# Aquatic Species Restoration Plan

# Project Implementation Cover Sheet

## Project Name: Click or tap here to enter text.

*Use the following syntax: “Stream Name\_Location\_Type\_Phase,” e.g., “Dry Bed Creek\_RM 8 to 9\_Passage and Restoration\_Design.”*

## Project Contact Information

Sponsor Name: Click or tap here to enter text.

Contact Person: Click or tap here to enter text.

Email: Click or tap here to enter text.

Phone Number: Click or tap here to enter text.

Mailing Address: Click or tap here to enter text.

## Project Information

Project Address (main access): Click or tap here to enter text.

Project Parcels: Click or tap here to enter text.

Project GPS Decimal Coordinates (approximate center of restoration area): Click or tap here to enter text.

Project GPS Decimal Coordinates (please add for each additional location if you have multiple sites): Click or tap here to enter text.

Have participating landowners signed a landowner acknowledgement form? Yes [ ]  No [ ]

Priority Geospatial Unit (see Attachment A for a list of priority GSUs): Click or tap here to enter text.

Other Geospatial Unit: Click or tap here to enter text.

If your project is not located within an Aquatic Species Restoration Plan (ASRP) priority geospatial unit (GSU), please provide a description of how your project will directly benefit an ASRP priority GSU or ASRP focal species. GSU maps can be found at the following links: [Years 1–10 Near-Term Priorities for ASRP Implementation](https://chehalisbasinstrategy.com/wp-content/uploads/2022/09/Chehalis-ASRP-Years-1-10-Near-Term-Priorities-for-ASRP-Implementation-20201029.pdf), [Years 11–20 Mid-Term Priorities for ASRP Implementation](https://chehalisbasinstrategy.com/wp-content/uploads/2022/09/Chehalis-ASRP-Years-11-20-Mid-Term-Priorities-for-ASRP-Implementation-20201029.pdf.pdf), and [Years 21–30 Long-Term Priorities for ASRP Implementation](https://chehalisbasinstrategy.com/wp-content/uploads/2022/09/Chehalis-ASRP-Years-21-30-Long-Term-Priorities-for-ASRP-Implementation-20201029.pdf).

Click or tap here to enter text.

# Conflict of Interest Disclosure

*Team members must inform the ASRP Implementation Manager, the Regional Implementation Team (RIT), and the RIT Lead when there may be a real or perceived conflict of interest. If a member stands to benefit or has other ties to a project, the member should notify the group, have a discussion, and follow the consensus of the group as to the presence of a conflict of interest, how serious it is, and what action to take. If the member does not think they have a conflict, they should clearly state why.*

*A conflict of interest may constitute the following:*

* *The potential for personal financial (or other) gain from the project*
* *Having conducted private business or personal services with a sponsor organization or key stakeholder, such as a landowner*
* *Involvement with other organizations or vendors, or any other associations that might produce a conflict of interest regarding a specific project proposal*

Is the participating landowner(s) also a project sponsor or ASRP program staff? Yes [ ]  No [ ]

If yes, please describe: Click or tap here to enter text.

Are any project partners (sponsor, design team, or landowner) also part of the ASRP funding approval process (Technical Review Team, ASRP Steering Committee, Chehalis Basin Board)? Yes [ ]  No [ ]

If yes, please describe: Click or tap here to enter text.

Describe any other potential conflicts of interest:

Click or tap here to enter text.

# Initial Site Assessment Template

## Project Overview

Which priority GSU is this project in? Click or tap here to enter text.

Which top three limiting factors are prioritized in this GSU? Click or tap here to enter text.

What restoration/protection actions are prioritized for this GSU? Specify High, Medium, and Low priorities. Click or tap here to enter text.

How do the actions you propose specifically address the limiting factor(s) identified above? How effective are those actions likely to be in addressing the limiting factors (local scale vs. GSU scale)? Click or tap here to enter text.

Is (are) the landowner(s) interested and willing to participate? Yes [ ]  No [ ]

Is (are) the landowner(s) interested in an acquisition or easement? Yes [ ]  No [ ]

## Background Information

*Using available GIS and published data (example data source links provided for each subsection), provide brief information to address each of the following major ecosystem topics. This information is important to help project reviewers and participants understand the key watershed issues and how feasible your project is to address the identified limiting factors and achieve ASRP goals.*

### Sub-Basin Overview

Ecoregion: Click or tap here to enter text.

Dominant land uses (OCB webmaps, aerial, landcover, parcels, zoning):

Click or tap here to enter text.

Known aquatic species presence ([ASRP document](https://chehalisbasinstrategy.com/asrp-phase-i-draft-plan/), [SalmonScape](https://apps.wdfw.wa.gov/salmonscape/), [Priority Habitats and Species map](https://wdfw.wa.gov/species-habitats/at-risk/phs/maps); *please include specific life-stage use and population density information where possible*):

Click or tap here to enter text.

Which ASRP focal or indicator species will your proposal specifically address (can be more than one species)? *Include information on how your project will specifically address these species in the “Opportunities/Project Concept Plan” section below.*

|  |  |
| --- | --- |
| ASRP Focal Species | ASRP Potential Indicator Species (Phase 1) |
| [ ]  Spring-run Chinook salmon[ ]  Oregon spotted frog[ ]  Coastal tailed frog | [ ]  Winter-run steelhead[ ]  Coho salmon[ ]  Fall-run Chinook salmon[ ]  Chum salmon[ ]  Mountain whitefish[ ]  Eulachon[ ]  Pacific lamprey[ ]  Olympic mudminnow[ ]  Speckled dace[ ]  Largescale sucker[ ]  Riffle sculpin[ ]  Reticulate sculpin[ ]  Western toad[ ]  Northern red-legged frog[ ]  Van Dyke’s salamander[ ]  Great blue heron[ ]  Barrow’s goldeneye[ ]  Wood duck[ ]  North American beaver[ ]  Western pond turtle[ ]  Western ridged mussel |

### Hydrology

Describe hydrologic conditions and issues within the GSU and sub-basin. For example, are low flows a concern, or are high flows or scour a concern? *Gage data may be obtained from* [*https://waterdata.usgs.gov/wa/nwis/rt*](https://waterdata.usgs.gov/wa/nwis/rt)*.*

Click or tap here to enter text.

Geology/Soils

Would any special conditions affect opportunities? Yes [ ]  No [ ]

What is the underlying geology in the GSU that may contribute to special conditions or denote specific sediment or geomorphologic conditions? ([Washington Geologic Information Portal](https://geologyportal.dnr.wa.gov/2d-view#wigm?-13983315,-12956002,5746759,6301386?Surface_Geology,500k_Surface_Geology,Geologic_Units_500K))

Click or tap here to enter text.

What are the primary soils on your project site, and would they affect project actions? For example, is erosion a concern and are soils easily erodible? (<https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>)

Click or tap here to enter text.

### Floodplains

Is your project site within a mapped floodway or floodplain? *Attach floodplain map or screenshot for your project site (*[*https://msc.fema.gov/portal\home*](https://msc.fema.gov/portal%5Chome)*)*. Yes [ ]  No [ ]

Are there houses, structures, or infrastructure on or adjacent to your project site that could be affected by or constrain your proposed actions in the floodway or floodplain? Are there opportunities to work with adjacent landowners to reduce constraints? *Provide a brief description.*

Click or tap here to enter text.

### Water Quality

Is your project site in an area listed for impaired water quality? (<https://apps.ecology.wa.gov/waterqualityatlas/wqa/proposedassessment>) Yes [ ]  No [ ]

Is water temperature or other water quality concerns a limiting factor for aquatic species at your project site? Yes [ ]  No [ ]

Would actions taken at your project site ameliorate water quality concerns at your project site (local scale) and/or contribute to ameliorating water quality conditions at a larger scale (e.g., at the GSU scale)?

Click or tap here to enter text.

## Site Conditions from Initial Site Assessment

### Geomorphology

Identify geomorphic conditions in your project area (such as past or recent avulsions, bank armor, levees, evidence of bed incision or sediment aggradation, or large wood deposition) and how substantial and/or widespread these conditions are within the reach.

Click or tap here to enter text.

How would your proposed actions restore natural geomorphic processes in the reach, and what constraints might affect their effectiveness (e.g., existing levees or bank armoring that is protecting structures or infrastructure; ongoing land uses)? *Attach photographs.*

Click or tap here to enter text.

### Habitat Conditions

#### Aquatic

Describe the general stream habitat characteristics of your project reach (e.g., pools, riffles, glides, side-channels, oxbows, or presence of large wood). Describe how your actions would result in increased habitat quantity and quality within the project reach.

Click or tap here to enter text.

#### Riparian

Describe the riparian conditions of your project reach (e.g., generally forested with deciduous trees such as alder and big-leaf maple ranging from 12 to 24 inches in diameter). Describe how your actions would increase riparian quantity and quality and contribute to riparian processes.

Click or tap here to enter text.

#### Barriers

Are there fish passage barriers within your project reach? If so, explain. Describe if/how your actions would address fish passage barriers within the project reach. Yes [ ]  No [ ]

Click or tap here to enter text.

## Opportunities/Concept Plan

Describe proposed restoration actions with a narrative on which actions are most important and why. Attach an aerial map with parcels and project area outlined with concept features (can be circles with callouts indicating project features).

Click or tap here to enter text.

## Timeline and Deliverables

Identify the estimated timeline and phases for your project and the deliverables associated with each phase (see Attachment B for example project deliverables, e.g., conceptual design report, final plans and specifications).

Click or tap here to enter text.

## Received and Anticipated Permits

Identify any permits that have already been received for this project. List any permits that you anticipate you would need for this project, and describe any expected delays or roadblocks in receiving those permits.

Click or tap here to enter text.

## Which ASRP Goals Does Your Project Contribute To?

[ ]  Protect and restore natural habitat-forming processes within the Chehalis Basin watershed context.

* [ ]  Protect and restore natural riverine processes including channel migration, sediment and wood transport, and floodplain connectivity.
* [ ]  Protect and restore riparian processes and functions including cover, shade, inputs of large wood, leaf litter and insect inputs to the aquatic food web, sediment and erosion functions, nutrient and pollutant trapping and filtering, and floodplain processes.

[ ]  Increase the quality and quantity of habitats for aquatic species in priority areas within the Chehalis Basin.

* [ ]  Significantly increase quality of and access to instream habitat for aquatic species (including habitat needs for migration, reproduction, rearing/feeding, and overwintering habitats).
* [ ]  Protect and enhance existing functioning core habitats for species across their life history trajectories.
* [ ]  Increase habitat complexity and diversity.
* [ ]  Protect and restore native riparian, floodplain, off-channel, and wetland habitats.
* [ ]  Minimize suitability for invasive species within instream and riparian habitats.

[ ]  Protect and restore aquatic species viability within and across the Chehalis Basin considering viable species population parameters.

[ ]  Increase watershed resiliency to climate change by protecting and improving natural water quantity, timing characteristics, and water quality characteristics.

## Budget Narrative

Provide an overall narrative of what you are requesting funding for (e.g., design only, design and construction, construction only) and provide an explanation of how the costs were derived.

Click or tap here to enter text.

## Funding Plan

Please describe if you have received previous ASRP funding (such as for an earlier phase of the project) or if you have or have applied to obtain matching or supplementary funding, including the source of the funding and any time restrictions on funding.

Click or tap here to enter text.

## Initial Cost Estimate

Fill in proposed project design and/or construction or acquisition costs. If design is included, please state to what level of design you are proposing (conceptual, preliminary, final) and provide a more detailed explanation of design costs.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ASRP Reach-Scale Project- Concept Level Cost Estimate |  |  |  |  |
| **Construction** | **Unit** | **Unit Cost** | **Type** | **Number** | **Subtotal** |
|  Fish Barrier Removal | Each | Unit Cost | Type | Number | $0 |
|  Engineered Log Jams | Each | Unit Cost | Type | Number | $0 |
|  Beaver Dam Analogs | Each | Unit Cost | Type | Number | $0 |
|  Large Wood (Single Pieces) | Each | Unit Cost | Type | Number | $0 |
|  Riparian Restoration | Acre | Unit Cost | Type | Number | $0 |
|  Floodplain Reconnection | Linear Feet | Unit Cost | Type | Number | $0 |
|  Oxbow or Side-Channel Reconnection | Linear Feet | Unit Cost | Type | Number | $0 |
|  Wetland Restoration | Acre | Unit Cost | Type | Number | $0 |
|  Invasive Species Management | Acre | Unit Cost | Type | Number | $0 |
|  Other (please explain): Click or tap here to enter text. | Unit | Unit Cost | Type | Number | $0 |
| **AA&E** | Lump Sum | N/A | N/A | N/A | $0 |
| **Removals or Relocations** | Each | Unit Cost | Type | Number | $0 |
| **Acquisition or Easement** | Acre | Unit Cost | Type | Number | $0 |
| ***Subtotal Construction*** | $0 |
| **Design1** | Lump Sum | N/A | N/A | N/A | $0 |
| **Permitting2** | Lump Sum | N/A | N/A | N/A | $0 |
| **Management3** | Lump Sum | N/A | N/A | N/A | $0 |
| **Cultural Resources4** | Lump Sum | N/A | N/A | N/A | $0 |
| **Other (please explain):** Click or tap here to enter text. | Unit | Unit Cost | Type | Number | $0 |
| **Contingency5** | Lump Sum | N/A | N/A | N/A | $0 |
| **Indirect6** | Lump Sum | N/A | N/A | N/A | $0 |
| **Tax** | %0 | $0 |
| **Total** | $0 |
| Notes:  |  |  |  |  |  |
| 1. Design is typically 10% to 15% of construction costs (less for planting or invasives treatment projects).
 |
| 1. Permitting is typically 5% to 10% of construction costs (less for planting or invasives treatment projects).
 |
| 1. Management includes sponsor management and construction management and is typically 10% to-15% of construction costs.
 |
| 1. Cultural Resources should be included for all restoration and protection projects. Costs are dependent on project scale and specific site considerations; consult with a cultural resource professional for more accurate cost estimates. Costs can range from $10k+ for projects less than 1 acre, $25k+ for projects 1 to 50 acres, and $100k+ for projects greater than 50 acres.
 |
| 1. Contingency at the early project stage is typically 25% to 30%.
 |
| 1. Per Washington State Recreation and Conservation Office (RCO) rules, sponsors may charge up to 10% of modified total direct costs, a federally approved rate, or an RCO-negotiated rate. Rates must be on file with RCO. This applies to any subcontractors.
 |

## Project Metrics

Please fill in metrics for your project as best understood at this time.

|  |  |
| --- | --- |
| Project Metric | Value |
| Floodplain acres restored and/or protected | Click or tap here to enter text. |
| Miles of instream habitat restored | Click or tap here to enter text. |
| Linear feet of geomorphic impediments removed | Click or tap here to enter text. |
| Linear feet of side channels restored | Click or tap here to enter text. |
| Acres of invasive species treated | Click or tap here to enter text. |
| Acres of riparian plantings | Click or tap here to enter text. |
| Acres of amphibian habitat restored and/or protected | Click or tap here to enter text. |
| Miles of habitat access improved with barrier removal | Click or tap here to enter text. |

Attachment A
Geospatial Unit Table



Attachment B
Project Milestones

COMMON ASRP GRANT MILESTONES

Project milestones may change during performance period via the process of progress reports. If there are multiple worksites, please specify a completion date for each relevant milestone and worksite.

**Design Projects**

|  |  |
| --- | --- |
| **PRISM Milestone** | **Date** |
| Applied for Permits (If applicable) |  |
| Permits Complete |  |
| RFP Complete/Consultant Hired (If applicable) |  |
| Cultural Resources Complete (If design requires ground disturbance) |  |
| Data Gathering Started |  |
| Data Gathering Complete |  |
| Conceptual design and design report to RCO (if not provided at application) |  |
| Preliminary design and design report to RCO (if not provided at application) |  |
| Final project design and design report to RCO (if it is a required project deliverable) |  |
| Agreement End Date (no match projects must be within 18 mos. of start date.) |  |

 **Acquisition**

|  |  |
| --- | --- |
| **PRISM Milestone** | **Date** |
| Order Appraisal(s) |  |
| Order Appraisal Review(s) |  |
| Purchase and Sale Agreement Signed |  |
| Recorded Land Survey to RCO |  |
| Environmental Assessment Complete |  |
| Cultural Resources Complete |  |
| Acquisition Closing |  |
| Recorded Acq Documents to RCO |  |
| Noxious Weed Control Complete |  |
| Demolition Complete |  |
| Fencing Complete |  |
| Agreement End Date |  |

 **Restoration**

|  |  |
| --- | --- |
| **PRISM Milestone** | **Date** |
| Cultural Resources Complete |  |
| Permits Complete |  |
| Landowner Agreement to RCO (required if project occurs on land NOT owned by sponsor) |  |
| Bid Awarded / Contractor Hired |  |
| Restoration Started |  |
| Restoration Completed |  |
| In-Water Construction Started |  |
| In-Water Construction Complete |  |
| Riparian/Floodplain Planting Started |  |
| Riparian/Floodplain Planting Completed |  |
| Invasive Species Treatment Started |  |
| Invasive Species Treatment Completed |  |
| As-built drawings to RCO |  |