



## ANM28 - Montana Supplement

### Aquatic Organism Passage Barrier Removal - (Animal Enhancement Activity)

#### Montana Clarification

There are situations where aquatic organism passage barrier removal could result in hybridization between invasive aquatic species and desirable native species. Hybridization between non-native rainbow trout and native cutthroat trout is an example. Obtain input from a biologist prior to ANM28 implementation to assure that such unwanted hybridization will not occur.

#### Montana Specifications

Criteria:

Barrier removal (most commonly, these are culverts in Montana) can be accomplished in a number of different ways, however all methods used must meet one of the following two criteria for successful implementation of this enhancement:

1. All non self regulating tide and/or flood gates (e.g. iron or steel “flap” style gates, wood “flashboards”)
2. Complete removal of the structure or feature and return of the affected cross section or reach to match the prevailing stream geometry and geomorphology to the fullest extent possible.

#### Incompatible Enhancements

This enhancement may not be contracted with the following enhancements:

For crop: SOE02

For pasture: none

For range: none

For forest: none

#### Eligible Land

Crop, pasture, range and rangeland

#### Applicable Amount

Number of barriers located within water courses

#### Example (Actual)

The participant has within his/her operating unit, two barrier culverts. The participant is willing to replace one of the culverts. The applicable amount is 2 and the applied amount is 1. The Toolkit plan would appear as follows:

	Year 1	Year 2	Year 3	Year 4	Year 5
ANM28	0	1	0		

## **Documentation Requirements**

Note: Documentation that a biologist has reviewed the proposed activity and determined that there is no risk of genetic contamination of native aquatic populations.

The following information will be collected and associated with each parcel considered for this enhancement:

1. Map showing the affected reach, location, and type of each barrier identified.
2. Photos of each barrier taken from the following vantage points:
  - a. Downstream of the barrier looking upstream
  - b. Upstream of the barrier looking downstream
  - c. Within the barrier (if possible)
3. Data on barrier (where applicable, singularly or in combination)
  - a. Width, span, or diameter
  - b. Length
  - c. Slope
  - d. Depth
  - e. Height
  - f. Perch height (for culverts)
4. Post-removal or modification photos taken from the following vantage points:
  - a. Downstream of the barrier looking upstream
  - b. Upstream of the barrier looking downstream
  - c. Within the barrier (if possible)
5. Brief written description of the actions implemented to remove or modify barriers to improve passage, including project milestones and timelines, any species considered or targeted for passage, alternatives contemplated but not used, and any monitoring or evaluation plans.

I acknowledge that I have read and understand all that is required for the implementation of this CSP Enhancement Activity.

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Contract participant

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Date