# Appendix C-4: Regional Monitoring Project Proposal

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| **Project Number** | 17-1304 |
| **Project Name** | Asotin IMW Monitoring 2017 |
| **Sponsor** | ACCD |

List all related projects previously funded or reviewed by RCO:

|  |  |  |
| --- | --- | --- |
| **Project # or Name** | **Status** | **Status of Prior Phase Deliverables and Relationship to Current Proposal?** |
| 16-2101 | In progress (funding pending) | Partial funding of IMW Monitoring via PSFMC monitoring support to Sept 30, 2017 |
| 15-1433 | In progress | Partial funding of IMW Monitoring via PSMFC for 2016 |
| 15-1321 | In progress | IMW Restoration |
| 15-1315 | In progress | Partial funding of IMW Monitoring via SRFB for 2016 |
| 14-2328 | Completed | Partial funding of IMW Monitoring (fish-in/fish-out) via PSMFC for 2015 |
| 14-2229 | Completed | Partial funding of IMW Monitoring via PSMFC for 2015 |
| 13-1593 | Completed | Partial funding of IMW Monitoring (fish-in/fish-out) via PSMFC for 2014 |
| 13-1001 | Completed | Partial funding of IMW Monitoring via PSMFC for 2014 |
| 12-1637 | Completed | IMW Restoration Implementation (second phase) |
| 12-1038 | Completed | IMW Monitoring (partial) |
| 11-1573 | Completed | IMW Restortation Implementation (first phase) |
| 10-1903 | Completed | IMW Monitoring Funding (partial) |
| 09-1308 | Completed | IMW Monitoring Funding (start of project) |

If previous project was not funded, describe how the current proposal differs from the original.

*Please respond to each question individually. Do not summarize the answers in essay format. Regions and the Monitoring Panel will use this information to evaluate the project.* ***Please be concise. Prepare as brief a proposal as possible that adequately describes the project, yet provides enough details to determine it is scientifically sound****. The sponsor may reference and attach longer documents in appendices, if they provide essential information to convey context or prior work. The sponsor may delete the italicized portion of the questions and inapplicable supplemental questions to shorten the proposal.*

*RCO “Manual 18, Salmon Recovery Grants” and addendum on regional monitoring are available at* [*www.rco.wa.gov/doc\_pages/manuals\_by\_number.shtml*](http://www.rco.wa.gov/doc_pages/manuals_by_number.shtml)*.*

*Submit this proposal as a PRISM attachment titled “Project Proposal.”*

1. **Project brief.** *In one or two sentences, what do you propose to do?*

This is an ongoing Intensively Monitored Watershed to assess the effectiveness of large woody debris restoration and has been ongoing for 8 years. This proposal is for monitoring funds to maintain the current level of monitoring of fish and habitat in the IMW due a short-fall in PCSRF funds.

1. **Project location.** *Please describe the geographic location, water bodies, the location of the project in the watershed, and the habitat category, i.e. nearshore, tributary, main stem, off-channel, etc.*

Upper Asotin Creek including Charley Creek, North Fork Asotin Creek, and South Fork Asotin Creek.

1. **List the most important fish resources that will benefit from the information generated by the monitoring effort.**

|  |  |  |
| --- | --- | --- |
| **Species** | **Life History Targeted (egg, juvenile, adult)** | **Endangered Species Act Coverage (Y/N)** |
| Steelhead | all | Y |
| Chinook | all | Y |
|  |  |  |

1. **What resource management actions could the information affect?**

The information generated by the Asotin IMW will be used to inform and improve restoration effrots in southeast Washington and possibly in other watersheds in Washington with similar characteristics. The information can also be used to plan and prioritize restoration efforts and to better understand how or if freshwater production of wild salmon species can be increased with the addition of LWD.

1. **Approach.** *Please attach a detailed study plan in PRISM titled “Study Plan” that includes all of the elements identified in the supplemental requirements section at the end of this proposal.*
2. **Costs.**
   1. **Explain how cost estimates were determined.**

Our cost estimates have been estimated based on 9 years of previous monitoring efforts on the Asotin IMW. We are currently conducting the minimum level of effort to be able to meet our objectives and receive considerable logicitcal and technical in-kind support to supplement our monitoring efforts. WDFW supplied the estimated costs to replace all PIT tag monitoring infrastructure for each interrogation site.

* 1. **Why are SRFB funds necessary, rather than funds from other sources?** *State if other funds are unavailable. Identify other funding partnerships involved and explain what aspects of monitoring the proposed SRFB funds will cover.*

Federal funds from the Pacific Coastal Salmon Recovery Fund (PCSRF) have supported the majority of the IMW monitoring since its beginning in 2008. However, recently those funds have been shared between the Asotin IMW and Lower Columbia IMW. We are requesting funds from the SRFB to replace funds that may not be available from PCSRF for 2018 and we have a desperate need to replace damaged and aging PIT tag infrastructure that both the IMW and WDFW fish in/fish out monitoring program rely on.

1. **Certainty of success.** *Explain why the sponsor and project partners’ knowledge, planning, and experience will ensure that the project will yield meaningful information.*

We have successfully designed, implemented, and assessed the Asotin IMW project since 2008 under difficult funding circumstances. This included implementing 14 km of restoration and building over 650 LWD structures. We have decades of experience monitoring and assessing fisheries and habitat data and are currently in the final phases of the IMW; therefore, we are best suited to complete this important project.

1. **Forms for project proponents.**
   1. **List all landowner names.** *If the monitoring project will occur on land not owned by the organization, attach a Landowner Acknowledgement Form (Manual 18, Appendix F) in PRISM.*

WDFW and USFS. See Lnadowner attachment form.

* 1. **Attach a Partner Contribution Form (Manual 18, Appendix G) from each partner in PRISM.** *Refer to Manual 18, Section 3 for when this is required.*

SRSRB and RTT – oversight and technical review, WDFW – collect data and provide logistical support, USFS – donate LWD and logistical support

1. **Will the sponsor apply for permits as part of this project’s scope?  
   Choose an answer**

No.

* 1. **If so, identify the permits required and the issuing organization.**

### Supplemental Requirements

**Study plan.** Please attach a detailed study plan in PRISM titled “Study Plan” that includes the elements below; present the information in any order.

1. Purpose. *Describe the information needs and how these data will be used.*
2. Describe how the proposed monitoring will provide data essential for advancing salmon recovery. *What high priority information needs or data gaps identified within the regional recovery plan and/or associated regional research, monitoring, and evaluation plan (or lead entity strategy in areas without a recovery region) will the study address? What salmonid fish species will benefit?*
3. Explicitly identify the geographic scale of data collection and conclusions referred to within the data. *Describe if the design and analyses allow for generalized results beyond the initial geographical scale of the project. If the project is a part of a larger overall monitoring project or strategy, describe the goal of the overall strategy, explain individual sequencing steps, and which steps are included in this application for funding. Attach a map in PRISM that illustrates how this project fits into the overall strategy, if relevant.*
4. Are these data available from other sources (literature, other SRFB monitoring, etc.) or being adequately addressed by prior or ongoing studies or existing literature? *Describe any previous or ongoing assessment or inventory work in the project’s geographic area and describe how this project will build upon, rather than duplicate, the completed or ongoing work. Include detail about other monitoring efforts that complement or could help accomplish the overall objective, so that readers can understand the gaps, if any.*
5. How will the study contribute to validating or revising current management strategies or assessing progress toward delisting the focal species? *Include explicit ties of the proposed monitoring to advancing our knowledge of viable salmonid populations (VSP) parameters (abundance productivity, spatial structure, diversity) of the focal species.*
6. Does this study have specific regional importance and provide a regional a benefit? *Has the appropriate region shown its support for this project by signing and submitting regional certification?*
7. Project goals, objectives, and hypotheses.
8. What are the project’s goals? *The goal of the project should fill specific gaps in information essential to salmon recovery efforts. The goal statements should broadly articulate desired ecological outcomes of the proposed activity.*
9. What are the project’s objectives? *Objectives support and refine the goals, breaking them down into smaller steps. Objectives are specific, quantifiable actions the project will complete to achieve the stated goal. Each objective should be “SMART:” Specific, Measurable, Achievable, Relevant, and Time-bound. State “SMART” objectives as expected “outcomes” rather than “output.” Monitoring project objectives should tell a reader what the sponsor wants to learn rather than what they will do. The description should include clearly stated, testable hypotheses.*
10. Methods.
11. Sampling design. *Provide a written description and map of the sampling locations. If locations are not yet defined, describe the process by which the sponsor will identify sampling locations.*
12. Data collection methods. *Describe or reference the response variables or metrics evaluated, the rationale for their selection, field methods, protocols, and essential equipment. Are the selected metrics consistent with ongoing monitoring efforts in the region? If not, provide justification for the departure.*
13. Analytical approach. *Describe the statistical tests used to test the hypotheses identified in Part B of the Study Plan. Include a preliminary power analysis.*
14. Data management. *Describe the sponsors approach to data management, storage, and archival to ensure data quality and availability for sharing.*
15. Dissemination of results. How will the sponsor disseminate collected data and reports?
16. Tasks and schedule. *Identify project collaborators and their roles and contributions to the project. Provide a detailed description of the proposed project tasks, the party responsible for each task, a schedule or timeline for accomplishing them, and list the project deliverables. Include an annual report as a deliverable.*
17. Assumptions and contingencies. *Identify assumptions and constraints that could affect the sponsor’s ability to achieve objectives and how the sponsor will modify the approach if the sponsor does not meet assumptions.*
18. Literature cited. *If available, clearly cite documents referenced within the study plan with electronic links. If supporting documents are not publicly available, they should be loaded onto PRISM. Where appropriate, a brief literature review can be included in the study plan.*

### Comments

Monitoring projects will not usually include a site visit by the Monitoring Panel, but site visits may occur at the panel’s discretion. Use this section to respond to any questions that the sponsor received after submitting the final application.

#### Response to Post-Application Questions

Please describe how the sponsor responded to the Monitoring Panel’s post-application questions. *List each of the Monitoring Panel’s questions here and use this space to respond directly to the questions. Update the proposal to be consistent with comments.*