



## Operation & Maintenance Plan Streambank and Shoreline Protection (Code 580)

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### Expected Lifespan

The minimum expected lifespan of this practice is at least 20 years.

A properly operated and maintained **Streambank and Shoreline Protection** system is an asset to your property. The purpose of this practice is to stabilize an eroding streambank and/or improve stream habitat for fish and wildlife. The life of the practice can be assured and usually extended by developing and carrying out a good operation and maintenance program.

This practice will require you to perform periodic operation and maintenance to maintain satisfactory performance. The following are some requirements to help you develop a good operation and maintenance program.

### Safety

1. When necessary to exclude livestock and human access, provide fencing, gates and other barriers. Inspect fence and gates at least once a year. Repair and/or replace damaged fences and gates as soon as possible. Keep gates closed at all times.

### Maintenance

1. Check the riprap, plantings and/or tree revetments at least once each year and immediately after major storm events. Replace dislodged rock as needed. Repair or replace any damaged or missing revetments. Do repair work during periods of low stream flow.
2. Remove all logs, trees, driftwood and other debris, not part of the design, when they are causing or likely to cause detrimental bank erosion or structural failure of the project. Take into consideration the benefits to fish and other aquatic species habitat, fill and removal / stream alteration permit regulations, and water flow level/time of the year before performing any work.
3. Inspect for sloughing, erosion or damage to vegetative cover. Perform routine mowing and maintain a vigorous cover of desirable vegetation. Periodically remove undesirable trees, brush, and invasive species. Repair damage and seed or replant bare or failed vegetated areas as soon as possible.
4. Where designed and installed as part of the original installation, or where possible, maintain a 25 feet wide herbaceous or woody buffer strip from the top of the bank.
5. Immediately repair any vandalism, vehicle or livestock damage.

### Operation, Maintenance and Inspection Costs

1. It is estimated that the annual time to routinely inspect and make minor repairs to your Streambank and Shoreline Protection system will be:
  - a. Inspection = 2 hour/year/500 feet
  - b. Minor Repairs = 2 hours/year/500 feet
  - c. Replanting & Reseeding = 2 hours/year/500 feet
  - d. Riprap Replacement = 4 hours/year/500 feet
  - e. Major repairs to damage caused by major storm event will require extra time and materials.
2. Most maintenance, such as reseeding, mulching, minor riprap replacement, etc. can be accomplished using common farm machinery. Occasional damage, caused by major storm events may require heavy construction equipment to make repairs.

## **Specific Site Requirements**