Missouri General Water Quality Certification for NWP 43, Stormwater Management Facilities

1. Stormwater detention shall be located off-stream with a 50-foot vegetated buffer between the high bank of the stream and the detention area. Discharge rates from the detention area shall maintain adequate low flows and limit peak flows to existing values.

2. A minimum 50-foot vegetated corridor shall be maintained from high bank on either side of the jurisdictional channel to protect water quality and to provide for long-term stability of the stream channel.

3. Planting of the vegetated buffer shall maximize the use of native, flood tolerant species to provide soil stabilization and wildlife benefits and should be coordinated with the Missouri Department of Conservation and the U.S. Fish and Wildlife Service for appropriate species.

4. This certification does not authorize any channelization of any water of the state. For purposes of this certification, channel modifications are any activities that alter the width, depth, length and/or sinuosity of a waterway. This would include, but is not limited to, moving, shortening, cutting off, straightening, widening or modifying the cross section of or fills in a stream channel, whether natural or previously altered. This would not include bank sloping activities for bank stabilization activities.

5. Care shall be taken to keep machinery out of the waterway as much as possible.

6. Fuel, oil, other petroleum products, equipment and any solid waste shall not be stored below the ordinary high water mark at any time or in the adjacent floodway beyond normal working hours.

7. Petroleum products spilled into any waterbody or on the banks where the material may enter waters of the state shall be immediately cleaned up and disposed of properly.

8. Clearing of vegetation/trees shall be the minimum necessary to accomplish the activity.

9. The riparian area, banks, etc. shall be restored to a stable condition to protect water quality as soon as possible. Seeding, mulching and needed fertilization shall be within three days of final contouring. On-site inspections of these areas shall be conducted as necessary to ensure successful revegetation and stabilization, and to ensure that erosion and deposition of soil in waters of the state is not occurring from this project.

10. Only clean nonpolluting fill shall be used.

11. Work shall be conducted during low flow whenever possible.

12. The following are not suitable as bank stabilization materials: earthen fill, gravel, broken concrete where the majority of material is less than 12 inches in diameter, concrete with exposed rebar, asphalt, tires, vehicles or vehicle bodies, construction or demolition debris or liquid concrete, including grouted riprap.

13. The streambed gradient shall not be altered during project construction. If a gradient change is unavoidable, the channel modification may require the installation of grade control structures above and/or below the affected area, as well as on tributaries within the affected area, to minimize the movement of streambed materials caused by the modification.

14. Areas downstream of the project area shall be monitored annually and conditions of the downstream area shall be reported annually for five years for any impacts associated with scouring, channel instability or other damage that may be attributable to project features. Appropriate restoration shall be implemented to address any damage.

15. This certification is not valid until all necessary Missouri Department of Natural Resources, Water Pollution Control Program, permits have been obtained.

16. This water quality certification is not valid for any Section 404 permit issued on a water listed as impaired pursuant to Section 303(d) for contaminants that are involved in the permitted activity, including but not limited to sediment, flow alteration, nutrient enrichment, suspended solids, habitat destruction, temperature and dissolved oxygen or if the activities are located in or occurs within two miles upstream of a designated outstanding state or national resource area (10 CSR 20-7.031).