

SEDIMENT REMOVAL PLAN REQUIREMENTS  
CHECKLIST  
LAKE AND RIVER ENHANCEMENT (LARE) PROGRAM  
INDIANA DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF FISH AND WILDLIFE

**This checklist is provided to help note progress towards completing a sediment removal plan for LARE-funded dredging projects.**

- 1. Contact information for the organization responsible for the project.** LARE grant funds will not be available to individuals, but only to entities exhibiting the capability to properly represent the interests of a lake's residents and users, without financial conflict of interest on the part of the applicant.

Provide appropriate contact information for the person(s) who will be the representative for the project.
- 2. Project location.**

Provide the name of the affected lake, county name, nearest town, and record the location of the project with the 12 digit HUC (Hydrologic Unit Code) as well as Latitude and Longitude Coordinates expressed in decimal degrees, using NAD 1983 Datum.

Provide a detailed map of the project location on the lake, preferably at a scale of approximately 1 to 2000.
- 3. Public involvement.** Insure that affected lake residents and lake users are included in the planning of the project.

Describe how lake residents and lake users have been apprised of the potential project and the extent to which they have become involved in the planning process.
- 4. Narrative description of the targeted sediment deposit(s), including dimensions, volume, composition, and probable origin.**

Explain how the deposit's dimensions were determined and how volume was calculated.

Describe the sediment's characteristics (example: primarily decomposing plant material vs. inorganic soil) and how they were determined.

Sediment deposits in lakes generally result from tributary inflows that have transported eroded soil from an upstream location. If the sediment was transported into the lake by a tributary stream, provide information about the stream. Note what measures have been instituted to address the erosion and sedimentation.

If the tributary is a regulated drain, provide information regarding cooperation between the project sponsor and the governmental entity responsible for maintenance of the drain. Indicated how and to what extent the entity is involved in the proposed project. This should help to prevent the benefits of the sediment removal project from being negated by rapid re-introduction of the more sediment from the drain.

5. **Mapping the lake bottom, contours before and after dredging.**
  - Indicate the normal elevation of the lake's water surface.
  - Provide a detailed scale drawing of the project site indicating current lake bottom contours with the sediment present. Be prepared to provide a similar map after the dredging is completed to indicate the new contours, indicating how they were determined.
  - Provide the rationale for determining the depths to which excavation will occur, noting the depths favored by species of desirable and undesirable aquatic plants.
  - A map indicating the location(s) of plants present prior to dredging will be useful as a baseline for future monitoring.
  
6. **Chemical composition of sediment.** This is important to insure that no contaminants are present in the sediment that would preclude safe disposal of the dredged material.
  - Describe how the sediment was evaluated to determine environmental suitability for disposal at whatever site has been chosen.
  
7. **Land easements, ownership, leasing, and availability.** Arrangements for disposal site availability must be made before work can begin.
  - Describe what has occurred with respect to the acquisition of sediment disposal and dewatering site(s) and/or access to the property (ies).
  - Describe the status of any efforts to obtain easements, to lease or purchase property to carry out the project.
  
8. **Equipment and method of excavation.**
  - Describe how the selected dredging and disposal methods were evaluated to determine their suitability for the project.
  - Describe the equipment to be used and the sequence of events related to the dredging.
  - Explain the measures to be implemented to assure that work will not adversely impact the lake.
  
9. **Contractor.** It is essential that only qualified, experienced personnel perform sediment removal. This is to assure that a project does not cause unnecessary damage to the lake.
  - Explain the process that will be used to select a contractor(s) to perform the dredging and/or disposal site construction work.
  - Describe the process that will be used to monitor the project's progress and assure its timely and proper completion.
  - Indicate exactly who will be responsible for oversight and that person's qualifications to do so.
  
10. **Disposal and/or dewatering.**
  - Describe the manner in which the dredge spoil will be transported and disposed.
  - Describe the type of disposal and dewatering facilities that will be required and their methods of construction. If dewatering of the dredge spoil will be necessary, explain how the characteristics of the sediment has been evaluated to determine the type/dimensions of settling/dewatering facility required.

- Describe any special considerations such as the need for chemical flocculation, screening, etc.
- Explain what temporary and permanent erosion control measures will be used at the facilities.
- Describe how the sites will be restored when the dredging is completed, providing a description of final landscaping and stabilization measures for the sites.

**11. Permits Applications.** For sediment removal projects will not be considered for funding unless there are assurances that all necessary permits will be issued for the project. Depending on the circumstances, permits, approvals, or certifications may be required from:

- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- Indiana Department of Environmental Management
- Indiana Department of Natural Resources
- Others

Describe the permits required for the proposed project, who will be responsible for preparation and submittal of all the permit applications and the current status of any applications (or permits that may have already been acquired).

**12. Construction schedule and sequence of work.**

- Provide an anticipated schedule for initiation and completion of the various project elements.
- Indicate how the timing on the schedule was determined.

**13. Cost.**

- Provide anticipated cost figures for the various project elements and explain how the amounts were determined.
- Identify any costs associated with unusual physical and/or social aspects of the proposed project.

**14. Site restoration.**

- Describe how the site will be restored following completion of the project, including the sediment disposal site/dewatering basin.