



State of Oregon
Water Resources Department
 725 Summer Street NE, Suite A
 Salem, Oregon 97301-1266
 (503) 986-0900

Application for Allocation and Use of Conserved Water

If your application is found to be incomplete, inaccurate or does not include the required fees, we will return it to you. If any requested information does not apply to your application, insert "n/a." If you need additional space to answer any of the questions, attach a separate sheet of writing paper and reference the section number and question. 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/BUSINESS NAME Dee Irrigation District		PHONE NO. 541-354-3125	ADDITIONAL CONTACT NO. 541-806-3248
ADDRESS 4835 O'Leary Road			FAX NO. 541-354-3125
CITY Hood River	STATE OR.	ZIP 97031	E-MAIL** dah1947@live.com

2. AGENT INFORMATION

The agent is authorized to represent the applicant in all matters relating to this application.

AGENT/BUSINESS NAME Confederated Tribes of Warm Springs		PHONE NO. 541-352-9326	ADDITIONAL CONTACT NO.
ADDRESS 6030 Dee Hwy.			FAX NO. 541-352-9365
CITY Parkdale	STATE OR	ZIP 97041	E-MAIL** jmccanna@hrecn.net

**** BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.**

3. IRRIGATION & WATER CONTROL DISTRICTS

Is the project within the boundaries of an irrigation district or water control district?

Yes No

If yes, include Exhibit E and list the name and mailing address of the district:

Dee Irrigation District, 4835 O'Leary Road, Hood River, OR. 97031

Did an irrigation district organized under ORS Chapter 545 or a water control district organized under ORS Chapter 553 file this allocation of conserved water?

Yes No

If yes, when was the District's OAR 690-018-0025 allocation of conserved water policy adopted? May 15, 2012. See Exhibit F.

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4. CURRENT WATER RIGHT INFORMATION

A separate page providing the information in Section 4 must be completed for each certificate, permit, decree, or other right involved in the proposed allocation of conserved water.

Water Right Subject to Transfer (check and complete **one** of the following):

<input checked="" type="checkbox"/> Certificated Right	<u>39048 and 39049</u> Certificate Number	<u>165 and 18546</u> Permit Number or Decree Name
<input type="checkbox"/> Adjudicated, Un-certificated Right	_____ Name of Decree	_____ Page Number
<input type="checkbox"/> Permit for which Proof has been Approved	_____ Permit Number	_____ Date Claim of Beneficial Use Submitted
<input type="checkbox"/> Transferred Right for which Proof has been Filed	_____ Previous Transfer Number	_____ Date Claim of Beneficial Use Submitted

Name on Permit, Certificate, or Decree: Dee Irrigation District
County: Hood River

Provide the following information about the water right of record:

- Priority Date: Cert. 39048 9/13/1909 - Cert. 39049 3/7/1931
- Source of Water: Cert. 39048 West Fork Hood River - Cert. 39049 Unnamed Creek, Camp Creek and Deer Creek
- Type of Use: Irrigation

Does the application have a water right involving more than one water right holder?

Yes No

If yes, are all water right holders applying for this allocation of conserved water?

Yes No. If no, see Exhibit J.

A) What is the maximum rate and annual duty (volume) of water that may be diverted as stated on the water right of record? *(If the water right is only limited by rate, do not list a duty, and conversely, if the water is only limited by duty, do not list a rate.)*

- Rate* (cfs): Cert. 39048 (9.22 cfs) - Cert. 39049 (15.22 cfs)
Note: 1 miner's inch = 1/40 cfs; 1 cfs = 448.8 gpm
- Duty* (acre feet): Cert. 39048 (3.0 af/acre) - Cert. 39049 (3.0 af/acre)
Note: 1 cfs = 1.983471 ac-ft/day

* If there are multiple **Priority Dates** on the water right, list the rate and duty by priority date.

B) What is the maximum amount of water that can be diverted using the pre-project facilities? *(If the water right is only limited by rate, do not list a duty, and conversely, if the water is only limited by duty, do not list a rate.)*

- Rate (cfs): 31.01 cfs - See Attachment A.
- Duty (acre feet): 3.0 af/acre X 737.3 acres = 2,211.90 af/year

C) Describe the pre-project water delivery system. Include information on the diversion structure, pumps, and conveyance facilities (including canals, pipelines and sprinklers used to divert, convey and apply the water at the authorized place of use). *Provide sufficient detail to confirm that the applicant is ready, willing, and able to exercise the right.*
See Attachment B.

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5. CONSERVATION MEASURES

A) Describe the type of project, check all that apply:

- On-Farm efficiency project
- Distribution project, such as a ditch piping or lining project
- Other, _____

B) Describe the proposed changes to the physical system, operations and application methods that will result in the conservation of water. If these proposed changes will change the point of diversion, see point of diversion requirement for Exhibit B. *Provide sufficient detail for public noticing the project.*

The four mile long Dee Irrigation District open main canal will be piped for water conservation purposes. A 36" high density polyethylene pipe will be installed within the existing open canal alignment and the existing pipe segments will be inspected for leaks and reinstalled. Pipe installation will conserve water lost to leakage and evaporation. The Deer Creek diversion will be decommissioned and fish passage will be restored at the diversion site. Fish passage will also be restored at the Unnamed and Camp Creek diversions.

C) Place of Use*: N/A

Township	Range	Section	Quarter/Quarter	Total No. Acres
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* Not required for a distribution project that does not propose to affect the on-farm rate or duty. If the entire water right is being affected, just state "entire right affected."

6. CONSERVED WATER

A) What amount of water will be needed for the existing, authorized use after implementing conservation measures? (If the water right is only limited by rate, do not list a duty, and conversely, if the water is only limited by duty, do not list a rate.)

- 1. Rate* (cfs): Cert. 39048 (6.22 cfs) - Cert. 39049 (5.0 cfs)
- 2. Duty* (acre feet): 3.0 af/acre

* If there are multiple **Priority Dates** on the water right, list the rate and duty by priority date.

B) What amount of water will be conserved as a result of the implementation of the conservation measures? Subtract 6A from the smaller of 4A or 4B under "irrigation system" above.

- 1. Rate* (cfs): Cert. 39048 (3.0 cfs) - Cert. 39049 (7.22 cfs)
- 2. Duty* (acre feet): NA

* If there are multiple **Priority Dates** on the water right, list the rate and duty by priority date.

C) What portions of the conserved water will be allocated to the state and applicant?

- 1. Portion going to the state (list by percent, rate and duty):
100 Percent 10.22 Rate (cfs) NA Duty (AF)
- 2. Portion going to the applicant (list by percent, rate and duty):
_____ Percent _____ Rate (cfs) _____ Duty (AF)

D) The priority for the conserved water is requested to be:

- The same as the original right, or
- One minute junior to the original right.

E) If all or part of the applicants' portion of the conserved water is to be used for an out-of-stream use at an identified location:

- 1. Name and address of the person using the water: _____
- 2. Description of the type of beneficial use of the water: _____
- 3. Legal description of the place of use: _____

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F) If all or part of the applicants' portion of the conserved water is to be leased*, dedicated or temporarily reserved instream, a statement identifying the quantity of water to be managed as an instream water right: _____

** Water can be temporarily protected instream without filing an OAR 690-077 Instream Lease application.*

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7. LOCATION OF PROPOSED USE

- A) For new out-of-stream uses, describe the boundaries of the expected area within which the diversion structures and places of use of the applicants' conserved water right would be located. This is land other than that to which this water right is appurtenant. See Exhibit B.

N/A. All conserved water will be used instream.

- B) For instream uses, to the extent possible, identify the stream reach(es) for which the state's portion of the conserved water should be managed under an instream water right. Be as explicit as possible, by giving river miles, or other identifying information that might be included in the instream certificate. The conserved water will be managed under an instream water right from the DID point of diversion on the West Fork (approximately River Mile 6.2) to the mouth of the West Fork at its confluence of the East Fork of the Hood River (River Mile 0).

- C) Describe the proposed benefit to instream uses.

for instream use for conservation, maintenance and enhancement of aquatic and fish life, wildlife, fish and wildlife habitat and other ecological values.

other, please describe: _____

8. MITIGATION

- A) Describe any expected effects on other water rights from the proposed allocation of conserved water. Identify what currently happens to the water that is proposed to be conserved.

There are no other water rights with points of diversions between the DID point of diversion and the mouth of the West Fork; therefore, no other water rights will be effected by the proposed allocation of conserved water. The water that is proposed to be conserved currently leaks or evaporates from the existing canal and is either consumed by vegetation along the canal route, seeps into the ground or returns to the West Fork some miles downstream from the DID point of diversion.

- B) Describe any mitigation or other measures that are planned to avoid harm to other water rights.

N/A

9. FUNDING

If more than 25% of the conserved water is proposed to be allocated to the applicant then provide Exhibit C and identify what portion of project funds (expressed as a percentage) come from federal or state public sources that are not subject to repayment. 100%

Does the Oregon Watershed Enhancement Board (OWEB) have a contractual interest in this project?

Yes No

If yes, what is the OWEB project number? 212-4001

10. PROJECT SCHEDULE

If project is not yet complete:

Proposed date construction has/will begin: August 1, 2012

Proposed date construction will be completed and notice of project completion will be filed: March 31, 2013

Proposed date the project will be finalized: May 31, 2013

If project is already complete:

Date it was implemented: _____ (Provide Exhibit K)

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The applicant requests:

- That the allocation be finalized, or
- Additional time be granted to prove that the project worked to the applicant's satisfaction before finalizing the allocation of conserved water. Indicate the amount of time desired 5 (up to five years after completion of the project may be allocated).

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11. ACKNOWLEDGMENT OF FORFEITURE

Complete this if the Certified Water Right Examiner's map shows less acreage has been irrigated over the past five years than allowed under the right.

I am aware that N/A acre(s) have not been irrigated for the last five years and I am abandoning that portion of the water right and make no further claim for the water. I ask that this N/A acre(s) portion of the right be permanently canceled.

12. EXHIBITS

Check each of the following attachments included with this application. All attachments are required unless otherwise noted. The application will be returned if all required attachments are not included.

Exhibit (Form) A – Evidence of Use Affidavits

- Provide if 1) it is an on-farm efficiency project, or 2) specific acreage is being affected by the project. Consult with Department staff regarding the evidence needed for distribution projects. At least one Evidence of Use Affidavit documenting that the right has been used during the last five years or that the right is not subject to forfeiture under ORS 540.610 is attached. The affidavit provided must be the original, not a copy. The form is available at http://www.wrd.state.or.us/OWRD/PUBS/docs/forms/Evidence_of_Use_Form_3_01_10.pdf.

Exhibit B – Map

- Provide if the entire water right is not part of the conservation project and/or new lands shall receive water. Consult with Department staff if there is any question regarding the need for submittal. See OAR 690-018-0040(17) and 690-018-0062(3)(a).

Exhibit C - Project Funding Description

- Provide if more than 25% of water goes to applicant. See OAR 690-018-0040(18).

Exhibit D – Identification and Resolution of Water Right Conflicts

- Provide if construction has begun or been completed and if more than 25% of the project costs have been expended prior to filing this application. See OAR 690-018-0040(19).

Exhibit E – Letter of Approval from the Irrigation District

- Provide if project is located within boundaries of an irrigation district and the district is not the applicant. See OAR 690-018-0040(20).

Exhibit F – District Conserved Water Policy

- Provide if applicant is an Irrigation District or Water Control District. See OAR 690-018-0040(21) & 690-018-0025.

Exhibit G - Land Use Information Form

- See OAR 690-018-0040(22). The land use form is available at: http://www.wrd.state.or.us/OWRD/PUBS/docs/forms/Land_Use_Form_3_01_10.pdf

Exhibit H - Ownership & Lien Information

- Provide if application involves:
- on-farm efficiency project, and/or
 - distribution project affecting specified lands. Provide a report of ownership and lien information or a current recorded deed to the subject lands.

Exhibit I – Support Letters from ODFW, DEQ and OPRD

- Letters from ODFW, DEQ, and OPRD indicating that they have been consulted and indicating that at least one of the agencies attests that conserved water is needed to support instream uses. See OAR 690-018-0050(4)(f).

Exhibit J –Water Right Clarification & Notification of Affected Persons

- Provide if the application involves water rights for
- lands under multiple ownerships and not all of the water right holders are applicants, and the project is not being submitted by a District as a distribution project and/or
 - which the current final proof survey maps for lands involved in the application do not adequately describe the location of the place of use or the associated priority dates of the associated water rights

Consult with Department staff if there is any question regarding the need for submittal.

Exhibit K –Evidence that the Project was Implemented Within 5 Years.

- Provide if project was completed before application submittal. See OAR 690-018-0040(12)(a).

Fees:

- Amount enclosed: \$ 575
See OAR 690-018-0040(25) and the Department's Fee Schedule at www.wrd.state.or.us/OWRD/PUBS/forms.shtm#fees or call (503) 986-0900.

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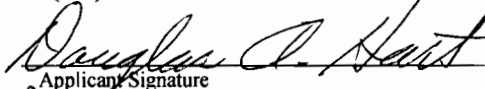
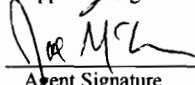
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13. SIGNATURE

I understand that prior to Department approval of the allocation of conserved water, I may be required to submit payment to the Department for publication of a notice in a newspaper with general circulation in the area where the water right is located, once per week for two consecutive weeks. If more than one qualifying newspaper is available, I suggest publishing the notice in the following paper: Hood River News

I (we) affirm that the information contained in this application is true and accurate.

 Applicant Signature	<u>Douglas A. HART</u> Name (print)	<u>07/20/12</u> Date
 Agent Signature	<u>Joe McLanna</u> Name (print)	<u>7/20/12</u> Date

Before submitting your application, be sure you have:

- Answered each question completely.
- Included the required attachments.
- Provided original signatures for all water right holders or other parties with an interest in the right.
- Included a check payable to the Oregon Water Resources Department for the appropriate amount.

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DEE IRRIGATION DISTRICT

ALLOCATION OF CONSERVED WATER POLICY

The Dee Irrigation District (District) proposes to undertake a conservation measures, including, but not limited to, improvements to the District's diversion facilities on the West Fork of the Hood River, piping of the District's main canal to eliminate leakage loss along the canal route and other projects that may be proposed in the future. Before initiating the Project, the District must adopt a conserved water policy. The purpose of the policy is to provide District members with the information required by OAR 690-018-0025 and to set the procedures by which the policy shall be implemented.

A. **Definitions.** The following definitions shall apply in this policy:

1. **"Commission"** means the Water Resources Commission
2. **"Conservation"** means the reduction of the amount of water diverted to satisfy an existing beneficial use achieved either by improving the technology or the method for diverting, transporting, applying or recovering water or by implementing other approved conservation measures.
3. **"Conserved Water"** means that amount of water that results from conservation measures, measured as the difference between:
 - a. The smaller of the amount stated on the water right or the maximum amount of water that can be diverted using the existing facilities; and
 - b. The amount of water needed after implementation of conservation measures to meet the beneficial use under the water right certificate.
4. **"Director"** means the Director of the Oregon Water Resources Department.
5. **"District"** means the Dee Irrigation District, an irrigation district formed under Oregon Revised Statutes, Chapter 545.
6. **"District Member"** means the owner of land situated within the District and subject to assessments of the District.
7. **"District Allocation"** means the amount of Conserved Water allocated by order of the Director.
8. **"Funding Member"** means a member of the District that funds all or a portion of a water conservation project as provided in paragraph C of this Policy.

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- 9. **“Project”** means the conserved water project to be undertaken by the District to reduce the amount of water diverted under water right Certificates 39048 and 39049.

B. Policy of Board. Conservation Measures

- 1. Conserved water projects undertaken pursuant to ORS 537.455 through 537.500 are intended to reduce water transmission loss within the District’s conveyance system, improve on-farm water use efficiency; and allocate conserved water in accordance with OAR 690-018-0012.
- 2. Conserved water may be allocated by the District as follows:
 - a. 25% to the state for in-stream flow enhancement and 75% to the District, unless the District proposes a higher allocation to the state or more than 25% of the funds used to finance the conservation measures comes from federal or state public resources; or
 - b. Up to 100% to the State for in-stream flow enhancement.
- 3. **Members May Fund Part of Water Conservation Project.** Members may fund a portion of a water conservation project in an amount that is proportionate to the member’s share of the water rights involved in the conservation project.

Members that provide funding to the District for a water conservation project in advance, or within one year of the District first making expenditures for the conservation project shall be a Funding Member and receive the portion of the District Allocation to which the Funding Member is entitled under this Policy.

Proportionate costs will include all costs associated with the completion of the project, including costs associated with the planning and design of the project, application and processing fees, including but not limited to legal and consulting fees to secure a final order from the Oregon Water Resources Department, and/or costs of response to any legal challenges subsequent to receipt of the Final Order until conclusively resolved as determined by the Board of Directors:

Example Project: (based upon conserving 7.0 cubic feet per second)

Total project cost	\$ 2,400,000.00
Total conserved water	7.00 cfs
Minimum In-Stream contribution (25%)	1.75 cfs
Net available for additional irrigation	5.25 cfs
Cost per cubic-foot per second	\$457,142.86/cfs

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4. Allocation of Conserved Water. Except for a Funding Member, no member shall be entitled to any of the District Allocation other than the amount necessary to maintain the member's full rate and duty at its regular turnout(s). A Funding Member shall be entitled to a portion of the District Allocation equal to the percentage of the funding for the water conservation project paid to the District by the Funding Member.

C. Petitions to Vote on Policy. District Members may petition the Board to hold a vote of all District Members on the approval of this Policy. The petition must be signed by fifteen percent (15%) of the total number of votes that may be cast in an election for recall of a director pursuant to ORS 545.189(1) to be valid and to cause the District to hold a vote. Upon receiving a valid petition, the District shall hold a vote of all District members. The vote shall be whether to approve or reject this Policy. The vote shall be conducted according to the laws and procedures that govern District elections.

D. Appeal of Water Conservation Projects. Proposed conserved water projects shall be discussed and approved by the Board at any regularly scheduled Board meeting. Members may comment on the proposed conserved water project during the Board meeting at which the project is discussed.

If the Board approves a proposed conserved water project, any member in good standing may appeal the Board's decision in writing within two weeks from the date of the Board's decision to approve a project. The appeal shall include the name, address, and telephone number of the member appealing the Board's decision, a concise statement of the reasons the member believes the proposed conserved water project does not comply with this Policy, and a concise statement of how the conserved water project should be modified to comply with this Policy.

The Board shall consider a properly filed appeal at its next regularly scheduled meeting. The Board shall limit its consideration to whether the proposed water conservation project complies with this Policy. The member appealing the Board's decision shall have an opportunity to address the Board concerning the member's appeal.

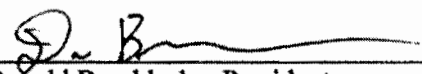
The Board may take any of the following actions:

1. Grant the appeal and reject the proposed conserved water project;
2. Modify the proposed water conservation project as recommended by the appealing member to comply with this Policy;
3. Direct the District Manager to modify the proposed conserved water project so as to comply with this Policy; or
4. Reject the appeal and approve the proposed conserved water project as proposed.

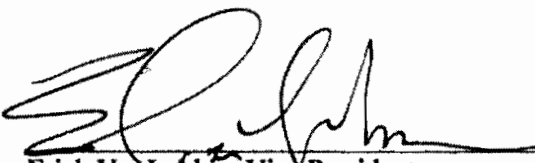
E. Policy Review and Updates. The Board shall review and may update this Policy at the first regularly scheduled Board meeting following every fifth anniversary of the Board either adopting or reviewing and updating this Policy. The Board may, in its sole discretion, review and update this Policy at any other regularly scheduled Board meeting. The Board shall follow the process and provisions of this Policy, as required by OAR 690-018-1125(2), whenever reviewing and updating this Policy.

F. Applicability. This Policy applies only to applications for allocations of conserved water filed with the Oregon Water Resources Department by the District. This Policy does not apply to applications for allocations of conserved water filed by individuals, including District members. Individual district members may file applications for allocation of conserved water only with prior written consent of the District.

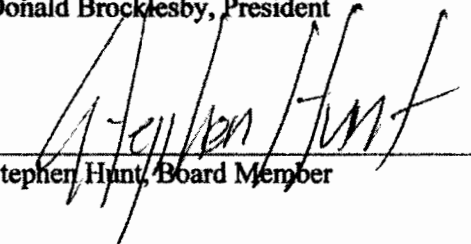
Adopted this 15th day of May, 2012.



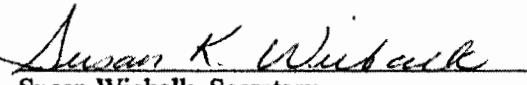
Donald Brocklesby, President



Erick VonLubkin, Vice President



Stephen Hunt, Board Member



Susan Wiebalk, Secretary

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Douglas A. Hart, Manager
Dee Irrigation District
4835 O'Leary Road
Hood River, OR 97031

June 15, 2012

RE: Dee Irrigation District Allocation of Conserved Water Policy

To all Dee Irrigation District Patrons:

This letter is a follow-up to my May 28, 2012, letter describing the Dee Irrigation District (DID) conserved water project. My May 28 letter set out the details of the project and provided a summary of the DID water rights, the amount of water to be conserved and the amount of water that will remain for irrigation of the DID lands.

Before initiating a conserved water project, state law requires the Board of Directors (Board) to adopt a conserved water policy (Policy). (I attached a copy of the Draft Policy to my May 28 letter.) The Policy requires that the Board provide the following information to the patrons:

- Under the rules of the Oregon Water Resources Department (WRD), if DID were privately funding the proposed conserved water project, it could receive up to 75% of the conserved water, with 25% allocated to instream flow.
- Since 100% of the funding of the project is through the Confederated Tribes of the Warm Springs Reservation (CTWS), 100% of the conserved water must be allocated to instream flow.
- However, a District patron may receive a share of the conserved water if he/she funds a share of the conservation project that is proportionate to the patron's share of the water rights involved in the project. (Section B.3, on page 2 of the Policy, explains how a patron can fund a share of a project and receive a proportionate share of the conserved water. This explanation includes a cost-sharing example.)
- District patrons may petition for a vote by all District patrons on the Policy.
- District patrons may appeal the proposed conservation project to the Board for failure to follow the policy.

The Policy authorizes the President of the Board or his designee to file an Application for Allocation and Use of Conserved Water with the WRD.

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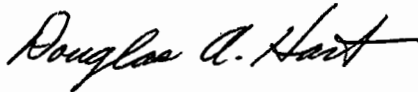
Douglas A. Hart
Dee Irrigation District
June 15, 2012
Page Two

Once the policy is adopted, the DID Board plans to file the conserved water application with the WRD.

Please review my May 28 letter along with the Draft Policy that was enclosed with that letter and contact me if you have any questions. You can send an E-mail to me at dah1947@live.com or call me at (541) 806-3248.

Thank you for your attention to this matter.

Sincerely,



Douglas A. Hart
General Manager

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AFFIDAVIT OF DOUGLAS A. HART

STATE OF OREGON)
) ss.
County of Hood River)

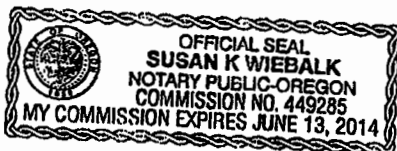
I, Douglas A. Hart, being duly sworn, depose and state that the following is true and accurate to the best of my personal knowledge and belief:

1. My name is Douglas A. Hart. I am the manager of the Dee Irrigation District (District). I have been manager of the District for twelve years. The District is an Oregon irrigation district formed under Oregon Revised Statute Chapter 545. The District currently has 65 members (patrons). I am familiar with the District and its operation. My duties include operation of the District's diversion and conveyance facilities, allocation and delivery of water to the District's patrons, maintenance of the District's facilities and providing notice to the District's patrons on matters related to the management and operation of the District.
2. The District holds water right Certificates 39048 and 39049 for use of water from the West Fork of the Hood River and its tributaries for irrigation of 737.3 acres.
3. The District proposes to undertake a conserved water project under Oregon Administrative Rule (OAR) Chapter 690, Division 18. The conserved water project proposes to reduce the amount of water the District has historically diverted by improving the technology and method for diverting and transporting water.
4. In accordance with OAR-018-0025, the District's Board of Directors (Board) must adopt an Allocation of Conserved Water Policy (Policy). In adopting the Policy, the District must provide notice to its patrons concerning adoption of the Policy and the patrons' rights under the Policy and State law. The Board elected to provide notice to its patrons by letter to each patron.
5. On June 15, 2012, I deposited a letter in the United States mail addressed to each District patron. The letter was sent by first class mail, postage pre-paid. An exact copy of the letter mailed to each patron is attached to this Affidavit.

Douglas A. Hart

Douglas A. Hart, Manager
Dee Irrigation District

Signed and sworn to before me this 16th day of June, 2012.



Susan K. Wiebalk

Notary Public for Oregon
My Commission Expires: 6/13/14

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Dec Irrig. Dist. **Receipt for Request for Land Use Information**

Applicant name: (Joe McCanna, Couped. Tribes of Warm Springs)

City or County: Hood River Co. Staff contact: Joette Sniffette

Signature: Joette Sniffette Phone: (541) 387-6840 Date: 6-29-12

Revised 2/8/2010 Land Use Information Form - Page 3 of 3 WR / FS

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Oregon

John A. Kitzhaber, MD, Governor

Department of Fish and Wildlife

Mid-Columbia Field Office

3701 West 13th Street

The Dalles OR 97058

(541) 296-4628

(541) 298-4993

www.dfw.state.or.us



March 30, 2011

Oregon Watershed Enhancement Board
775 Summer St. N.E. Ste 360
Salem, OR 97301-0178

Re: Dee Irrigation District Piping and Passage Project

Dear OWEB Review Board:

The Oregon Department of Fish and Wildlife (ODFW) would like to express support for the Dee Irrigation District (DID) Piping and Passage Project. Implementation of this project will provide substantial benefits to both Dee Irrigation District and the aquatic environment of the West Fork Hood River.

The West Fork Hood River and its tributaries contain high quality spawning and rearing habitat for steelhead and Chinook salmon, which are listed as a threatened species under the Endangered Species Act, along with other indigenous resident fish species. The Lower Columbia River Recovery and Conservation Plan for Oregon Populations of Salmon and Steelhead identified reduced stream flow as a primary limiting factor for Hood River populations. The Plan further acknowledged restoring stream flow as a key recovery action.

The DID diversion diverts water directly from the Hood River at approximately rivermile 7.0, along with diversions from several small tributaries, for a combined diversion rate of 16.88 cfs. During summer low flow periods, the diversion removes nearly 50% of the available water of the West Fork Hood River. As water is limited throughout the Hood River Subbasin, this diversion has an adverse effect on fish production and water quality downstream.

The existing diversion and delivery canal is aging, leaks, and frequently fails, resulting in more water being diverted than is needed for irrigation and increased sedimentation into the West Fork Hood River from canal failures. The proposed piping project will increase efficiency of the delivery system eliminating sedimentation; the DID has agreed to enter into a conserved water agreement that will put water savings from the increased efficiency of the project back into the West Fork Hood River.

The implementation of the proposed piping project will benefit water quality and fish habitat in the West Fork Hood River. Please feel free to contact me, if you have further questions regarding ODFW's support for this grant application.

Sincerely,

Rod A. French
Mid-Columbia District Fish Biologist

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SALEM, OREGON





April 30, 2012

Joe McCanna
Confederated Tribes of Warm Springs
6030 Dee Highway
Parkdale, Oregon 97041

Re: Irrigation Canal Capacity

Dear Joe:

In order to determine the capacity of the irrigation canal, we looked at cross sections of the canal at six randomly chosen sites along the canal. At each site the cross sectional area was determined for a 1-foot freeboard. An average area was computed for the canal using 1 foot of freeboard. Once the average cross sectional area was determined, the cross section with the closest area was plotted. The cross section data was then entered into the Bentley FlowMaster computer program to determine the capacity of the canal. To determine maximum capacity, the minimum slope of the canal, 0.0002 feet per foot, was used.

FlowMaster computed the flow in the canal to be 31.01 cubic feet per second, as can be seen on the attached printout. The documents showing the information for the cross sections, canal slope, and computer printout are attached for your reference.

If you have any questions, please call me.

Sincerely,

ANDERSON PERRY & ASSOCIATES, INC.

By 
Lyle Umpleby

LU/cw

Enclosures

cc: Doug Hart, Dee Irrigation District
File No. 1199-447-02 (w/encl.)

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- La Grande, Oregon 97850 / 1901 N. Fir Street, P.O. Box 1107 / (541) 963-8309, Fax (541) 963-5456
- Walla Walla, Washington 99362 / 214 E. Birch Street, P.O. Box 1687 / (509) 529-9260, Fax (509) 529-8102

**Dee Irrigation District
Irrigation Canal Capacity Calculations
Random Cross Sections**

Station	12-inch Freeboard	18-inch Freeboard
5+00	42.66	35.80
40+00	30.03	24.44
72+00	31.53	25.98
105+00	37.36	31.66
140+00*	36.00	29.69
151+00	37.17	30.22
Total	214.75	177.79
Average	35.79 ft²	29.63 ft³

* Plotted

Dee Irrigation Canal Cross Sections from AutoCAD

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No.	PVI Station	PVI Elevation	Grade In	Grade Out	A (Grade Change)	Profile Curve Type
1	1+00.00'	1311.160'		0.00%		
2	1+37.98'	1311.160'	0.00%	-0.19%	0.19%	
3	4+94.97'	1310.490'	-0.19%	-0.03%	0.16%	
4	28+60.29'	1309.750'	-0.03%	-0.26%	0.23%	
5	29+35.88'	1309.550'	-0.26%	-0.03%	0.23%	
6	65+67.74'	1308.400'	-0.03%	-0.14%	0.11%	
7	66+40.69'	1308.300'	-0.14%	-0.09%	0.04%	
8	77+63.87'	1307.250'	-0.09%	-0.02%	0.07%	
9	98+53.01'	1306.800'	-0.02%	-0.05%	0.03%	
10	125+38.68'	1305.360'	-0.05%	-0.19%	0.13%	
11	126+51.16'	1305.150'	-0.19%	-0.02%	0.17%	
12	156+92.98'	1304.510'	-0.02%	-0.03%	0.01%	
13	214+95.01'	1302.735'	-0.03%	-0.06%	0.03%	
14	235+75.00'	1301.386'	-0.06%			

<u>DIVERSION</u>	<u>STATION</u>	
1	START	
2	29+40	Camp Creek
3	65+60	
4	125+35	

Ave Slope = -0.0925%

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SALEM, OREGON

Dee Irrigation District Canal Flow

Project Description

Friction Method Manning Formula
 Solve For Discharge

Input Data

Channel Slope 0.00020 ft/ft
 Normal Depth 3.90 ft *± 1 ft. Freeboard*
 Section Definitions

Station (ft)	Elevation (ft)
-0+08	1310.00
-0+07	1309.00
-0+06	1307.70
-0+05	1306.30
-0+05	1305.70
-0+04	1305.60
-0+03	1305.50
-0+02	1305.30
-0+01	1305.00
0+00	1305.10
0+01	1305.30
0+02	1305.60
0+03	1305.90
0+04	1306.80
0+05	1307.80
0+06	1309.00
0+07	1310.20

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(-0+08, 1310.00)	(0+07, 1310.20)	0.040

Results

Discharge 31.01 ft³/s

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Dee Irrigation District Canal Flow

Results

Elevation Range	1305.00 to 1310.20 ft	
Flow Area	35.00	ft ²
Wetted Perimeter	15.99	ft
Top Width	12.84	ft
Normal Depth	3.90	ft
Critical Depth	1.19	ft
Critical Slope	0.02808	ft/ft
Velocity	0.89	ft/s
Velocity Head	0.01	ft
Specific Energy	3.91	ft
Froude Number	0.09	
Flow Type	Subcritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	3.90	ft
Critical Depth	1.19	ft
Channel Slope	0.00020	ft/ft
Critical Slope	0.02808	ft/ft

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WATER RESOURCES DEPT
SALEM, OREGON

DEE IRRIGATION DISTRICT

Application for Allocation and Use of Conserved Water

ATTACHMENT B

4. CURRENT WATER RIGHT INFORMATION

C) Describe the per-project water deliver system for Certificates 39048 and 39049.

The Dee Irrigation District (DID) water delivery system was initially developed around the turn of the 20th century. In 1909, DID secured water right Certificate 39048 to appropriate water from the West Fork of the Hood River for irrigation of 737.3 acres. Certificate 39048 authorizes diversion of 9.22 cubic feet per second (cfs) for primary irrigation under a September 13, 1909, priority date. The amount of water diverted under Certificate 39048 is limited to one-eightieth of a cfs per acre and 3.0 acre feet per acre during the irrigation season of each year. DID diverts water under Certificate 39048 from the West Fork at River Mile 6.2 and conveys the water through a four-mile-long open canal to Dee, Oregon.

By the 1930s it became apparent that one-eightieth of a cfs per acre did not provide an adequate water supply for many of the crops in the Hood River Basin, including crops in the DID. In 1931, DID secured water right Certificate 39049 to appropriate water from several small tributaries of the West Fork to augment irrigation of its 737.3 acres. Certificate 39049 authorizes diversion of 15.22 cfs from Unnamed Creek, Camp Creek and Deer Creek for supplemental irrigation under a March 7, 1931, priority date. The amount of water diverted under Certificate 39049 is limited to one-fortieth of a cfs per acre and 3.0 acre feet per acre during the irrigation season of each year. This supplemental right permitted DID to increase its diversion rate from one-eightieth to one-fortieth of a cfs per acre for the 737.3 acres listed in the two certificates. Water is diverted under Certificate 39049 from the three named tributaries that cross the canal at various points along the canal route.

DID's diversion and conveyance system is much the same as originally constructed, with a few short sections of the old canal now enclosed in pipe. (See attached map.) The main diversion on the West Fork consists of a boulder push-up dam and a 36" gate-valve headgate. Water is diverted through the headgate into a 36" steel pipe for about 1/4 mile, transfers to an open canal, and back to a 36" steel pipe as it crosses Unnamed Creek. The water then flows into the open canal to a fish screen facility. Unnamed Creek is diverted into the canal at this point. The Unnamed Creek diversion is a concrete structure that spans the width of the stream and is controlled by dam boards. Water is diverted into the canal via a 12" CMP pipe. The Camp Creek and Deer Creek diversion facilities are identical to those at the Unnamed Creek diversion and are located approximately two and three miles downstream, respectively. The Deer Creek diversion site is also the water-gaging station, where the accumulation of all the water sources being used is calculated. About 1½ miles beyond this site, the water enters the Dee community.

The entire DID conveyance system is gravity fed, with an overall drop of approximately nine feet. At Dee the water is distributed into four mainlines. Each mainline, in turn, distributes the water to users along each mainline route. Each mainline has a series of concrete boxes which have metered slots, distributing water according to each user's acreage. Surplus water at the end boxes is discharged back into the West Fork. Once the water is distributed at the boxes, the individual users pump that water into their on-farm irrigation systems.

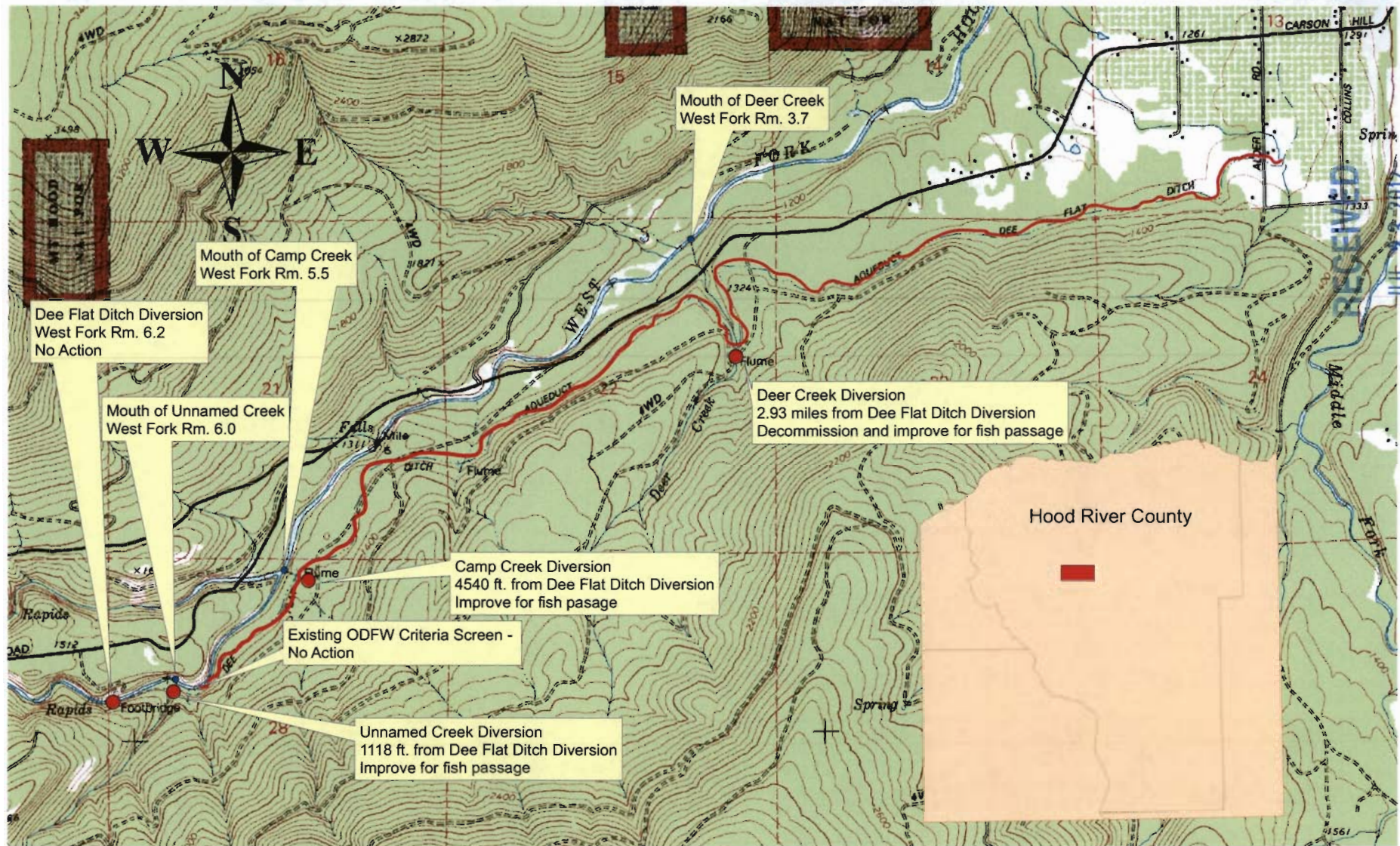
For the past five years DID has had an on-going water awareness program, encouraging re-nozzling and better irrigation practices. To date, many irrigators have changed their irrigation practices and many are in the process of doing so, but there are still a number who have not yet up-dated their systems. Education and an awareness of efficient water use continues to be a DID goal.

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Dee Irrigation District Piping and Passage Project



WATER RESOURCES DEPT
SALEM, OREGON

JUL 28 2012

—	New Pipe Line Construction
●	Diversion Locations and Actions
■	Project Location

Legal Description: T1N, R9E, Sections 13,14, 21-23, 28
 Latitude: 45.34'39" Longitude: -121.38'18"
 HUC Code: 1707010506 Scale: 2-1/4 inch = 1 mile