**Appendix B**

**Stream Restoration Supplement**

**NFWF Approach for Stream Restoration Proposals**

NFWF’s objective in funding stream restoration projects is to promote high quality projects that meet qualifying conditions established by the Chesapeake Bay Program partnership for creditable nutrient and sediment load reductions under the Chesapeake Bay TMDL, enhance stream function, and optimize co-benefits for ecosystems and affected communities. NFWF does not advocate for or disallow any commonly used stream restoration methodology over others.

**Instructions:** Save this document on your computer and complete the narrative in the format provided. The final narrative may not exceed five (5) pages, excluding tables and figures. Please retain the outline format below and adhere to section-by-section word limits, but you may delete the instructions associated with each element. Once complete, upload this document into the on-line application as instructed.

1. **Applicable Protocols:** Select **all** of the relevant stream restoration protocols used to guide project design and determine creditable pollutant load reductions for the proposed projects. In selecting each relevant protocol, ensure that the project meets the qualifying conditions for each protocol and stream restoration projects more generally.

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| **Protocol** | **Protocol** | **Activity** |
|  | 1. Credit for Prevented Sediment During Storm Flow | Annual mass nutrient and sediment reduction credit for qualifying stream restoration practices that prevent channel or bank erosion that would otherwise be delivered downstream from an actively enlarging or incising stream |
|  | 1. Credit for In-stream Nitrogen Processing During Base Flow | Annual mass nitrogen reduction credit for qualifying projects that include design features to promote denitrification during base flow within the stream channel through enhanced surface water/groundwater exchange (hyporheic zone) within the riparian corridor |
|  | (3) Credit for Reconnection to the Floodplain | Sediment and nutrient reduction credit for qualifying projects that reconnect stream channels to their floodplain over a wide range of storm events, from the small, high frequency events to the larger, less frequent events |

1. **Outcomes:** Briefly describe field methods and data used to support pollutant removal calculations. Identify additional data collection and fieldwork necessary to finalize design and obtain necessary permit approvals.
2. **Goals and Objectives:** Clearly state the goals and objectives for the project, especially in context of existing watershed and reach conditions and realistic determination of restoration potential. Examples of such objectives include restoring baseflow conditions, improving populations of target species, reducing streambank erosion, reducing sediment delivery and/or nutrients to downstream waters, restoring/enhancing the riparian buffer (in conjunction with stream restoration), creating floodplain (re)connection, among others.
3. **Existing Watershed Conditions and Impairments:** Identify the drainage area to the stream reach and identify generally watershed conditions, notable impairments, and known or suspected factors causing the impairment. Describe whether upland or drainage area BMPs have been considered or are being implemented as part of the project approach.
4. **Functional Improvement:** Considering [hierarchical frameworks for understanding stream function](https://stream-mechanics.com/stream-functions-pyramid-framework/) and assessments of existing stream function, state how stream function(s) will improve compared to the existing condition.
5. **Restoration Design Approach and Team:** Identify the specific design approach (Natural Channel Design, Legacy Sediment/Valley Restoration, Regenerative Conveyance, etc.) and explain why the particular approach is being utilized. Identify the principals leading the proposed stream restoration design, including name, affiliation, and contact information.
6. **Post-Construction Maintenance:** Describe the post-construction maintenance plan, responsible parties, and resources (e.g., financial, personnel) for maintenance, or the intended approach for developing this plan. As relevant, outline the known or anticipated metrics that will be used for post-construction monitoring.
7. **Restoration Plans and Designs:** As an “Additional Upload”, provide labeled plans with scaled base maps (ideally showing topographic data) showing: (1) drainage area to the project and delineating contributing land uses, (2) conceptual channel alignment and typical cross-sections with materials and construction methods, and (3) conceptual planting plans and identification of how existing riparian areas will be impacted. You may also upload additional photo evidence of site conditions relevant to the proposal and letters of support from project partners and project landowners.