

## Final/Annual Report Idaho BPA FFY2007

Idaho BPA Federal Fiscal Year: 2007  
 Project Title: Idaho Watershed Habitat Restoration Lemhi  
 Project Number: 2007-394-00  
 Contract Title: 2007-399-00 Exp Idaho Watershed Habitat Restoration  
 Lemhi-OSC  
 Contract Number: 35109  
 Province: Mountain Snake  
 Subbasin: Salmon  
 Work order ID: 194168

Contractor: Idaho Office of Species Conservation  
 Project Title: Amonson Watergap Closure & Stockwater System □  
 Technical Contact: Allen Bradbury, Project Planner  
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1. Project end date: 7-31-2008

2. Summarize completed project actions (e.g., project milestones and deliverables):

### Stockwater System

<b>Work Element:</b>	<b>34</b>	<b>Develop Alternative Water Source</b>	
Title:		Purchase stock water equipment for Amonson Property Purchase stock water equipment for Amonson property for future installation later in 2008.	
Description:		Purchase stock water equipment for Amonson property for future installation later in 2008.	
Planned Metrics:		None	
Deliverable Specifications:		<b>Planned</b>	<b>Actual</b>
		Four rubber tire water troughs	(4) Ritchie Fountain King water troughs installed by landowner
		Installation of (4) concrete pads	(4) concrete pads installed by landowner
		Estimated 4,000 feet of PVC pipeline, valves, misc. hardware	Contractor Installed: <ul style="list-style-type: none"> <li>• Intake box</li> <li>• Excavated county road crossing</li> <li>• Installed access hole &amp; plumbing</li> <li>• 1,984' of 2" pipe to a 3' depth</li> <li>• 228' of 2" pipe to a 6' depth</li> <li>• 40' of 1 ½ " pipe to a 6' depth</li> </ul> Landowner Installed: 740 ' of 1 ½ " pipe to a 6' depth  Total of 2,992' of 1 ½ " & 2" pipeline

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Milestone Title	Completion Date	Comments
A. Environmental compliance requirements complete	10/16/2007	Compliance letter received from Mickey Carter, BPA Environmental Protection Specialist
B. Provide final design to BPA	12/19/2007	Design completed by NRCS Conservationist Tim Dodds, sent to BPA
C. Purchase all materials	5/30/2008	
D. Install stockwater system	7/18/2008	Tyler Excavating completed contractor portion of pipeline; NRCS performed as-built inspection.
	8 / 22 /2008	Landowner portion completed
<b>E. Deliverable: Stockwater system equipment</b>	8 / 22 /2008	4 stockwater troughs and associated pipeline installed and functioning.

### Watergap Closure (Fence)

<b>Work Element:</b>	<b>40</b>	<b>Install Fence</b>
Title:	Install jack fence on Amonson Property	
Description:	Install (4) rail jack fence on Amonson property to complement stock water system.	
Planned Metrics:	Start latitude of treated stream reach:	44.76750
	End latitude of treated stream reach:	44.77500
	Start longitude of treated stream reach:	-113.50750
	End longitude of treated stream reach:	-113.52010
	# of fence miles treated in a riparian area:	0.20

Deliverable Specifications:	Planned	Actual
	Jacks, rails, & associated hardware for approx. 1000' of fence set back 35 ft from river bank	Jacks, rails, & associated hardware for approx. 1049' of fence set back 35 ft from river bank to close off watergaps and patch corral fence breached during excavation. Landowner completed additional 49' with own materials.

Milestone Title	Completion Date	Comments
A. Environmental compliance requirements complete	10/16/2007	Compliance letter received from Mickey Carter, BPA Environmental Protection Specialist
B. Provide final design to BPA	9/7/2007	NRCS-Idaho ID-382-D Construction Specifications for Buck & Pole Fence -4-Pole Jack Fence
C. Purchase all fence materials	5/30/2008	
D. Install Fence	7/15/2008	Began installation
<b>E. Deliverable: 4-rail jack fence</b>	8/25/2008	Finished construction to close gaps

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### 3. Summarize any deviations from original project proposal (e.g., deliverables, timelines, project actions, etc.):

The intent of this project was install fence across existing livestock watergaps (5) and mitigate the impacts on the livestock operator with a gravity flow stockwater system (4-troughs).

#### E: 34. Develop Alternative Water Source

Milestone Title	Original Date	Revised Date
A. Environmental compliance requirements complete	11/30/2007	11/30/2007
B. Provide final design to BPA	11/1/2007	11/1/2007
C. Purchase all materials	12/3/2007	5/30/2008
<b>D. Deliverable: Stockwater system equipment</b>	12/30/2008	6/30/2008
E. Install Stockwater system	2/29/2008	7/31/2008

#### E.40. Install Fence

Milestone Title	Original Date	Revised Date
A. Environmental compliance requirements complete	12/1/2007	12/1/2007
B. Provide final design to BPA	11/19/2007	11/19/2007
C. Purchase all fence materials	12/31/2007	5/30/2008
D. Install Fence	2/29/2008	6/30/2008
<b>E. Deliverable: 4-rail jack fence</b>	2/29/2008	7/31/2008

Extensions were asked on this project for 4 reasons:

1. Cold weather was unusually long this year, thus the ground was frozen until late April and excavation and proper bedding of pipeline and structures was not possible.
2. The landowner had serious health issues, so a relative was doing most of the negotiating and footwork. The relative was later granted power of attorney to complete the project.
3. The landowner and the relative were very concerned whether or not they could complete the project in time frames presented and requested an extension until fall. Extensions were granted until July 31, 2008, however, they ultimately decided to try to meet this deadline.
4. There were initially uncertainties as to what state agency would hold the landowner contract. This was not determined until mid February.

Project Deviations:

1. There was a change from rubber tire troughs to Ritchie Fountain King troughs.
2. A cattle guard was added to the plan and the appropriate NEPA issues needed to be addressed in order to proceed. This resulted in an additional \$3,496 in cost to the project.
3. The intake design was modified to incorporate a debris screen which resulted in an overall cost savings of \$950.
4. The contractor needed to install an additional 80 feet of pipe to accommodate trees in original pipeline route. This resulted in an additional \$90 in cost of the project.

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### **4. Identify any ongoing actions relative to this project (e.g., ongoing monitoring and evaluation activities, etc.):**

This project will be included in the Upper Salmon Basin Watershed Project (USBWP) monitoring schedule. Monitoring points were set up before project implementation. Additional photo point monitoring will occur at 5-year intervals for the life of the landowner contract. Monitoring information is collected according to the USBWP monitoring plan and recorded and stored at the USBWP office in Salmon, Idaho.

### **5. If you have not already done so, submit digital before, during and after photos of this project with this Final Report.**

Please see attached photos.

### **6. Identify any publications, videos, press releases, or other materials produced in relation to this project:**

None

### **7. List any additional supporting documentation being submitted with this final report:**

None

### **8. Other comments:**

# AMONSON WATERGAP CLOSURE AND STOCKWATER SYSTEM

BPA Project # 2007-394-00; BPA Contract #35109

**Before**  
**PPT #1**



Looking south and upriver along watergap #2 location (10-9-2007).

**After**  
**PPT #1**



Looking south and upriver along the fenced off watergap #2 location(7-31-2008).

**PPT #2**



Approximate location for Cattleguard at watergap #2 (10-9-2007).

**PPT #2**



Cattleguard location at watergap #2 (07-31-2008).

**PPT #3**



Looking south down existing road at watergap #2 (10-9-2007).

**PPT #3**



Looking south down existing road at watergap #2 (7-31-2008).

AMONSON WATERGAP CLOSURE AND STOCKWATER SYSTEM  
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**Before**  
**PPT #4**



Riparian are in meander at watergap #2 this is expected to be a source for willow recruitment downstream (10-9-2007).

**After**  
**PPT #4**



This area at watergap #2 will be a permanent photomonitoring point (8-13-2008).

**PPT #6**



Looking south toward bridge over Lemhi River (10-9-2007).

**PPT #6**



Looking south toward bridge over Lemhi River at south end of completed watergap 2 fence.

**PPT #7**



Looking north from bridge over Lemhi River (10-9-2007).

**PPT #7**



Looking north from bridge over Lemhi River at south end of completed watergap 2 fence.

AMONSON WATERGAP CLOSURE AND STOCKWATER SYSTEM  
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**Before**  
**PPT #8**



Lemhi River Watergap #1 before closure.

**After**  
**PPT #8**



**PPT #9**



Lemhi River Watergap #3 before closure.

**PPT #9**



**PPT #10**



Lemhi River Watergap #4 before closure.

**PPT #10**



AMONSON WATERGAP CLOSURE AND STOCKWATER SYSTEM  
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**Before**  
**PPT #11**



Lemhi River Watergap #5 before closure.

**After**  
**PPT #11**



**PPT #12**



Trough #1 location during construction.

**PPT #12**



Trough #1 location post-construction.

**PPT #12**



Cattle drinking from trough #1.

**PPT #12**



Fence closure after construction of pipeline.

AMONSON WATERGAP CLOSURE AND STOCKWATER SYSTEM  
BPA Project # 2007-394-00; BPA Contract #35109

**Before  
PPT #13**



Trough #2 location during construction.

**After  
PPT #13**



Trough #2 location post-construction.

**PPT #14**



Trough #3 location during construction.

**PPT #14**



Trough #3 location post-construction.

**PPT #15**



Trough #4 location before concrete is poured.

**PPT #15**



Trough #4 location.

# AMONSON WATERGAP CLOSURE AND STOCKWATER SYSTEM

BPA Project # 2007-394-00; BPA Contract #35109

**Before**  
**PPT #16**



Approximate intake location for Amonson stockwater pipeline (10-9-2007).

**After**  
**PPT #16**



Intake location for Amonson stockwater pipeline (07-18-2008).

**PPT #17**



Pipeline route for Amonson stockwater system before installation (10-09-2007).

**PPT #17**



Pipeline route for Amonson stockwater system after installation (07-18-2008).

**PPT #18**



Approximate location where Amonson stockwater pipeline crosses the Lemhi Backroad, before construction (10-09-2007).

**PPT #18**



Amonson stockwater pipeline crossing the Lemhi Backroad, just after construction (07-18-2008).