



CENTRAL OREGON IRRIGATION DISTRICT

1055 SW LAKE COURT, REDMOND, OR 97756

PHONE: 541.548.6047 FAX: 541.548.0243

www.coid.org

A MUNICIPAL CORPORATION OF THE STATE OF OREGON

August 27, 2008

Oregon Water Resources Department
ATTN: Bob Rice
725 Summer St NE Ste A
Salem, OR 97301

Dear Mr. Rice,

Please find enclosed our application for the Water Conservation, Reuse and Storage Grant Program.

COID is requesting funding of \$11,000 for a feasibility study that will total \$23,900.

If you have any questions or concerns regarding this application, please call me at 541-504-7577 or email me at lauraw@coid.org.

Sincerely,

Laura Wollam
Water Use Specialist

Enc

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**WATER RESOURCES DEPT
SALEM, OREGON**



**OREGON WATER RESOURCE DEPARTMENT
WATER CONSERVATION, REUSE AND STORAGE
GRANT PROGRAM**

I. Grant Information

Project Name: I-Lateral Water Conservation Feasibility Study

Type of Grant Requested: Water Conservation Reuse Above Ground Storage
 Storage Other Than Above-Ground [Including Aquifer Storage and Recovery (ASR)]

Program Funding Dollars Requested: \$ \$11,000 Total cost of planning study: \$ \$23,900
Note: Request may not exceed \$500,000


II. Applicant Information

Applicant Name: <i>Steve Johnson</i>	Co-Applicant Name:
Organization: <i>Central Oregon Irrigation District</i>	Organization:
Address: <i>1055 SW Lake Ct Redmond, OR 97756</i>	Address:
Phone: <i>541-548-6047</i>	Phone:
Fax: <i>541-548-0243</i>	Fax:
Email: <i>stevej@coid.org</i>	Email:

Fiscal Officer Name: <i>Priscilla Ross</i>	Principle Contact: <i>Laura Wollam</i>
Organization: <i>Central Oregon Irrigation District</i>	Organization: <i>Central Oregon Irrigation District</i>
Address: <i>1055 SW Lake Ct Redmond, OR 97756</i>	Address: <i>1055 SW Lake Ct Redmond, OR 97756</i>
Phone: <i>541-504-7571</i>	Phone: <i>541-504-7577</i>
Fax: <i>541-548-0243</i>	Fax: <i>541-548-0243</i>
Email: <i>pross@coid.org</i>	Email: <i>lauraw@coid.org</i>

Certification:

I certify that this application is a true and accurate representation of the proposed work for a project planning study and that I am authorized to sign as the Applicant or Co-Applicant. By the following signature, the Applicant certifies that they are aware of the requirements of an Oregon Water Resources Department grant and are prepared to implement the project if awarded.

Applicant Signature:  Date: 27 August 2008
Print Name: Steven C. Johnson Title: COID Secretary/Manager

III. Planning Study Summary

Please give a brief summary of the planning study using no more than 150 words.

COID plans to pipe or line a 1.50 mile section of its I-Lateral located between our I-#2 check weir on BLM land and Willard Rd. in Alfalfa. This study will show if it is feasible to pipe or line this section by addressing the following issues and confirming the estimated water savings of 4.50 cfs. NEPA work will also be completed because COID will seek federal funding for the project.

- 1. Large areas of seeping of canal water through banks causing standing water & deterioration of ditch bank integrity*
- 2. Rodent hole and sink holes which cause deterioration of bank integrity and canal breaches*
- 3. Silt build-up which can cause deterioration of bank integrity and the ditch itself*
- 4. High moss level*
- 5. Very little elevation change between start and end points of the project*
- 6. Above average maintenance costs due to above issues*

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IV. Grant Specifics

Section A. Common Criteria

Instructions: Answer all questions in this section by typing the answer below the question. It is anticipated that completed applications will result in additional pages.

1. Describe how the planning study will be performed. Include:
 - a. A description of the planning schedule/timeline, which includes identifying all key tasks. (Section VI provides an opportunity for a “graphical” representation of the schedule.)
 1. *Beginning preparation: January 2 - January 15, 2009*
 - a. *Mark anticipated start/stop points of project and areas of concern/interest within the project area - COID personnel*
 - b. *Document project area with areas of concern for engineering and environmental work - COID personnel*
 - c. *Schedule engineering work with Kevin Crew - Black Rock Consulting, Inc*
 2. *Engineering work: January 16 - February 28, 2009*
 - a. *Kevin Crew to complete field study of project area*
 - b. *Kevin Crew to complete report documenting engineering feasibility of desired piping/lining project and submit to COID*
 3. *Piping/Lining research: March 1 - May 1, 2009*
 - a. *Based on Kevin Crew's findings, research pipe and/or lining options - COID personnel*
 - b. *Complete report to include cost, materials, labor requirements, contracting requirements, etc - COID personnel*
 - c. *Complete plans/drawings for project - Kevin Crew*
 4. *Environmental Impact Study: April 1 - July 1, 2009*
 - a. *Schedule environmental work with Jenny Severson - David Evans & Associates, Inc*
 - b. *Jenny Severson to complete field study of project area (Field study must be completed during the growing season)*
 - c. *Jenny Severson to complete report and any required federal paperwork documenting environmental impacts of piping/lining project and submit to COID and any other appropriate entities as required*
 5. *Final Report for Grant: July 5 - July 15, 2009*
 - a. *Determine if project will be completed based on all findings and costs - COID personnel*
 - b. *Complete final report for this grant showing feasibility study, environmental study, and project costs/details and submit to OWRD - COID personnel*
 - b. When the planning study could begin.

January 2, 2009
2. Provide a description of the relevant professional qualifications and/or experience of the person(s) that will play key roles in performing the planning study. If the personnel have not been decided upon, include a

description of the professional qualifications and/or experience of the person(s) you anticipate will play key roles in performing the planning study.

Steve Johnson - COID manager - 5 years

Jed Barrett - COID office/field staff - 6 years

Laura Wollam - COID office/field staff - 4 years

Bob Schinkel - COID Ditchrider - 5 years

Kevin Crew - Black Rock consulting, Inc - P.E., President

Jenny Severson - David Evans & Associates, Inc - Environmental Planner

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3. What local, state or federal project permitting requirements/issues do you anticipate in order for the planning study to be conducted?

No permitting requirements/issues are anticipated. COID will notify the BLM Prineville office of our work as a courtesy. BLM contact personnel are Molly Brown - West Field Manager & Gavin Hobahn - East Field Manager/Gis Services.

4. Are permits/governmental approvals required for the planning study? If yes, indicate whether you have obtained the necessary permits/governmental approval. If you have not obtained the necessary permits/governmental approval, describe the steps you have taken to obtain them.

No permits/governmental approval needed.

5. Describe your goal (which must be based on evaluating the feasibility of developing a water conservation, reuse or storage project) and how this study helps to achieve the goal.

To pipe or line an approximate 1.50 mile stretch of COID's I-Lateral in Alfalfa, Oregon, which serves 1,711.679 acres (1,005.058 acres within the project area and 706.621 acres downstream of project area). If piped or lined, the water loss in this stretch would be significantly reduced thus conserving approximately 4.50 cfs of water (1,606.60 AF) per irrigation season.

This study will provide necessary information to determine if piping or lining is only cost effective, but also possible due to issues arising from very little elevation change and high sedimentation within the proposed project area; requiring a more extensive evaluation than COID's staff evaluation can provide.

6. Describe the technical aspects of the planning study and why your approaches are appropriate for accomplishing the goal of the planning study.

In order to effectively decide the feasibility of piping or lining, a complete study of the problems and landscape should be done.

Along with the assistance of COID staff, Kevin Crew will determine whether piping or lining is a viable option. Kevin will use engineering practices to determine the following:

- 1. Elevation changes in the proposed project area*
- 2. Silt build up issues due to lack of elevation change and how to address this issue*

3. *The push needed to get water through the pipe due to lack of elevation change and how to address this issue*

4. *Determination of proper inlet and outlet control structures needed*

7. Describe the level of involvement, interest and/or commitment of different entities associated with the planning study (attach letters of support). Describe how these entities will benefit or be impacted by the planning study.

Multiple Deschutes Basin irrigation districts and the Deschutes River Conservancy have signed letters of support. This study could open the door for other irrigation districts with similar problem areas and elevation challenges. They would be able to more easily determine if they could pipe or line a canal based on our findings.

Attached letters of support:

1. *Tod Heisler - Deschutes River Conservancy*
2. *Marc Thalacker - Three Sisters Irrigation District*
3. *Michael Kasberger - Ochoco Irrigation District*
4. *Elmer McDaniels - Tumalo Irrigation District*
5. *Mike Britton - North Unit Irrigation District*
6. *Jan Lee - Swalley Irrigation District*

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Section B. Unique Criteria

Instructions: Answer the set of questions below that applies to the type of planning study that this grant will fund.

Water Conservation or **Reuse**

1. Water Conservation or Reuse projects that may result from this planning study are requested to be included in the Water Resources Department's "Inventory of Potential Conservation Opportunities". Though you may have already submitted this information earlier in the year through a separate survey, we ask that all applicants complete the information on the form provided at the end of this application.
- I have filled out the application or I have not filled out the application.

2. Describe the water supply need(s) that the project associated with the planning study is intended to meet. Applicant should reference supporting documentation that would be available upon request.

When looking at the infamous "Whale Diagram" that shows the water flows of the Deschutes River, you can see low water flow in the Middle Deschutes River during peak (summer/irrigation) season. By piping or lining the 1.50 acre portion of COID's I-Lateral, we will be conserving an estimated 4.50 cfs of water and putting at least 2.25 cfs of that conserved water permanently instream to the Deschutes River. This will increase the stream flow by a minimum of 2.25 cfs and improve fish habitat during peak (summer/irrigation) season.

3. Explain how the associated project will mitigate the need to develop new water supplies and/or use water more efficiently. Reference documentation and/or examples of the success of similar or comparable water conservation/reuse projects that would be available upon request.

COID has had a few other successful conservation projects similar to the proposed I-Lateral project.

1. COID H-14 piping project

a. There was conserved water savings of 1.38 cfs that was permanently instreamed to the Deschutes River

b. Piping stopped seepage and subbing and other loss factors within the piped stretch

c. Piping eliminated ditch bank blow-outs and rodent holes within the piped stretch

2. COID H-14-1 piping project

a. There was conserved water savings of 1.44 cfs that was permanently instreamed to the Deschutes River

b. Piping stopped seepage and subbing and other loss factors within the piped stretch

c. Piping eliminated ditch bank blow-outs and rodent holes within the piped stretch

4. Explain how the project associated with the planning study will meet the water supply need(s), and indicate what percentage of that need will be met. (For example: If your water supply need is 20,000 acre-feet of additional water and the project will supply 10,000 additional acre-feet, 50% of your need will be met).

When the project is completed, there will be 4.50 cfs of water conserved with a minimum of 2.25 cfs being permanently instreamed in the Middle Deschutes River.

5. Provide data and information on the associated project and the project's sources of water supply:

- a. The location of the associated project. (Include the basin, county, township, range and section.)
Deschutes Basin, Deschutes County, 17-14-25 E 1/2 NW 1/4, 17-14-25 SW 1/4, 17-14-26 NE 1/4 SE 1/4, Alfalfa, Oregon. See attached map and aerial photo.

- b. The name(s) and river mile(s) of the source water and what they are tributary to, if applicable.
Middle Deschutes River - COID pulls into its main Central Oregon Canal from the south end of Bend at COID's Siphon Power Plant, then runs down to the I-Lateral turn-out.

- c. Environmental flow needs and water quality requirements of supply source water bodies and water bodies downstream of associated and/or affected return flows.
Conserved water of 4.50 cfs with a minimum of 2.25 cfs for permanent instream will allow river flows in the Middle Deschutes River to increase thus helping to lower stream temperatures, increase oxygen, and improve fish habitats.

- d. Reliance on return flows by downstream water right holders.
By conserving 4.50 cfs of water, this may also allow for junior water rights holder, North Unit Irrigation District, to have more natural flow & rely less on storage during peak (irrigation) season.

V. Match Funding Information

Applicants must demonstrate a minimum dollar-for-dollar match based on the total funding request. The match may include a) secured resources, b) previously expended resources, and/or c) pending resources. For secured funding, you must attach a letter of support from the match funding source that specially mentions the dollar amount shown in the "Amount/Dollar Value" column. For pending resources, documentation showing a request for the matching funds must accompany the application. For resources that have been previously expended, the expenditure must have occurred on or after July 1, 2005. Resources expended prior to July 1, 2005 are not eligible for match purposes.

The Type of matching funds may include:	The Status of matching funds may include:
<ul style="list-style-type: none"> The value of in-kind labor, equipment rental and materials essential to the planning study provided by the applicant or partner*. 	<ul style="list-style-type: none"> Secured funding commitments from other sources.
<ul style="list-style-type: none"> Cash is direct expenditures made in support of the planning study by the applicant. 	<ul style="list-style-type: none"> Associated and documented expenditures for the planning study from non-program sources incurred on or after July 1, 2005.
	<ul style="list-style-type: none"> Pending commitments of funding from other sources. In such instances, Department funding will not be released prior to securing a commitment of the funds from other sources. Pending commitments of the funding must be secured within 12 months from the date of the award.

*"Partner" means a non-governmental or governmental person or entity that has committed funding, expertise, materials, labor, or other assistance to a proposed planning study. OAR 690-600-0010.

Match Funding Source (if in-kind, briefly describe the nature of the contribution)	Type (✓ One)	Status (✓ One)	Amount/ Dollar Value	Date Match Funds Available (Month/Year)
Engineering Contractual Services - COID to pay \$2,500 with COID budgeted funds	<input checked="" type="checkbox"/> cash <input type="checkbox"/> in kind	<input checked="" type="checkbox"/> secured <input type="checkbox"/> expended <input type="checkbox"/> pending	\$2,500	January 09
Environmental Contractual Services - COID to pay \$2,500 with COID budgeted funds	<input checked="" type="checkbox"/> cash <input type="checkbox"/> in kind	<input checked="" type="checkbox"/> secured <input type="checkbox"/> expended <input type="checkbox"/> pending	\$2,500	January 09
COID Labor & Administrative costs - COID staff wages & benefits paid by COID	<input type="checkbox"/> cash <input checked="" type="checkbox"/> in kind	<input checked="" type="checkbox"/> secured <input type="checkbox"/> expended <input type="checkbox"/> pending	\$7,900	January 09
	<input type="checkbox"/> cash <input type="checkbox"/> in kind	<input type="checkbox"/> secured <input type="checkbox"/> expended <input type="checkbox"/> pending		
	<input type="checkbox"/> cash <input type="checkbox"/> in kind	<input type="checkbox"/> secured <input type="checkbox"/> expended <input type="checkbox"/> pending		
	<input type="checkbox"/> cash <input type="checkbox"/> in kind	<input type="checkbox"/> secured <input type="checkbox"/> expended <input type="checkbox"/> pending		
	<input type="checkbox"/> cash <input type="checkbox"/> in kind	<input type="checkbox"/> secured <input type="checkbox"/> expended <input type="checkbox"/> pending		
	<input type="checkbox"/> cash <input type="checkbox"/> in kind	<input type="checkbox"/> secured <input type="checkbox"/> expended <input type="checkbox"/> pending		
	<input type="checkbox"/> cash <input type="checkbox"/> in kind	<input type="checkbox"/> secured <input type="checkbox"/> expended <input type="checkbox"/> pending		
	<input type="checkbox"/> cash <input type="checkbox"/> in kind	<input type="checkbox"/> secured <input type="checkbox"/> expended <input type="checkbox"/> pending		

VI. Project Planning Study Schedule

Estimated Project Duration: January 2, 2009 to July 15, 2009

Place an "X" in the appropriate column to indicate when each element (key task) of the project will take place.

Project Planning Study Element (Key Tasks)	2009				2010				2011 & Beyond
	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	
<i>Preparation work - Mark Project area & points of interest</i>	X								
<i>Schedule engineering work with Kevin Crew</i>	X								
<i>Engineering Work: Field study & Feasibility Report for COID</i>	X								
<i>Piping/Lining Research: Research options based on engineering report, prepare budget for project, complete project plans</i>	X	X							
<i>Schedule environmental work with Jenny Severson</i>		X							
<i>Environmental Impact Study: Field study of project area & EIS required reports to COID & other required agencies</i>		X							
<i>Final Report for this grant</i>			X						

VII. Project Planning Study Budget

Section A

Please provide an estimated line item budget for the project planning study. An example would include: labor, materials, equipment, contractual services and administrative costs.

Line Items <i>Note: Administrative costs may not exceed 10% of the total funding requested by the Department.</i>	Unit Number (e.g. # of hours)	Unit Cost (e.g. hourly rate)	In-Kind Match	Cash Match Funds	OWRD Grant Funds	Total Cost
Engineering Contractual Services	Project	\$8,000.00		\$2,500	\$5,500	\$8,000
Environmental Contractual Services	Project	\$8,000.00		\$2,500	\$5,500	\$8,000
Labor - COID Employees - Laura Wollam	85 hrs	\$30.00	\$2,550			\$2,550
Jed Barrett	85 hrs	\$30.00	\$2,550			\$2,550
Bob Schinkel	25 hrs	\$30.00	\$750			\$750
Management Review - COID Employees						
Larry Roofener	10 hrs	\$50.00	\$500			\$500
Steve Johnson	10 hrs	\$50.00	\$500			\$500
Administrative Costs	35 hrs	\$30.00	\$1,050			\$1,050
Total for Section A			\$7,900	\$5,000	\$11,000	\$23,900
Percentage for Section A			33%	21%	46%	100%

Section B

If Grant amount requested is \$50,000 or greater, you **MUST** complete Section B. Elements (key tasks) in Section B should be the same as the elements (key tasks) in Section VI (Project Planning Study Schedule).

Project Planning Study Element (Key Tasks)	In-Kind Match	Cash Match Funds	OWRD Grant Funds	Total Cost
Total for Section B				

Totals in Section B must match the totals in Section A

Request to be added to the Oregon Water Resources Department's
Inventory of Potential Conservation Opportunities

The purpose of this inventory is to catalogue potential conservation projects that water users themselves have identified but not yet pursued because of financial, institutional, or other barriers. For the purpose of this application, water storage other than above-ground are included as conservation opportunities and are most likely capital conservation projects.

As a water provider or user, you know your water demands and water conservation opportunities better than anyone. We would appreciate your assistance with this important data collection effort by completing this survey. Your participation will help provide the building blocks we need to begin to identify and achieve potential future water supplies. Please answer the questions as completely as possible, to the best of your ability. We appreciate your help with this important effort.

This inventory of already-identified, potential conservation projects includes both capital and programmatic projects. Capital projects are defined as one-time, large investments resulting in water savings. Examples include reclaimed water plants, reservoir covering, transmission line upgrades reducing leaks, or industrial engineering modifications to re-use process water. Programmatic projects are defined as ongoing investments resulting in water savings. Examples include facilitating upgrades to more efficient water using devices (e.g., distributing free showerheads, toilet rebates) and distribution system leak detection programs. The conservation inventory is primarily intended to include “planned” projects rather than projects that are currently being implemented. However, currently active programmatic projects may be listed if they will continue or expand in future years. The inventory of projects submitted will be compiled by county or basin.

Examples are provided below.

	Example Capital Conservation Project	Example Programmatic Conservation Project
Project Description Provide brief sentence	Line 3 miles of unlined ditch.	Toilet rebate program for residential customers
Estimated Future Savings Provide brief sentence, including information regarding savings seasonality.	20 acre feet of water per year	If we spend our full budget each year, we estimate 50,000 gallons of water save per year
Seasonality Indicate what part of the year savings are generated (e.g. year-round; summer only; etc.).	Peak (irrigation) season savings.	Savings should occur throughout the year.
Estimated Future Costs Provide brief sentence.	\$500,000 total project costs.	\$40,000 a year.
Implementation Schedule Provide brief sentence.	Not set. Have conducted cost and savings estimate, but still seeking funding.	We started the program in 2005 and plan to implement until 2015.
Project Funded? Designate either “yes”, “no”, or provide brief sentence if necessary	No. Pursuing grant funding.	Yes. IN our CIP through the next 5 years.

To add a project to the inventory of potential conservation opportunities, please provide the following information for each conservation project.

This is a <input checked="" type="checkbox"/> Capital Conservation Project <input type="checkbox"/> Programmatic Conservation Project	
Project #/Name	I-Lateral Piping Project
Project Description	Pipe or line 1.50 miles of unlined ditch on COID's I-Lateral in Alfalfa, Oregon
Estimated Future Savings	4.50 cfs of water per year
Seasonality	Peak (irrigation) season savings
Estimated Future Costs	\$500,000 total project cost
Implementation Schedule	November 2009 - March 2010, funding dependent
What are the barriers to implementation, e.g. funding?	Securing funding, feasibility study findings
This is a <input type="checkbox"/> Capital Conservation Project <input type="checkbox"/> Programmatic Conservation Project	
Project #/Name	
Project Description	
Estimated Future Savings	
Seasonality	
Estimated Future Costs	
Implementation Schedule	
What are the barriers to implementation, e.g. funding?	

- Include this form with your application -

**JOINT LETTER OF SUPPORT FOR CENTRAL OREGON
IRRIGATION DISTRICT'S I-LATERAL WATER CONSERVATION
FEASIBILITY STUDY AND CONSERVATION GRANT APPLICATION**

We, the undersigned, wish to jointly express our strong support for Central Oregon Irrigation District's I-Lateral Water Conservation Feasibility Study as well as the District's application to the Oregon Water Resources Department for a Water Conservation Grant to help fund that important project. We are all stakeholders in the Deschutes Basin and are deeply committed to the wise long-term management of the area's water resources.

The Feasibility Study will comprehensively examine the District's existing I-Lateral and future alternatives to include piping or lining a 1.50 mile stretch of high-loss area in Alfalfa. The Study will analyze the high-loss areas of the I-Lateral and the best alternative to maximize water conservation in these high-loss areas. The overall goal is to arrive at a method that will decrease water loss in a 1.50 mile stretch of the District's I-Lateral and allow water conservation of approximately 4.50 cfs through this decrease of water loss.

Central Oregon Irrigation District's application for a Water conservation grant to help fund the Feasibility Study is highly appropriate, in light of the definition of "conservation," which includes:

- The planned management of a natural resource to prevent exploitation, destruction, or neglect;
- Official supervision of rivers and other natural resources in order to preserve and protect them through prudent management; and
- The careful utilization of a natural resource in order to prevent depletion.

We all know that resource users must be wise resource stewards in order to sustain both the user and the resource over time. Water is a critical resource in the Deschutes Basin, and it is incumbent on Central Oregon Irrigation District, as a primary user and distributor of those water resources, to thoroughly examine options for meeting growing demand in the most efficient and conservation-minded manner over the long-term. This is the essence of the conservation project that Central Oregon Irrigation District is undertaking.

Each individual and entity that has signed this letter reserves the right to participate fully in the study process and may or may not support specific conclusions reached at the conclusion of these studies. Nonetheless, we strongly believe that Central Oregon Irrigation District must undertake this type of water conservation planning and analysis.

As the communities in Central Oregon grow, it is essential that Central Oregon Irrigation District aggressively pursue the most prudent management of its water resources. By integrating efficiency and conservation so thoroughly into its water delivery efforts, the District will uphold its responsibility to its patrons as well as the natural environment for many years to come. We are confident that the grant funds requested by the District, and the Conservation Feasibility Study, will directly and substantially assist the District in meeting these important goals.

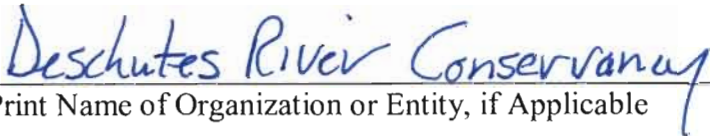
**SIGNATURE PAGE FOR THE
JOINT LETTER OF SUPPORT FOR CENTRAL OREGON
IRRIGATION DISTRICT'S I-LATERAL WATER CONSERVATION
FEASIBILITY STUDY AND CONSERVATION GRANT APPLICATION**

A handwritten signature in blue ink, appearing to read "T. Heister", written over a horizontal line.

Signature

The name "Tod Heister" written in blue ink over a horizontal line.

Print Name of Person Signing

The name "Deschutes River Conservancy" written in blue ink over a horizontal line.

Print Name of Organization or Entity, if Applicable

The date "8/26/08" written in blue ink over a horizontal line.

Date

**SIGNATURE PAGE FOR THE
JOINT LETTER OF SUPPORT FOR CENTRAL OREGON
IRRIGATION DISTRICT'S I-LATERAL WATER CONSERVATION
FEASIBILITY STUDY AND CONSERVATION GRANT APPLICATION**

Marc Thalacker

Signature

Marc Thalacker

Print Name of Person Signing

Three Sisters ID

Print Name of Organization or Entity, if Applicable

8/26/08

Date

**SIGNATURE PAGE FOR THE
JOINT LETTER OF SUPPORT FOR CENTRAL OREGON
IRRIGATION DISTRICT'S I-LATERAL WATER CONSERVATION
FEASIBILITY STUDY AND CONSERVATION GRANT APPLICATION**



Signature

MICHAEL P. KASBERGER

Print Name of Person Signing

OCHOCO IRRIGATION DISTRICT

Print Name of Organization or Entity, if Applicable

08-25-08

Date

**SIGNATURE PAGE FOR THE
JOINT LETTER OF SUPPORT FOR CENTRAL OREGON
IRRIGATION DISTRICT'S I-LATERAL WATER CONSERVATION
FEASIBILITY STUDY AND CONSERVATION GRANT APPLICATION**

Elmer G McDaniels

Signature

ELMER G MCDANIELS

Print Name of Person Signing

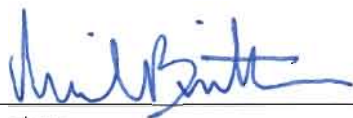
TUMALO IRRIGATION DIST

Print Name of Organization or Entity, if Applicable

8.26.08

Date

**SIGNATURE PAGE FOR THE
JOINT LETTER OF SUPPORT FOR CENTRAL OREGON
IRRIGATION DISTRICT'S I-LATERAL WATER CONSERVATION
FEASIBILITY STUDY AND CONSERVATION GRANT APPLICATION**



Signature

MIKE BRITTON

Print Name of Person Signing

NORTH UNIT ID

Print Name of Organization or Entity, if Applicable

8/26/08

Date

**SIGNATURE PAGE FOR THE
JOINT LETTER OF SUPPORT FOR CENTRAL OREGON
IRRIGATION DISTRICT'S I-LATERAL WATER CONSERVATION
FEASIBILITY STUDY AND CONSERVATION GRANT APPLICATION**



Signature

JAN LEE

Print Name of Person Signing

SWALLEY IRRIGATION DISTRICT

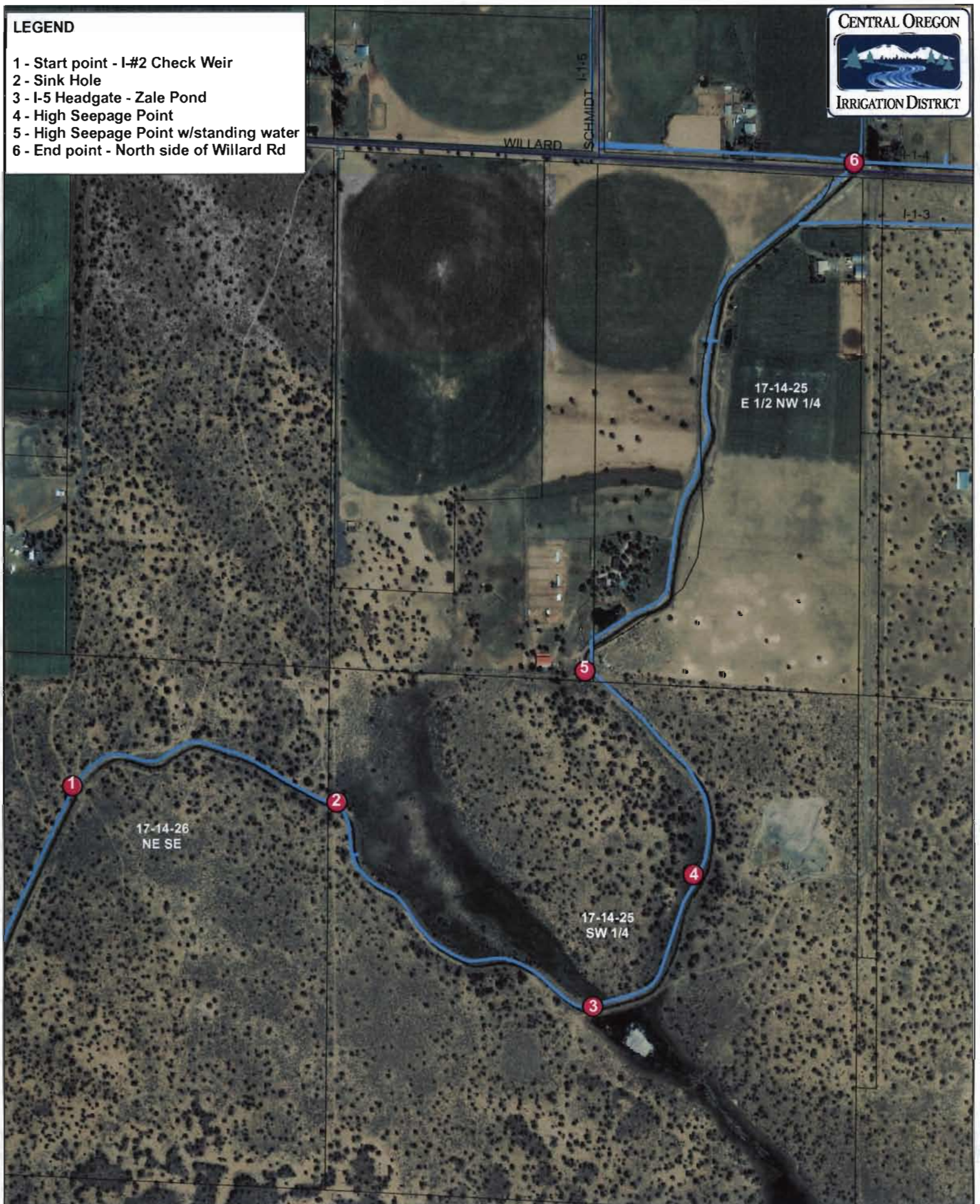
Print Name of Organization or Entity, if Applicable

8/26/08

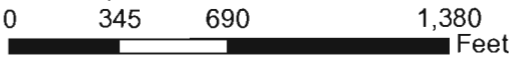
Date

LEGEND

- 1 - Start point - I-#2 Check Weir
- 2 - Sink Hole
- 3 - I-5 Headgate - Zale Pond
- 4 - High Seepage Point
- 5 - High Seepage Point w/standing water
- 6 - End point - North side of Willard Rd



1 inch equals 600 feet



**I-Lateral
Proposed Piping Area**



August 27, 2008