



2009

WASHINGTON STATE Joint Aquatic Resources Permit Application (JARPA) Form [\[help\]](#)



US Army Corps
of Engineers®
Seattle District

AGENCY USE ONLY

Date received: _____

Agency reference #: _____

Tax Parcel #(s): _____

USE BLACK OR BLUE INK TO ENTER ANSWERS IN WHITE SPACES BELOW.

Part 1—Project Identification

Unique project information that makes it easy to identify. [\[help\]](#)

1a. Unique Project Identifier Number (UPI #) [help]	
<ul style="list-style-type: none"> Don't have one yet? Get one at http://www.epermitting.wa.gov or call the Washington Governor's Office of Regulatory Assistance at (800) 917-0043. 	
655893-09-01	
1b. Project Name (Examples: Smith's Dock or Seabrook Lane Development) [help]	
Cle Elum River Habitat Restoration Project	

Part 2—Applicant

The person or organization legally responsible for the project. [\[help\]](#)

2a. Name (Last, First, Middle) and Organization (if applicable)			
Gerth, David – Kittitas Conservation Trust (KCT)			
2b. Mailing Address (Street or PO Box)			
PO Box 428			
2c. City, State, Zip			
Roslyn, WA 98941-0428			
2d. Phone (1)	2e. Phone (2)	2f. Fax	2g. E-mail
(509) 649-2951	(509) 674-8581	(509) 649-2867	kct@inlandnet.com

Part 3—Authorized Agent or Contact

Person authorized to represent the applicant about the project. (Note: Authorized agent(s) must sign 11b. of this application.) [\[help\]](#)

3a. Name (Last, First, Middle) and Organization (if applicable)			
3b. Mailing Address (Street or PO Box)			
3c. City, State, Zip			
3d. Phone (1)	3e. Phone (2)	3f. Fax	3g. E-mail
()	()	()	

Part 4–Property Owner(s) [\[help\]](#)

Contact information for people or organizations owning the property(ies) where the project will occur. [\[help\]](#)

Same as applicant. (Skip to Part 5.)

Repair or maintenance activities on existing rights-of-way or easements. (Skip to Part 5.)

There are multiple property owners. Complete the section below and use [JARPA Attachment A](#) for each additional property owner.

4a. Name (Last, First, Middle) and Organization (if applicable)			
Eisenberg, Paul –Sr. Vice President, Suncadia, LLC			
4b. Mailing Address (Street or PO Box)			
4244 Bullfrog Road, Suite 1			
4c. City, State, Zip			
Cle Elum, WA 98922			
4d. Phone (1)	4e. Phone (2)	4f. Fax	4g. E-mail
(509) 649-3000	()	(509) 649-6251	

Part 5–Project Location(s)

Identifying information about the property or properties where the project will occur. [\[help\]](#)

There are multiple properties or project locations (e.g., linear projects). Complete the section below and use [JARPA Attachment B](#) for each additional property.

5a. Street Address (Cannot be a PO Box. If there is no address, provide other location information in 5n.) [help]			
No street address, travel north on Hwy 903, turn left on Winston Road, project area is at the end of this road			
5b. City, State, Zip (If the project is not in a city or town, provide the name of the nearest city or town.) [help]			
Near Ronald, WA 98940			
5c. County [help]			
Kittitas			
5d. Provide the section, township, and range for the project location. [help]			
¼ Section	Section	Township	Range
SW	11	20 N	14 E
5e. Provide the latitude and longitude of the project location. [help]			
• Example: 47.03922 N lat. / -122.89142 W long			
47.23417 N and -121.05722 W			
5f. List the tax parcel number(s) for the project location. [help]			
• The local county assessor's office can provide this information.			
542534, 11898, 830134, 11839			
5g. Indicate the type of ownership of the property. (Check all that apply.) [help]			
<input type="checkbox"/> State Owned Aquatic Land <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Private			
<input checked="" type="checkbox"/> Other publicly owned (federal , state, county, city, special districts like schools, ports, etc.)			

5h. Contact information for all adjoining property owners, lessees, etc. (If you need more space, use [JARPA Attachment C.](#)) [\[help\]](#)

Name	Mailing Address	Tax Parcel # (if known)
Bureau of Reclamation—Yakima Field Office	1917 Marsh Road	
Dawn Wiedmeier, Deputy Area Manager	Yakima, WA 98901-2058	

5i. Is any part of the project area within a 100-year flood plain? [\[help\]](#)

Yes No Don't know

5j. Briefly describe the vegetation and habitat conditions on the property. [\[help\]](#)

The side channel complex is well vegetated with native trees and shrubs. Some gravel bars and meadow like areas exist throughout this reach of the Cle Elum River as well. The left bank of the Cle Elum River is less densely vegetated as previous clearing is still evident. The entire floodplain of the lower Cle Elum River has been protected from development in perpetuity. The Cle Elum River Corridor Conservation Easement is managed and enforced by the Kittitas Conservation Trust to ensure there is no development and that the habitat is enhanced such that it benefits native fish, wildlife, and vegetation.

5k. Describe how the property is currently used. [\[help\]](#)

The United States Forest Service manages the property surrounding the Cle Elum River downstream of the Cle Elum Dam to the approximate locations of the two primary ELJs and Suncadia's Cle Elum River Corridor Conservation Easement has the property surrounding the river downstream for nearly 6 miles. Outside of the conservation easement (and geomorphic floodplain), Suncadia has plans for future development. Construction of some of the roadways for this development will provide many of the logs necessary to complete the restoration project. (NOTE: The removal of this wood and development are previously permitted actions and are not a part of this application.) The property surrounding the proposed project is currently managed for fish and wildlife habitat as well as low impact public recreation.

5l. Describe how the adjacent properties are currently used. [\[help\]](#)

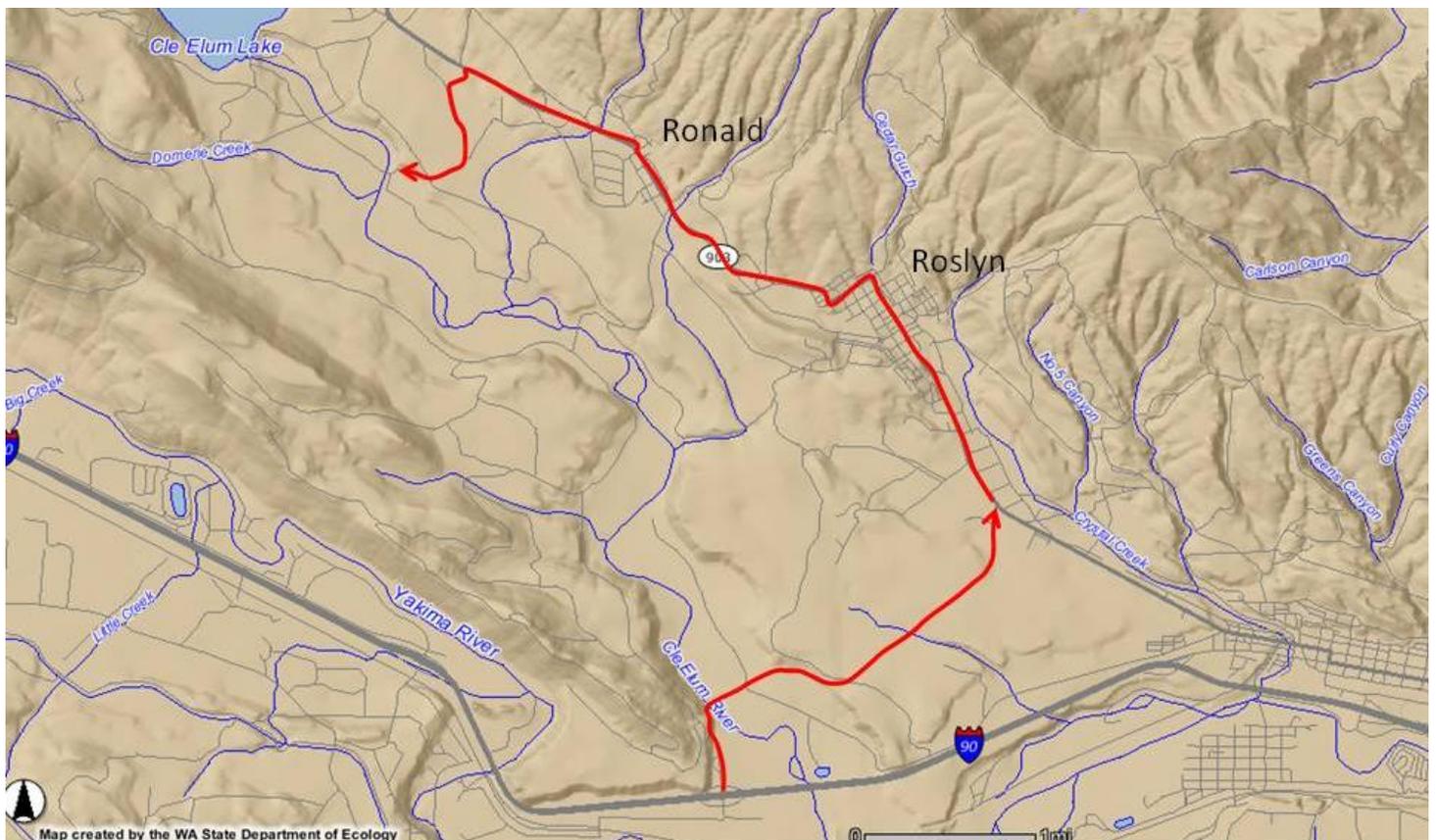
Currently, the floodplain of the lower Cle Elum River is protected from development with Conservation Easements and federal ownership so much of the native vegetation still exists. Lands outside of the floodplain are being developed quickly as part of Suncadia's expansion as well as other housing developments. Recreational users access the river on Forest Service property for angling opportunities and/or to float down the river.

5m. Describe the structures (above and below ground) on the property, including their purpose(s). [\[help\]](#)

The City of Cle Elum previously diverted the City's water source from the Cle Elum River at the site of the left bank primary ELJ. There is a large concrete diversion structure at this site that is no longer used. The core box for the log jam will be placed around this structure and it will be used to help stabilize the ELJ and provide some ballast upon project completion. There are informal roads, parking areas and river access points along the left bank of the river as well.

5n. Provide driving directions from the closest highway to the project location, and attach a map. [\[help\]](#)

From Interstate 90, take exit #80 (Roslyn/Bull Frog) and travel north on Bull Frog Road until the roundabout. Continue north on State Highway 903 through Roslyn and Ronald. Turn left onto Winston Road and follow it down a winding hill (turns into Bakers Road) until it stops near the river. At this point, you are very close to the proposed location of the left bank primary ELJ.



Part 6–Project Description

6a. Summarize the overall project. You can provide more detail in 6d. [\[help\]](#)

Two large Engineered Log Jams (ELJ) are proposed in the lower Cle Elum River to direct perennial flows into a nearly three mile historic side-channel complex downstream of Cle Elum Dam. Six smaller ELJs will be constructed along the pilot channel that will be excavated to initiate flows into the restored side channel. Under current conditions, the side channel complex is only watered up during high flow events, which occur in the dry summer months due to management of Cle Elum Lake and the Cle Elum Dam for irrigation flows. As flows are

reduced, fish and other aquatic organisms can become entrained in the side channel complex. Completion of the proposed project will serve to begin the rejuvenation of natural floodplain processes and enhance the available salmonid rearing habitat in the Upper Yakima Basin.

6b. Indicate the project category. (Check all that apply.) [\[help\]](#)

- Commercial
 Residential
 Institutional
 Transportation
 Recreational
 Maintenance
 Environmental Enhancement

6c. Indicate the major elements of your project. (Check all that apply.) [\[help\]](#)

- | | | | |
|--|---|--|--|
| <input type="checkbox"/> Aquaculture | <input type="checkbox"/> Culvert | <input type="checkbox"/> Float | <input type="checkbox"/> Road |
| <input type="checkbox"/> Bank Stabilization | <input type="checkbox"/> Dam / Weir | <input type="checkbox"/> Geotechnical Survey | <input type="checkbox"/> Scientific Measurement Device |
| <input type="checkbox"/> Boat House | <input type="checkbox"/> Dike / Levee / Jetty | <input type="checkbox"/> Land Clearing | <input type="checkbox"/> Stairs |
| <input type="checkbox"/> Boat Launch | <input type="checkbox"/> Ditch | <input type="checkbox"/> Marina / Moorage | <input type="checkbox"/> Stormwater facility |
| <input type="checkbox"/> Boat Lift | <input type="checkbox"/> Dock / Pier | <input type="checkbox"/> Mining | <input type="checkbox"/> Swimming Pool |
| <input type="checkbox"/> Bridge | <input type="checkbox"/> Dredging | <input type="checkbox"/> Outfall Structure | <input type="checkbox"/> Utility Line |
| <input type="checkbox"/> Bulkhead | <input type="checkbox"/> Fence | <input type="checkbox"/> Piling | |
| <input type="checkbox"/> Buoy | <input type="checkbox"/> Ferry Terminal | <input type="checkbox"/> Retaining Wall (upland) | |
| <input checked="" type="checkbox"/> Channel Modification | <input type="checkbox"/> Fishway | | |

Other: _____

6d. Describe how you plan to construct each project element checked in 6c. Include specific construction methods and equipment to be used. [\[help\]](#)

- Identify where each element will occur in relation to the nearest waterbody.
- Indicate which activities are within the 100-year flood plain.

All work will occur within the 100 year floodplain of the Cle Elum River.

Timing

This project is proposed in a phased approach to minimize impacts to sensitive species and the environment. Staging of the logs and wood will begin in the summer of 2009. This staging will continue until ELJ construction, as the logs are acquired. All instream work will occur between September 1 and November 30, 2009 during low flow conditions to minimize erosion and sediment delivery and to protect fish populations. Side channel excavation and secondary ELJ construction will occur as soon as the flows are reduced in September. This work will occur in the dry because the side channel is dewatered when the flows are low. The core boxes for the primary ELJs will be constructed on dry land then placed in the active channel. Completion of their construction will occur within the wetted channel. Riparian and site restoration will occur immediately upon completion of the project.

Construction of Temporary Access Road

Access roads currently exist to the project site on both banks. The right bank access road will require the removal of some saplings and shrubs which will be replanted on site or grubbed such that they will have rigorous growth in the next growing season. The temporary access road near the head end of the side channel on the right bank will be decommissioned, ripped if necessary upon project completion, and will be mulched and planted with native vegetation during site restoration.

Water Crossings

Domerie Creek—A temporary railroad flat car bridge will be placed over Domerie Creek such that there will be no vehicular or equipment crossings in the wetted width. The bridge site and approaches will be restored upon project completion.

Cle Elum River—No more than 15 roundtrip crossings will occur in the Cle Elum River to accommodate material transfer in the most efficient manner. These crossings will be perpendicular to the flow and there will be no turning of equipment within the wetted perimeter. Crossings will occur on nearby riffles where there is coarse substrate.

Domerie Side Channel—There will be no more than eight round trip crossings over the rewatered side channel. These will occur at right angles to the flow and in the fewest possible trips to avoid negative impacts to the bed, banks, and aquatic organisms in the side channel.

Staging of Materials and Equipment Limitations

The logs for the proposed log jams will be donated by Suncadia from nearby forestlands on both sides of the Cle Elum River where clearing for roads within the Suncadia Master Planned Resort will occur. Whole trees with rootwads, will be staged at two locations during the summer of 2009 (Figure 1). The two staging areas are located in sites with little existing vegetation and total area will be approximately 2 acres; enough to stage up to 400 pieces of wood. The staging areas will be completely restored upon project completion; the ground may be ripped slightly if compaction of soils occurred and the areas will be planted with native vegetation.

Service and refueling areas (including those for chainsaws and other hand powered tools) will be located 150 feet away from stream courses or wet areas. A spill containment kit will be located where equipment is stored and shall remain onsite at all times. Any equipment working within the ordinary high water marks shall be maintained in good working conditions such that petroleum products or other harmful chemicals are not leaked into the river, its banks, or its bed. Hydraulic/oil/fuel leaks will be repaired prior to entering the project area, and equipment will be checked daily for leaks and any necessary repairs shall be completed prior to commencing work activities within the floodplain. Fish friendly lubricants will be used in large equipment to the greatest extent practicable.

Work shall be accomplished using an excavator equipped with a "thumb", or equivalent piece of equipment. The equipment shall operate from the bank as much as possible and shall be scrubbed so it is free of external petroleum-based products

and invasive plant seeds or biomass prior to entering the project area. Travel over and within the creek beds shall be limited to the minimum amount necessary, and to the most direct route which results in the least impact on the streambed and vegetation. Turning of equipment within flowing water shall be avoided to the greatest extent practicable and the operator shall use the boom of the excavator to lift the front of the machine onto the bank.

Work in flowing water will be minimized. All work within the side channel will be completed in the dry due to low flows in the Cle Elum River during the proposed work window. The core boxes for the primary log jams will be constructed on dry land then placed into the river and backfilled for ballast and stability. Low flow conditions will minimize the amount of instream disturbance and potential impacts from working within the wetted width of the channel. These actions will be less impacting to the stream bed and aquatic species than construction of isolation dams around the project areas and subsequent fish salvage.

Channel Excavation and Secondary Log Jam Construction

Once material is staged and equipment has been mobilized, approximately 1000 feet of perched side channel will be excavated, leaving a small earthen plug to prevent rewatering of the side channel during the secondary ELJ construction. The inlet channel will be approximately 20 feet wide at the confluence, with banks contoured 3:1 or less such that they conform to the adjacent topography. The slope of this channel will be approximately 0.15%, meeting the grade of the existing side channel. This excavation will displace approximately 2000 cubic yards of native riverbed material, which will be used as backfill for the primary ELJ construction and their associated gravel nourishment bars.

Within the excavated side channel area, secondary ELJs will be constructed in the dry (see design drawings). These structures will consist of 4-10 logs and will be placed as site conditions allow and as determined by biologists and engineers on site. These structures will provide scour pools and instream cover for aquatic species, and are designed to catch additional debris during high flow events. Pile driven logs will likely serve as the anchoring method for these structures to eliminate the need for ballast rock or other nonnative material being introduced to the side channel. Backfill from channel excavation will be used to cover these structures and disturbed areas will be replanted with native vegetation.

Primary ELJ Construction

There are two primary ELJ structures that will bear the most energy from the Cle Elum River and will be designed to alter the current flow pattern of this waterbody such that the Domerie side channel complex maintains its connection with the Cle Elum River year round. The construction techniques for each ELJ will be nearly identical.

A core box will be constructed for each of the two primary log jams on dry land (see design drawings); the west bank jam will be constructed first and this will be the primary structure for elevating the water surface so there will be perennial flow in the Domerie side channel complex. The core box for this log jam will be approximately 70 feet long by 70 feet wide. The footer logs will be cabled to every other floor member and the front of the core box will be left open for placement of additional racking material and flare logs. The core box will be placed on the existing grade line of the Cle Elum River bed, so no instream or bank excavation is required. The top of the core box shall be placed at the expected 100 year flood elevation. Once the core box has been placed on the channel bed, rock ballast will be added along with placing flare logs and the remaining log layers. More rock ballast will be added and the log jam will be backfilled with material excavated from the head end of the side channel and the voids between existing bank line and ELJ will be filled such that the core box becomes part of the bank. A gravel nourishment bar will be constructed downstream of the jam and revegetated with native plants. Graphic details of construction are contained in the attached engineering exhibits.

Upon completion of the west bank log jam, the earthen plug in the side channel will be removed to allow flow to enter the side channel slowly. The secondary log jams will be monitored to ensure they are functioning as designed.

Equipment will cross the river and the east bank log jam will be constructed in the same manner as the west bank jam, but the core box will be smaller; about 50 feet long by 50 feet wide. The main function of the left bank jam will be to deflect flow toward the side channel inlet, as well as helping to maintain the water surface elevation necessary for perennial flow in the side channel complex.

Each primary log jam will decrease the width to depth ratio of the Cle Elum River and will provide valuable instream cover and complexity for aquatic species.

Site Restoration and Revegetation

Upon completion of this project, all disturbed areas, including temporary access roads and staging areas, will be regraded

to natural contours and will be planted with native vegetation. If necessary, areas with compacted soils will be ripped prior to replanting to increase plant survival and vigor. The tops of the primary ELJs will also be revegetated using suitable native vegetation. Short-term stabilization measures in disturbed areas may include using erosion control fabric and/or mulch to prevent erosion prior to the establishment of more hearty native vegetation. Temporary access routes and staging areas will be abandoned and returned to pre-construction conditions. The riparian vegetation throughout the side channel complex is already a healthy, functional buffer that will provide a good source of stakes. This will help ensure that locally adapted species are used in the restoration effort.

Project Monitoring

Project sponsors will visit the site regularly to monitor the structural integrity and function of the ELJs. It is important to note that the primary ELJs are expected to settle and shift through time, so their function will be monitored to ensure Domerie Creek side channel has perennial flow. Newly planted vegetation will also be monitored during these visits and invasive species will be mechanically controlled such that native vegetation can reestablish in the disturbed areas.

A grant application has been submitted to fund a comprehensive water quality monitoring program that will evaluate water quality parameters such as temperature, flow, and hyporheic interaction through time, before and after project implementation.

6e. What are the start and end dates for project construction? (month/year) [\[help\]](#)

- If the project will be constructed in phases or stages, use [JARPA Attachment D](#) to list the start and end dates of each phase or stage.

Start date: June 2009 End date: June 2010 See JARPA Attachment D

6f. Describe the purpose of the work and why you want or need to perform it. [\[help\]](#)

The purpose of this project is to enhance side channel habitat and overall floodplain function. Implementation of this project will provide perennial flow to a high quality side channel complex and prevent the annual entrainment of fishes and other aquatic organisms caused by the reduced flows in the fall. The lack of functional side channel and floodplain habitat have been identified as limiting factors to salmon and steelhead recovery in the Yakima Basin. The proposed project would provide nearly 3 miles of high quality salmonid rearing habitat as well as enhancing riparian habitat and water quality within this reach of the Cle Elum River.

6g. Fair market value of the project, including materials, labor, machine rentals, etc. [\[help\]](#)

\$900,000

6h. Will any portion of the project receive federal funding? [\[help\]](#)

- If **yes**, list each agency providing funds.

Yes No Don't know

USFWS, SRFB

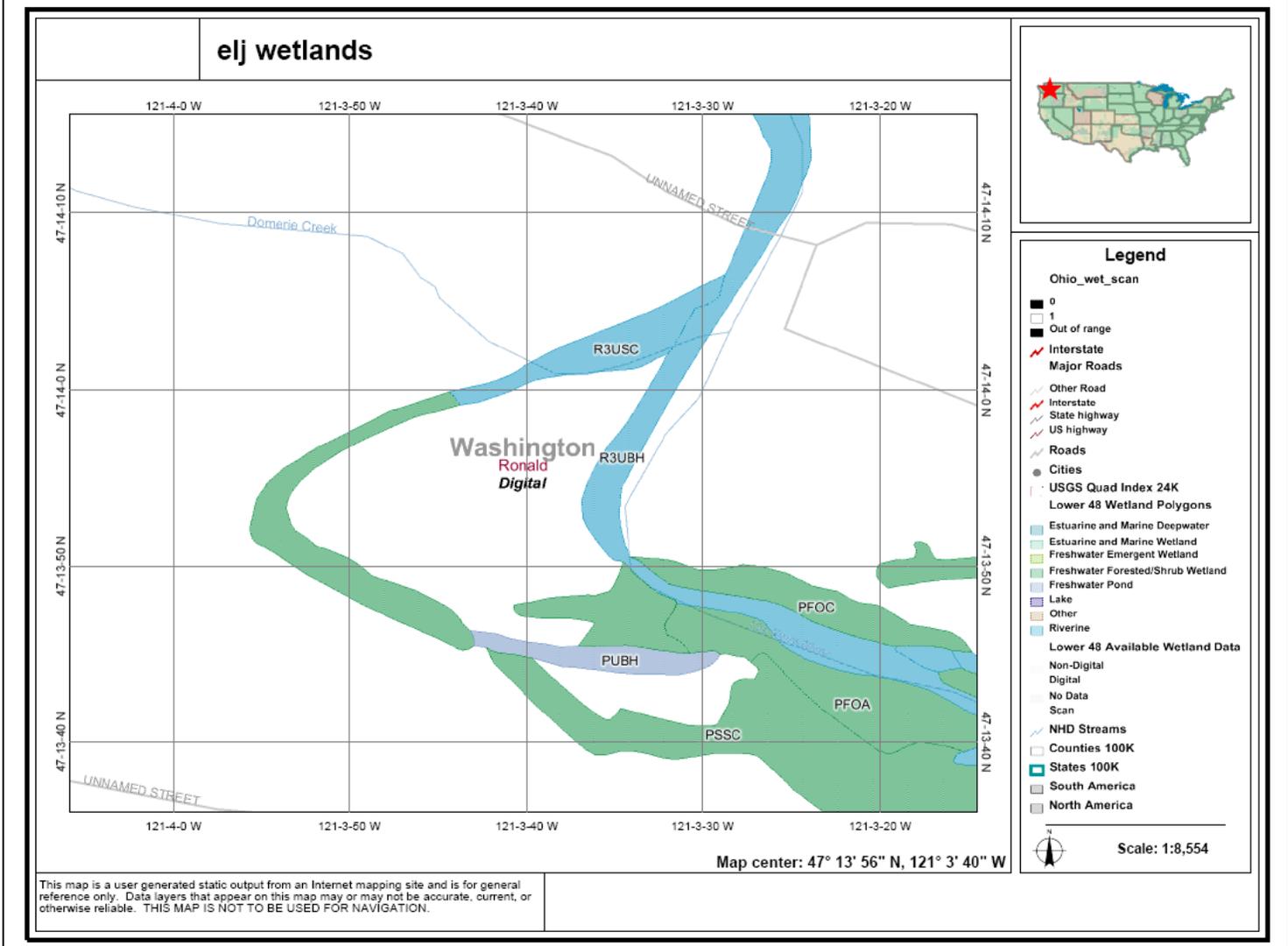
Part 7–Wetlands: Impacts and Mitigation

Check here if there are wetlands or wetland buffers on or adjacent to the project area.
(If there are none, skip to Part 8.)

7a. Describe how the project has been designed to avoid and minimize adverse impacts to wetlands. [\[help\]](#)

Not applicable

The project is designed to restore floodplain function to more closely resemble historic conditions. The project footprint will be minimized to the greatest extent practicable and upon completion should enhance the wetland functions throughout the project area. The project has been planned, funded and designed as a restoration project for water quality, instream and riparian habitat parameters. The identified wetlands on this project site are located within the side channel bed and the river bed (National Wetlands Inventory). See part 8 for how impacts to all water bodies will be minimized.



7b. Will the project impact wetlands? [\[help\]](#)

Yes No Don't know

7c. Will the project impact wetland buffers? [\[help\]](#)

Yes No Don't know

7d. Has a wetland delineation report been prepared? [\[help\]](#)

- If yes, submit the report, including data sheets, with the JARPA package.

Yes No

7e. Have the wetlands been rated using the Western Washington or Eastern Washington Wetland Rating System? [\[help\]](#)

- If yes, submit the wetland rating forms and figures with the JARPA package.

Yes No Don't know

7f. Have you prepared a mitigation plan to compensate for any adverse impacts to wetlands? [\[help\]](#)

- If yes, submit the plan with the JARPA package.

Yes No Not applicable

7g. Use the table below to list the type and rating of each wetland that will be impacted; the extent and duration of the impact; and the type and amount of compensatory mitigation proposed. If you are submitting a compensatory mitigation plan with a similar table, you may simply state (below) where we can find this information in the mitigation plan. [\[help\]](#)

Activity causing impact (fill, drain, excavate, flood, etc.)	Wetland type and rating category ¹	Impact area (sq. ft. or acres)	Duration of impact ²	Proposed mitigation type ³	Wetland mitigation area (sq. ft. or acres)
Excavate inlet	Riverine	1000 linear feet	Permanent	Enhancement	3 miles
Fill-Construct ELJS	Riverine	0.5 acre	Permanent	Enhancement	3 miles

¹ Ecology wetland category based on current Western Washington or Eastern Washington Wetland Rating System. Provide the wetland rating forms with the JARPA package.

² Indicate the time (in months or years, as appropriate) the wetland will be measurably impacted by the activity. Enter "permanent" if applicable.

³ Creation (C), Re-establishment/Rehabilitation (R), Enhancement (E), Preservation (P), Mitigation Bank/In-lieu fee (B)

Page number(s) for similar information in the mitigation plan, if available: _____

7h. For all filling activities identified in 7g., describe the source and nature of the fill material, the amount in cubic yards that will be used, and how and where it will be placed into the wetland. [\[help\]](#)

Please see Part 8 below

7i. For all excavating activities identified in 7g., describe the excavation method, type and amount of material in cubic yards you will remove, and where the material will be disposed. [\[help\]](#)

Please see Part 8 below

7j. Summarize what the compensatory mitigation plan is meant to accomplish, and describe how a watershed approach was used to design the plan. [\[help\]](#)

Not applicable, there is no compensatory mitigation plan.

Part 8–Waterbodies (other than wetlands): Impacts and Mitigation

In Part 8, "waterbodies" refers to non-wetland waterbodies. (See Part 7 for information related to wetlands.) [\[help\]](#)

Check here if there are waterbodies on or adjacent to the project area. (If there are none, skip to Part 9.)

8a. Describe how the project is designed to avoid and minimize adverse impacts to the aquatic environment. [\[help\]](#)

Not applicable

In addition to the conservation measures that are outlined in the SRFB HRP BiOp and the Corps of Engineers Restoration Programmatic that will be followed during implementation of this project, several local resource managers, regulatory agencies, and stake holders have recommended measures that will help minimize the short term impacts associated with in-water restoration activities. The original proposal included piling driving as an anchoring mechanism for the primary ELJs and working in the spring of the year. The potential for acoustic impacts on salmon and steelhead eggs and alevins were seen as too high under that proposed scenario, so the design of the primary ELJs changed to a core box with rock ballast, requiring very little or no bed or bank excavation in the Cle Elum River and the Cle Elum River will not be diverted during construction. Additionally, by constructing the project in the fall of the year, project sponsors can work closely with the BOR who has agreed to do the best that they can to retain any potential flood flows behind Cle Elum Dam because the reservoir will not be at full pool in the fall. Under the current proposal, impacts to listed Steelhead and bull trout should be minimized as well as other salmonids and native species present.

Working under low flow conditions minimizes impacts caused by increased turbidity. Much of the proposed project will occur outside of the wetted perimeter and turbidity will be monitored downstream. If turbidity exceeds 5 NTUs 300 feet downstream, outside of the mixing zone, immediate measures will be applied to reduce turbidity and protect downstream Spring Chinook salmon redds from sedimentation.

8b. Will your project impact a waterbody or the area around a waterbody? [\[help\]](#)

Yes No

8c. Summarize impact(s) to each waterbody in the table below. [\[help\]](#)

Activity causing impact (clear, dredge, fill, pile drive, etc.)	Waterbody name	Impact location ¹	Duration of impact ²	Amount of material to be placed in or removed from waterbody	Area (sq. ft. or linear ft.) of waterbody directly affected
Temp. access road and staging	Cle Elum River	Adjacent-100 feet from banks, within 100 yr floodplain	12 months	Up to 400 trees	2 acres of gravel bar temporarily occupied
Excavate inlet channel	Domerie Side Channel	In dry channel	Permanent	2000 cubic yards	1000 linear feet
Pile drive and fill 6 Secondary ELJs	Domerie Side channel	In dry channel	Permanent	Up to 25 pile driven logs, 60 cubic yards fill	300 linear feet
Fill right bank ELJ	Cle Elum River	In low flows	Permanent	3200 cubic yards for rock ballast and gravel bar nourishment, plus ~200 logs	200 linear feet
Excavate side channel plug	Domerie Side Channel	In low flows	Permanent	50 cubic yards	50 linear feet
Fill left bank ELJ	Cle Elum river	In low flows	Permanent	1400 cubic yards for rock ballast and gravel bar nourishment, plus ~150 trees	150 linear feet

¹ Indicate whether the impact will occur in or adjacent to the waterbody. If adjacent, provide the distance between the impact and the waterbody and indicate whether the impact will occur within the 100-year flood plain.

² Indicate the time (in months or years, as appropriate) the waterbody will be measurably impacted by the work. Enter "permanent" if applicable.

8d. Have you prepared a mitigation plan to compensate for the project's adverse impacts to non-wetland waterbodies? [\[help\]](#)

• If **yes**, submit the plan with the JARPA package.

Yes No Not applicable

8e. Summarize what the compensatory mitigation plan is meant to accomplish. Describe how a watershed approach was used to design the plan.
 • If you already completed 7j., you do not need to restate your answer here. [\[help\]](#)

Not applicable~this is a restoration and enhancement project that is not mitigation. Watershed analyses indicate that floodplain and side channel habitat are limiting factors for salmonid restoration in the Yakima Basin and the Upper Yakima has a TMDL for water temperatures. The proposed project should have beneficial effects to both aspects of restoration.

8f. For all activities identified in 8c., describe the source and nature of the fill material, amount (in cubic yards) you will use, and how and where it will be placed into the waterbody. [\[help\]](#)

Native alluvium from the excavation of the side channel will be used for the gravel nourishment bars associated with each primary log jam as well as some ballast for the secondary log jams. Boulders (3') will be brought in from a local quarry to provide additional ballast for each log jam. The amount of material is detailed in 8c above and is attached to this JARPA in the design drawings and details on materials.

8g. For all excavating or dredging activities identified in 8c., describe the method for excavating or dredging, type and amount of material you will remove, and where the material will be disposed. [\[help\]](#)

A tracked excavator or similar piece of equipment will be used to excavate the inlet channel at the upstream end of the Domerie Side Channel. Approximately 2000 cubic yards of native alluvial material will be moved with a dump truck and staged for use in construction of the ELJ structures. All native material removed during construction will be incorporated into the design. If any nonnative debris and/or garbage is encountered, it will be disposed of offsite and outside of the 100 year floodplain elevation in an approved site.

Part 9—Additional Information

Any additional information you can provide helps the reviewer(s) understand your project.

9a. If you have already worked with any government agencies on this project, list them below. [\[help\]](#)

Agency Name	Contact Name	Phone	Most Recent Date of Contact
US Army Corps of Engineers	Amy Klein	(206) 766-6438	February 6, 2009—preconsult email communication, attached
Please see the attached list from the Technical Working Group. Several regulatory entities were present and other stakeholders. The meeting was held March 19, 2009.			
Washington Department of Natural Resources	Joy Polston-Barnes	(360) 767-7003	December 15, 2008

9b. Are any of the wetlands or waterbodies identified in Part 7 or Part 8 on the Washington Department of Ecology’s 303(d) List? [\[help\]](#)

• If **yes**, list the parameter(s) below.
 • If you don’t know, use Washington Department of Ecology’s Water Quality Assessment tools at: <http://www.ecy.wa.gov/programs/wq/303d/>.

Yes No

Temperature

9c. What U.S. Geological Survey Hydrological Unit Code (HUC) is the project in? [\[help\]](#)

- Go to <http://cfpub.epa.gov/surf/locate/index.cfm> to help identify the HUC.

17030001 Upper Yakima River

9d. What Water Resource Inventory Area Number (WRIA #) is the project in? [\[help\]](#)

- Go to <http://www.ecy.wa.gov/services/gis/maps/wria/wria.htm> to find the WRIA #.

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9e. Will the in-water construction work comply with the State of Washington water quality standards for turbidity? [\[help\]](#)

- Go to <http://www.ecy.wa.gov/programs/wq/swqs/criteria.html> for the standards.

Yes No Not applicable

9f. If the project is within the jurisdiction of the Shoreline Management Act, what is the local shoreline environment designation? [\[help\]](#)

- If you don't know, contact the local planning department.
- For more information, go to: http://www.ecy.wa.gov/programs/sea/sma/laws_rules/173-26/211_designations.html.

Rural Urban Natural Aquatic Conservancy Other _____

9g. What is the Washington Department of Natural Resources Water Type? [\[help\]](#)

- Go to http://www.dnr.wa.gov/BusinessPermits/Topics/ForestPracticesApplications/Pages/fp_watertyping.aspx for the Forest Practices Water Typing System.

S F Np Ns

9h. Will this project be designed to meet the Washington Department of Ecology's most current stormwater manual? [\[help\]](#)

- If no, provide the name of the manual your project is designed to meet.

Yes No

Name of manual: Stormwater management Manual for Eastern Washington (2004)

9i. If you know what the property was used for in the past, describe below. [\[help\]](#)

The area surrounding the project has been commercially logged in the past.

9j. Has a cultural resource (archaeological) survey been performed on the project area? [\[help\]](#)

- If yes, attach it to your JARPA package.

Yes No

9k. Name each species listed under the federal Endangered Species Act that occurs in the vicinity of the project area or might be affected by the proposed work. [\[help\]](#)

Middle Columbia River Steelhead, Columbia River Bull Trout, Northern Spotted Owls, Grizzly Bear, Gray Wolf, Ute Ladies'-tresses

9l. Name each species or habitat on the Washington Department of Fish and Wildlife's Priority Habitats and Species List that might be affected by the proposed work. [\[help\]](#)

Aspen Stands, Biodiversity Areas & Corridors, Mature Forest, Riparian, Instream, Freshwater Wetlands, Snags & Logs, Mountain Sucker, Bull Trout, Chinook Salmon, Coho Salmon, Pygmy Whitefish, Rainbow Trout/Steelhead, Westslope Cutthroat, Columbia Spotted Frog, Great Blue Heron, Cavity-Nesting Ducks, Bald Eagle, Golden Eagle, Northern Goshawk, Peregrine Falcon, Spotted Owl, Deer, Elk

Part 10—Identify the Permits You Are Applying For

Use the resources and checklist below to identify the permits you are applying for.

- Online Project Questionnaire at <http://apps.ecy.wa.gov/opas/>.
- Governor's Office of Regulatory Assistance at (800) 917-0043 or help@ora.wa.gov.

10a. Compliance with the State Environmental Policy Act (SEPA). (Check all that apply.) [\[help\]](#)

- For more information about SEPA, go to www.ecy.wa.gov/programs/sea/sepa/e-review.html.

A copy of the SEPA determination or letter of exemption is included with this application.

A SEPA determination is pending with **WDFW** (lead agency). The expected decision **date** is _____.

I am applying for a Fish Habitat Enhancement Exemption. (Check the box below in 10b.)

- Submit the Fish Habitat Enhancement Project form with this application. The form can be found at http://www.epermitting.wa.gov/Portals/_JarpaResourceCenter/images/default/fishenhancement.doc

This project is exempt (choose type of exemption below).

Categorical Exemption. Under what section of the SEPA administrative code (WAC) is it exempt?

Other: _____

SEPA is pre-empted by federal law. [\[help\]](#)

10b. Indicate the permits you are applying for. (Check all that apply.) [\[help\]](#)

LOCAL GOVERNMENT

Local Government Shoreline permits:

Substantial Development Conditional Use Variance

Shoreline Exemption Type (explain): Fish and Wildlife Enhancement Project (WAC 173-27-040-2-p)_____

Other city/county permits:

Floodplain Development Permit Critical Areas Ordinance

STATE GOVERNMENT

Washington Department of Fish and Wildlife:

Hydraulic Project Approval (HPA) Fish Habitat Enhancement Exemption

Washington Department of Ecology:

Section 401 Water Quality Certification

Washington Department of Natural Resources:

Aquatic Resources Use Authorization

FEDERAL GOVERNMENT

United States Department of the Army permits (U.S. Army Corps of Engineers):

Section 404 (discharges into waters of the U.S.) Section 10 (work in navigable waters)

United States Coast Guard permits:

General Bridge Act Permit Private Aids to Navigation (for non-bridge projects)

Part 11—Authorizing Signatures

Signatures required before submitting the JARPA package.

11a. Applicant Signature (required) [\[help\]](#)

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities, and I agree to start work only after I have received all necessary permits.

I hereby authorize the agent named in Part 3 of this application to act on my behalf in matters related to this application. _____ (initial)

By initialing here, I state that I have the authority to grant access to the property. I also give my consent to the permitting agencies entering the property where the project is located to inspect the project site or any work related to the project. _____ (initial)

_____(Gerth for KCT) _____
Applicant Date

11b. Authorized Agent Signature [\[help\]](#)

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities and I agree to start work only after all necessary permits have been issued.

Authorized Agent Date

11c. Property Owner Signature (if not applicant) [\[help\]](#)

I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.

_____(Eisenberg for Suncadia, LLC) _____
Property Owner Date

11c. Property Owner Signature (if not applicant) [\[help\]](#)

I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.

_____(Hallisey for USFS) _____
Property Owner Date

18 U.S.C §1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than 5 years or both.

If you require this document in another format, contact The Governor's Office of Regulatory Assistance (ORA). People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341.
ORA publication number: ENV-019-09