

# AQUATIC SPECIES RESTORATION PLAN

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## APPLICATION B: GENERAL PROJECT PROPOSAL APPLICATION

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Please provide a title for the project you are proposing.

| <i>Project Title</i>              |
|-----------------------------------|
| <i>Still Creek Design Project</i> |

### Sponsor Contact Information

| <i>Project Contact Information</i> | <i>Complete all Sections</i>  |
|------------------------------------|---|
| Name                               | <i>Anthony Waldrop</i>  |
| Phone Number                       | <i>360-249-8532</i>   |
| Email                              | <a href="mailto:Anthony.waldrop@graysharborcd.org"><i>Anthony.waldrop@graysharborcd.org</i></a> |
| Sponsoring organization            | <i>Grays Harbor Conservation District</i>   |
| Mailing address                    | <i>330 W. Pioneer Ave. Suite D<br/>Montesano, WA, 98563</i>                                     |

| <i>Project Activities</i>           |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <b>Design Only</b>   |
| <input type="checkbox"/>            | <b>Restoration</b> <ul style="list-style-type: none"><li>- <b>Construction</b></li><li>- <b>Innovative Restoration</b></li></ul> |
| <input type="checkbox"/>            | <b>Acquisition</b>   |
| <input type="checkbox"/>            | <b>Combined (Design/Construction/Acquisition)</b>  |

### Project Information:

- **Project location.**

## Still Creek (West Fork Satsop tributary)

- **Project extent.**

Design will occur on reaches of Still Creek that are identified as high priority restoration reaches during Satsop/Wynoochee Tributary Restoration Strategy development (already funded and in development).

- **Geographic Spatial Unit (GSU).**

### 35. Lower West Fork Satsop Tributaries

- **Brief project summary.**

Grays Harbor Conservation District (GHCD) is currently developing a headwater tributary restoration strategy for the Satsop and Wynoochee tributary systems. Funded by the Department of Ecology and U.S. Fish and Wildlife, the development of this 'Strategy' will result in reach-by-reach conceptual restoration prescriptions based on a hydro-geomorphological analysis. The prescriptions will utilize techniques such as beaver dam analogues and post assisted log jams, which will be designed to aggrade incised stream channels and reconnect floodplains. Prescription development will concurrently result in modeled water quantity, water quality, and aquatic habitat benefits from restoration implementation, as well as cost estimates by the spring of 2020. The proposed project will take the next step of Strategy implementation by developing preliminary designs for identified high priority reaches in the Still Creek sub-basin of the West Fork Satsop watershed. During our preliminary analysis for the Strategy, the Still Creek sub-basin was recognized as a high potential watershed for achieving water quantity, water quality, and habitat benefits from in-stream restoration. Therefore, we initiated conversations with the landowner, Weyerhaeuser, about a project proposal that would build off of the general prescriptions already being developed for high priority reaches of the Still Creek sub-basin by developing preliminary designs (30%) (see landowner acknowledgement form attached). The development of these designs and concurrent landowner willingness discussions with Weyerhaeuser will result in designs that are ready to secure funding for reach scale construction efforts. This project is in an immediate priority area (managed forest locations with a single timber landowner) and implements immediate priority actions (in-channel wood installation over several miles of stream) as identified by the Phase 1 ASRP (ASRP Section 6, Table 6-2).

## Problems statement.

### A. Describe the problem (critical need and/or threat), your project aims to address.

Stream cleaning (i.e. – wood removal), splash damming, and riparian forest harvest from past land management practices have impacted tributary streams throughout the Chehalis Basin. The Chehalis Basin Lead Entity specifically lists Still Creek as a tributary that experienced splash damming and low levels of large woody debris are a concern for the entire West Fork Satsop watershed<sup>1</sup>. Due to the widespread and systematic efforts of stream cleaning and riparian harvest, it is assumed for this project that Still Creek was also impacted by these practices. The current development of our Satsop/Wynoochee Tributary Restoration Strategy will identify reaches by the spring of 2020 that demonstrate channel incision/floodplain disconnection and prioritize reaches based on potential benefits from using techniques such as beaver dam

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<sup>1</sup> Grays Harbor County Lead Entity Habitat Work Group (2011). *The Chehalis Basin Salmon Habitat Restoration and Preservation Strategy for WRIA 22 and 23*. Grays Harbor County. 100 W Broadway, Montesano, WA 98563. (pg. 169)

analogues and post assisted log jams. A preliminary analysis of LIDAR by Natural Systems Design within the Still Creek watershed indicates disconnected floodplains and incised channels in this watershed and thus opportunity for restoration.

- The ASRP identifies the following problems for the Olympic Mountains Ecological Region that this project will address (ASRP pgs. 157-167)
  - Lack of large wood and stable gravel
  - Reduced floodplain connectivity due to incision

**B. List the species present at the site and addressed by your project. Describe how your project protects or restores habitat for these species.**

| COMMON NAME    | Scientific Name                 |
|----------------|---------------------------------|
| Chinook Salmon | <i>Oncorhynchus tshawytscha</i> |
| Chum Salmon    | <i>Oncorhynchus keta</i>        |
| Coho Salmon    | <i>Oncorhynchus kisutch</i>     |

The Still Creek sub-basin is home to spawning and rearing coho and fall Chinook and spawning chum, according to the Washington Department of Fish and Wildlife SalmonScape database.<sup>2</sup> The project design will include elements such as engineered log jams, beaver dam analogues, and post assisted log jams which will restore habitat and ecosystem processes for these fish species in the Still Creek sub-basin by stabilizing and sorting sediment/gravel, increasing flow refugia, increasing slow water rearing habitat, increasing in-stream woody debris cover, and decreasing stream temperatures (groundwater recharge through floodplain reconnection). Restoration in the basin will also reduce sediment transport and peak flow velocities reducing potential impacts to spawning and rearing areas.

**C. Describe how your project will address limiting factors and benefit limiting life stages (by species) (Chapter 3 ASRP).**

The strategic placement of beaver dam analogue, engineered log jam, and post assisted log jam structures will address limiting factors for coho such as low habitat diversity, high water temperatures, and reduced quantity/quality of instream habitats (ASRP pg. 28). These structures will aggrade the channel, reconnect the floodplain and slow water velocities thereby stabilizing spawning gravels, improving water quality for rearing (colder temperatures and higher dissolved oxygen from alluvial water storage), increasing water quantity during low flow rearing periods (alluvial water storage), and increasing habitat diversity for rearing (in-stream cover, flow refugia, pools). The ASRP specifically indicates the importance of beaver pond type habitats for coho survival and production, which this project will implement (ASRP pg. 28).

Restoration in the Still Creek sub-basin will also benefit Chinook and chum in Still Creek by increasing water quality (colder temperatures and higher dissolved oxygen from alluvial water storage), increasing habitat complexity, increasing water quantity during low flow rearing periods (alluvial water storage), and reducing sediment transport thereby reducing impacts to spawning gravel from excessive transport. Although chum do not spend much time rearing in freshwater habitat, high-quality spawning habitat is important (ASRP pg. 29). Both Chinook and coho need high-quality spawning and freshwater rearing habitat for successful life cycles (ASRP pgs. 27-28)

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<sup>2</sup> <http://apps.wdfw.wa.gov/salmonscape/map.html>

**D. Describe how your project protects or restores ecosystem processes.**

The Still Creek sub-basin has been impacted by wood removal from past management practices resulting in incised stream channels and floodplain disconnection, causing cascading impacts to water quality (sediment sorting/retention, temperature, dissolved oxygen), water quantity (lack of groundwater recharge), and habitat (lack of in-stream habitat diversity and access to floodplains). These legacy impacts will take decades if not centuries to be repaired through natural riparian buffer regeneration and subsequent large woody debris recruitment. This project will design in-stream habitat restoration structures that will target aggradation of the stream bed, thereby working to restore the aforementioned degraded ecosystem processes, and increase the likelihood that natural large woody debris recruitment will function immediately when it enters the stream because it will be entering a stream system that is already engaged with its floodplain and has less erosive potential.

**Project goals and objectives.**

**E. What are your project's goals?**

The goal of this project is to create preliminary designs for restoring the impaired aquatic ecosystem processes (lack of large wood, floodplain disconnection through channel incision, sediment instability) of high priority restoration reaches of the Still Creek sub-basin of the West Fork Satsop watershed. The design will build on prescriptions outlined in currently being developed Satsop/Wynoochee Tributary Restoration Strategy, which are focused on aggrading incised stream channels using techniques such as beaver dam analogues, post assisted log jams, and/or engineered log jams. Restoring these processes will increase habitat quality for Satsop coho, fall Chinook, and chum, as well as improve sediment retention/sorting, water quality (temperature, dissolved oxygen), and water quantity (alluvial water storage).

**F. What are your project's objectives?**

1. Hire a restoration consultant by July 2020 to begin developing the project designs for high priority reaches of the Still Creek sub-basin, based off of the prescriptions and analysis laid out for this sub-basin in the Satsop/Wynoochee Tributary Restoration Strategy.
2. The consultant will complete permit ready preliminary designs by April 2021. The designs will focus on using techniques that improve water quality, water quantity, and habitat.
3. Utilizing the monitoring plan currently being developed as part of the Satsop/Wynoochee Tributary Restoration Strategy, initiate pre-project monitoring in the high priority restoration reaches by September 2020.
4. GHCD will maintain landowner relationships by coordinating quarterly design check-ins with Weyerhaeuser throughout the life of the design project.

**G. What are the assumptions and constraints that could impact whether you achieve your objectives?**

**Assumption:** The landowner will be a willing participant throughout the design project

- The Grays Harbor Conservation District has had multiple discussions with Weyerhaeuser representatives about a project in the Still Creek sub-basin, resulting in a signed landowner acknowledgement form for this proposal. Although this does not guarantee that the landowner will be willing throughout the project, we believe a commitment to consistent communication between GHCD, the restoration consultant, and this main landowner will increase the likelihood of a designed project that fits the landowner's needs and significantly improves habitat for aquatic species.

**Assumption:** A design using beaver dam analogues, post assisted log jams, and/or engineered log jams, will achieve the modeled water quality, water quantity and habitat benefits for the Still Creek sub-basin

- In western Washington, it is a novel and relatively untested approach to use beaver dam analogues, post assisted log jams, and engineered log jams to aggrade incised stream channels and increase alluvial water storage. This is why the development of the Satsop/Wynoochee Tributary Restoration Strategy will involve the concurrent development and initiation of a monitoring plan for Strategy implemented projects. This is why this project is requesting funds for monitoring, in order to initiate pre-project data collection so that when construction is implemented in the Still Creek sub-basin, we can compare modeled and actual benefits, which will help us refine future implementation.

#### **H. What are the anticipated benefits of this project?**

We anticipate the following benefits from the successful completion of this project:

- Completed preliminary designs for 2 to 4 high priority restoration reaches in the Still Creek sub-basin, ready to enter the permitting and construction phases.
- The initiation of pre-implementation monitoring, which will be critical for informing practitioners and scientists how modeled project benefits relate to realized benefits.
- Continued positive momentum and relationship building around in-stream restoration with a landowner that owns and operates land throughout the Chehalis Basin.

### **Project details.**

#### **/I. Provide a narrative description of your proposed project.**

Grays Harbor Conservation District (GHCD) is currently developing a headwater restoration strategy for the Satsop and Wynoochee tributary streams (2<sup>nd</sup> to 4<sup>th</sup> stream order), in collaboration with the major timber landowners of these watersheds, Weyerhaeuser and Green Diamond. Funded by the Department of Ecology and U.S. Fish and Wildlife, the backbone of this 'Strategy' is a GIS-based hydro-geomorphological analysis being currently conducted by Natural Systems Design. This analysis will delineate reaches according to characteristics such as soil type, floodplain availability, level of incision, stream gradient, and flow. The analysis will also involve a field survey ground-truthing element, which will serve to validate and calibrate the results. Based off the analysis, reach specific restoration prescriptions will be developed that utilize techniques such as beaver dam analogues and post assisted log jams, which will be designed to aggrade incised stream channels and reconnect floodplains. Prescription development will concurrently result in modeled water quantity,

water quality, and aquatic habitat benefits from restoration implementation, as well as cost estimates and feasibility considerations from Weyerhaeuser and Green Diamond, which will allow for prioritization of reaches. The goal of this strategy development is to create a restoration roadmap for the hundreds of Satsop/Wynoochee tributary stream miles that have been impacted by legacy land management practices such as stream cleaning and splash damming. A secondary goal is to learn from our analytical process and pilot implementation projects in order to inform how to best apply these restoration techniques to western Washington streams.

The Strategy will be completed during the spring of 2020, therefore we decided to pursue ASRP funding to take the next step towards implementation by developing preliminary designs for reaches in a tributary sub-basin that is part of our analysis. Since the ASRP identifies the West Fork Satsop tributaries as high priority (ASRP Scenario 3), our project team decided to take a closer look at these tributaries at the outset of Strategy development. During this preliminary analysis, the Still Creek sub-basin was identified as a high potential watershed for achieving water quantity, water quality, and habitat benefits from in-stream restoration. This recognition was due to Still Creek exhibiting alluvial floodplain geological characteristics throughout its watershed, from a basic analysis of LIDAR data. Therefore, we initiated conversations with the landowner Weyerhaeuser about a project proposal that would build off of the prescriptions already being developed for the Still Creek sub-basin, for the highest priority reaches, as identified by the Strategy, by developing preliminary designs (30%). The development of these designs and concurrent landowner willingness discussions with Weyerhaeuser will result in permit-ready designs that are ready to secure funding for construction efforts.

This project will also initiate pre-project monitoring in the Still Creek sub-basin, based off the monitoring plan currently being developed by Natural Systems Design as part of our restoration strategy creation. The monitoring will be designed to capture key hydro-geomorphological variables such as groundwater level, discharge, channel profiles, vegetation characteristics, and sediment characteristics, so that we can determine how these change from future project implementation. Weyerhaeuser has also expressed a high degree of interest in pre and post project monitoring so that project effectiveness can be measured.

#### **J. Provide a scope of work, schedule, and permit plan.**

##### **Task 1 – Hire Design Consultant and Develop Designs**

Grays Harbor CD will hire a restoration design consultant with the expertise and experience to develop designs based off of the Satsop/Wynoochee Tributary Restoration Strategy.

GHCD and the restoration consultant will assess the highest priority restoration reaches (according to the Satsop/Wynoochee Tributary Restoration Strategy) in the Still Creek sub-basin, and determine which reaches to move forward into preliminary design, based off of potential design cost and potential benefits. Once the reaches are identified, the consultant will begin the design development process. As part of this process the design consultant will complete: Draft and Final Preliminary Plans for Priority Reaches, Construction Cost Estimate, and Permitting Pathway Assessment. During design development, Weyerhaeuser representatives will be involved in design review in order to identify and address construction feasibility concerns.

| <b><i>Deliverable</i></b>               | <b><i>Entity Responsible</i></b> | <b><i>Schedule</i></b>        |
|---|----------------------------------|-------------------------------|
| <i>Consultant selection/contracting</i> | <i>GHCD</i>                      | <i>April 2020 – June 2020</i> |

|   |                               |                               |
|---|-------------------------------|-------------------------------|
| <i>Permit Ready Preliminary Designs</i> | <i>Restoration Consultant</i> | <i>July 2020 – April 2021</i> |
|---|-------------------------------|-------------------------------|

#### Task 2 – Initiation of Pre-Project Monitoring

Grays Harbor CD and the restoration consultant will utilize the monitoring plan currently being developed for the Satsop/Wynoochee Tributary Restoration Strategy to identify appropriate areas for installing monitoring equipment in the high priority restoration reaches. Appropriate monitoring surveys will also be conducted.

| <b><i>Deliverable</i></b>  | <b><i>Entity Responsible</i></b> | <b><i>Schedule</i></b>            |
|--|----------------------------------|-----------------------------------|
| <i>Conduct monitoring surveys and purchase and install monitoring equipment in high priority restoration reaches</i> | <i>GHCD</i>                      | <i>July 2020 – September 2020</i> |

#### Task 3 – Landowner Communication During Design Development

| <b><i>Deliverable</i></b>   | <b><i>Entity Responsible</i></b> | <b><i>Schedule</i></b>  |
|---|----------------------------------|---|
| <i>Memo summarizing landowner interactions during design development and outreach efforts</i> | <i>GHCD</i>                      | <i>Quarterly reports until project completion in April 2021</i> |

#### Task 4 – Project Administration

| <b><i>Deliverable</i></b>                                 | <b><i>Entity Responsible</i></b> | <b><i>Schedule</i></b>         |
|---|----------------------------------|--------------------------------|
| <i>Grant administration/reporting (monthly)</i>           | <i>GHCD</i>                      | <i>April 2020 – April 2021</i> |
| <i>Grant vouchering and financial reporting (monthly)</i> | <i>GHCD</i>                      | <i>April 2020 – April 2021</i> |

#### **K. Explain how you determined your cost estimates.**

The costs associated with the restoration consultant work described in the project tasks were prepared through consultation with Natural Systems Design (NSD). NSD is based in the Pacific Northwest and specializes in restoration of rivers, shorelines, and wetlands. NSD and GHCD are currently developing a Restoration Strategy for the Satsop/Wynoochee Tributaries, which reduces assessment costs for this project. The Strategy develops concepts for tributary reaches, and this project proposal is able to build designs off of those concepts. NSD based the cost of development of preliminary designs off of the cost of design development for similar projects they are involved with in the Wenatchee watershed. Monitoring costs were developed in consultation with NSD, which has experience monitoring these types of projects. The Conservation District staff time costs associated with landowner outreach, and project management are based on Grays Harbor Conservation District estimates by multiplying compensation rates and estimated hours to be worked for each individual that will be involved in the project or its administration. Estimated hours worked for each task are divided up as follows and are based on similar landowner engagement and restoration design development projects that the Conservation District has been involved with:

##### **Task 1 – Hire Design Consultant and Develop Designs**

- GHCD staff (\$8,800)
  - Project Manager (150 hours) and Program Manager (30 hours): consultant hiring/contract development; coordination/collaboration with consultant during design development
- Consultant

- Data Collection, Field Reconnaissance, and Landowner Meetings (\$21,500)
- Preliminary Designs, Hydraulic Modeling, Cost Estimates (\$99,000)
  - This task assumes design of 2-4 high priority reaches of varying design complexity; the design of engineered log jam structures; engineering and stability analysis; evaluation of construction feasibility, access, and staging; and drafting of permit ready plans.
- Project Permitting Pathway (\$4,200)
  - This task assumes meeting with local, state, and federal agency representatives to outline permit requirements and conditions for the selected project. Wetlands delineation, cultural resource documentation, ESA consultation, and JARPA submittals are assumed to be part of a future scope of work.
- Project Administration (\$3,000)
- Task 2 – Initiate Pre-Project Monitoring
  - GHCD staff (\$6,000)
    - Project Manager (80 hours) and Program Manager (40 hours): Purchase and installation of monitoring equipment. Collaboration with design consultant to determine best locations for monitoring equipment installation. Monitoring surveys.
  - Consultant
    - Installation of monitoring equipment and collaboration with GHCD. Monitoring surveys (\$12,000)
  - Materials: Purchase of monitoring equipment (i.e. – time-lapse camera, stilling wells, piezometers) (\$15,000)
- Task 3 – Landowner Communication During Design Development
  - GHCD staff (\$3,000)
    - Project Manager (40 hours) and Program Manager (20 hours): design review meeting prep/follow-up and meeting facilitation
- Task 4 – Project Administration
  - GHCD staff (\$4,200)
    - Project Manager (30 hours): 30 hours for grant administration and reporting
    - Financial Administrator (60 hours): 60 hours for grant vouchering and financial reporting

**L. Describe the design or acquisition alternatives that you considered to achieve your project's objectives.**

We considered doing a design/construct project for the Still Creek sub-basin, however after preliminary discussions with both Weyerhaeuser and Natural Systems Design, we decided to focus this project on preliminary designs before seeking construction funding. Due to questions from our Weyerhaeuser contacts around construction implications, we decided that going through a design process with them would help to answer these questions before we apply for targeted restoration funding. We did not want to apply for construction funding without securing landowner willingness for a specific site, and we believe that this design project will get us to that point with Weyerhaeuser. Furthermore, going through a preliminary design process will give us better cost estimates so that we can target our construction funding request more precisely.



We considered doing this project in the Schafer Creek sub-basin of the Wynoochee watershed due to it also being part of our tributary restoration strategy analysis. However, because Schafer Creek is not a priority stream in the ASRP, we decided that a West Fork Satsop tributary would be a better fit for an ASRP grant proposal.

We considered developing designs for just the upper Still Creek sub-basin. However, we decided that using the Satsop/Wynoochee Tributary Restoration Strategy to select the highest priority restoration reaches for design would allow us to get the biggest bang for the buck in this sub-basin.

**M. Describe your long-term stewardship and maintenance plans for the project or acquired land.**

There are currently no long-term maintenance plans for this project. A goal of this project is to design structures that need minimal maintenance beyond natural large wood inputs.

**N. Landowner and Community support.**

Weyerhaeuser is the sole landowner for this design project and we have been in close communication with representatives from this company during proposal development. They are in support of moving forward with design development and are very interested in project effectiveness monitoring.

GHCD presented this project type to the Chehalis Basin Partnership (CBP) at their January 2020 meeting. The CBP will be including the Satsop/Wynoochee Tributary Restoration Strategy and associated project types in their watershed plan addendum due to the potential for these projects to benefit in-stream flow through alluvial water storage. A number of members of the CBP expressed verbal support for our approach to restoration and the potential synergies with their in-stream flow restoration goals.

The Lower Satsop Investment Plan<sup>3</sup> calls for headwater tributary restoration in the Satsop watershed in order to improve ecosystem processes (sediment retention, floodplain connection) that will have benefits downstream of the headwaters. During the development of said plan, landowners that live in the Lower Satsop reported how the Satsop has become flashier in recent years, and that the transport of sediment through the system has increased dramatically. Thus, implementation of this project type in Still Creek will begin to achieve this plan's goals of reducing flood hazards to the Lower Satsop by restoring the function of headwater streams.

**O. Budget Templates:**

**Aquatic Species Restoration Plan Cost Estimate Template**

**Table: Budget information from Excel, tab "Total All Sheets"**

|                        |               | <b>OVERALL<br/>PROJECT</b> | <b>GRANT<br/>REQUEST</b> | <b>MATCH</b>  |
|------------------------|---------------|----------------------------|--------------------------|---------------|
|                        |               | <b>Cost</b>                | <b>Amount</b>            | <b>Amount</b> |
| <u>Sheet #2 Design</u> |               |                            |                          |               |
| Design Cost            | STotal        | 176,700                    | 176,700                  |               |
|                        |               |                            |                          |               |
|                        | <b>GTOTAL</b> | <b>176,700</b>             | <b>176,700</b>           |               |

<sup>3</sup> [https://www.ezview.wa.gov/site/alias\\_1973/37263/library.aspx](https://www.ezview.wa.gov/site/alias_1973/37263/library.aspx)

## **Project proponents and partners.**

### **P. Describe your team's experience managing this type of project.**

GHCD Project Manager: Anthony Waldrop

Anthony is the lead for Chehalis Basin Strategy projects for Grays Harbor Conservation District. He acts as landowner liaison for the Satsop and Wynoochee ASRP Early Action Reaches which has involved managing landowner relationships and expectations over the course of a multi-year restoration project. Anthony has also taken a leadership role on the Satsop/Wynoochee Early Action Reach Design Teams in order to facilitate coordination between Natural Systems Design, WDFW, land trusts, and landowners. Anthony is also the project manager for the Satsop/Wynoochee Tributary Restoration Strategy and Pilot Project Implementation. This project is funded by the Department of Ecology and US Fish and Wildlife to analyze the tributary networks of these watersheds for stream impairments, prescribe restoration techniques on a reach scale for the improvement of water quality, quantity, and habitat, and construct a pilot project. The successful development of this project is directly related to this project proposal because Weyerhaeuser is involved in both projects, and this design proposal flows out of the Strategy development.

GHCD Program Manager: Tom Kollasch

Tom is the Watershed Restoration Program Manager for District watershed restoration projects in Grays Harbor and Pacific Counties. He has planned and constructed large scale restoration projects at numerous sites in southwest Washington. Tom supervises the watershed restoration work throughout the two Districts and will serve in an oversight and advisory role for this project.

### **Q. List all landowner names.**

Weyerhaeuser

### **R. List project partners and their role and contribution to the project.**

Weyerhaeuser – Providing site access, design review, and potentially monitoring assistance.

Natural Systems Design – Developing the Satsop/Wynoochee Tributary Restoration Strategy and monitoring plan, so they will be able to provide input as we transition from Strategy concepts to priority reach designs.

### **S. Barriers and concerns.**

Any public safety or infrastructure concerns will be addressed during preliminary design development and in close conversation with the landowner.

### **T. Synergy:**

This project builds on the investment being put into the development of the Satsop/Wynoochee Tributary Restoration Strategy, which is a strategic approach to prioritizing large-scale watershed restoration in two major watersheds of the Chehalis Basin. The development of the Strategy will result in reach-by-reach restoration prescriptions, with the next step being preliminary design development in close coordination with the affected landowner. This project seeks to take this next step so that we are set up to restore multiple reaches of the Still Creek sub-basin.

During project scoping with Weyerhaeuser, we had several fruitful discussions about process, and how to best proceed in project development with such a large company. Developing preliminary designs in the upper Still Creek sub-basin will build and strengthen this partnership around ASRP type projects. This will help in future discussions around ASRP projects with not only Weyerhaeuser, but also other large timber landowners throughout the basin who operate under similar regulatory and financial contexts.

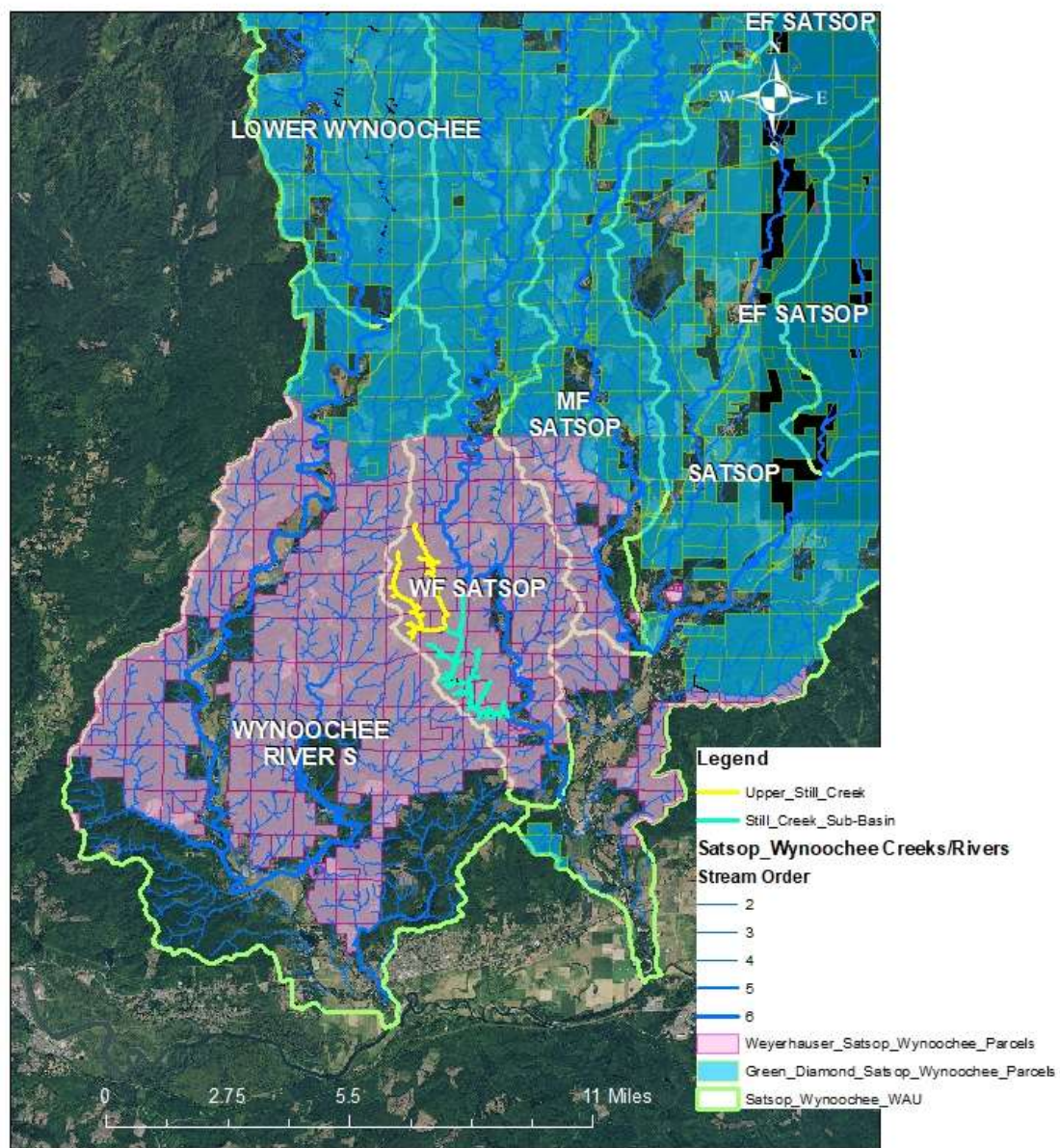
### **7. Other.**

## Other Required Attachments:

- ✓ Map with project area.

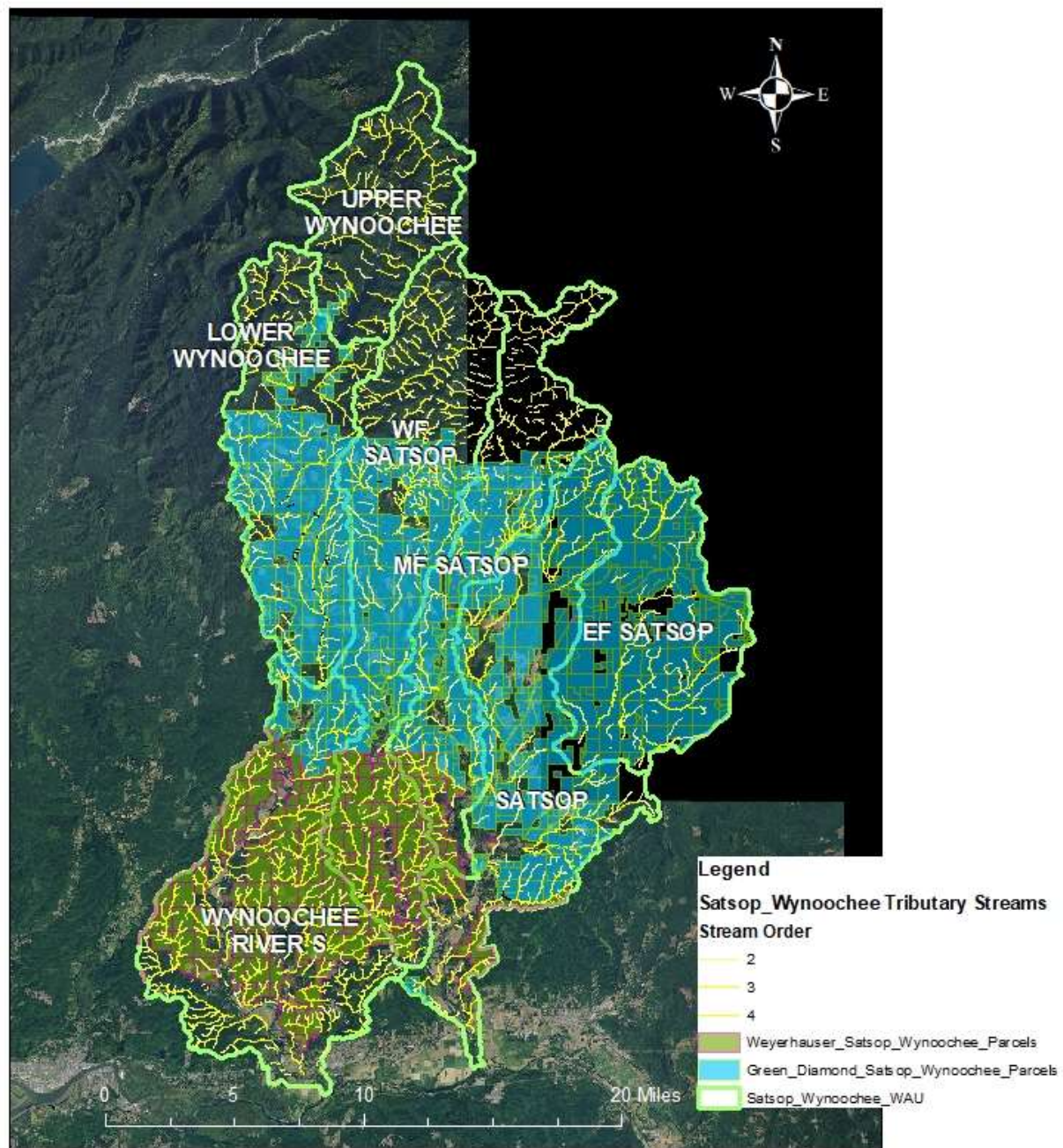
### Still Creek Sub-Basin Proposed Design Project





Vicinity Map





*Scope of Analysis for Satsop/Wynoochee Tributary Restoration Strategy (2<sup>nd</sup> to 4<sup>th</sup> order streams that intersect with private managed forest)*

✓ Detailed project budget.

| Project Name  |  | Still Creek Design Project Proposal |      |   |  |  |  |
|---|--|-------------------------------------|------|---|--|--|--|
| Sponsor   |  | Grays Harbor Conservation District  |      |   |  |  |  |
| <b>DESIGN or INFORM PROJECTS</b>  |  |                                     |      |   |  |  |  |
| The costs on this page are for design or assessment projects, not for the design phase of a restoration proposal. |  |                                     |      |   |  |  |  |
|   |  |                                     |      | OVERALL PROJECT   | GRANT REQUEST                                | MATCH  |  |
|   |  |                                     |      | Budget must account for all costs to complete the project | Enter only the amount of the project request | The project Request and Match should equal the total project cost and Budget Check cell should be 0. No match is required. |  |
|   |  |                                     |      |   |  |  |  |
| Category  | Task Description   | Qty                                 | Rate | Amount  | Amount                                       | Match  | Cash, Materials, Labor, Volunteers, Match Type (federal, state, local) |
|   |  |                                     |      |   |  |  |  |
|   |  |                                     |      |   |  |  |  |
| Administrative  | Project admin, vouchering, and financial/deliverable reporting   |                                     | \$ - | \$ 4,200  | \$ 4,200                                     | \$ -   |  |
|   | GHCD staff time for initiating pre-project monitoring  |                                     |      | \$ 6,000  | \$ 6,000                                     | \$ -   |  |
| Other   |  |                                     |      |   |  |  |  |
|   | GHCD staff time for hiring of and collaboration with landowner and restoration consultant during design development and permitting |                                     | \$ - | \$ 11,800   | \$ 11,800                                    | \$ -   |  |
| Preliminary design  |  |                                     |      |   |  |  |  |
|   | Cost of restoration consultant for preliminary design development  |                                     |      | \$ 102,000  | \$ 102,000                                   |  |  |
| Preliminary design  |  |                                     |      |   |  |  |  |
|   | Development of project permitting pathway  |                                     |      | \$ 4,200  | \$ 4,200                                     | \$ -   |  |
| Permits   |  |                                     |      |   |  |  |  |
| Equipment   | Monitoring equipment   |                                     |      | \$ 15,000   | \$ 15,000                                    |  |  |
|   | Data collection, field recon, monitoring surveys and landowner meetings for consultant   |                                     | \$ - | \$ 33,500   | \$ 33,500                                    | \$ -   |  |
| other   |  |                                     |      |   |  |  |  |
| GTOTAL  |  |                                     |      | \$ 176,700  | \$ 176,700                                   | \$ -   |  |
|   |  |                                     |      |   | PRISM Project Total                          | \$ 176,700   |  |
|   |  |                                     |      |   | RCO Percentage                               | Match Percentage   |  |
|   |  |                                     |      |   | 1  | 0.00%  |  |

✓ Design documents, when available

✓ Signed landowner acknowledgement form

# Landowner Acknowledgement Form

## Landowner Information

Name of Landowner: Weyerhaeuser Company

Landowner Contact Information:

☐ Mr. ☐ Ms. Title: Land Use Manager

First Name: Christina Last Name: Leid

Contact Mailing Address: 505 N. Evans Street Aberdeen, WA 98520

Contact E-Mail Address: christina.leid@weyerhaeuser.com

Property Address or Location: Multiple tax parcels along the proposed area of the grant applicaiton

1. Weyerhaeuser Company (Landowner or Organization) is the legal owner of property described in this grant application.
2. I am aware that the project is being proposed on my property.
3. If the grant is successfully awarded, I will be contacted and asked to engage in negotiations.
4. My signature does not represent authorization of project implementation.

 on behalf of Weyerhaeuser  
Landowner Signature Company

1/28/2020  
Date

## Project Sponsor Information

Project Name:

Project Applicant Contact Information:

☒ Mr. ☐ Ms. Title Watershed Restoration specialist

First Name: Anthony Last Name: Waldrop

Mailing Address: Grays Harbor Conservation District

E-Mail Address: 330 W. Pioneer Ave.  
Montesano, WA 98563

anthony.waldrop@graysharborcd.org