E-1028

DEPARTMENT OF ECOLOGY
State of Washington

Section 2.2
Capital Budget Grant Request Form
Watershed Plan Implementation and Flow Achievement

Project Title: *Garden City Piping -- In the event that the 85% cost share and vital Technical Assistance currently available through the Conservation Commission administered Irrigation Efficiency Grant Program (IEGP) is, for any reason, not available at the time of construction. Please note that the established guidance, cost criteria, water right procedures and Trust water requirements for the IEGP will be adhered to on this project.*

County: *Walla Walla*

WRIA: *32*

If more space is needed attach additional sheets

1. Applicant Information		
Applicant name *Walla Walla County Conservation District*	**Phone no.** *(509)522-6340 x 3*	**Fax no.** *(509) 525-2811*
Address *325 N. 13th Avenue*		
City *Walla Walla*	**State** *WA*	**Zip code** *99362*
Email address Rick.jones@my180.net		
Water right holder name (If applicable and if other than applicant)	**Phone Number** ( )	**Fax Number** ( )
Mailing address		
City	**State**	**Zip code**

2. Project Location
Project name *Garden City Piping*
Project location *Approximately 1.5 miles southeast of Lowden, WA*
Stream reach mile or location *The point of diversion is located at RM 30.9 on the Walla Walla River.*

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3. Project Type and Description

(Check all that apply)

Conservation and/or infrastructure improvement (pumps and pipes)	X
Water storage feasibility study	☐
Water exchange or water right acquisition	☐

Please describe your project in detail

This project will address conveyance loss in the full length of the Garden City ditch and the upper half of the Mud Creek 7 ditch. We will replace approximately 3.0 miles of open ditch conveyance with 2.5 miles of gravity feed pipeline. The water loss in Garden City will be addressed by a relatively simple pipeline -- a very straightforward solution. The situation with Mud Creek 7 is more complex. Our understanding of the Mud Creek 7 issues and strategy for their solution evolved as a result of our earlier Lowden 2 design effort. It involves the abandonment of about the upper 1/3 of the Mud Creek 7 open ditch including a section of Mud Creek (legally) used for conveyance. Mud Creek 7 water would be conveyed in the Garden City pipeline to a point about ½ mile downstream where a lateral would introduce the flow back into the remaining 1 mile of the Mud Creek 7 ditch. Please note that there are some very unwieldy water rights issues that will have to be addressed for us to be successful with the Mud Creek 7 portion of this project.

Use this box to make any other comments regarding the project and water rights involved

The project will address water loss issues in all of the Garden City ditch and roughly 1/3 of the Mud Creek 7 ditch plus resolve some very undesirable issues on Mud Creek – thus taking a major step toward a full blown restoration effort on Mud Creek.

Our ultimate goals for the Touchet-Lowden irrigated area include the following:
A. Improve the Hofer Dam diversion and pipe both the West Side Irrigation District and East Side Irrigation District. Hofer Dam was updated in 2006, West Side Irrigation District was piped in 2007 and the East Side Irrigation District piping project which was started in November, 2008 is scheduled for completion in April, 2009.
B. Consolidate the diversions for Lowden 2, Garden City, Mud Creek 7, Old Lowden, and Bergevin-Williams ditches(all of the Lower Walla Walla Ditches) into the existing modern diversion located at RM 39.2 which was built by CTUIR/BPA in 2001. We have an engineering firm developing a design and construction of the diversion upgrades is planned for Jul-Oct, 2009.
C. Consolidate Old Lowden and Bergevin-Williams ditches into one pipeline. We are currently well along on the design and water rights work on this project and construction of the pipeline is planned to begin Nov, 2009.

D. Design and install the Garden City pipeline. The preliminary work on the design has been completed but considerable effort will be required to work through the water rights issues. We would anticipate having the design and water rights efforts complete and ready for construction in the Nov, 2010-Apr 2011 time frame. If the Mud Creek 7 water right issues prove to be impossible to resolve we will focus on just the Garden City ditch.

E. Install the Lowden 2 pipeline. The design work on this project is nearly complete as a result of an unsuccessful effort to pipe the Lowden 2 ditch in 2004-05. This was the first attempt in the basin at a piping project and we failed to convince all irrigators of the positive effect it would have on their farm income. However, there has been a tremendous amount of positive discussion in the Touchet-Lowden irrigation community about the West Side Irrigation District pipeline which has been in operation for a full irrigation season. We believe this will be sufficient to persuade Lowden 2 irrigators to cooperate. Consequently, construction of the Lowden 2 pipeline is tentatively planned for Nov, 2011-Apr, 2012.

F. Install the Mud Creek 7 pipeline. Provided we successfully execute our plan for the Garden City piping project which include abandonment of the upper ½ mile of the Mud Creek 7 ditch, there will be 1.0 mile of the Mud Creek 7 ditch remaining to be piped. It would be logical for us to combine the Lowden 2 and Mud Creek 7 design and construct efforts since most of the Mud Creek 7 irrigators also have water rights on Lowden 2. Therefore, construction of the Mud Creek 7 pipeline is also tentatively planned for Nov, 2011-Apr, 2012.

G. With successful completion of the diversion and piping projects described above it means that the entire irrigated area between roughly RM 25 and RM 32 on the lower Walla Walla would now divert from one point and landowners would have an unprecedented ability to manage their water. We plan to use WWCCD's historically good relationship with landowners and the good will created by the aforementioned projects to organize this entire area into one or more irrigation district(s) or other similarly functioning entity. We believe that ECY water right regulation at the point of diversion and maximum flexibility for water use within the boundary defined by this new entity embraces the intent of the Water Management Initiative. Furthermore, we believe that this new ability to manage water will lead to a multitude of on-farm IEGP projects that will, at a minimum, eliminate most if not all flood irrigation and increase in-stream flows accordingly. We will use the West Side and East Side Irrigation Districts, to the extent possible, as an example and template for the new organization. These districts serve the irrigated area between RM 19 to RM 25 of the Walla Walla River.

H. With successful completion of the diversion and piping projects described above it also means that conditions would be conducive to full blown restoration of Mud Creek. Our plan for Mud Creek includes flow augmentation with Trust water which would be introduced at the Lowden 2 pipeline crossing, restoration of channel geometry, restoration of instream habitat, and restoration of riparian habitat via CREP. WDFW has sampled fish fauna in the lower reaches of Mud Creek for several years and proven that ESA listed Mid-Columbia steelhead trout inhabit the stream. WDFW is very supportive of this restoration effort and we would expect WDFW to guide our restoration efforts.

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Describe the project by task (statement of work)

The WWCCD will accomplish the following tasks:

Task 1 Construction

- *Install 2.5 miles of piping to replace open ditch conveyance on Garden City ditch and Mud Creek 7 ditch*

Deliverables: Final construction project report by June, 2011.

Task 2 Provide Construction Oversight and Coordination

- *Contract with qualified firm to provide construction management services*
- *Coordinate construction activities with landowner and other stakeholders*
- *Provide competent technical guidance as issues arise*

Deliverables: Final construction project report by June, 2011.

Task 3 Administration

- *Work with ECY, WDFW and Irrigators to ensure the proper quantity of water is transferred to the Trust Program*
- *Secure all permits and clearances prior to construction*
- *Provide progress reports and invoices as they are due*

Deliverables: Final construction project report by June, 2011.

4. Project Budget

Project Budget

$475,000

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Total budget by project task or by expenditure

Task 1 Construction.....$391,000

- *Install 2.5 miles of piping to replace open ditch conveyance on Garden City ditch and Mud Creek 7 ditch*

Task 2 Provide Construction Oversight and Coordination.....$54,000

- *Contract with qualified firm to provide construction management services.....$34,000*
- *Coordinate construction activities with landowner and other stakeholders.....$10,000*
- *Provide competent technical guidance as issues arise.....$10,000*

Task 3 Administration.....$30,000

- *Work with ECY, WDFW and Irrigators to transfer proper quantity of water to the Trust Program.....$20,000*
- *Secure all permits and clearances prior to construction.....$5,000*
- *Provide progress reports and invoices as they are due.....$5,000*

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5. Funding Source Information

Total project amount expected to be provided by sources other than this program (dollar total and percent of project budget)
$125,000 – engineered design and 15% of construction cost (required by IEGP)

Identify sources and type of funding other than through this program grant. Include expected dates of participation. Include as an attachment; letters of commitment, offer letters, application approvals, etc.

Source and type of funding: ECY grant #G0900084

Amount: $125,000

Status: Secured

Dates of participation: expires 12/31/2010

Source and type of funding:

Amount:

Status:

Dates of participation:

Source and type of funding:

Amount:

Status:

Dates of participation:

Source and type of funding:

Amount:

Status:

Dates of participation:

Source and type of funding:

Amount:

Status:

Dates of participation:

Source and type of funding:

Amount:

Status:

Dates of participation:

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6. Instream Flow and other Instream Habitat Benefits

A. Water Right Information - Attach Water Right documents
(You may skip this section if this application is for Storage Feasibility Study funding)

Water right holder's name (if other than applicant) *Twenty five Garden City and Mud Creek 7 Irrigators*	Phone no: ( )	Fax no: ( )
Address		
City Lowden	State WA	Zip code 99360

Complete legal description of the property attached to this water right:
This information will be provided when the Application for Transfer of Water Right to Trust is finalized and submitted

Water right number:*This information will be provided when the Application for Transfer of Water Right to Trust is finalized and submitted*

Parcel number associated with this water right:
This information will be provided when the Application for Transfer of Water Right to Trust is finalized and submitted

Do you own the property proposed for this project? If not, please explain:
No. The WWCCD is applying for this funding on behalf of the Garden City and Mud Creek 7 irrigators who will benefit from the project.

If the grant applicant is not the water right holder, please explain the reason:
No. The WWCCD is applying for this funding on behalf of the Garden City and Mud Creek 7 irrigators who will benefit from the project.

Water source (Stream name).*Walla Walla River*

B. Water Usage

Has water been put to beneficial use in the past five years?

Yes X No ☐ I don't know ☐

Describe that use in terms of the specific beneficial use during that period:
This information will be provided when the Application for Transfer of Water Right to Trust is finalized and submitted
(Please attach any available documents that verify that use during the last five years. Include aerial photographs, power company records, flow meter records, crop type records, NRCS documentation or FSA records)

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Has beneficial use of this water ceased for a period of five or more years during any period since 1967?
Yes ☐ No X

Please describe the beneficial use for the water quantified under the water right discussed above. Describe the following: purpose (examples: domestic, irrigation, municipal); system type; if irrigation, describe crop type.
Pasture and alfalfa hay. Detailed information will be provided when the Application for Transfer of Water Right to Trust is finalized and submitted

Quantify as nearly as possible current water use: *This information will be provided when the Application for Transfer of Water Right to Trust is finalized and submitted*

Instantaneous rate (QI) of use: CFS

Annual rate (QA) of use ACRE- FEET

Historic beneficial use quantity of the water right (highest of the last 5 years/ irrigation seasons in instantaneous and annual quantities)
This information will be provided when the Application for Transfer of Water Right to Trust is finalized and submitted

_____ CFS _____ ACRE-FEET

If irrigation, how many acres are irrigated under this water right? *This information will be provided when the Application for Transfer of Water Right to Trust is finalized and submitted*

Are there other water rights associated with this specific water right? *This information will be provided when the Application for Transfer of Water Right to Trust is finalized and submitted*

In order to process this pre-application ecology requires the following information (include for the previous five years; please attach copies of all documents and maps)

- Power data (contact local power utility for pump records, etc.)
- Historical crop type data (contact local FSA office)
- Flow meter records (contact local power utility)

- Aerial photos (contact local FSA office)

See Attachment 1

C. Estimated Total Water Savings

Infrastructure projects: Estimate the water to be conserved through this project. Provide engineering or technical analysis to support this estimate. *This information will be provided when the Application for Transfer of Water Right to Trust is finalized and submitted*

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
QA (ACRE-FEET)													
QI (CFS)													

D. Additional Instream Benefits

Describe other instream benefits envisioned as a result of funding this project:

Our preliminary estimates for Trustable savings are as follows:

West Side Irrigation District	*3.03 cfs**	*1651 ac ft**
East Side Irrigation District	*2.40 cfs**	*1309 ac ft**
Old Lowden Ditch	*2.00 cfs***	*1071 ac ft***
Bergevin-Williams Ditch	*1.60 cfs***	*857 ac ft***
Garden City Ditch	*1.00 cfs***	*536 ac ft***
Mud Creek 7 Irrigation District	*1.00 cfs***	*536 ac ft***
Lowden 2 Irrigation District	*2.80 cfs***	*1499 ac ft***

** At the behest of CTUIR and WDFW we negotiated with the Irrigation Districts to provide flows that would maximize benefits to fish in the lower Touchet River migration corridor. This meant that the irrigators gave up substantial water during the fish migration season but actually had more water for irrigation during the critical Jul-Aug time period.*

*** These are very conservative estimates based on preliminary cost estimates for the various projects and the 1.0 cfs to Trust per $500,000 spent on the project "hold down" imposed by the IEGP. As we did on the West Side and East Side Irrigation District piping projects we will consult with CTUIR and WDFW as to when flows are needed for fish and then negotiate the best scenario possible for both fish and farmers.*

7. Resources currently committed to ensure long-term performance of the proposed project (operation and maintenance).

Who is responsible for long-term operation and maintenance of the project?
This information will be provided when the Application for Transfer of Water Right to Trust is finalized and submitted

Have operation and maintenance costs been identified? Yes ☐ No X

If yes, please describe:

Summarize these costs on an annual basis below:

Are measurement devices other than diversion source meters necessary to monitor compliance with the project intent or plan? Yes X No ☐

If yes, please describe:
Meters will be installed at individual turn outs.

Does a water measurement device exist on the source and downstream of the proposed project?
X yes ☐ no

If no, will a water measurement device be installed as part of this project? Yes ☐ No ☐
If yes, describe location and operating entity:

If yes, provide the river mile:

What is the nearest stream gage downstream of the proposed project? Source name

USGS satellite linked

River mile : 18.2

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8. Proponent's Readiness to Proceed

Describe status of feasibility reports, engineering design, and permits. Provide documentation for these deliverables and describe the project effort timeline as appropriate (submit two (2) copies of all required documents).

We have received a request from irrigators to investigate the potential for a pipeline and have conducted initial landowner meetings. Preliminary engineering has been completed. Water loss measurements have been completed.

Does the project proponent own the land for the proposed project? If not, does the proponent have documented access to the right of way or owns an easement to the property proposed (please attach appropriate documentation including title report as applicable).

This information will be provided when the Application for Transfer of Water Right to Trust is finalized and submitted

Design/Engineering Status:

Pre-planning (pre - permitting)	☐	Status:
Pre-design (design reports) (10%)	X	Status:
Schematic design (30%)	☐	Status:
Design development (75%)	☐	Status:
Construction documents (95%)	☐	Status:
Bid documents (ready for bid)	☐	Status:

Permit Status

SEPA	☐	Status:
401	☐	Status:
Dept. of Fish and Wildlife consultation	☐	Status:
Storage and/or Secondary Use Permit	☐	Status:
Other: (_____)	☐	Status:
Other:(_____)	☐	Status:
Other: (_____)	☐	Status:

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9. Signatures (send this sheet electronically and by original signature in surface mail)

I certify that the information above is true and accurate to the best of my knowledge.

I understand that in order to process my application, I am hereby granting staff from the Department of Ecology access to the above site(s) for inspection and monitoring purposes.

If assisted in the preparation of the above application, I understand that all responsibility for the accuracy of the information rests with me.

I also understand that I may rescind this application at any time prior to signing the Agreement with no other obligations or requirements.

Rick L. Jones _____ 12 / 31 / 2008
(Applicant/ Grant Recipient) (Date)

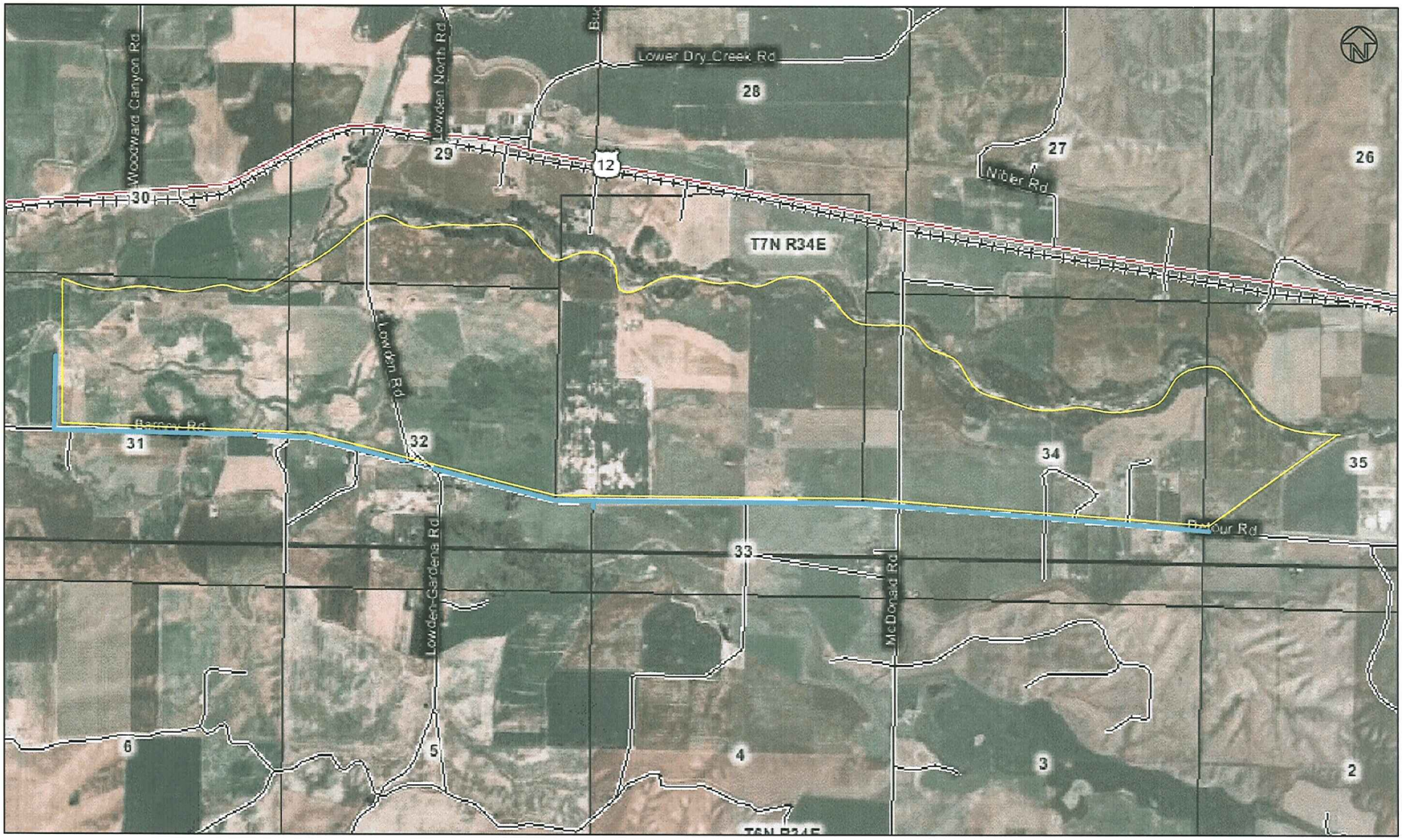
_____ ____/____/____
(Water Right Holder) (Date)

_____ ____/____/____
(Land Owner(s) of Existing Place of Use) (Date)

For More Information Contact: Dave Burdick
Voice: (360) 407-6094
Email: dbur461@ecy.wa.gov
Web: http://www.ecy.wa.gov/watershed/Index.html

If you need this document in an alternate format, please call the Water Resources Program at 360-407-6600. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

GARDEN CITY

General Use Area

Proposed Pipeline