

Final Report

Project #13-1001, Snake River - Asotin IMW PSMFC 2013

Submitted by Mark Jarasitis on 12/16/2014

Accepted by Mark Jarasitis on 12/16/2014

CONTACTS

Primary Sponsor: Eco Logical Research Inc.

Project Contact: Stephen Bennett
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Lead Entity: Snake River Salmon Rec Bd LE

Alt Project Contact: Nicolaas Bouwes
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Managing Agency: Rec. and Conserv. Office

RCO Grant Manager: Keith Dublanica
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DESCRIPTION OF THE COMPLETED PROJECT

Project Start Date: 11/30/2012

FundingEnd Date: 09/30/2015

RCO Closure Date:

This project is a continuation of the Asotin Creek multi-year IMW project. The project is an Intensively Monitoring Watershed monitoring project. The project focuses on three tributaries to the Asotin Creek in Southwest Washington. The tributaries are: Charley Creek, North Fork Asotin Creek, and South Fork Asotin Creek. The purpose of the project is to link salmon and steelhead responses to specific mechanisms related to habitat restoration. The fundamental approach is to treat restoration as an experiment and concentrate a large restoration effort in order to increase the likelihood of detecting a population increase. This type of project will increase our understanding of what restoration activities are most effective, demonstrate how changes in habitat influence survival of various life stages of salmon and steelhead, determine what magnitude of restoration is required to cause a significant population response, and ultimately provide information to better evaluate the efficacy of habitat restoration. The restoration effort is focused on summer run steelhead habitat. The funds for this grant award will focus on continuing the IMW effort in the Asotin. This phase will include:

- 1) Continue baseline monitoring of 12 permanent sites for fish abundance and habitat condition,
- 2) Implement restoration treatment plan based on approval of the plan by the Regional Technical Team,
- 3) Monitoring a wide variety of response variables

SITE LOCATION

General Area of Project: Asotin Creek is a tributary of the Snake River, flowing through the town of Asotin in SE Washington. The IMW is located in the upper Asotin watershed, including Charlie Creek, North Fork Asotin

Waterbodies:

Cong District 2012: 05
County: Garfield
Leg District 2012: 09
Salmon Recov Reg 05: Snake River
WAU: Tam Tam
WRIA: Middle Snake

Sponsor Clarifications:

Sponsor verified the above information is correct and complete.

PROJECT NARRATIVE

Project continues with new agreement. This started with Walla Walla CC, then transferred to Eco Logical Research Inc.

AMENDMENTS

#	Type	Applied Date	Description
6	Time Extension	06/24/2014	The project period of 11/30/2012 to 09/30/2014 is extended to allow the contracting party until 09/30/2015 to complete the project.
4	Cost Change	01/28/2014	additional funds added from PSFMC for FY 2014 for the continuation of the IMWs in the Asotin (Snake Region)
3	Time Extension	01/14/2014	The project period of 11/30/2012 to 12/31/2013 is extended to allow the contracting party until 09/30/2014 to complete the project.
2	Project Sponsor Change	11/08/2013	Existing contractor: Walla Walla Community College 500 Tausick Way Walla Walla, WA 99362 509-524-4792 Change to new contractor: Eco Logical Research, Inc. PO Box 706 Providence, UT 84332
1	Time Extension	07/22/2013	The project period of 11/30/2012 to 09/30/2013 is extended to allow the contracting party until 12/31/2013 to complete the project.

OVERALL PROJECT COSTS

Funding Formula:	Requested		Original		Final	
Pacific States Projects:	\$219,648.00	(100%)	\$219,648.00	(100%)	\$422,424.00	(100%)
Total:	\$219,648.00	(100%)	\$219,648.00	(100%)	\$422,424.00	(100%)
Paid To Date:	\$422,424.00				Last Released Billing:	10/06/2014
Remaining RCO Funds:	\$0.00				Pending Billing:	No
Advance Balance:	\$0.00		Match Bank:	\$0.00	Number of Billings:	9
Admin Limit:	\$0.00		Admin Spent:	\$0.00		
A&E Limit:	\$0.00		A&E Spent:	\$0.00		
<hr/>						
Billed Cost Summary:	Original Agreement		Expended		Non-Reimbursable	Total Billed
Non-Capital						
Non-Capital Costs			\$421,061.67			\$421,061.67
Non-Capital Total	\$422,424.00		\$421,061.67			\$421,061.67
Total	\$422,424.00		\$421,061.67			\$421,061.67

Project Cost Metrics:	Original Agreement	Final
PCSRF Federal Funds:	\$422,424.00	\$422,424.00
State Funds:		
Other Federal Funding:		
Pending Billing - RCO Share Approved:		
Retainage - RCO amount retained:		\$0.00
Amount of other monetary funding:	\$0.00	\$986.00
Project identifier for the other monetary funding:	None	none
Source of other monetary funding:	None	none
Value of Donated Unpaid Labor (Volunteers):	\$0.00	\$0.00
Source of Donated Un-paid labor contributions:	N/A	n/a
Number of hours volunteers contributed to the project:		0
Describe how the value of the volunteers was determined:		n/a
Value of Donated Paid Labor:	\$0.00	\$0.00
Source of Donated Paid Contributions:		n/a
Value of Other In-Kind Contributions:	\$0.00	\$0.00
Source of Other In-Kind Contributions:		n/a
Description of other In-Kind contributions:	N/A	n/a

PROJECT METRICS

	Original Agreement	Final
Completion Date		
Projected date of completion:	09/30/2013	09/30/2014
Project Goals		
Goals, purpose, and expected benefits:	<p>The fundamental approach of IMW projects is to treat restoration as an experiment and concentrate a large restoration effort in order to increase the likelihood of detecting a population increase (Fullerton et al., Roni et al. 2010).</p> <p>The following outline lists how the project will implement the experimental and monitoring design in the Asotin Creek sub-basin. The goals and purpose of this study in Asotin Creek and related basin is to:</p> <ol style="list-style-type: none"> 1. Project Management and Coordination <ul style="list-style-type: none"> o Technical and Stakeholder Coordination o Landowner and Community Outreach o Budget and Equipment Management 2. Implementation Asotin IMW Design <ul style="list-style-type: none"> o Experimental Design o Monitoring Design o Restoration Design 3. Data Management, Reporting and Deliverables <ul style="list-style-type: none"> o Data Management o Mapping and Spatial Analysis o Data Analysis and Synthesis <p>The goal of these IMW projects is to link salmon and steelhead population responses to specific mechanisms related to habitat restoration. These initiatives will increase our understanding of what restoration activities are the most effective, demonstrate how changes in habitat influence survival of various life stages of salmon and steelhead, determine what magnitude of restoration is required to cause a significant population response, and ultimately provide information to better evaluate the efficacy of habitat restoration as a means of salmon and steelhead conservation and enhancement (Bayley 2002, PNAMP 200</p>	<p>The fundamental approach of IMW projects is to treat restoration as an experiment and concentrate a large restoration effort in order to increase the likelihood of detecting a population increase (Fullerton et al., Roni et al. 2010).</p> <p>The following outline lists how the project will implement the experimental and monitoring design in the Asotin Creek sub-basin. The goals and purpose of this study in Asotin Creek and related basin is to:</p> <ol style="list-style-type: none"> 1. Project Management and Coordination <ul style="list-style-type: none"> o Technical and Stakeholder Coordination o Landowner and Community Outreach o Budget and Equipment Management 2. Implementation Asotin IMW Design <ul style="list-style-type: none"> o Experimental Design o Monitoring Design o Restoration Design 3. Data Management, Reporting and Deliverables <ul style="list-style-type: none"> o Data Management o Mapping and Spatial Analysis o Data Analysis and Synthesis <p>The goal of these IMW projects is to link salmon and steelhead population responses to specific mechanisms related to habitat restoration. These initiatives will increase our understanding of what restoration activities are the most effective, demonstrate how changes in habitat influence survival of various life stages of salmon and steelhead, determine what magnitude of restoration is required to cause a significant population response, and ultimately provide information to better evaluate the efficacy of habitat restoration as a means of salmon and steelhead conservation and enhancement (Bayley 2002, PNAMP 200</p>

WORKSITE #1: Asotin Creek 2012

Worksite Description: Asotin Creek is a tributary of the Snake River, flowing through the town of Asotin in SE Washington. The IMW is located in the upper Asotin watershed, including Charlie Creek, North Fork Asotin Creek, and South Fork Asotin Creek.

Driving Directions: From Lewiston, drive south on SR 129 to Asotin Creek

Coordinates for Worksite Directions - Latitude: 0.00 **Longitude:** 0.00

Sponsor Clarifications:

Sponsor verified the above information is correct and complete.

WORKSITE #1 COSTS

Worksite Billed Cost:	Estimated	Expended	Non-Reimbursable	Total Billed
Equipment		\$2,348.07		\$2,348.07
Non-Capital Costs	\$219,648.00	\$421,061.67		\$421,061.67
Worksite Total	\$219,648.00	\$423,409.74		\$423,409.74

Worksite Costs by Category:	Original Agreement	Final
Monitoring funding:	\$219,648.00	\$423,410.00

WORKSITE #1 METRICS

	Original Agreement	Final
Targeted salmonid ESU/DPS:	Steelhead-Snake River Basin DPS	Steelhead-Snake River Basin DPS
Targeted species (non-ESU species):	None	None
Number of Reports Prepared:	4	4
Name Of Report:	IMW Project Implementation in the Asotin Watershed (Progress) and FINAL	IMW Project Implementation in the Asotin Watershed (Progress) and FINAL
Project Identified in a Plan or Watershed Assessment:	Snake River Regional Recovery Plan	Snake River Regional Recovery Plan
Number of Cooperating Organizations:	5	5
Name Of Cooperating Organizations:	Snake River Region, Walla Walla Community College, RTT	Snake River Region, Walla Walla Community College, RTT
Complement Habitat Restoration Project:	n/a	n/a
Monitoring		
Acres of watershed area monitored:	1.0	1.0
Record Name Of Strategy/Program :	n/a	n/a
Stream Miles Monitored:	0.00	0.00
Intensively monitored watershed		
Total cost for Intensively monitored watershed:		
# acres (to nearest 0.1 acre) Intensively monitored watershed:	0.0	0.0
# miles (to nearest 0.01 mile) Intensively monitored watershed:	0.00	0.00

SPONSOR CERTIFICATION

- ☒ I certify that this project has been completed in accordance with the project agreement.
- ☒ I certify that, to the best of my knowledge, the information in the Final Report is true and correct.

Submitted by Mark Jarasitis on 12/16/2014