

PROJECT: 16-2101 MON, ASOTIN IMW MONITORING YR10

Sponsor: Asotin Co Conservation Dist Program: Salmon Federal Activities Status: Active Project Start Date: 01/01/2017 Agreement End Date: 01/31/2018

Final Report Status: Accepted 02/07/2018

Description

PROJECT AGREEMENT DESCRIPTION

The Asotin County Conservation District proposes to support one year of ongoing monitoring in the Asotin Cr Intensively Monitored Watershed project (Asotin IMW). The project started in 2008 and is expected to run until 2019. Funds will support i) juvenile steelhead PIT tagging and mark-recapture surveys, and ii) habitat monitoring using the Columbia Habitat Monitoring protocol (CHaMP). These two monitoring efforts are being used to assess the effectiveness of large woody debris (LWD) to increase juvenile productivity in Asotin Cr. Three tributaries will be monitored: Charley, North Fork Asotin, and South Fork Asotin Cr. Funds are needed because the current IMW monitoring budget being provided by Pacific State Marine Funding Commission (PSMFC) has been reduced in 2016 to \$178,000 from an average of ~\$250,000. It is critical at this stage in the Asotin IMW to maintain the basic monitoring level to ensure its goals can be completed: namely to determine the effectiveness of LWD restoration methods, determine the causal mechanisms of habitat and fish responses, and to provide recommendations for implementing LWD restoration in other watersheds. Fish monitoring occurs in 12 sites, each 300-500m long, four in each tributary. Habitat monitoring occurs in 12 CHaMP sites in Charley and North Fork Asotin Cr, each 160-200m long. This project will support ESA listed steelhead recovery. All data will be made publicly available. Data analyses will be conducted with other funds.

FINAL PROJECT DESCRIPTION

This project was an ongoing multi-year monitoring project to assess the effectiveness of stream restoration at increasing steelhead production. In 2017, we used these funds to conduct a complete round of habitat monitoring in Asotin Creek using the Columbia Habitat Monitoring Protocol (CHaMP) along with our other funding source (PSMFC). We completed 18 CHaMP sites from August-October 2017 and post-processed all the data. With the remaining monitoring funds we began analysis and summary of the CHaMP data to support a 10 year summary report for the IMW. The summary report will be completed in early 2018 and a copy will be provided to RCO.

Narrative

This is an exciting time for the IMW – we have completed 5 years of pre-restoration monitoring, implemented 14 km of restoration treatment, and completed 5 years of post-treatment monitoring. We have detected significant changes in the habitat (e.g., increases in LWD, pools, and bar development) and detected changes in juvenile steelhead abundance (~30% increase in abundance across all three streams). We have calculated seasonal survival of juvenile steelhead from 2008-2016 and began to estimates the number of smolts produced from treatment and control sections and will be testing to see if there is a statistical difference between treatment and controls in the upcoming 10 year summary report. We expect to receive some federal funding for the next 4 years to help complete this project.

Worksites

Worksite #1: Astoin

Worksite Address (Optional) Street Address

City

State, Zip

Worksite Details

Worksite #1: Astoin

Worksite Name Astoin

WORKSITE DESCRIPTION

The project will take place within the Asotin Creek watershed in the IMW study area, which includes Charley Creek, North Fork Asotin Creek, and South Fork Asotin Creek. Monitoring is the only activity occurring.

Geographic Coordinates

From mapped point: Latitude 46.272834 Longitude -117.293607
For Directions: Latitude 46.273813 Longitude -117.292993

SITE ACCESS DIRECTIONS

The Asotin watershed and IMW study area can be accessed from the town of Asotin by heading up Asotin Creek Rd.

Page 1 of 6 02/07/2018

Properties

The selected project has no properties

Monitoring Metrics

	Current Agreement	Final
Worksite: Astoin (#1)		
Targeted salmonid ESU/DPS (A.23) The salmon ESU (Evolutionarily Significant Unit) or steelhead DPS (Distinct Population Segment)	No Salmon ESU or Steelhead DPS	No Salmon ESU or Steelhead DPS
name that the project is targeting. For species where ESU/DPS name is not known or determined, use the species name with unidentified ESU (e.g., Chinook salmon - unidentified ESU).	Chinook Salmon-Snake River Fall-run ESU	Chinook Salmon-Snake River Fall-run ESU
	✓ Chinook Salmon-Snake River Spring/Summer-run ESU	✓ Chinook Salmon-Snake River Spring/Summer-run ESU
	Chinook Salmon- unidentified ESU	Chinook Salmon- unidentified ESU
	✓ Steelhead-Snake River Basin DPS	✓ Steelhead-Snake River Basin DPS
	Steelhead/Trout- unidentified DPS	Steelhead/Trout- unidentified DPS
Targeted species (non-ESU species)	None	None
Select one or more of the fish species that this project will benefit.	Unknown	Unknown
	Brook Trout	Brook Trout
	Brown Trout	Brown Trout
	Bull Trout	Bull Trout
	Cutthroat	Cutthroat
	Kokanee	Kokanee
	✓ Rainbow	✓ Rainbow
	Searun Cutthroat	Searun Cutthroat
Priority in Recovery Plan Priority in Recovery Plan. How is the project prioritized or justified by the above plan? (i.e. addresses a priority action, occurs in a priority area, or targets a priority species). Include page reference. If project was not identified in a Plan, enter 'None'		Not Collected at Closure
Number of Reports Prepared (E.0.e.1)	0	0
Number of reports Prepared (E.S.S.T) Number of reports prepared by the project on management or restoration data collected and RM&E outcomes. These reports could be progress reports, monitoring reports, or final reports associated with research. Reports should be uploaded into the PCSRF database (see A.19.a and A.19.b). If none, enter zero.	U	Ü
Name Of Report (E.0.e.2)	None	None
Name of report(s) (Author, date, title, source, source address. Endnote citation format). If no reports prepared, enter 'none'.		
Project Identified in a Plan or Watershed Assessment (E.0.c) Name of the Plan, Watershed Assessment or Recovery Plan that identifies the need or justification for conducting this project. (Author, date, title, source, source address. Endnote citation format). If project was not identified in a Plan, enter 'none'.	Snake River Salmon Recovery Board (2011 Version). Snake River Salmon Recovery Plan for SE Washington. Dayton, WA. Snake River Salmon Recovery	Snake River Salmon Recovery Board (2011 Version). Snake River Salmon Recovery Plan for SE Washington. Dayton, WA. Snake River Salmon Recovery
Number of Cooperating Organizations (E.0.d.1) Number of organizations cooperating with this project by concurrently conducting field work on other components of a Comprehensive Strategy or Program. If none, enter zero.	River Salmon Recovery Region	2 River Salmon Recovery Region 8. Provisional Work Plan 2013-2018.
Name Of Cooperating Organizations (E.0.d.2) Name(s) of cooperating organizations. If none, enter 'none'.	Performance (Asotin IMW) and WDFW.	Perfect Association (Association (Associatio
Complement Habitat Restoration Project (E.0.b) Name of the habitat restoration project that is complemented by this project. Record name of the habitat project complemented, project ID number and project sponsor. If project does not complement a habitat project, enter 'none'.		Asotin IMW Restoration Treatments (11-1573, 12-1637, 15-1321)

Monitoring

Field projects that monitor effectiveness of restoration projects; salmonid abundance; biological or physical indices; salmonid harvests; or, water quality/quantity (flow). Monitoring projects collect fish abundance or habitat condition data usually over multiple years to assess trends or to assess effectiveness of restoration actions.

Page 2 of 6 02/07/2018

Acres of watershed area r	monitored (E.1.b.2)
---------------------------	---------------------

Number of acres of watershed area monitored by this project worksite (to nearest 0.1 acre). If there is more than one type of monitoring and the monitoring types overlap area, report total area for all types (i.e., do not double-count areas of overlap).

Record Name Of Strategy/Program (E.1.d)

Record name of strategy/program (Author, date, title, source, source address. Endnote citation format).

Square miles of water monitored (E.1.b.3)

square miles (to nearest 0.01 mile) of water area monitored.

Stream Miles Monitored (E.1.b.1)

Number of miles of stream monitored for habitat condition, water quality, or salmonid abundance and productivity at this project worksite(to nearest 0.01 mile).

Intensively monitored watershed (E.1.c.15)

Intensively monitored watershed.

Total cost for Intensively monitored watershed

Enter the cost (to the nearest dollar) of this work type, as close as you can reasonably get it.

acres (to nearest 0.1 acre) Intensively monitored watershed (E.1.c.15.c)

acres (to nearest 0.1 acre) of Intensively monitored watershed.

miles (to nearest 0.01 mile) Intensively monitored watershed (E.1.c.15.a)

miles (to nearest 0.01 mile) of stream in the intensively monitored watershed.

Seber, G.A.F. 1982. The 2nd Edition. Charles Griffin and Company London

Seber, G.A.F. 1982. The estimation of animal abundance. estimation of animal abundance. 2nd Edition. Charles Griffin and Company London

180.0

CHaMP. 2014. Scientific protocol CHaMP. 2014. Scientific protocol 25.00 thin 25.00 thin the Columbia Habitat ivionitoring

180.0

Program.

\$111,000

the Columbia Habitat Monitoring Program.

Not Collected at Closure

180.0 180.0

25.00 25.00

Overall Metrics

Current Agreement	Final

Completion Date

Projected date of completion 1/31/2018 12/31/2018

Estimated date the scope of work will be completed

Project Goals

Goals, purpose, and expected benefits (A.17)

Short description of the goals and purpose of the project and how it is expected to benefit salmonids or salmonid habitat

The Asotin County Conservation District will use this grant to support one year of ongoing

The Asotin County Conservation District will use this grant to support one year of ongoing monitoring in Asotin Creek. Asotin monitoring in Asotin Creek. Asotin

Monitoring Costs

Final amounts include a pending billing Date of Last Released Billing 01/11/2018

	Date of Last Neleased Billing		Streteased billing 01/11/2010
		Proposed	Final
Worksite: Astoin (#1)			
	SPLIT OUT FINAL TOTAL BELOW	\$111,000.00	\$111,000.00
Monitoring Costs (E.1.a)		\$111,000	\$111,000
	Difference		\$0

Page 3 of 6 02/07/2018

Billed Summary

Final amounts include a pending billing Date of Last Released Billing 01/11/2018

	Project Agreement			Totals To Date	
Category	RCO	Total	Expended	Non Reimbursable	Total Billed
Non-Capital					
Non-Capital Costs			86,000.00	25,000.00	111,000.00
Equipment					
Non-Capital Total	86,000.00	111,000.00	86,000.00	25,000.00	111,000.00
Total	86,000.00	111,000.00	86,000.00	25,000.00	111,000.00

Page 4 of 6 02/07/2018

Sponsor Match

		Proposed	Final
Project Funding			
PCSRF Federal Funds (A.10)		\$86,000.00	\$77,400.00
State Funds (A.11)			
Pending Billing - RCO Share Approved			\$0.00
Retainage - RCO amount retained			\$8,600.00
Sponsor Match: Monetary Funding			
Amount of other monetary funding (A.12)		\$0	\$0
Source of other monetary funding (A.12.a)		n/a	n/a
Sponsor Match: Donated Un-paid Labor (volunteers)			
Value of Donated Unpaid Labor (Volunteers) (A.13.a.2)		\$0	\$0
Source of Donated Un-paid labor contributions (A.13.a.4)		n/a	n/a
Number of hours volunteers contributed to the project (A.13.a.1)		Collected at Closure	0
Describe how the value of the volunteers was determined (A.13.a.3)		Collected at Closure	n/a
Sponsor Match: Donated Paid Labor			
Value of Donated Paid Labor (A.13.b.1)		\$0	\$0
Source of Donated Paid Contributions (A.13.b.2)		n/a	n/a
Sponsor Match: Other In-kind Contributions Value of Other In Kind Contributions (A 13 o 1)		\$25,000	\$25,000
Value of Other In-Kind Contributions (A.13.c.1)		Integrated Status and	Integrated Status and
Source of Other In-Kind Contributions (A.13.c.3)		Effectiveness Monitoring Progra	am Effectiveness Monitoring Program
Description of other In-Kind contributions (A.13.c.2)		evaluation.	evaluation.
	Amount Total	\$111,000	\$111,000
	Total Billed		\$111,000
	Difference	е	\$0

Page 5 of 6 02/07/2018

Attachments

PHOTOS (JPG, GIF)

FILES AND PHOTOS

File Attach
Type Date Attachment Type Title Ferson Associations

No attachments match filter criteria

Shared

Certify & Submit

Status	His	torv

Report Status	Date	User	Note
Accepted	02/07/2018	Keith Dublanica	I have accepted the Final Report for PRISM, however, the project sponsor is aware there is a more comprehensive summary expected before project agreement closurekd
Submitted	02/06/2018	Megan Stewart	
Draft	01/25/2018	Megan Stewart	

Page 6 of 6 02/07/2018