The Oregon Watershed Restoration Reporting Form 2005

03/31/13

Read the General Directions. This form is for reporting completed projects (or completed phases of projects), not planned projects. For multi-year projects, complete a separate form for each year. You must include a map of the project. See the *Oregon Aquatic Habitat Restoration and Enhancement Guide* for descriptions of restoration treatments. Call the number below if you have questions.

1) DATE: 11/6/06

2) This report is an UPDATE for a multi-year project ☐Yes ☒No

Restoration Project Participant and Funding Information and Total Cost for Implementation

3) PARTICIPANTS AND FUNDING INFORMATION: Fill in the appropriate boxes. Record information for **you** and the **landowner**. Under '**organization name or grant program**', list project participants other than you and the landowner (e.g. OWEB, watershed councils, local, state, or federal agencies, SWCDs, conservation or sporting groups, job or volunteer programs, other private landowners). For projects funded by **OWEB** or **ODFW R & E** grants, the **grant number** is required. Report grant numbers for other grant programs where known. Record each participant's actual **cash expenditures** and/or **inkind contributions** (estimated value of *donated* materials, labor & equipment) to the project. *Use a second sheet if all participants do not fit on this page.*

your organization name		your name	phone number	cash	inkind
Tualatin River Watershed Council		April Olbrich	503-846-4810	$	$
your e-mail address:		twrc@easystreet.com			
landowner name		**contact person**	**phone number**	**cash**	**inkind**
Bateman Living Trust		Kathy Bateman	503-359-9199	$	$
organization name or grant program	**grant number (if applicable)**	**contact person**	**phone number**	**cash**	**inkind**
Bateman Consulting		Dave Bateman	503-394-2051	$	$2562.00
Bateman Logging Ltd.		Steve Bateman	250-212-0839	$539.37	$4560.00
Paul Johnson		Paul Johnson	503-880-3487	$	$8755.00
ODFW		Bernadette Graham Hudson	971-673-6033	$	$2031.00
OWEB	13-06-009	Bev Goodreau	503-986-0187	$9995.00	$
				$	$
4) TOTAL COST: This should equal the sum of all contributions as well as the sum of restoration activities reported in sections A-G of the form. Do **not** include costs for monitoring on this page.				**total cash**	**total inkind**
				$10,534.37	$17,908.00

Restoration Project Location - Attach a project location map. *Highlight* treatment area(s) and *label* activities.

5) STREAM NAME: Bateman Creek
TRIBUTARY OF: Gales Creek
Subbasin Name: Tualatin River
* For subbasin name, enter 4th field HUC name (preferred) or main river body name

6) TOWNSHIP 2 North RANGE 5 West SEC 26 & 26 D COUNTY: Washington

7) DOMINANT LANDUSE TYPE: ☒ forest ☐ range/pasture ☐ cropland ☐ wetland ☐ urban industrial/commercial ☐ urban residential ☐ rural residential ☐ other (specify) _____

Restoration Project Information

8) PROJECT NAME: Bateman Creek Culvert Replacement

9) PROJECT DATES: Start (mo)4 (yr)2006 Completion (mo)10 (yr)2006 (do not report planned projects)

10) SPECIES: Does this project intend to benefit specific fish or wildlife species? ☒Yes ☐No
If YES: *Which* ones? native cutthroat and winter steelhead trout

11) PROJECT SITE SELECTION: How was restoration project selected/prioritized? (check one box & answer associated questions)
☒ Watershed Assessment/Action Plan
Name Gales Creek Watershed Assessment Conducted by Tualatin River Watershed Council Year 1998

☐ Other (describe *how* restoration need was identified, and *why* project *location* and *activity* were chosen? _____

12) Will the EFFECTIVENESS of the restoration project be MONITORED? ☒Yes ☐No If YES, fill out Section H

Send to: Bobbi Riggers, OWEB, 775 Summer St NE, Ste 360, Salem, OR 97301-1290 ph 503-986-0059 fax 503-986-0199 e-mail: Bobbi.Riggers@state.or.us

-Attach a Project Map-

Current forms are available for download at: http://www.oregon.gov/OWEB/MONITOR/OWRI.shtml or you may contact Bobbi Riggers for a copy.

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Section A: INSTREAM Activity

Instructions: Report in-channel activities designed to improve aquatic habitat conditions. ***For Fish Passage Improvements, go to Section F***. Answer questions about permits, goals, cost, and treatment miles. In the table, check each appropriate project activity box and fill in all details requested for that activity. Leave blank any questions that do not apply to your project. If project activity is not listed, describe it under "Other". *If this form is being used to comply with conditions of the Portland District Army Corps of Engineers (Corps) Regional General Permit (RGP) No. 2000-001 for placement of large wood or boulders, please submit cross section and plan views or refer to the RGP for additional reporting requirements. Photos of the completed work are encouraged for projects under the RGP. Other types of authorizations or permits may be required from DSL or the Corps for other types of instream activity not covered by the RGP.* Mark and label clearly on a **map** the location of the project activity.

DSL Permit Number: _____ *or* ODF Notification Number: _____

*Is this project covered under Corps RGP no. 2000-001 for placement of large wood log or boulders? ☐Yes ☐No

1. PROJECT GOALS: *to improve/increase stream*

☐structure & complexity	☐spawning habitat	☐over-winter habitat	☐stream flow
☐interaction w/ floodplain	☐rearing habitat	☐summer habitat	☐fish passage
☐gravel recruitment	☐increase pools	☐streambank stabilization	☐other _____

2. COST: Cash $ _____ Inkind $ _____ 3. TOTAL MILES of stream treated: _____ miles

ACTIVITY	DESCRIPTION of Treatment
☐ **Large Wood Placement** *(Logs not anchored with cable, boulders, rebar, etc. -allowed to set up naturally or wedged against streambank or riparian trees)* ☐log placement associated with forestry operation (ODF21)	***key pieces** = logs at least two times bankfull stream width (1.5 times if rootwad attached) and meet diameter, stream size, and slope requirements outlined in the ODF/ODFW Large Wood Placement Guide)* _____ total # of structures placed ☐ smaller materials were added to key pieces in structures _____ total # of key pieces placed ☐rootwads attached to some key pieces _____ avg # of key pieces per structure source of logs _____ **dimensions of key pieces** *(list range if necessary)* log length _____ ft log diameter _____ in *How many pieces of wood placed were at least 33 feet long AND 24" in diameter? _____ **stream characteristics where logs were placed** *(list range if necessary)* bankfull width _____ ft gradient _____ % bankfull depth _____ft method of placement: _____ other details: _____
☐ **Boulder Placement** (not anchored)	_____ # of boulders placed av size _____cu yds source of boulders _____ bankfull width _____ft gradient _____% bankfull depth _____ft method of boulder placement _____
☐ **Anchored Structures**	_____ # of anchored structures **structure materials**: ☐logs ☐rootwads ☐boulders ☐other _____ **anchored with**: ☐rock/boulders ☐cable ☐rebar ☐ other _____
☐ **Engineered Structures**	☐ **full-spanning weirs** _____# materials used _____ ☐ **deflectors** _____# materials used _____ ☐ **'V' structures** _____# materials used _____
☐ **Off-Channel Habitat**	☐ **side channels:** **a) created/excavated**: _____ # and length _____ ft **b) reconnected** to stream: _____ # and length _____ ft ☐ **alcoves created**: **a)** _____ # with or **b)** _____ # without tributary/spring input ☐ **off-channel ponds created**: **a)** _____ # with or **b)** _____ # without tributary/spring input
☐ **Instream Water Right Transfers/Leases**	*Priority date* | *Rate (cfs)* | *Type of Acquisition* | *Stream Reach/Point* | *Term (years)*
☐ **Other (specify)** _____	Describe and quantify activity:

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Section B: RIPARIAN Activity

Instructions: Check (x) project goals and fill in project costs. Answer questions about cost and treatment miles. In the table, check each appropriate project activity box and fill in all details requested for that activity. Leave blank any questions that do not apply to your project. If project activity is not listed, describe it under "Other". Mark and label clearly on a **map** the location of each treament area.

1. PROJECT GOALS:

☐future LWD recruitment to stream ☐streambank stabilization/protection ☐run-off contaminant input
☐future stream shading ☐decrease erosion/stream sedimentation ☐livestock access to stream
☐other goals _____

2. COST: Cash $ _____ Inkind $ _____ 3. Total linear stream MILES treated: _____ miles

ACTIVITY	DESCRIPTION of Treatment **setback** = fence distance from high water mark	
☐ **Riparian Planting** ☐**conifer** ☐**hardwood** (for hardwood conversion, go to Activity ODF 8 below)	length planted _____ linear stream miles total riparian acres planted _____ acres stream sides treated ☐one ☐two	
☐ **Riparian Fencing** [for other fencing (e.g. pasture, cross-fencing) go to Section D]	length fenced _____ linear stream miles setback _____ ft *(list range if necessary)* total riparian acres protected _____ acres stream sides treated ☐one ☐two	**stream characteristics where fence was constructed** *(list range if necessary)* bankfull width _____ ft bank height _____ ft
☐ **Other (specify)** _____	Describe and quantify activity (*e.g. linear stream miles and/or acres treated*):	

ODF Harvest Measures

Use a separate form for each harvest unit. Use Treatment Area 1, 2, 3 for separate stream treatment areas within each harvest unit. For each Treatment Area, check (X) the measure applied and answer all questions in that row. If there are more than 3 Treatment Areas, attach another Section B and label Treatment Area 4, Area 5, etc.
***ODF62** = no harvest in RMA; **ODF19** = max 25% harvest of excess BA; **ODF20** = retain snags/wood along small N streams; **ODF22** = re-allocate in-unit leave trees to RMA: a)25% of leave trees, b) 100% of leave trees, c)75% conifer component*

Treatment Area 1 **ODF ☐62 ☐19 ☐20** **☐22 ☐a ☐b ☐c**	stream size ☐sm ☐med ☐large stream type ☐N ☐F stream sides treated ☐one ☐two	trees retained along _____ miles of stream average width of leave tree area per side _____ ft leave tree area _____ acres
Treatment Area 2 **ODF ☐62 ☐19 ☐20** **☐22 ☐a ☐b ☐c**	stream size ☐sm ☐med ☐large stream type ☐N ☐F stream sides treated ☐one ☐two	trees retained along _____ miles of stream average width of leave tree area per side _____ ft leave tree area _____ acres
Treatment Area 3 **ODF ☐62 ☐19 ☐20** **☐22 ☐a ☐b ☐c**	stream size ☐sm ☐med ☐large stream type ☐N ☐F stream sides treated ☐one ☐two	trees retained along _____ miles of stream average width of leave tree area per side _____ ft leave tree area _____ acres
☐ **ODF 8: Riparian Conifer Restoration** (formerly hardwood conversion)	stream size☐sm ☐med ☐large stream type ☐N ☐F	*(in conversion blocks only)* conifer restoration along _____ miles of stream acres of conifer restoration _____ acres

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Section C: WETLAND or ESTUARY Activity

Instructions: Answer questions about permits, goals, project site, land/wetland type before treatment, and cost. In the table, fill in the row(s) that best describes your project. If project activity is not listed, describe it under "Other activity". Mark and label clearly on a **map** the location of each treatment area.

DSL Permit Number: _____ *or* ODF Notification Number: _____

1. PROJECT GOALS: *to increase*

- ☐ storage capacity of wetland
- ☐ net area of wetland
- ☐ vegetation to filter runoff
- ☐ vegetation to provide shade
- ☐ vegetation for flood control
- ☐ vegetation for food, cover or nesting
- ☐ water to stream during low flows
- ☐ connection to adjacent natural area
- ☐ the number of wetland types at site (i.e., meadow, forest, open water)
- ☐ fish habitat: *specify* rearing, winter, summer, etc. _____
- ☐ other _____

2. Is project site protected by a CONSERVATION EASEMENT? ☐ Yes ☐ No

3. Project site is CONNECTED TO:
☐ stream or river ☐ lake or reservoir ☐ other fresh waters ☐ ocean or estuary ☐ no other water body

4. Land/wetland type in project area BEFORE TREATMENT:
☐ non-wetland ☐ grass/herb meadow wetland ☐ open water wetland (>6ft. deep)
☐ agricultural wetland ☐ shrub or forest wetland

5. COST: Cash $ _____ Inkind $ _____

ACTIVITY (conditions after treatment)	DESCRIPTION of Treatment
_____ acres of filled or drained wetland returned to: ☐ grass/herb meadow wetland ☐ shrub or forest wetland ☐ open water wetland (>6ft. deep)	
_____ acres of non-wetland created into: ☐ grass/herb meadow wetland ☐ shrub or forest wetland ☐ open water wetland (>6ft. deep)	
_____ acres of existing wetland improved: ☐ grass/herb meadow wetland ☐ shrub or forest wetland ☐ open water wetland (>6ft. deep)	
Other activity - Describe and quantify activity (*e.g. acres treated):*	

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Section D: UPLAND, GRAZING, and IRRIGATION MANAGEMENT

Instructions: Report upland, grazing, and irrigation projects designed to reduce erosion, improve water quality, increase stream flow, promote native riparian vegetation growth, and other watershed benefits. Check (x) project goals and fill in project costs. In the table, check (x) the management category on the left. Fill in the type(s) and units of conservation practices applied. If project activity is not listed, describe it under "Other". Mark and label clearly on a **map** the location of the project activity.

1. PROJECT GOALS:

to increase or improve	*to decrease*
☐ upslope soil stability	☐ erosion/stream sedimentation
☐ streambank stability	☐ run-off contaminant input to stream
☐ LWD recruitment to stream	☐ stream temperature
☐ future shading to stream	☐ livestock access to stream
☐ native plant species composition	
☐ upland water storage capacity	☐ other _____
☐ stream flow by _____ cu ft/sec	

2. COST: Cash $_____ Inkind $ _____ 3. TOTAL acres treated: _____ acres

MANAGEMENT CATEGORY	TYPE of System or Practice Applied	UNITS System or Practice Applied to	
☐ **Grazing Management: off-channel livestock watering**	type 1:	# of water developments	
	type 2:	# of water developments	
	type 3:	# of water developments	
	type 4:	# of water developments	
☐ **Other grazing management practices** *report riparian fencing to restrict livestock stream access in Section B*	type 1:	acres	
	type 2:	acres	
	type 3:	acres	
	type 4:	acres	
☐ **Irrigation systems for improved water conservation**	type 1:	acres	
	type 2:	acres	
	type 3:	acres	
☐ **Erosion control systems/practices**	type 1:	acres	
	type 2:	acres	
	type 3:	acres	
☐ **Upland Vegetation Management** *(e.g. juniper control, etc.)*	type 1:	acres	
	type 2:	acres	
	type 3:	acres	
☐ **Conservation buffers**	type 1:	miles	acres
	type 2:	miles	acres
	type 3:	miles	acres
☐ **Other (specify)** _____	Describe and quantify activity (*e.g. acres treated*):		

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Section E: ROAD Activity

Instructions: Report projects designed to decrease risk of road failure and reduce chronic sediment input from **existing roads (not new roads).** ***For Fish Passage Improvements, go to Section F***. **Do not report** any repairs required by the Oregon Department of Forestry, new road construction, or routine road maintenance including: surface grading, berm removal, spot rocking, durable rocking for wet weather road use, essential ditch cleaning, culvert cleaning, or water bars. Check (x) project goals and fill in project costs. Under 'Improvement Actions', check each appropriate activity box and fill in values that apply. **Do not double count activities**. If project activity is not listed, describe it under "Other activities". Mark clearly on a **map** the length of road or location on the road where improvement work was completed**.** A map is not necessary for road inventories. **1 Station = 100 ft**

ODF Notification Number: _____

1. PROJECT GOALS:

to increase or improve	*to decrease*
☐ upslope stability	☐ erosion/stream sedimentation
☐ road/upslope drainage	☐ run-off contaminant input to stream
☐ flood/slide repair	☐ road access ☐ road density
☐ other _____	☐ washout/diversion potential at stream crossings

2. COST: Cash $_____ In-kind $_____

IMPROVEMENT ACTIONS: *(only include unreported road work accomplished for the year)*

1. ☐ Road Inventory =_____ miles of road surveyed using ODF Road Hazard Inventory Protocol or equivalent
For projects with one landowner, summarize road inventories by 4th or 5th field watersheds (e.g., Siletz, McKenzie, N Fork John Day).

2. ☐ Peak Flow Passage Improvements at Stream Crossings (*for Fish Passage improvements, go to Section F*)

a) _____ # of log fills/culverts removed, not replaced (if reported in fish passage section, do not repeat here)
b) _____ # of structures replaced to meet 50+ year flow requirements (if reported in fish passage section, do not repeat)
c) _____ # of structures modified by improving inlet condition (if reported in fish passage section, do not repeat here)

TOTAL # of Stream Crossings Improved for Peak Flow Passage _____ (Do Not Double Count)

3. ☐ Surface Drainage Improvements ***(does not include water bars)***

a) _____ # of permanent cross-drains added above stream crossings
b) _____ # of culverts added at locations other than above stream crossings
c) _____ # of existing culverts with outlet erosion protection added

TOTAL # of Non-Stream Crossings Improved for Surface Drainage _____ (Do Not Double Count)

d) _____ # of stations of durable rocking (do not report durable rocking required by Forest Practices Act Wet Weather Road Use Rules)
e) _____ # of stations of rocking down-cutting ditch

TOTAL # of Stations Improved by Rocking for Surface Drainage _____ (Do Not Double Count)

4. ☐ Sidecast/Landslides

a) _____ # of stations pulled back and stabilized
b) _____ # of large landslides stabilized

5. ☐ Road Relocation or Vacating

a) _____ # of stations obliterated, decommissioned, or vacated as per OAR 629-625-650
b) _____ # of stations effectively closed to public use **(do not duplicate 5.a)**
c) _____ # of stations relocated outside RMA or stream banks
d) _____ # of stations relocated to reduce washout potential **(do not duplicate 4.b or 5.c)**

6. ☐ Grass Seeding

a) _____ # of miles of grass seeding and mulching

7. ☐ Other Activities: _____

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Section F: FISH PASSAGE Improvements

Instructions: This Section should be used for all Fish Passage Improvement projects that address a migration barrier problem. ***Only report projects that provide both juvenile and adult passage***. Answer questions about permits, target fish species, miles of habitat made accessible, and cost. Under 'Project Activities', check each appropriate activity box and fill in values that apply. If project activity is not listed, describe it under "Other activities". Mark and label clearly on a **map** the location of the fish passage project.

DSL Permit Number: _____ *or* ODF Notification Number: 2006-531-20877

FISH PASSAGE INFORMATION:

1. Target Fish Species: ☐**coho** ☒**steelhead** ☐**chinook** ☒**cutthroat** ☐**other (specify)**_____

2. Have the target fish species historically inhabited the area upstream of the barrier(s)? ☒Yes ☐No

3. Fish habitat extended due to this fish passage project **(If you do not have this information, consult local ODFW office)**
   _____ miles of habitat opened that were previously *inaccessible* for both adults and juveniles
   0.5 miles of habitat opened that were previously *inaccessible* for juveniles, *accessible* for adults
   _____ miles of habitat that were previously *accessible* for both juveniles and adults- access was improved

4. COST: Cash $ 10,534.37 In-kind $ 17,908

PROJECT ACTIVITIES:

1. ☐ Road/Stream Crossings Improved for Juvenile and Adult Fish Passage

a) _____ # of culverts/structures removed and not replaced
b) Two # of culverts/structures replaced with bridge
c) _____ # of culverts/structures replaced with open bottom arch culverts
d) _____ # of culverts/structures replaced with culverts placed embedded or flat
e) _____ # of culverts/structures replaced with weir/baffle culverts
f) _____ # of culverts/structures retrofitted [e.g., adding roughness (weirs, baffles, etc.) into existing culverts]
g) _____ # of culverts with rock or log weirs installed below outlet

TOTAL # of Road/Stream Crossings Improved for Fish Passage One **(Do Not Double Count!)**

2. ☐ Other Fish Passage Improvements (fish ladders, tidegate replacements, push-up dams retired, etc.)

a) _____ # of culverts/structures installed to allow side channel access
b) _____ # of fish ladders installed
c) _____ # of fish ladders improved
d) _____ # of push-up dams permanently removed; replaced with _____
e) _____ # of fish screens installed on irrigation diversions
f) _____ # of _____ (*type of diversion*) modified with _____ (*type of modification*).

3. Additional Details: Two adjacent 36" culverts had created a partial fish passage barrier. These culverts were partially crushed and rusting. The two culverts were removed and replaced with a full spanning bridge. The new bridge will provide unimpeded fish passage for both adult and juvenile salmonids, as well as natural debris flow through the road crossing. ODOT recently completed a fish passage improvement project on Bateman Creek, just upstream of its confluence with Gales Creek. These two barrier removals will complement each other and allow fish access to upstream habitat.

4. Other Activities: _____

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Section G: Urban Impact Reduction Activity

Instructions: Report projects designed to reduce erosion, improve water quality, and enhance aquatic habitat**.** ***For Riparian restoration activities, go to Section B. For Fish Passage Improvements, go to Section F***. Under "Project Activities", check (x) the activity on the left and enter the relevant information that quantifies the activities and the significance (% urban area or % watershed affected). If project activity is not listed, describe the project on the blank spaces provided or under "Other Projects". Costs for construction where required by code should not be included.

TOTAL COST for Urban Activities Listed Below: Cash $ _____ Inkind $ _____

PROJECT ACTIVITIES:

1. Water Quality Projects:

Activity	Number or Area (please label units)	% Urban Area Affected	Cost
☐**Bioswales**	#		Cash $ _____ Inkind $ _____
☐**Wet Detention Facility**	#		Cash $ _____ Inkind $ _____
☐**Storm & Sanitary Sewer Separation**	linear feet		Cash $ _____ Inkind $ _____
☐**Street sweeping**	miles		Cash $ _____ Inkind $ _____
☐**Catch Basin Cleaning**	#		Cash $ _____ Inkind $ _____
☐**Pesticide Use Reduction**	acres		Cash $ _____ Inkind $ _____
☐**Other** _____			Cash $ _____ Inkind $ _____
☐**Other** _____			Cash $ _____ Inkind $ _____
☐**Other** _____			Cash $ _____ Inkind $ _____

2. Water Quanity Projects:

Activity	Number or Area (please label units)	% Watershed Area Affected	Cost
☐**Off Channel Flood Storage**			Cash $ _____ Inkind $ _____
☐**Detention Facility**			Cash $ _____ Inkind $ _____
☐**Other** _____			Cash $ _____ Inkind $ _____
☐**Other** _____			Cash $ _____ Inkind $ _____

3. Other Projects:

☐**Other** _____			Cash $ _____ Inkind $ _____

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☐**Other** _____			Cash $ _____ Inkind $ _____
☐**Other** _____			Cash $ _____ Inkind $ _____

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Section H: Project Monitoring Activity

Use this section to describe the type of monitoring used to evaluate the progress and effectiveness of your project. Fill out all questions in the top section. Please omit monitoring costs from cover sheet totals and instead include them under this section. In the table, check (X) the boxes that apply, identify the monitoring methods or protocols used, and the frequency and duration of monitoring before and after the project was implemented. *(example 1: frequency = once per year, duration = 20 years; example 2: frequency = 2 times per month, duration = 3 years; example 3: frequency = once every five years, duration = 25 years).*

Monitoring Objectives: Implementation monitoring, oversight of project impelmentation; fish passage through visual inspection and periodic fish surveys.

Monitoring Implemented by Which Organization(s): ODFW

Best Contact Person for Monitoring Information (with phone number): Bernadette Graham-Hudson, 971-673-6033

Monitoring Funded by Which Organization(s): ODFW

Monitoring Cost per Year: **$500** Total Budgeted Monitoring Cost: **$ 1500** Amount Spent to Date: **$ 0**

Monitoring Type	Monitoring Method/Protocol Used	Pre-Treatment Frequency	Pre-Treatment Duration	Post-Treatment Frequency	Post-Treatment Duration
Physical Measures					
☐ instream habitat					
☐ -channel morphology					
☐ -substrate					
☐ -woody debris					
☐ -other					
☒ riparian vegetation	survival of planted vegetation			2x per year	3 years
☐ upland vegetation					
☐ stream flow					
Biological Measures					
☒ adult fish sampling	visual surveys; electrofishing			1x per year	3 yrs
☒ juvenile fish sampling	electrofishing			1x per year	3 yrs
☐ macroinvertebrates					
☐ other					
Water Quality Measures					
☐ temperature					
☐ suspended sediment					
☐ dissolved oxygen					
☐ chemistry					
☐ fecal coliform					
☐ other					
Other Measures					
☒ fish passage effectiveness	visual inspection			1x per year	3 years
☐ slope stability					
☒ project inspection	visual inspection			1x	1 year
☐					

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Briefly describe results to date**:**The project was completed as designed, and both fish passage and debris flow are currently unimpeded through the project reach. The structure and stream channel have performed as expected through the first high water event. Grass seed that was spread for erosion control has been effective.

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