

Attachment 2. Nationwide Permit #27 certification and conditions

1. Activities meeting the following criteria are certified on all non-class 1 streams:
 - a. Length of stream channel treated (defined as distance from most upstream treatment to most downstream treatment) is less than 500 feet, AND
 - b. Treatments are limited to the following:
 - i. Excavation of existing pools to mitigate pool aggradation, provided excavated material will not be redistributed within the channel unless associated with treatments ii through xi.
 - ii. Grade control sills, provided the surface elevation is at the same grade as the channel bed
 - iii. Bankfull benches or toe-wood treatments
 - iv. Random rocks or rock clusters
 - v. Straight vanes or similar structures
 - vi. Cross vanes, J-hook vanes, or vortex rock weirs or similar structures, provided:
 1. Header rocks are spaced at least $\frac{1}{4}$ of the average header rock diameter
 2. Hydraulic drop over structure crests does not exceed 0.5 feet
 - vii. Fish habitat structures, such as habitat logs or revetments (tree, rootwad, log)
 - viii. Riffle enhancement, such as addition of spawning gravels
 - ix. Enhancement of existing point bars
 - x. Minor redistribution of bed material associated with i through ix
 - xi. Vegetative plantings, geotextile fabrics, vegetated geogrids, or similar
 - c. Tops of all structures (excluding vii) do not exceed bankfull elevation
 - d. Treatments result in minimal change in channel dimension, pattern, profile
 - e. All other conditions of certification are attained
2. Certification is denied for activities on streams that do not meet the above criteria, and an individual certification review is required. The following supplemental requirements apply:
 - a. In all preconstruction notifications (PCNs), the applicant must provide a complete description of the project purpose and need including a description of existing conditions being restored or enhanced by the project and precisely how a net gain in aquatic resource function or condition would be achieved.
 - b. Pre-construction photographs of existing conditions must be included.
 - c. In all PCNs, the applicant must explain the hydrological and/or ecological basis for the treatments being applied. For activities that would alter channel dimension, pattern, or profile, the applicant must provide summaries of empirical data, associated analyses, and resultant design criteria and, upon request, be able to quantitatively demonstrate

that the channel will transport stream flow and sediment while maintaining a stable dimension, pattern, and profile that is supportive of the streams designated uses. Examples of data and analyses commonly used in stream restoration or habitat enhancement projects include but are not limited to reference and project reach survey data and departure analysis, gage station data and peak flow frequency analysis, regional curves, sediment competency and capacity analyses, and various types of hydraulic modeling. Conceptual project plans will not be accepted.

- d. For all PCNs, provide a description of techniques that would be implemented to protect surface water quality through control of pollutants, storm water runoff, and turbidity.
 - e. Post-construction photographs will be a condition of all certifications. Additional monitoring may be required at the discretion of WDEQ. Details of photographic and other monitoring requirements will be project-specific and included in the certification letter from WDEQ.
 - f. Documentation of coordination with a Wyoming Game and Fish Department (WGFD) aquatic habitat or fisheries biologist should be provided with all PCNs for projects on fish-bearing streams, preferably as a letter from the WGFD commenting on the merits of the project and any recommendations for improvement. At any time, WDEQ, at its own discretion, may coordinate with WGFD on the certification review.
3. Wetland creation or enhancement activities in non-class 1 waters resulting in loss of one acre or less of existing wetland is certified.
 4. Certification of wetland creation or enhancement activities resulting in loss of more than one acre of existing wetland is denied, and an individual certification review is required. The following supplemental requirements apply:
 - a. With all PCNs, provide a complete description of the project purpose including a clear description of existing conditions being restored or enhanced by the project and precisely how a net gain in aquatic resource functions or condition would be achieved.
 - b. Pre-construction photographs of existing conditions must be included.