grant Program Coordinator  
725 Summer Street NE, Suite A  
Salem, OR 97301**

### APPLICATION SUBMISSION INSTRUCTIONS

1. Complete Sections I through X in the spaces provided. **Use the grant application instructions and Guidance on the Evaluation of Public Benefits when completing your application.** All resources are available at the [Water Project Grants and Loans webpage](#).
2. Taking part in a Pre-Application Conference prior to applying is **highly** recommended. The pre-application conference request form is available at the Water Project Grants and Loans, Applications, Forms and Guidance webpage. To learn more contact the Department.
3. Complete and sign the application checklist.
4. An application must be submitted on the attached form provided by the Department and may not be altered for the purpose of formatting or changing the document structure.
5. Please ensure that the Certification portion of Section II is signed with a live signature by the Applicant and, if applicable, the Co-Applicant.
6. Electronic application submission is the preferred method. You may scan a copy of the signed signature page and submit it with your application as long as both documents are included in the same email.
7. If application is submitted in hard copy - use 8 ½" x 11" single sided, unstapled pages. Provide any attachments to the application on 8 ½" x 11" single-sided, unstapled pages.
8. Contact the Department 503.986.0869 or [WRD\\_DL\\_waterprojects@oregon.gov](mailto:WRD_DL_waterprojects@oregon.gov) if you have any questions.

# WATER PROJECT GRANTS AND LOANS APPLICATION CHECKLIST

**Instructions:** Use this checklist to ensure that your application is complete. An incomplete application may be deemed ineligible for further review and consideration. Checklist sections A and B must be completed and the checklist signed in order for your application to be considered complete.

*\*Application Checklist Must Be Completed and Signed\**

## **SECTION A - Application**

### I. Project Information

- Project name and type(s) is complete and correct.
- The requested grant amount does not exceed 75% of the total cost of the project.

### II. Applicant Information

- All applicant and co-applicant name(s) and contact information is complete and correct.
- Application is signed by Applicant/Authorized Person.
- Application is signed by Co-Applicant/Authorized Person *OR* there is no co-applicant.

**Note:** *If the project is awarded funding the co-applicant will be required to sign and be party to the grant agreement.*

### III. Eligibility

- All questions have been addressed.
- The project addresses and instream and/or out-of-stream need.

### IV. Project Summary

- Project summary does not exceed 5 sentences.

### V. Project Location

- All questions have been addressed.

### VI. Project Specifics

- All questions have been addressed.
- Each project task is identified and includes task schedule, description of task activities, and permits/regulatory approvals needed for the task.

### VII. Public Benefits

- All questions have been addressed.
- Public benefit is identified in each of the three public benefit categories.

### VIII. Project Budget

- All budget items are allowable costs as identified in the Department's Grant Budget Procedures and Allowable Cost document the OWRD Funding Opportunities Forms webpage.
- All budget task totals and addition of totals is correct.
- Key tasks listed in Project Budget (IX) match those identified in Questions 9 & 10.

### IX. Match Funding Information

- Match funding table is complete.

### X. Storage-Specific Project Requirements (if applicable)

- All questions have been addressed *OR* the application is not for a storage project.

**SECTION B - Application Attachments**

**Instructions:** Use this checklist to ensure required attachments are included with your application. All attachments to the application must be numbered as well as included in this list. For all attachments ensure documentation meets any criteria identified in the application instructions or Guidance on Budget Procedures and Allowable Costs. For "other" optional attachments in excess of the three spaces provided, include a supplemental list.

**Required Attachments:**

- Attachment 1 – Site map (Question 2)
- Attachment 2 – Property access authorization (Question 4) includes the following:
  - a) Evidence addresses all the requirements of Question 4 including awareness that monitoring information is public record for private lands.
  - b) If evidence includes landowner awareness and agreement to the proposal, documentation is from the landowner and includes current contact information.
- Attachment 3 – Documentation of matching funds (Section IX) includes the following:
  - a) Match documentation for all match fund sources listed in the match fund table.
  - b) Match fund documentation that clearly identifies the dollar amount and describes the work to be accomplished with the match.

**Optional Attachments:**

- Project feasibility documentation (Question 6): Attachment # 4
- Letters of support (Question 8): Attachment # 5
- Plans, designs, and/or engineering specifications: Attachment # 4
- Secured permits and regulatory approvals needed to implement the project (Question 15): Attachment # 6
- Other: List of Water Rights Attachment # 7
- Other: Attachment #
- Other: Attachment #

All required items within Section A and B of the application checklist are completed and all identified criteria are addressed to the best of my knowledge.

Signature of Applicant/Authorized Person: Eric Nordquist Date: 4/26/19\_\_

Print Name: Eric Nordquist Title: President, BID



WATER PROJECT GRANTS AND LOANS  
GRANT APPLICATION

**I. Project Information**

Project Name: Highland Ditch Piping Project

Project Type:  Conservation     Reuse     Flow Restoration and Protection  
 Above-Ground Storage     Below-Ground Storage  
 Water Infrastructure     Other: \_\_\_\_\_

Grant Funding Requested (must be no more than 75% of Total Cost of Project): \$2,250,000

Match Funding (must be no less than 25% of Total Project Cost): \$750,000

Total Cost of Project: \$3,000,000

**II. Applicant Information**

<b>Applicant Name: Badger Improvement District</b>	<b>Co-Applicant Name:</b>
Address: P.O. Box 276	Address:
Tygh Valley, OR 97063	
Phone: 541-544-2190	Phone:
Fax:	Fax:
Email: badgerirrigation@hotmail.com	Email:

<b>Principle Contact: Eric Nordquist</b>	<b>Fiscal Officer:</b>
Address: 79989 Morrow Rd	Address:
Tygh Valley, OR 97063	
Phone: 541-544-2190	Phone:
Fax:	Fax:
Email: enfarms2003@gmail.com	Email:

**Certification:** I certify that this application is a true and accurate representation of the proposed work and that I am authorized to sign as the Applicant or Co-Applicant. By the following signature, the Applicant and Co-Applicant (if applicable) certify that they are aware of the requirements of an Oregon Water Resources Department funding award, have read and are aware of conditions within the example grant agreement and are prepared to implement the project, if awarded.

Signature of Applicant/Authorized Person: *Eric Nordquist* Date: 4/25/2019

Print Name: Eric Nordquist Title: President, BID

Signature of Co-Applicant/Authorized Person: \_\_\_\_\_ Date: \_\_\_\_\_

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**Note:** *If the project is awarded funding the co-applicant will be required to sign and be party to the grant agreement.*

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### IV. Project Summary

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### ***Optional Attachments:***

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- Other: List of Water Rights Attachment # 7
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**All required items within Section A and B of the application checklist are completed and all identified criteria are addressed to the best of my knowledge.**

Signature of Applicant/Authorized Person: \_\_\_\_\_ Date: 4/26/19\_\_

Print Name: Eric Nordquist Title: President, BID



**WATER PROJECT GRANTS AND LOANS  
GRANT APPLICATION**

**I. Project Information**

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**II. Applicant Information**

<b>Applicant Name: Badger Improvement District</b>	<b>Co-Applicant Name:</b>
Address: P.O. Box 276	Address:
Tygh Valley, OR 97063	
Phone: 541-544-2212	Phone:
Fax:	Fax:
Email: badgerirrigation@hotmail.com	Email:

<b>Principle Contact: Eric Nordquist</b>	<b>Fiscal Officer: Josh Thompson</b>
Address: 79989 Morrow Rd	Address: P.O. Box 276
Tygh Valley, OR 97063	Tygh Valley, OR 97063
Phone: 541-544-2190	Phone: 541-993-3419
Fax:	Fax:
Email: enfarms2003@gmail.com	Email: joshtdor@gmail.com

**Certification:** I certify that this application is a true and accurate representation of the proposed work and that I am authorized to sign as the Applicant or Co-Applicant. By the following signature, the Applicant and Co-Applicant (if applicable) certify that they are aware of the requirements of an Oregon Water Resources Department funding award, have read and are aware of conditions within the example grant agreement and are prepared to implement the project, if awarded.

Signature of Applicant/Authorized Person: \_\_\_\_\_ Date: 4/25/2019

Print Name: Eric Nordquist Title: President, BID

Signature of Co-Applicant/Authorized Person: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Title: \_\_\_\_\_

### III. Eligibility

Select applicant entity type for both applicant and co-applicant (if applicable).

<input type="checkbox"/>	City	<input type="checkbox"/>	Oregon County
<input type="checkbox"/>	Port	<input checked="" type="checkbox"/>	Irrigation District
<input type="checkbox"/>	Drainage District	<input type="checkbox"/>	Water Improvement District
<input type="checkbox"/>	Water Control District	<input type="checkbox"/>	Non-Profit Organization
<input type="checkbox"/>	Soil and Water Conservation District	<input type="checkbox"/>	Corporation
<input type="checkbox"/>	Partnership	<input type="checkbox"/>	Sole Proprietorship
<input type="checkbox"/>	Cooperative	<input type="checkbox"/>	Indian tribe
<input type="checkbox"/>	State of Oregon Agency	<input type="checkbox"/>	Individual
<input type="checkbox"/>	Federal Agency	<input type="checkbox"/>	Other:

*To be eligible for funding a project must address an instream and/or out-of-stream water supply need and result in project implementation.* Does the project address an instream and/or out-of-stream water supply need and result in project implementation?  Yes  No

Provide a brief, one to two paragraph description of the water supply need that the project intends to address. Please reference (and attach) supporting data or reports that document the need.

Currently, roughly 3600 acres are supplied irrigation water for 40+ users in the Wamic/Pine Hollow area. The economic security of these producers is dependent on maintaining the flow of irrigation water diverted from Badger Creek into the Highland Ditch. The initial 2½ miles of ditch is in steep terrain that can ordinarily only be accessed by foot for monitoring or repair if needed. The health of this portion of the ditch is vital to maintaining a local agriculture economy. Gross income for irrigated land is \$1,000-\$5,000 per acre, and gross income for non-irrigated land is \$100 per acre or less in this area.

An additional benefit from piping this section of this ditch is the ability to leave more water in Badger Creek. As with any open ditch, this ditch is subject to leaks and seepage. Piping will solve any potential leaks or seepage issues that would occur without piping.

Is either the Applicant or Co-Applicant required to have a Water Management and Conservation Plan?

Yes  No

If yes, has the plan been submitted to the Water Resources Department and received approval?

Yes  No

*Note: Pursuant to ORS 541.659 if an applicant is required to have a water management and conservation plan, the plan must be submitted to the Water Resources Department and receive approval prior to department acceptance of an application for a loan or grant from the account.*

#### IV. Project Summary

Provide a brief, 4-5 sentence summary of the proposed project. This summary should include a brief description of the goal and scope of the project as well as summarize project implementation (i.e., planned infrastructure or activity). Please refer to the Water Project Grants and Loans Application Instructions for additional information on what to include in your project summary.

This proposed project would pipe roughly 14,000 ft of irrigation ditch with a 30" PVC or HDPE pipe. The current open ditch is in steep terrain, and surrounded by the Badger Creek Wilderness Area in the Mt. Hood National Forest. The ditch is difficult to access and repair and is subject to possible washout due to debris filling the ditch. As this ditch is the main supply of irrigation water to farmers in the area, a ditch failure would threaten the economic stability of agriculture in the area. Additionally, installing a pipe would help prevent washouts which would negatively affect fish habitat in Badger Creek due to large amounts of dirt and debris filling the creek. Because of leaching and seepage in the existing ditch, a pipe would also keep up to ½ cfs in Badger Creek and improve the overall efficiency of Badger Improvement District's (BID) irrigation system.

## V. Project Location

**Instructions:** Please answer the following questions about the location of the proposed project.

1. Please provide the following information about the project location.
  - a. Latitude/Longitude (in decimal degrees): N45.276747 / W121.454389
  - b. County: Wasco
  - c. Watershed/Basin: White River/Deschutes
  
2. Please attach and label, Attachment #1, a site plan map showing the following:
  - a. Project area boundaries
  - b. True north arrow
  - c. Map title and legend
  - d. Latitude and longitude of project location
  - e. Property boundaries
  - f. Tax Map and Lot numbers of each property in project area boundary and listed in Question #3
  - g. Surface water bodies
  - h. Location of involved structures (existing or proposed)
  - i. Proposed measurement locations (if applicable)
  
3. In the table below, identify any properties on which the project would occur and/or that would be impacted or accessed by project implementation. *Add rows as needed.*

Tax Lot ID	Ownership Type (✓ One)	Property Owner of Record	Will ground disturbing activity occur on this land? (✓ One)	Identify the type and extent of ground disturbing activity (e.g. borings, test pits, excavation, new road construction etc.)
03S11E100	<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private	USFS	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Buried Pipeline
	<input type="checkbox"/> Public <input type="checkbox"/> Private		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> Public <input type="checkbox"/> Private		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> Public <input type="checkbox"/> Private		<input type="checkbox"/> Yes <input type="checkbox"/> No	

4. For each property listed in Question #3, attach a [Landowner Agreement form](#). Attach Landowner Agreement form(s) and label Attachment #2.
  - a. Where a single landowner entity is the owner of record for multiple properties, one form may list the multiple properties owned by that entity.
  - b. For *public* lands attach the landowner form or other documented authorization from the federal or state government property owner allowing project implementation **or** documentation that demonstrates such authorization is being pursued.

## VI. Project Specifics

**Instructions:** Please answer the following questions.

### Project Description, Needs, and Goals

5. Provide additional information (building on the project summary) to further describe the proposed project and the project goal.

Currently, roughly 3600 acres are supplied irrigation water for 40+ users in the Wamic/Pine Hollow area. The economic security of these producers is dependent on maintaining the flow of irrigation water diverted from Badger Creek into the Highland Ditch. The initial 2 ½ miles of ditch is in steep terrain that can ordinarily only be accessed by foot for monitoring or repair if needed. The health of this portion of the ditch is vital to maintaining a local agriculture economy. Gross income for irrigated land is \$1,000-\$5,000 per acre, and gross income for non-irrigated land is \$100 per acre or less in this area.

An additional benefit from piping this section of this ditch is the ability to leave more water in Badger Creek. As with any open ditch, this ditch is subject to leaks and seepage. Piping will solve any potential leaks or seepage issues that would occur without piping.

This project was originally planned to be done in several stages, starting from the headgate down. Due to logistical concerns of transporting all the materials (pipe and backfill material) through difficult terrain to the start of the ditch and working down, it was decided it would more be more efficient and logistically easier to start at the finishing point of the pipeline and working up, using the covered pipeline as a road. This would require completing the entire pipeline at one time.

#### Goals:

- Provide a long term solution to a currently fragile ditch
- Upgrade and increase the efficiency to the BID system
- Return ½ cfs to Badger Creek

6. Provide evidence to demonstrate project feasibility. This may include the results of a feasibility study. Attach the results of the study or other evidence, as necessary.

Attached is an engineering plan completed by McMillen Engineering of Boise, ID in 2005. The entire technical data can be provided upon request.

7. Describe partnerships and collaborative efforts associated with the planning or implementation of this project. Include a description of how parties of diverse interests worked, or will work together to achieve a common goal.

BID is working with the local NRCS/Wasco County Soil & Water Conservation District office to implement and plan this project, as well as the USFS to update the working agreement with BID

8. List letters of support (name and/or affiliation of sender is sufficient). Attach copies of the letters to your application.

US Forest Service  
Wasco County Soil & Water Conservation District  
Wasco County Board of Commissioners  
South Wasco County Park & Recreation District  
Round Prairie Improvement District  
Pat Davis  
Wamic Market

### **Project Tasks**

9. Identify tasks necessary for the proposed project using the following format and including as many tasks as necessary to implement the project. In the event that your proposed project receives grant funding, the tasks identified will be incorporated into your grant agreement as the "Project Description."

*Note: Project management and administration are common functions within specified project tasks and not a separate project task. All cost match and grant budget funds must apply to the tasks identified below. See the Budget Procedures and Allowable Costs document for more.*

#### **For each Task Address the Following:**

##### Task number. Key Task Title

- Task schedule: The approximate dates during which the key task will be completed.
- Description of key task activities: Include specific details of the task such as task purpose, planned approach, and proposed methods.
- Permits/Regulatory Approvals Required: List any permits or regulatory approvals required to conduct the task. All permits/regulatory approvals identified must also be listed in question 15 of this application.

##### **Task 1.** Secure Funding

- Task schedule: April 2019 to Early 2020
- Description of key task activities: Secure funding through grants, loans, and in-kind sources.
- Permits/Regulatory Approvals Required: None

##### **Task 2.** Secure Permits

- Task schedule: April 2019 to Early 2020 (concurrent with Task 1)
- Description of key task activities: Update BID's agreement with the USFS.
- Permits/Regulatory Approvals Required: None

**Task 3. Secure Materials**

- Task schedule: Summer 2020
- Description of key task activities: After funding is secured, purchase pipe, fittings and fill material.
- Permits/Regulatory Approvals Required: None

**Task 4. Prepare Ditch/Pipe Bed**

- Task schedule: Summer 2020
- Description of key task activities: Perform necessary preparations, such as clearing brush. Get bids and hire contractors. Haul needed fill material to staging area.
- Permits/Regulatory Approvals Required: Updated USFS agreement

**Task 5. Install/Backfill Pipeline**

- Task schedule: Fall 2020
- Description of key task activities: Install Pipe and back fill. Build intake structure and rip-rap outlet.
- Permits/Regulatory Approvals Required: Updated USFS agreement

**Task 6. Legally Protect Conserved Water Instream**

- Task schedule: 2021
- Description of key task activities: Perform necessary steps to complete issuance of instream water right certificate.
- Permits/Regulatory Approvals Required: Oregon Water Resources Department Water Resources Department Instream Water Right Certificate.

*Copy and paste additional tasks as needed.*

10. Project Task Scheduling – Estimated total project duration: Summer 2019 to December 2021 (months/years)

Place an “X” in the appropriate column to indicate when each Project Task would take place. Note that successful projects generally do not receive their first reimbursement until late Q1 or early Q2 of the year after application submission. Project tasks listed must match the tasks identified in Question 9.

Key Tasks (Add additional rows as needed)	Grant year				Grant year				Grant year			
	2019				2020				2021			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Secure Funding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Secure Permits	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Secure Materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prepare Ditch/Pipe bed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Install Pipeline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Legally Protect Conserved Water Instream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

11. Describe how you propose to measure and report the water diverted and used from the proposed project. Include a proposed method, timing, frequency, and location of measurement in your proposal. If you have questions please contact the Department for more information.

*Note: Funded projects are required by statute to “regularly measure and report the water diverted and used from the project” [ORS 541.692(3)].” The Department makes the final determination on the method, timing, frequency, and location of measurement. Grant funds can be used to pay for measurement and reporting expenses. If neither the existing infrastructure nor the proposed project divert water this requirement may not apply. Grant/loan funds can be used to pay for measurement and reporting expenses during the life of the grant.*

Method: Currently there are two measuring devices in this ditch. A Parshall flume is located on the downstream side of the fish-screen, and a “gauging station” that is monitored by the local watermaster. These would continue to be the methods used to monitor the flow.

Timing/Frequency: As the diversion point for this ditch is remote and not easily accessed, measurements would be taken twice a week using the Parshall flume during the irrigation season.

Location: The Parshall flume is located at the diversion point which is located at GPS coordinates: N45.276747/W121.454389

Reporting: Measurements are taken by an employee of Badger Improvement District and are recorded and stored.

12. Provide suggestions for interim and long-term project performance benchmarks.

The main goal of this project is to prevent future catastrophic failure of the current open ditch. An additional goal is to keep ½ cfs in Badger Creek during the irrigation season when the flow in Badger Creek is the lowest. Piping this section of the ditch would help maintain the economic security of farm producers in BID. Gross income for irrigated land is \$1,000-\$5,000 per acre, and gross income for non-irrigated land is \$100 per acre or less in this area. Additionally, this project would provide economic security for recreational industries that use Pine Hollow Reservoir, which is owned by BID and used for recreational purposes under an easement with the ODFW and is filled by this ditch. Long term success would be the continued flourishing of these industries.

13. Describe any issues, unknowns, or conditions that may affect the completion of the key tasks or project. If applicable, describe any measures planned to mitigate them.

Currently, funding is the leading condition that may affect the completion of this project. BID has been working with a representative of Wasco County Soil and Water Conservation District to identify funding sources.

Another obstacle is the terrain and remoteness of the ditch. The ditch is on the hillside of a canyon leaving little room to work and install the pipeline. Several contractors who have installed similar pipelines in the area have visited the site and have expressed confidence a pipeline can be installed given the difficult conditions. This project was originally planned to be done in several stages, starting from the headgate down. Due to logistical concerns of transporting all the materials (pipe and backfill material) through difficult terrain to the start of the ditch and working down, it was decided it would more be more efficient and logistically easier to start at the finishing point of the pipeline and working up, using the covered pipeline as a road.

### **Permits and Regulatory Approvals**

14. List all water rights associated with the proposed project tasks. List permit/certificate/ transfer numbers, as applicable, current holder, and associated tax lot. *Note: For all existing water uses, include any and all water right authorizations that allow water use under the current project. Add rows as needed.*

See Attachment #7

15. In the table below, provide a list of any permits and regulatory approvals needed to implement the project and indicate the status of each in the table below. Please submit copies of any secured permits/approvals or describe efforts in securing necessary permits/approvals, including current status. If no permits or regulatory approvals are required, please provide an explanation. *Add rows as needed.*

A NEPA analysis has already been completed, but will be reassessed by the USFS. No other permits are needed. BID has an easement with the USFS that will need to be updated.

Permit/ Regulatory Approval	Status and Efforts To Date
NEPA Analysis	Completed, but will be reassessed by USFS
Update USFS Easement and agreement	To be completed

## VII. Public Benefits

**Instructions:** Describe how the project would provide public benefits in each of the three public benefit categories identified below. In your responses, describe current conditions and anticipated project outcomes and benefits. Describe how the project outcomes will contribute to each anticipated public benefit. Descriptions should be quantitative when possible. Applications will be scored and ranked solely based on the descriptions of the economic, environmental, and social/cultural public benefits and the likelihood of the project achieving the claimed benefits. More specifically, the evaluation will be based on the change in conditions expected to result from the project as demonstrated in the application.

Please see the Guidance on the Evaluation of Public Benefits document, on the OWRD Funding Opportunities Forms webpage, for definitions of each public benefit and a description of how the public benefits will be evaluated. Applications that do not demonstrate public benefit in each of the three categories (economic, environmental, social/cultural) will be deemed incomplete.

Leave blank any public benefits that are not applicable to the proposed project.

### 16. Economic Benefits – ORS 541.673(2)

#### a. Job creation or retention:

This project will maintain the agricultural industry in the area. There are currently 40+ users and members of BID. Some are sole owner/operators, but many employ several farm workers. A ditch failure in this section of the ditch would destroy the agricultural industry in this area, resulting in loss of jobs of the farm workers, and also the owner/operators themselves. The arable land in this area is fairly shallow and not very suitable for dryland farming.

Historically this area has grown irrigated wheat and irrigated forage for hay and pasture. Increasingly over that last 20 years more and more fruit acres have been added. Apple, pears and blueberry crops have been planted. As these crops are more labor intensive than wheat and forage, they have brought in more and more farm laborers. Some of these jobs are short term migrant jobs, there are also an increasing number of full time positions as well. Also, traditional crops are largely summer seasonal and are dormant in the winter months, but fruit crops require care in the winter, bringing in more opportunities for jobs in the winter.

#### b. Increases in economic activity:

This piping project would could increase and largely maintain current economic activity. Currently, the agricultural lands served by this ditch produces grazing and hay on the low end of the economic scale (gross value of \$500-\$1,500/acre) up to fruit crops (apple, pear, and blueberry) on the high end of the economic scale (gross value of \$5,000-\$10,000/acre). If a ditch failure occurred, and irrigation was cutoff, the only dryland crops in the area are grain crops or grazing, reducing the gross values to less than \$100/acre. Property values would also be significantly reduced. They are currently in the range of \$3,000 to \$5,000 per acre for irrigated land. Dryland property values are more in the range of \$400 to \$800 per acre.

This project could increase economic activity helping to provide security for the future growth of these more valuable and labor intensive crops to be grown in this area. Although more and more high value crops are being grown here they typically take up to five or more year to reach their full potential. Irrigation security would help growers feel more comfortable investing thousands or millions of dollars in crops with little return for several years.

- c. Increases in efficiency or innovation:

This piping project would eliminate current ditch loss and seepage in the section being piped. But it would also help BID lead its growers in more innovative ways to save water. It would help the overall mindset of increasing water conservation.

- d. Enhancement of infrastructure, farmland, public resource lands, industrial lands, commercial lands or lands having other key uses:

This piping project would eliminate current ditch loss and seepage in the section being piped. But it would also help BID lead its growers in more innovative ways to save water. It would help the overall mindset of increasing water conservation.

- e. Enhanced economic value associated with tourism or recreational or commercial fishing, with fisheries involving native fish of cultural significance to Indian tribes or with other economic values resulting from restoring or protecting water instream:

As this portion of the ditch is the main artery to supply water to fill Pine Hollow Reservoir, tourism would be greatly impacted in the area. The reservoir is the main tourist draw to this area for camping, fishing and boating. Pine Hollow Reservoir was built in the early 1970's in cooperation with BID, ODFW and Wasco County, to provide enhanced irrigation for BID, and to fishing and boating opportunities. A ditch failure in this portion of the ditch would significantly impact tourism in this area.

The in-stream water would benefit native redband trout, which are state listed sensitive. The redband trout in the White River Watershed are genetically unique as they are genetically dissimilar to the redband trout in the Lower Deschutes River and genetically similar to the redband trout in the Upper Fort Rock Basin. This has been attributed to their physical isolation created by White River Falls.

At the time of the engineering, "the USFS included replacing Highland Ditch with a pipe line in their most recent environmental assessment addressing steelhead recovery on Forest Service Lands." (McMillen Engineering Design Report, October 2005)

- f. Increases in irrigated land for agriculture:

This project would protect existing irrigated land rather than increase irrigated land and enable the current acres to be irrigated more efficiently leaving more water in Badger Creek.

#### 17. Environmental Benefits – ORS 541.673(3)

- a. A measurable improvement in protected streamflows. Describe the legal means by which the water will be permanently dedicated instream and protected by the Oregon Water Resources Department (e.g. Allocation of Conserved Water program). *This MUST be included to receive a score for this public benefit.*

BID, with the help of the local NRCS/Wasco County Soil & Water Conservation District office, would file for an Oregon Water Resources Department Water Resources Department Instream Water Right Certificate.

Describe how the protected stream flows accomplish one or more of the following:

- (A) Supports the natural hydrograph;
- (B) Improves floodplain function;
- (C) Supports state- or federally-listed sensitive, threatened or endangered fish species;
- (D) Supports native fish species of cultural importance to Indian tribes; or

(E) Supports riparian habitat important for wildlife:

The increased streamflow due to this project will support the state listed redband trout and help support the riparian area which in the aired eastern Oregon climate is critical to wildlife.

b. A measurable improvement in groundwater levels that enhances environmental conditions in groundwater restricted areas or other areas:

c. A measurable improvement in the quality of surface water or groundwater:

Piping this section of ditch will ensure that the ditch will not washout filling Badger Creek with sediment. This section of Badger Creek in in the Badger Creek Wilderness Area.

d. Water conservation:

1 cfs of ditch loss has been observed in this section of the ditch. 50% of this flow would be conserved by the installation of a pipe line in the ditch.

*Note: Any project that conserves water and permanently dedicates at least 25% of the conserved water quantity to instream use will automatically receive a scoring bump in the environmental public benefit category with the opportunity to demonstrate additional environmental benefit to increase the score. **If awarded funding, the percentage identified below will be a condition of funding.***

Identify the portion of conserved water that will be permanently dedicated instream and protected by the Oregon Water Resources Department: 50%

Describe the legal means by which the water will be permanently dedicated instream and protected by the Oregon Water Resources Department (e.g. Allocation of Conserved Water program): BID, with the help of the local NRCS/Wasco County Soil & Water Conservation District office, would file for an Oregon Water Resources Department Water Resources Department Instream Water Right Certificate.

e. Increased ecosystem resiliency to climate change impacts:

As drought conditions may become more frequent in the future, the need to conserve water becomes increasingly necessary. Installing this pipeline would be another step toward better water efficiency in the BID system.

f. Improvements that address one or more limiting ecological factors in the project watershed:

This project will help prevent destruction of fish habitat in Badger Creek and downstream from large amounts of debris entering the creek by reducing the possibility of washouts from failure in the current open ditch.

One objection that has been raised is that the pipeline would eliminate an open source of water currently used for wildlife in the area. The current open ditch system catches a series of springs in two locations. These spring have been measured by Wasco County SWCD to flow between 1/2 to 3/4 CFS. In conjunction with the piping, culverts will be installed underneath the pipe to allow these springs to flow naturally into Badger Creek. These springs will again flow in areas cutoff from water since the ditch was built, increasing aquatic diversity along the way.

18. Social/Cultural Benefits – ORS 541.673(4)

- a. The promotion of public health and safety and of local food systems:

This project will help protect the local agricultural economy and help sustain the possibility of a local food system.

- b. A measurable improvement in conditions for members of minority or low-income communities, economically distressed rural communities, tribal communities or other communities traditionally underrepresented in public processes:

Maintaining the viability of this waterway by piping will continue to provide local farm jobs, which typically benefit minority and low-income individuals. South Wasco County is an especially low income area. Historically this area has grown irrigated wheat and irrigated forage for hay and pasture. Increasingly over that last 20 years more and more fruit acres have been added. Apple, pears and blueberry crops have been planted. As these crops are more labor intensive than wheat and forage, they have brought in more and more farm laborers. Some of these jobs are short term migrant jobs, there are also an increasing number of full time positions as well. Also, traditional crops are largely summer seasonal and are dormant in the winter months, but fruit crops require care in the winter, bringing in more opportunities for jobs in the winter.

- c. The promotion of recreation and scenic values:

Although this area has traditionally been an agricultural community, it is increasingly seen as a recreational area. With the building of Pine Hollow came homes that surrounded it. Many of these home were initially weekend homes, but there is an increasing number of permanent residents as well. The reservoir is surrounded by homes and provides many recreational activities, including camping, fishing and boating. These recreational activities provide valuable recreation and economic values to the Wamic/Pine Hollow area, including increased local property values, and jobs in the local economy.

There are two main ditches that fill Pine Hollow, one is the Round Prairie ditch, which is used to supplement the filling of Pine Hollow in the winter from about February 1<sup>st</sup> until the irrigation season starts in April. The other ditch is the Highland Ditch. This is the ditch that BID uses to fill Pine Hollow in the fall after the irrigation season, in the spring

before irrigation season starts, and to keep it full during the irrigation season in the spring and summer.

Without the Highland Ditch it would be impossible to keep Pine Hollow full. The Round Prairie Ditch can fill Pine Hollow by about half, but cannot keep it full during the summer tourist season. The Highland ditch is the main source of water for Pine Hollow, both to fill it and to keep it full. Not only would the impact directly affect the local farmers, as this is their irrigation water, but the general public would also be impacted if Pine Hollow remained relatively empty for a period of time. It is hard to imagine the local tourist and recreation community being able to survive without the Highland Ditch.

- d. Contribution to the body of scientific data publicly available in this state:
  
- e. The promotion of state or local priorities, including but not limited to the restoration and protection of native fish species of cultural significance to Indian tribes:

This project is consistent with:

- Oregon Plan for salmon and watersheds
- WCSWCD long range plan
- Spirit of the Salmon Plan
- ODFW stream flow restoration priority for Badger Creek is medium

- f. The promotion of collaborative basin planning efforts, including but not limited to efforts under Oregon's Integrated Water Resources Strategy:

This projects fits into the goals of USDA/NRCS/White River Regional Conservation Partnership Program.

## VIII. Project Budget

**Instructions:** Please answer the following questions about the proposed project budget using the tables provided. All Loan and Other Funds must be allowable costs as described in the Department's Grant Budget Procedures and Allowable Costs document.

- 19. Please provide an estimated line item budget for the proposed project. Examples include: direct project specific costs, such as in-house staff salary, contractual services, travel and administrative costs. See the Department's Budget Procedures and Allowable Costs on the OWRD Funding Opportunities Forms webpage for further guidance.



future funding application will be submitted, identify the funding program, and provide evidence that the project is eligible for the funding program identified.

Match Funding Source (if in-kind, briefly describe the nature of the contribution)	Type (✓ only One)	Status (✓ only One)	Amount/ Dollar Value	Date Match Funds Available (Month/Year)
BID	<input checked="" type="checkbox"/> cash <input checked="" type="checkbox"/> in-kind	<input checked="" type="checkbox"/> secured <input type="checkbox"/> pending	\$20,000	4/2019
Wasco Co. Soil & Water Conservation District	<input type="checkbox"/> cash <input checked="" type="checkbox"/> in-kind	<input type="checkbox"/> secured <input checked="" type="checkbox"/> pending	\$6,400	Winter/Spring 2020
OWEB	<input checked="" type="checkbox"/> cash <input type="checkbox"/> in-kind	<input type="checkbox"/> secured <input checked="" type="checkbox"/> pending	\$450,000	Winter/Spring 2020
DEQ Loan	<input checked="" type="checkbox"/> cash <input type="checkbox"/> in-kind	<input type="checkbox"/> secured <input checked="" type="checkbox"/> pending	\$273,600	Winter/Spring 2020

### X. Storage-Specific Project Requirements (if not a storage project skip this section)

**Instructions:** If your proposal is for a storage project that will divert water under an existing or new storage water right permit or limited license, answer questions 22 through 24 in this section. If your proposal is for above-ground storage, also answer question 25 and 26. All other projects can skip this section of the application.

21. Identify Storage Project Type:      Above-Ground      Below-Ground

22. Indicate the capacity of the storage project and any new-developed water below:

- a. What will be the *total* capacity of the storage project in acre-feet after project implementation?
- b. What will be the volume of the *newly-developed* water in acre-feet?

23. Answer the following “Yes/No” questions about the storage project.

- a. Will the project divert more than 500 acre-feet of surface water annually?  
Yes      No
- b. Will the project impound surface water on a perennial stream?     Yes      No
- c. Will the project divert water from a stream that supports sensitive, threatened or endangered species?     Yes      No

If you answered “yes” to **any** of the questions above, (a), (b), or (c), the project will need a *Seasonally Varying Flow (SVF) Prescription*, determining the duration, timing, frequency and volume of flows (including ecological base flow), necessary for protection and maintenance of biological, ecological, and physical functions outside of the official irrigation season. The Department will establish the SVF prescription after funding is awarded, for more information about what this requirement entails, please contact Water Development Coordinator, Rachel LovellFord at (503) 986-0941.

24. **For Above-Ground Storage Only:** If you answered “yes” to Question 23 (a), (b), or (c) above, your proposed project is above-ground storage, **and you are requesting grant funding then a minimum of 25%** of the newly developed water must be dedicated to instream use. This is separate from the SVF Prescription.

Please identify the percentage of stored water to be dedicated to instream use.

    %

*Note: Any storage project dedicating at least 25% of stored water to instream use will automatically receive a scoring bump in the environmental public benefit category. **If awarded funding, the percentage identified below will be a condition of funding.***