



WASHINGTON STATE

Joint Aquatic Resources Permit Application (JARPA) Form^{1,2}

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



US Army Corps of Engineers®
Seattle District

AGENCY USE ONLY

Date received: _____

Agency reference #: _____

Tax Parcel #(s): _____

Part 1—Project Identification

1. Project Name (A name for your project that you create. Examples: Smith's Dock or Seabrook Lane Development) [help]
Upper Clarks Creek Channel and Bank Stabilization Project

Part 2—Applicant

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

2a. Name (Last, First, Middle)			
Palmer, Mark			
2b. Organization (If applicable)			
City of Puyallup			
2c. Mailing Address (Street or PO Box)			
333 South Meridian			
2d. City, State, Zip			
Puyallup, WA, 98371			
2e. Phone (1)	2f. Phone (2)	2g. Fax	2h. E-mail
(253) 841-5549	()	()	JRodriguez@ci.puyallup.wa.us

¹Additional forms may be required for the following permits:

- If your project may qualify for Department of the Army authorization through a Regional General Permit (RGP), contact the U.S. Army Corps of Engineers for application information (206) 764-3495.
- If your project might affect species listed under the Endangered Species Act, you will need to fill out a Specific Project Information Form (SPIF) or prepare a Biological Evaluation. Forms can be found at <http://www.nws.usace.army.mil/Missions/CivilWorks/Regulatory/PermitGuidebook/EndangeredSpecies.aspx>.
- Not all cities and counties accept the JARPA for their local Shoreline permits. If you need a Shoreline permit, contact the appropriate city or county government to make sure they accept the JARPA.

²To access an online JARPA form with [\[help\]](#) screens, go to http://www.epermitting.wa.gov/site/alias_resourcecenter/jarpa_jarpa_form/9984/jarpa_form.aspx.

For other help, contact the Governor's Office for Regulatory Innovation and Assistance at (800) 917-0043 or help@ora.wa.gov.

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)			
Young, Charissa			
3b. Organization (If applicable)			
Natural Systems Design			
3c. Mailing Address (Street or PO Box)			
1900 N. Northlake Way, Suite 211			
3d. City, State, Zip			
Seattle, WA, 98103			
3e. Phone (1)	3f. Phone (2)	3g. Fax	3h. E-mail
(206) 834-0175 ext. 106	()	()	Charissa@naturaldes.com

Part 4—Property Owner(s)

Contact information for people or organizations owning the property(ies) where the project will occur. Consider both **upland and aquatic** ownership because the upland owners may not own the adjacent aquatic land. [\[help\]](#)

- 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 upland property owners. Complete the section below and fill out [JARPA Attachment A](#) for each additional property owner.
- Your project is on Department of Natural Resources (DNR)-managed aquatic lands. If you don't know, contact the DNR at (360) 902-1100 to determine aquatic land ownership. If yes, complete [JARPA Attachment E](#) to apply for the Aquatic Use Authorization.

4a. Name (Last, First, Middle)			
Attn: Curtis, Matthew (Area Habitat Biologist for Region 6)			
4b. Organization (If applicable)			
Washington State Department of Fish and Wildlife (WFDW)			
4c. Mailing Address (Street or PO Box)			
600 Capitol Way N.			
4d. City, State, Zip			
Olympia, WA 98501-1091			
4e. Phone (1)	4f. Phone (2)	4g. Fax	4h. E-mail
()	()	()	

Part 5–Project Location(s)

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

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

5a. Indicate the type of ownership of the property. (Check all that apply.) [help]			
<input type="checkbox"/> Private <input type="checkbox"/> Federal <input checked="" type="checkbox"/> Publicly owned (state, county, city, special districts like schools, ports, etc.) <input type="checkbox"/> Tribal <input type="checkbox"/> Department of Natural Resources (DNR) – managed aquatic lands (Complete JARPA Attachment E)			
5b. Street Address (Cannot be a PO Box. If there is no address, provide other location information in 5p.) [help]			
XXX Fruitland Ave East			
5c. City, State, Zip (If the project is not in a city or town, provide the name of the nearest city or town.) [help]			
Puyallup, WA			
5d. County [help]			
Pierce			
5e. Provide the section, township, and range for the project location. [help]			
¼ Section	Section	Township	Range
SE 1/4	32	20N	4E
5f. Provide the latitude and longitude of the project location. [help]			
<ul style="list-style-type: none"> Example: 47.03922 N lat. / -122.89142 W long. (Use decimal degrees - NAD 83) 			
47.171805 N lat. / -122.319375 W (47°10'18.50"N lat. / 122°19'9.75"W long.)			
5g. List the tax parcel number(s) for the project location. [help]			
<ul style="list-style-type: none"> The local county assessor's office can provide this information. 			
0420324000			
5h. Contact information for all adjoining property owners. (If you need more space, use JARPA Attachment C.) [help]			
Name	Mailing Address		Tax Parcel # (if known)
City of Puyallup	WATERSHEDS - MAPLEWD SPRS 333 S MERIDIAN PUYALLUP WA 98371-5904		0420324001
City of Puyallup	CLARKS CREEK PARK 333 S MERIDIAN PUYALLUP WA 98371-5904		0420321039
See additional adjacent landowners on Attachment C			

5i. List all wetlands on or adjacent to the project location. [help]
A wetland complex was observed to exist downstream of the work area and outside of the clearing limits of the project. It is a riverine and series of sloped wetlands. No work is proposed for the wetlands.
5j. List all waterbodies (other than wetlands) on or adjacent to the project location. [help]
Clarks Creek and Clarks Creek Tributary exist within the project area and are the focus of the bank and channel stabilization work.
5k. Is any part of the project area within a 100-year floodplain? [help]
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
5l. Briefly describe the vegetation and habitat conditions on the property. [help]
No fish are present within the project reach. The site is forested. It has been logged in the past and is dominated by mature big-leaf maple with maturing western red cedar and western hemlock scattered in clumps. The forest is typical of mid-Puget Sound through low elevation forests: open with a mature mostly native mix of common forest shrub and groundcover species populating the lower canopy and ground. Some areas are dominated by Himalayan blackberry.
5m. Describe how the property is currently used. [help]
The property is open space and is used for recreation (walking). Several constructed and social trails exist and are used frequently.
5n. Describe how the adjacent properties are currently used. [help]
Most adjacent parcels are residential. An elementary school exists to the west of the parcel. To the north of the parcel is Clarks Creek Park administered by the City of Puyallup. To the north east of the parcel is the Puyallup Tribe's Fish Hatchery, and to the east is a parcel managed by the City of Puyallup for watershed services (Maplewood Springs).
5o. Describe the structures (above and below ground) on the property, including their purpose(s) and current condition. [help]
The only known structures on the parcel are the two culverts through which the mainstem creek and its tributary flow.
5p. Provide driving directions from the closest highway to the project location, and attach a map. [help]
From I-5 south of Tacoma, take SR 512 east for 5.8 miles. Take the Canyon Rd. exit toward Summit. Turn Left onto Canyon Road E. Turn right onto 96 th St. E. 96 th St E becomes 23 rd Ave SW. The project area will be on the left 0.2 miles after crossing Fruitland Ave E.

Part 6–Project Description

6a. Briefly summarize the overall project. You can provide more detail in 6b. [\[help\]](#)

The project area consists of 1400' of incised channel within Upper Clarks Creek and 800' of incised channel within Upper Clarks Tributary. The limit of project area is from 23rd Ave SW at the upstream extent to the confluence of Upper Clarks Creek and Upper Clarks Creek Tributary.

To meet the project goals (described below in 6b), the design calls for of a series of sediment trapping structures to be installed along the banks, at specifically located toes, and within the channels and embedded into the stream bed. Structures are:

31 large woody matrices: bed stability & sediment capture, consist of embedded posts, LWM, root wads, cobble and slash

59 timber frame structures: vegetated bank stability & sediment capture. Made of logs, coir, and native plants and located on the banks

14 toe structures: vegetated toe stability & sediment capture. Made of log posts, LWM, and slash

46 bed logs: installed in 14 locations

3 brush mattresses: bed aggradation/ sediment capture for low energy areas. Made of slash, coir, stakes and natural rope.

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

Clarks Creek is designated as critical habitat for threatened Chinook Salmon and steelhead under the Endangered Species Act. No fish species are present in the project area since fish passage is blocked by a hatchery dam downstream of the project area. However, decreased habitat quality downstream of the hatchery dam due to sediment inputs from upstream is a primary concern for key fish species present: Salmon: Chinook, coho, chum, and trout: steelhead, bull, and cutthroat.

Upper Clarks Creek is experiencing substantial down-cutting and in-channel erosion of sediment from it banks and bed. The erosion of sediment in Clarks Creek is likely due to increased peak flows caused by urbanization and associated impervious surfaces. Additionally deforestation within the stream buffer contributes to unstable, saturated soils from lack of evapotranspiration, canopy interception, & root mass stability on slopes.

The watershed is continuing to urbanize, which will continue to increase peak flows and erosion in the drainage basin. County planners predict that impervious area will increase by 40% by 2020 as population grows.

Excess sediment is considered to be a primary cause for several factors negatively impacting salmonid habitat in the downstream portion of Clarks Creek:

- Dissolved oxygen (DO) concentrations are lower than state water quality standards for salmonid habitat. Concentrations of DO are likely reduced by the over-growth of western waterweed (*Elodea nuttallii*) in Clarks Creek which is contributed to by sediment-bound nutrients (e.g. phosphorous & organic nitrogen) transported from erosion in upstream reaches. Western waterweed also physically reduces habitat for salmonids.
- High silt content deposited in downstream portions of Clarks Creek has limited adequate substrate for spawning habitat.
- State water quality criteria for fecal coliform bacteria is exceeded from sediment-bound fecal coliform.
- Puyallup Tribe hatchery operations have also been negatively impacted by sediment-laden water clogging hatchery screens and reduced dissolved oxygen concentrations which has resulted in incidents of inadequate water quality for rearing and returning salmon within the hatchery.

Clarks Creek is a state-impaired water body due to low dissolved oxygen and sediment. Low dissolved oxygen levels, excess fine sediment and sand, and the overgrowth of elodea (*Elodea nuttallii*) create conditions in Clarks Creek that harm fish and their supporting habitat, according to the TMDL Water Quality Improvement report and Implementation Plan. Clarks Creek and its tributaries also do not meet water quality standards for fecal coliform

Objectives:

- Reduce sediment production and transport from eroding channel banks and bed in the headwaters of Clarks Creek.
 - Stabilize the 12-foot high headcut at the upper end of site
 - Construct grade control and channel roughness elements in the incised segments of the stream
 - Stabilize loose gravels sloughing from the valley wall in the incised channel segments;
- Increase in-channel flood storage capacity within Upper Clarks Creek and Upper Clarks Creek Tributary.

Brown and Caldwell produced a comprehensive study of the Clarks Creek Watershed that sought to identify primary sources of sediment and to develop a plan for reducing sediment from those sources. Upper Clarks Creek and Upper Clarks Tributary were identified as the two largest contributors of sediment and were prioritized for restoration to reduce bed and bank in-channel erosion. Key findings that are relevant to Upper Clarks Creek Channel and Bank Stabilization Project are:

- Geologic material in the project area is glacial outwash and till consisting of unstratified, silt, sand, gravel, and cobbles.
- An overlying unit of lacustrine deposits is located above the till and underlies a wetland complex on the plateau surface upstream of 23rd AVE SW.
- Historical channel incision linked to multiple factors including:
 - o Base level lowering caused by channelization of Lower Puyallup River;
 - o Clearance of mature forest within valley, adjacent hillslopes, and upland areas; and
 - o Increased surface runoff due to land use changes.
- Upstream migration of headcut has lowered bed profile by 6-12 feet over the project reach.
- Initial downcutting delivered excess sediment to downstream reaches.
- Incision has triggered instability of adjacent hillslopes resulting in slope failure and delivery of mass wasting deposits to the valley bottom that are then mobilized by high flows and transported downstream.
- Average annual load estimates for Upper Clarks Tributary is approximately 45 tons/year and Upper Clarks Creek (within project area) is approximately 65 tons/year (total of 6100 tons of eroded material). Annual sediment loss values assume a constant rate between 1916 and 2012. Since land use has not stayed constant from 1916 to 2012, current annual erosion rates are likely substantially higher due to continued urbanization.

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

- Commercial
 Residential
 Institutional
 Transportation
 Recreational
 Maintenance
 Environmental Enhancement

6d. 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"/> Retaining Wall (upland)
<input checked="" type="checkbox"/> Bank Stabilization	<input type="checkbox"/> Dam / Weir	<input type="checkbox"/> Floating Home	<input type="checkbox"/> Road
<input type="checkbox"/> Boat House	<input type="checkbox"/> Dike / Levee / Jetty	<input type="checkbox"/> Geotechnical Survey	<input type="checkbox"/> Scientific Measurement Device
<input type="checkbox"/> Boat Launch	<input type="checkbox"/> Ditch	<input type="checkbox"/> Land Clearing	<input type="checkbox"/> Stairs
<input type="checkbox"/> Boat Lift	<input type="checkbox"/> Dock / Pier	<input type="checkbox"/> Marina / Moorage	<input type="checkbox"/> Stormwater facility
<input type="checkbox"/> Bridge	<input type="checkbox"/> Dredging	<input type="checkbox"/> Mining	<input type="checkbox"/> Swimming Pool
<input type="checkbox"/> Bulkhead	<input type="checkbox"/> Fence	<input type="checkbox"/> Outfall Structure	
<input type="checkbox"/> Buoy	<input type="checkbox"/> Ferry Terminal	<input type="checkbox"/> Piling/Dolphin	

<input type="checkbox"/> Channel Modification	<input type="checkbox"/> Fishway	<input type="checkbox"/> Raft	<input type="checkbox"/> Utility Line
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Other:

- Water quality improvement
- Fish habitat enhancement (downstream)
- Streambed stabilization

6e. Describe how you plan to construct each project element checked in 6d. 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 floodplain.

The structures described in 6a are intended to collect and trap sediment and to control and limit erosion, with the objective of stabilizing the Upper Clarks Creek watershed, thereby allowing fish habitat and water quality in the lower reaches to recover. All structures are intended to contribute to all of the boxes checked in 6d.

With the exception of the timber frame structures and large woody matrix structures, whose upper extents will be installed above OHWM, all of the structures will be installed below OHW. As the large woody matrices trap sediment over time and aggrade the bed, more of the large woody matrix volume will be below the OHWM.

Prior to installation, work areas will be temporarily dewatered according to state and federal protocols for non-fish-bearing reaches. Materials will be transported to the channel with a cable high-line system and HDPE chutes to reduce surface erosion.

The project will add wood and streambed materials to stabilize approximately 2,200 feet of incised and eroding channel. Logs, small woody materials (slash), and cobbles will be added to stabilize banks and streambed and to reduce incision. Work will be performed by machine with some hand labor. Large wood will be anchored behind log piles, existing trees and rocks. Large wood in timber frame (bank stabilization) structures will also be anchored with rebar pins and earth anchors above OHW. Logs will be grouped in configurations that limit downstream migration and weighted down with additional ballast logs. Large wood will also be combined with small woody material in large woody matrices and toe structures. Brush mattresses will be made of stakes, coir fabric, native brush, and manila rope. Installations will be designed to protect and stabilize eroding banks and streambed and will trap incoming sediment to reduce channel entrenchment and promote floodplain connectivity.

Native plants will be added within bioengineered structures to increase bank stability.

Re-grading is not proposed and excavation will be strictly limited to that which is necessary to install stabilizing structures. Slash will be permanently installed within the tributary and mainstem work area between structures to protect the streambed from construction impacts.

Construction equipment for main stem and tributaries will be contractor's choice, but likely a majority of the work will be done with heavy equipment including a track-hoe, dump trucks (along old logging road access), generator, electric submersible pump (with fish screen), chainsaw, a highline cable system, and some hand work.

Material delivery to the staging areas at the top of slope will be by machine via temporary access roads on existing historical road grade. Transport of the materials from the top of the slope to staging areas along the stream is anticipated to be performed using chutes and cable skylines. All bare surfaces will be covered with arborist wood chip mulch or biodegradable erosion control fabric and replanted with site appropriate native species.

All temporary access routes and staging areas will be re-planted with location appropriate native tree, shrub, and groundcover species during the approved planting window (WSDOT standard). All bare soils will be protected with arborist wood chip mulch or coir (900 series) within seven calendar days of project completion.

6f. What are the anticipated 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: mid-summer 2016

End date: late-summer 2016, with plantings occurring after 10/1/16

See JARPA Attachment D

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

\$2,000,000 based on 30% engineer's cost estimate. The final estimate may be lower.

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

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

Yes No Don't know

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.) [\[help\]](#)

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

Not applicable

No work will occur within wetlands. The site has been investigated by a wetland ecologist but no formal wetland delineation has been conducted. It is likely that work within the main stem will occur within the buffer of an unnamed wetland that is located downstream of the work area (see Plan Set Sheet 12). Two streambed logs will be installed 75 feet from the likely wetland boundary. Installation would occur from the upstream direction, thus no impact will occur within 75' of the wetland boundary.

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 The wetland has not been rated so the buffer width is unknown.

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 and answer 7g.
- If **No, or Not applicable**, explain below why a mitigation plan should not be required.

Yes No Not applicable

No work is proposed to take place within the wetland. An excavator operating from within the channel (outside of the wetland) will place two bed logs (LWM) 75' from the wetland boundary. The project objectives and design are intended to enhance water quality and downstream habitat.

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

n/a

7h. Use the table below to list the type and rating of each wetland impacted, the extent and duration of the impact, and the type and amount of mitigation proposed. Or if you are submitting a mitigation plan with a similar table, you can state (below) where we can find this information in the plan. [\[help\]](#)

Activity (fill, drain, excavate, flood, etc.)	Wetland Name ¹	Wetland type and rating category ²	Impact area (sq. ft. or Acres)	Duration of impact ³	Proposed mitigation type ⁴	Wetland mitigation area (sq. ft. or acres)
n/a						
No work to occur within wetlands						

¹ If no official name for the wetland exists, create a unique name (such as "Wetland 1"). The name should be consistent with other project documents, such as a wetland delineation report.

² Ecology wetland category based on current Western Washington or Eastern Washington Wetland Rating System. Provide the wetland rating forms with the JARPA package.

³ Indicate the days, months or years the wetland will be measurably impacted by the activity. Enter "permanent" if applicable.

⁴ 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: _____

7i. For all filling activities identified in 7h, 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. [\[help\]](#)

n/a

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

n/a

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

The project will take place within the summer low-flow period and appropriate sediment and erosion control measures will be in place at all times throughout the project to minimize any impacts to the downstream aquatic environment (Lower Clarks Creek and the Puyallup River). The work area will be bypassed throughout the duration of construction within the watercourse. When reintroducing flows to the watercourse, a temporary pulse of water will be released through the project area, captured at the downstream end of the project and then pumped upland to flush the system and minimize turbidity. Turbidity related impacts associated with this project are anticipated to be short-lived and insignificant. Energy dissipaters will be installed at the pipe outfalls to prevent channel erosion in the mainstem and tributary channels.

The project reach is non-fish-bearing, so fish exclusion will not be necessary. Regardless, the pump intake will have approved fish screen. If a large rain event does occur while under construction, construction activities will be stopped and the site will be secured to prevent runoff of silt-laden waters.

Natural stream materials including large woody materials, stream cobbles, and small woody debris (slash) will be used for channel stabilization. At the conclusion of the project, all bare soils within the project area will be covered with wood chip mulch or 900 series coir. All areas within the construction limit will be cleared of invasive plants and re-planted with native tree species.

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

Yes No

8c. 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 and answer 8d.
- If **No, or Not applicable**, explain below why a mitigation plan should not be required.

Yes No Not applicable

The project focus is on watercourse and habitat enhancement and streambed stabilization with the goal of reducing sediment transport to Lower Clarks Creek and the Puyallup River. The project is anticipated to provide an overall positive impact on the waterbodies.

8d. Summarize what the mitigation plan is meant to accomplish. Describe how a watershed approach was used to design the plan.

- If you already completed 7g you do not need to restate your answer here. [\[help\]](#)

n/a

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

Activity (clear, dredge, fill, pile drive, etc.)	Waterbody name ¹	Impact location ²	Duration of impact ³	Amount of material (cubic yards) to be placed in or removed from waterbody	Area (sq. ft. or linear ft.) of waterbody directly affected
Pile drive native conifer logs into stream bed (anchors)	Upper Clarks Creek and Clarks Creek Trib	In waterbody	Permanent	Wood placed: 213 logs	110 LF
Place Large Woody Material (logs and rootwads)	Upper Clarks Creek and Clarks Creek Trib	In waterbody	Permanent	Wood placed: 450 logs	1,560 LF
Place woody slash	Upper Clarks Creek and Clarks Creek Trib	In waterbody	Permanent	905 CY placed	810 LF
Fill with streambed cobble	Upper Clarks Creek and Clarks Creek Trib	In waterbody	Permanent	1028 CY placed	830 LF
Placement of bank logs	Upper Clarks Creek and Clarks Creek Trib	Adjacent: ~1/3 of wood is within 100yr flood	Permanent	Wood placed: 328 logs	1160 LF

¹ If no official name for the waterbody exists, create a unique name (such as "Stream 1") The name should be consistent with other documents provided.

² 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.

³ Indicate the days, months or years the waterbody will be measurably impacted by the work. Enter "permanent" if applicable.

8f. For all activities identified in 8e, 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. [\[help\]](#)

Up to 1,028 CY of rounded streambed cobble will be added to the mainstream and tributary channels to stabilize the channel bed within proposed woody structures. Up to 450 conifer logs (fir and/or hemlock) and 905 CY of native woody slash (conifer boughs, native woody stems, all from offsite locations) will also be added to these structures (below OHW). The source of the material and installation method will be the contractor's choice. Rock material will likely come from a local/ regional quarry. Machine installation will likely be used for stream materials.

Up to 328 conifer (fir and/or hemlock) logs will be placed on eroding banks, about two-thirds of which will be above the 100 yr. flow event.

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

Minor excavation will be used to set the lowest logs into the streambed. Stream bed sediment excavated during this process will be placed upstream of and on each structure.

Part 9—Additional Information

Any additional information you can provide helps the reviewer(s) understand your project. Complete as much of this section as you can. It is ok if you cannot answer a question.

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
WDFW	Mathew Curtis	(360) 902-2578	August 12, 2015
WDFW	Don Ponder		
WDFW			
Puyallup Tribe of Indians	Char Naylor	(253) 573-7800	August 12, 2015
City of Puyallup	Joy Rodriguez	(253) 841-5549	
City of Puyallup	Mark Palmer		
US ACE	Tom Bloxton	(206) 764-3443	August 5, 2015

<p>9b. Are any of the wetlands or waterbodies identified in Part 7 or Part 8 of this JARPA on the Washington Department of Ecology's 303(d) List? [help]</p> <ul style="list-style-type: none"> • 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/.
<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Clarks Creek mainstem within the project area</p> <ul style="list-style-type: none"> - pH - bacteria - dissolved oxygen - temperature
<p>9c. What U.S. Geological Survey Hydrological Unit Code (HUC) is the project in? [help]</p> <ul style="list-style-type: none"> • Go to http://cfpub.epa.gov/surf/locate/index.cfm to help identify the HUC.
<p>17110014</p>
<p>9d. What Water Resource Inventory Area Number (WRIA #) is the project in? [help]</p> <ul style="list-style-type: none"> • Go to http://www.ecy.wa.gov/services/gis/maps/wria/wria.htm to find the WRIA #.
<p>WRIA 10</p>
<p>9e. Will the in-water construction work comply with the State of Washington water quality standards for turbidity? [help]</p> <ul style="list-style-type: none"> • Go to http://www.ecy.wa.gov/programs/wq/swqs/criteria.html for the standards.
<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not applicable No in-water work is proposed</p>
<p>9f. If the project is within the jurisdiction of the Shoreline Management Act, what is the local shoreline environment designation? [help]</p> <ul style="list-style-type: none"> • 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.
<p><input type="checkbox"/> Rural <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Natural <input type="checkbox"/> Aquatic <input type="checkbox"/> Conservancy <input type="checkbox"/> Other _____</p>
<p>9g. What is the Washington Department of Natural Resources Water Type? [help]</p> <ul style="list-style-type: none"> • Go to http://www.dnr.wa.gov/BusinessPermits/Topics/ForestPracticesApplications/Pages/fp_watertyping.aspx for the Forest Practices Water Typing System.
<p><input type="checkbox"/> Shoreline <input checked="" type="checkbox"/> Fish <input type="checkbox"/> Non-Fish Perennial <input type="checkbox"/> Non-Fish Seasonal</p>
<p>9h. Will this project be designed to meet the Washington Department of Ecology's most current stormwater manual? [help]</p> <ul style="list-style-type: none"> • If No, provide the name of the manual your project is designed to meet.
<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Name of manual: 2012 Stormwater Management Manual for Western Washington</p>
<p>9i. Does the project site have known contaminated sediment? [help]</p> <ul style="list-style-type: none"> • If Yes, please describe below.
<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>9j. If you know what the property was used for in the past, describe below. [help]</p>

The site was previously logged.

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

- **If Yes**, attach it to your JARPA package.

Yes No. The Puyallup Tribe is preliminarily recommending that the project adopt an “Inadvertent Discovery Plan.”

9l. 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. [\[help\]](#)

No listed species occur with or immediately adjacent to the project area.

Downstream within Clarks Creek are: Chinook, Steelhead (both are threatened), and Coho (Federal candidate species), all of which will benefit from the proposed project.

9m. 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. [\[help\]](#)

In addition to the ESA listed species above:

Pink salmon, odd year pink salmon, fall chum, chum, coho, fall chinook, and great blue heron may all be affected by the project. The purpose of the project is to improve their habitat function and quality.

Part 10–SEPA Compliance and Permits

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 for Regulatory Innovation and Assistance at (800) 917-0043 or help@ora.wa.gov.
- For a list of addresses to send your JARPA to, click on [agency addresses for completed JARPA](#).

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 City Of Puyallup (lead agency). The expected decision date is The SEPA checklist is scheduled to be submitted to the lead agency on Sept. 3rd. 2015.

I am applying for a Fish Habitat Enhancement Exemption. (Check the box below in 10b.) [\[help\]](#)

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.

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): _____

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 – [Attach Exemption Form](#)

Effective July 10, 2012, you must submit a check for \$150 to Washington Department of Fish and Wildlife, unless your project qualifies for an exemption or alternative payment method below. **Do not send cash.**

Check the appropriate boxes:

- \$150 check enclosed. Check # _____
Attach check made payable to Washington Department of Fish and Wildlife.
- My project is exempt from the application fee. (Check appropriate exemption) _____
- HPA processing is conducted by applicant-funded WDFW staff.
Agreement # _____
 - Mineral prospecting and mining.
 - Project occurs on farm and agricultural land.
(Attach a copy of current land use classification recorded with the county auditor, or other proof of current land use.)
 - Project is a modification of an existing HPA originally applied for, prior to July 10, 2012.
HPA # _____

Washington Department of Natural Resources:

- Aquatic Use Authorization
Complete [JARPA Attachment E](#) and submit a check for \$25 payable to the Washington Department of Natural Resources.
Do not send cash.

Washington Department of Ecology:

- Section 401 Water Quality Certification

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:

- Private Aids to Navigation (for non-bridge projects)

Part 11—Authorizing Signatures

Signatures are required before submitting the JARPA package. The JARPA package includes the JARPA form, project plans, photos, etc. [\[help\]](#)

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. MAP (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. MAP (initial)

MARK A PALMER Applicant Printed Name [Signature] Applicant Signature 8/19/15 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.

Charissa Young Authorized Agent Printed Name [Signature] Authorized Agent Signature 8/19/15 Date

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

Not required if project is on existing rights-of-way or easements.

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.

Property Owner Printed Name Property Owner Signature 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 for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ENV-019-09 rev. 08/2013