

OPERATION AND MAINTENANCE PLAN
EMERGENCY WATERSHED PROTECTION

SITE and DESCRIPTION OF EWP MEASURE INSTALLED: _____

I. Applicability

An operation and maintenance (O&M) plan is only needed for projects that include typical structural and/or vegetative measures (stabilization measures utilizing rock riprap, grouted rock riprap, gabion baskets, bio-engineering measures, stream barbs, etc). If the project consist **only** of debris removal an O&M plan is not required.

Check here is this project does **not** require and O&M plan (i.e. debris removal only)

II. Operation

The Sponsor(s) _____ is responsible for the operation and maintenance (O&M) for this project. Operation includes the administration, management, and performing of non-maintenance actions needed to keep a completed practice safe and functioning.

III. Maintenance

The Sponsor(s) shall be responsible for promptly performing or have performed maintenance determined by either the Sponsor(s) or the NRCS. Maintenance includes performance of work and providing the materials to prevent the deterioration of practices and/or repair damage to, or replacement of, the practice if one or more of its components fail. This includes both routine and recurring needs in a timely manner. Damages to completed practices caused by normal deterioration, drought, flooding caused by excess rainfall, or vandalism are considered to be maintenance. Maintenance may include replacing displaced rocks, removing gravel and debris, filling undercut areas, repair of eroded banks, and vegetative treatment.

It is anticipated that the following items of maintenance, repair, or replacement may be needed. (Check all that apply).

1. Vegetation
 - a. Reshape as necessary and either reseed or resod, and fertilize areas of poor stand, including those areas damaged by erosion, freezing, or drought.
 - b. Fertilize vegetation as required to maintain a vigorous stand.
 - c. Mow grass at regular intervals to maintain optimum cover.
 - d. Spray or cut undesirable brush. Maintain desired brush. Cuttings for propagation on other sites are allowed with NRCS prior approval.
2. Structures
 - a. Remove and properly dispose of logs, trees and debris impacting flows.

- b. Maintain diversions. Reshape areas to eliminate depressions and rills caused by concentrated runoff.
 - c. Repair structures; streambanks; reshape and repair rock basins and rock flumes as needed, to keep functional. Add rock as needed.
3. Funds to finance any applicable O&M cost will be provided by the Sponsor.

IV. Inspection

As part of the Operation and Maintenance duties, the Sponsor is responsible for making the necessary inspections. The Sponsor shall not make any changes to, or within proximity of, the practice that will alter the original designed function without prior approval of NRCS. The Sponsor shall notify NRCS of any work to be done in a timely manner.

Inspection shall include but is not limited to:

- 1. Condition of the rock:
 - a. check all rocks for accelerated weathering and displacement including chinking
- 2. Condition of the channel bed and banks:
 - a. streambed scour at the toe rock or erosion of adjacent banks
 - b. failure of adjacent structures
 - c. gravel or debris build-up in the vicinity of the practice
 - d. soil settlement or ground cracks in the vicinity of the practice
 - e. presence of burrows due to animals
 - f. damage due to vandalism, vehicles, livestock, etc.
- 3. Condition of the vegetation:
 - a. health/vigor of vegetation used as/in conjunction with the practice
 - b. bio-engineering/planting techniques during the establishment period

A written report will be made of each inspection. If it is determined during the inspection, that the items above could affect the functioning of the site, corrective action and repairs will be made immediately in order to reduce the possibility of further damage and/or failure. A follow-up report will be provided when all corrective action has been accomplished. The Sponsor shall keep copies of all inspection reports and corrective action plans (as applicable) and will make these items available to NRCS upon request.

V. Land Rights

The Sponsors must have or obtain land rights adequate for carrying out their O&M responsibilities.

Sponsor Representative

Date

Title