

Categorical Permission Alteration Description – 21. Swimming Pools

The categorical permission covers the installation, modification, and replacement of swimming pools and associated support facilities (e.g., plumbing, pool patios), subject to certain terms and conditions. The total area of permanent disturbance associated with the proposed alteration must not exceed 2000 square feet

For pools within 300 feet of the levee embankment, the requester should provide a geotechnical analysis to ensure that the pool would not pose a serious risk to the levee. A slope stability analysis and seepage analysis for both through-seepage and underseepage are also necessary. If a geotechnical investigation, slope stability or seepage analysis are not possible, the following rule of thumb is recommended: add 10 feet of lateral distance from the levee toe for each foot of depth. That is, the pool can be no deeper than 1 foot, 10 feet from the toe; 2 feet deep, 20 feet from the toe, and so on. To be conservative, use the pool's deepest depth in the calculation.

For existing in-ground landside swimming pools built within the easement area, a geotechnical analysis is required to determine whether the risks can be mitigated or whether the pool must be removed. Pools should remain full to minimize the potential for buckling and slope failure.

Above-ground pools must not be built in the levee easement area because they can obstruct levee operations, maintenance, and flood-fighting activities.

During construction of new in-ground pools, every precaution must be taken to avoid puncturing the impervious layer which could facilitate seepage and lead to sand boils and potential levee instability.

For swimming pool removal, the non-federal sponsor must be contacted for information about removal. The area must then be restored to pre-alteration conditions, including repair of any damage to the levee.

Categorical Permission Alteration Checklist – 21. Swimming Pools

Please note, the following checklist is intended for planning purposes only and reflects information that USACE reviewers will look for when considering a Section 408 request for swimming pools under the Categorical Permission. To be reviewed under the Categorical Permission, the proposed project must adhere to all requirements of the Categorical Permission, including the full alteration description (see previous page). The plans and narrative project description should reflect this information.

Installation Modification Replacement

Maximum total area of permanent disturbance is 2000 square feet:

For existing in-ground landside swimming pools built within the federal project easement area, a geotechnical analysis has been submitted: Yes NA

No new above-ground pools built within the levee easement area are proposed:

During construction of new in-ground pools, every precaution will be taken to avoid puncturing the impervious layer:

For swimming pool removal, the requester has contacted the non-federal sponsor for information regarding removal: Yes NA

For swimming pool removal, the area will be restored to pre-alteration conditions, including repair of any damage to the levee: Yes NA

Any work within 300 feet of the levee embankment? Yes No

Hydraulic blockage calculation $\geq 1\%$? Yes No

Hydraulic model used for hydraulic analysis? Yes No