

SW 1007

Project Title: Leland Valley Road W Culvert Replacement

[If your Watershed Plan Implementation and Flow Achievement Request is related to or part of a Operational Project Funding Request for 2009-11 please cross-reference the name of that project in parenthesis above]

County: Jefferson

WRIA: 17

If more space is needed attach additional sheets

1. Applicant Information		
Applicant name Jefferson County Conservation District	Phone no. ((360) 385-4105	Fax no. (360) 385-4823
Address 205 W. Patison St.		
City Port Hadlock, WA 98339	State WA	Zip code 98339
Email address al@jeffersoncd.org		
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 Leland Valley Road W Culvert Replacement
Project location WDFW Site ID #160421, Mile Post 3.12 Tributary to Leland Creek Leland Valley Road W, Quilcene WA

Stream reach mile or location

Mile Post 3.12, Leland Valley Cutoff Road

3. Project Type and Description

(Check all that apply)

- | | |
|--|-------------------------------------|
| Conservation and/or infrastructure improvement (pumps and pipes) | <input checked="" type="checkbox"/> |
| Water storage feasibility study | <input type="checkbox"/> |
| Water exchange or water right acquisition | <input type="checkbox"/> |

Please describe your project in detail

Culverts can present a big problem for migrating salmon. Culverts are chutes under roadways that salmon have to negotiate to reach spawning or rearing habitat, depending on life cycle stage. These chutes can channel the stream to flow too quickly, at a slope too steep, or can create an inaccessible jump pool into the culvert (too high a jump or too shallow a pool).

In the case of the Leland Creek watershed within the WRIA 17 watershed planning area, the culvert under Leland Valley Road W places a 100-percent obstruction in the path of spawning/rearing coho salmon, summer chum, steelhead, and cutthroat trout, cutting fish off from spawning and rearing areas of the Leland Creek sub-basin upstream of the culvert. Results of 2007-2008 field study by PEI-WFC partnership indicates spawning coho were found below culvert. Results of field study and WDFW data also indicate that culvert is 100-percent obstructed. Jefferson Co. Conservation District would administer the grant and Pacific Ecological Institute (PEI) would implement the grant.

- **Objective A:** Share Leland Creek watershed field data developed by Pacific Ecological Institute among interested parties for improved partnerships among watershed action entities. At this time, culvert completely obstructs fish passage. Culvert is located at WDFW Site ID #160421, Mile Post 3.12, Tributary to Leland Creek, Leland Valley Road W, in Quilcene WA.
- **Objective B:** Form technical committee (PEI, JCPW, JCCD, HCSEG, WDFW, HCCC, Tribes) to develop final design and cost estimates for culvert replacement; establish set of future actions to implement engineering plans that are consistent with *WRIA 17 Watershed Management Plan* and with the *WRIA 17 Detailed Implementation Plan*. Set of future actions would form basis for grant applications to fund culvert replacement, with up to 10 percent County match. Construction funding cannot be applied for without the development of final design and cost estimates. Based on that information, grantees, watershed action entities, and the public would collaborate to shape culvert replacement proposals and clearly identify and pursue sources of funding for construction.

In addition, implementing engineering plans would be a significant and meaningful investment in the Leland Creek/Little Quilcene watershed and Quilcene community that has traditionally been overlooked in habitat restoration/protection and critical areas study funding decisions. Funding a preliminary design/feasibility study for improving habitat within the Leland Creek watershed would dovetail with the recent DOE grant award to improve water quality within Lake Leland, which drains to Leland Creek. Funding a study would also support the Planning Unit's Immediate Action 22.2 to support The Pacific Ecological Institute and Wild Fish Conservancy in its work with the Jefferson County Conservation District, NOSC, WSU, Jefferson County, the Jamestown S'Klallam Tribe, HCCC, HCSEG, and others to coordinate their salmon habitat restoration and protection efforts in the Little Quilcene and Leland Creek

basins.

The project would assist the WRIA 17 Planning Unit in implementing Detailed Implementation Plan (DIP) actions, an ongoing effort for the Planning Unit since adoption of the DIP in October 2007. The project would also result in a practical, useful, and necessary application of watershed data gathered by WFC, PEI, and other watershed action entities over the years to ensure safe vehicle passage over Leland Valley Road W, ensure passage of listed fish to spawning and rearing habitats, ensure reliable instream flows, and ensure Leland Valley Road W is protected from flooding damage.

Planning Unit members and members of the public would be invited to review and comment on development of the preliminary design/feasibility study during study development, to shape culvert modification/replacement proposals. Comments would be incorporated into the preliminary study. In addition, there would be at least one outreach activity by grantee partners to relate results of preliminary study and discuss options for future action.

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

Describe the project by task (statement of work)

July – Dec. 2009

- Site reconnaissance (fish passage, habitat, spawning; flooding frequency and magnitude); Land use/environmental attorney consultation – *this component completed by PEI 2008.*
- Consultation by with Jefferson County Public Works
To select Engineering Contractor
 - Parties publish RFP and evaluate bids for site engineering survey & design work: 20 hours, at \$150/hr
 - Site Engineering Survey: 4 hours staff time @ 2 staff at \$30/hr, plus 4 hour equipment rental at \$250/hr (use Public Works 2008 Vendor List)
 - Revise plans, designs, and specs, if needed, based on public input, agency input, applicable road standards; fine-tune project budget: 30 hours, at \$250/hr
 - Model post-implementation fish passage and

instream flow availability (20 hours, at \$85/hr):

Jan-July 2009:

- Public notice, outreach, opportunity to comment (4 events, @ \$800 each); room rental; newspaper publication; postage
- Grant Administration: Submit implementation grant proposals, prepare invoices (50 hrs @ \$75 per hour)

TOTAL \$27,640

4. Project Budget

Project Budget

\$27,640

Total budget by project task or by expenditure

July – Dec. 2009

- Site reconnaissance (fish passage, habitat, spawning; flooding frequency and magnitude); Land use/environmental attorney consultation \$0 [already complete]
- Consultation by Jefferson County Public Works/ Professional Services Roster Consultant (include overhead if by consultant): \$15,240
 - Parties publish RFP and evaluate bids for site engineering survey & design work: 20 hours, at \$150/hr
 - Site Engineering Survey: 4 hours staff time @ 2 staff at \$30/hr, plus 4 hour equipment rental at \$250/hr (use Public Works 2008 Vendor List)
 - Revise plans, designs, and specs, if needed, based on public input, agency input, applicable road standards; fine-tune project budget: 30 hours, at \$250/hr
 - Model post-implementation fish passage and instream flow availability (20 hours, at \$85/hr): \$1700

Jan-July 2009:

- Public notice, outreach, opportunity to comment (4 events, @ \$800 each); room rental; newspaper publication; postage \$3,200
 - Grant Administration: Submit implementation grant proposals, prepare invoices (50 hrs @ \$75 per hour) \$7,500
- TOTAL \$27,640**

5. Funding Source Information

Total project amount expected to be provided by sources other than this program (dollar total and percent of project budget)

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:

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:

Source and type of funding:

Amount:

Status:

Dates of participation:

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)

Phone no:

()

Fax no:

()

Address

City

State

Zip code

Complete legal description of the property attached to this water right:

Water right number:

Parcel number associated with this water right:

Do you own the property proposed for this project? If not, please explain:

If the grant applicant is not the water right holder, please explain the reason:

Water source (Stream name).

B. Water Usage

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

Yes No I don't know

Describe that use in terms of the specific beneficial use during that period:

(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)

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

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.

Quantify as nearly as possible current water use:

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)

_____ CFS _____ ACRE-FEET

If irrigation, how many acres are irrigated under this water right?

Are there other water rights associated with this specific water right?

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)

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.

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:

Many recommendations of the Detailed Implementation Plan (DIP) encourage ongoing projects of those already working in the watershed. *See, for example, Recommendation 13.1, 13.2 on pages 32-33; 14.3, 14.4 on page 34; and 18.1 on page 41.* Specific actions in the DIP that would be implemented through the Preliminary Design/Feasibility Study include:

Action 18: Public Education Programs:

The DIP specifically notes the work done in Leland Creek with citizen volunteers and notes in Actions 18.3 and 18.4 that this work should continue. Involvement of citizens (including students) in implementation of this Pilot Project would provide an excellent public education opportunity about the impact of obstructed culverts on salmon habitat, instream flow, and water quality.

Action 20: Habitat Restoration Efforts:

Action 20.2 notes that the Pacific Ecological Institute and Wild Fish Conservancy are involved in a salmon habitat restoration and protection plan for the Little Quilcene and Leland Creek basins. These groups have begun to identify stream reach breaks, conduct stream typing, count spawners, identify fish-passage barriers, and assess habitat, water temperature, and species composition and distribution. Preliminary findings show that coho and chum utilize Leland Creek up to the culvert at Leland Valley Road just as the outlet exits the Lake Leland. Action 20.2, 20.3, and 20.4 encourage this program to continue in all three time phases (immediate, near term, long term).

Action 22: Support Salmon Recovery Efforts:

This action notes that successful implementation of salmon recovery efforts rely upon local groups such as PEI, WFC, and JCCD. Actions 22.2, 22.3 & 22.4 urge immediate, near term and long term action for these efforts. Support for this grant request will allow this to happen.

Action 37: Overarching Action to Fund Programs:

This action recognizes the need for the Planning Unit to support and provide funding for those programs that implement the DIP. The Preliminary Design/Feasibility Study does so and is consistent with the following new immediate actions, new near-term actions, and new long-term actions:

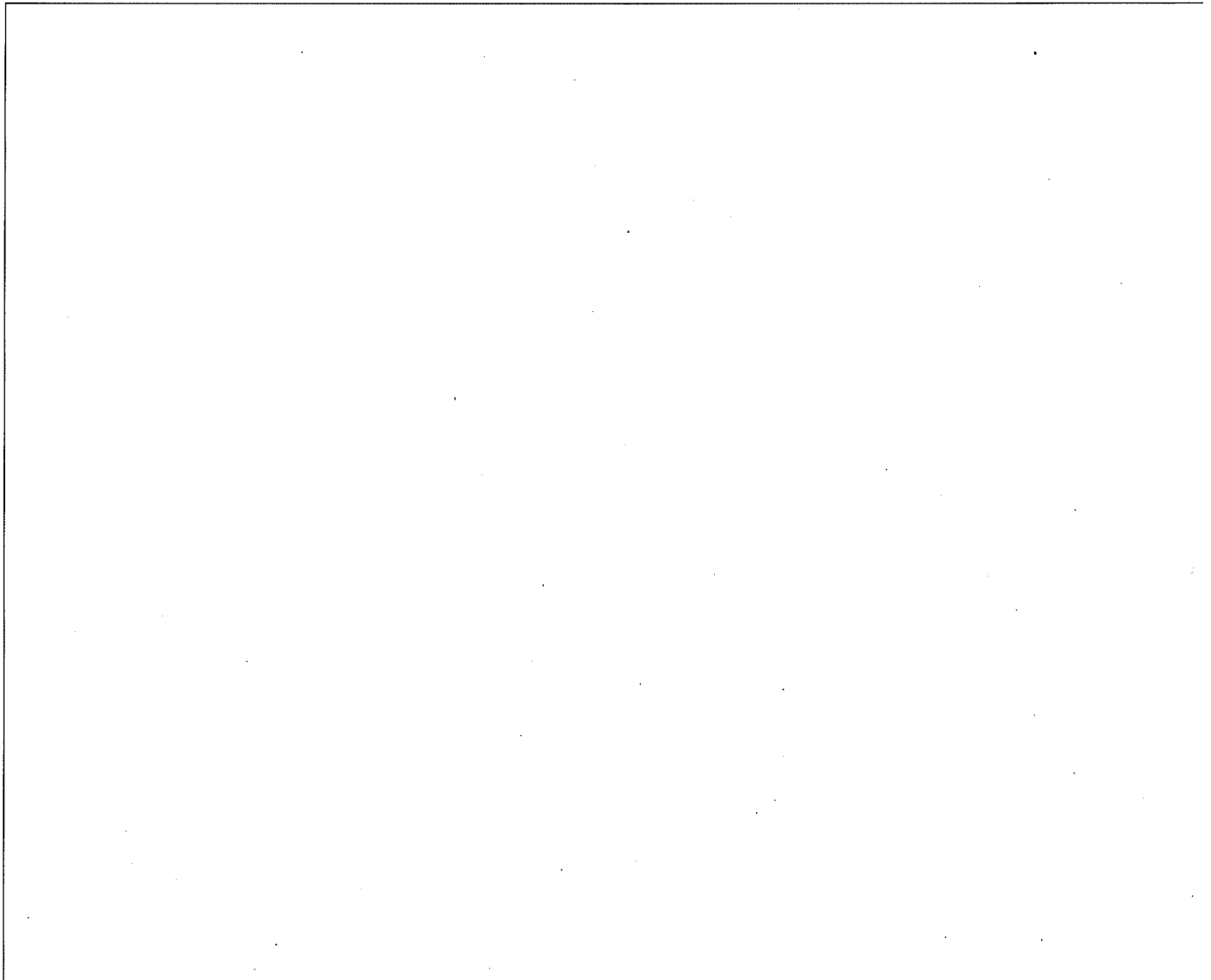
- *New, Immediate Actions (2007-2009):*

- The WRIA 17 Planning Unit will hold an annual project prioritization workshop that will

include salmon recovery projects. The Planning Unit will encourage project sponsors to come to it for support.

- The WRIA 17 Planning Unit will encourage its members and others to continue their efforts. Examples of these efforts include: The Pacific Ecological Institute and Wild Fish Conservancy will work with the Jefferson County Conservation District, NOSC, WSU, Jefferson County, the Jamestown S'Klallam Tribe, HCCC, HCSEG, and others to coordinate their salmon habitat restoration and protection efforts in the Little Quilcene and Leland Creek basins.
 - Develop comprehensive public outreach/education strategy (value of healthy habitats and habitat restoration efforts)
 - Determine how to work with state agencies to improve accessibility of water quality data.
 - Develop strategy for field-verifying sensitive areas.
 - Integrate new data into maps as it becomes available.
 - Inventory private culverts/update inventory of private culverts.
 - Discuss role of Technical Committee in managing data.
 - Inventory local data collection efforts.
 - Find funding for water quality, JCCD programs, citizen-based salmon habitat programs, replacing culverts, and coordination across agencies.
 - Support projects that fit within WRIA 17 project priorities.
 - Encourage member organizations and others to implement strategies from the Summer Chum Recovery Plan and Lead Entity three-year work plans.
 - Forge partnership with Jefferson County Public Works.
 - Request that citizen-based groups be eligible for Ecology grants.
- *New, Near-Term Actions (2010-2012):*
- Assess actual water use.
 - Continue to work with state agencies to improve water quality data accessibility, as needed.
 - Assess whether stormwater problems on private roads affect public roads.
 - Develop and implement long-term schedule for field-verifying sensitive areas.
 - Support Jefferson County as it implements programs.
 - Maintain list of local data efforts.
 - Develop data-management capabilities or urge others to do so.
- *New, Long-Term Actions:*
- Continue to work with state agencies to improve water quality data accessibility, as needed.
 - Implement long-term schedule for field-verifying sensitive areas.
 - Update inventory of private culverts.
 - Maintain list of local data collection efforts.
 - Maintain role in data collection/sharing.
 - Find funding for education programs, water quality, JCCD programs, field-verifying sensitive areas, culvert replacement, citizen-based habitat programs, coordination across agencies.
 - Encourage members to implement strategies from the Summer Chum Salmon Recovery Plan and Lead Entity three-year work plans.
 - Support Jefferson County as it implements programs.

Source: Detailed Implementation Plan for the Quilcene-Snow Water Resource Inventory Area (WRIA 17), dated October 9, 2007, found at http://www.wria17.org/pdf/FINAL_WRIA_17_DIP_10-9-07.pdf.



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?

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 No x

If yes, please describe:

Does a water measurement device exist on the source and downstream of the proposed project?

yes x no

If no, will a water measurement device be installed as part of this project? Yes No x

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

River mile :

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).

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).

Design/Engineering Status:

- Pre-planning (pre - permitting) Status:
- Pre-design (design reports) (10%) 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:

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.

_____/_____/_____
(Applicant/ Grant Recipient) (Date)

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

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

For More Information Contact:

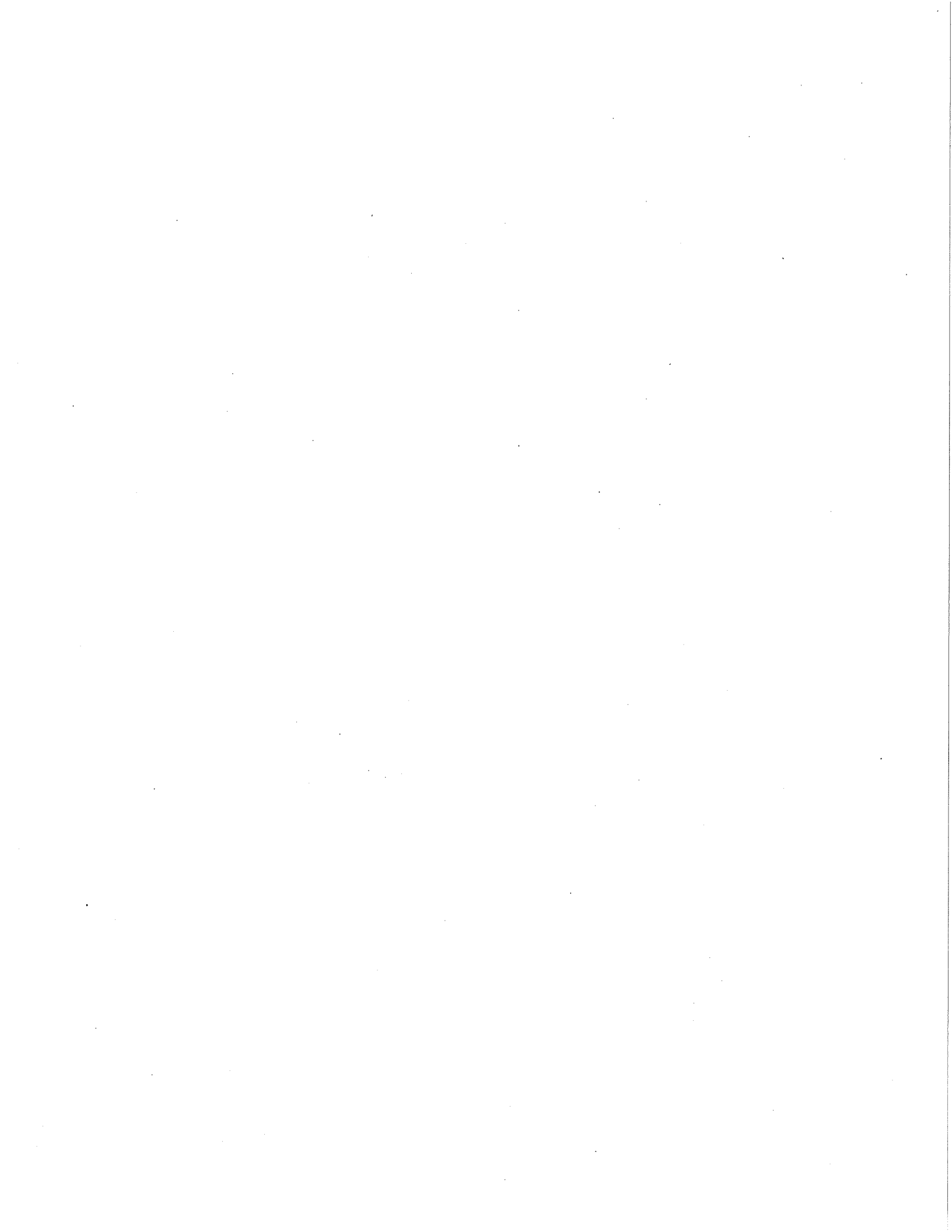
Dave Burdick

Voice: (360) 407-6094

Email: dbur461@ecy.wa.gov

Web: <http://www.ecy.wa.gov/watershed/Ind ex.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.



Dave Burdick
Washington Department of Ecology – Water Resources Program
PO Box 47600
Olympia, WA 98504-7600

Dear Mr. Burdick,

I am writing to express the WRIA 17 Planning Unit's support for Jefferson County Conservation District and Pacific Ecological Institute's capital grant proposal entitled "Leland Valley Road W Culvert Replacement." This project would provide vital design and engineering services to remove a complete fish passage barrier, eventually restoring access to Leland Creek to many fish species, including endangered steelhead and summer chum.

The WRIA 17 Planning Unit voted to support this project at its December 9, 2008 meeting.

Thank you for your attention to this matter. If you have any questions or would like to discuss this further, please do not hesitate to contact me at laura@blackmoreconsulting.com or 206-257-0867, or Phil Wiatrak, Ecology's representative to the WRIA 17 Planning Unit, at pwia461@ecy.wa.gov or 360-407-6652.

Sincerely,

Laura Blackmore
WRIA 17 Project Manager and Facilitator

