

MAINTENANCE DREDGING OR EXCAVATING

- If dredged material is to be placed in a disposal site, a separate map showing the location of the disposal site should be attached. This drawing must indicate the proposed retention levees, weirs, spillways, and/or devices for retaining the materials.
- Bottom samples to determine heavy metals or other toxic materials must be taken and analyzed if deemed necessary by the DNREC staff. The responsibility, as well as the expense incurred for obtaining and analyzing these samples, must be borne by the applicant.
- If maintenance dredging is to be done, evidence of previous dredging must be provided. Any previously issued permit with drawings which indicates the date the dredging occurred, the area involved and dredging depth constitutes acceptable proof.
- Please make sure answers to all of the questions in this appendix correspond to information on the application drawings.

1. How many cubic yards of material will be MAINTENANCE DREDGED or excavated channelward of the:

- a. Tidal waters: mean high water line? _____ cu. yds.
 mean low water line? _____ cu. yds.
- b. Non-tidal waters: ordinary high water line? _____ cu. yds.

Does this account for the total volume of proposed dredging for the project? _____ Yes _____ No

If there is new dredging associated with this project (dredging beyond previously authorized dimensions) please fill out appendix S for new dredging.

2. What will be the dimensions of the dredged or excavated area relative to mean low water (for tidal areas only) or ordinary water level (for non-tidal areas only)?

_____ length _____ depth _____ base width _____ top width

3. What are average existing depths in area of proposed dredging? _____ ft. (mlw/ohw)
 Include a survey of proposed and existing depths on application drawings.

4. What is the proposed dredging depth in relation to surrounding bathymetry? _____ ft.(mlw/ohw)
 Indicate both proposed depths and surrounding depths on attached drawings.

5. By what method(s) (hydraulic, clamshell or other) will the dredging be done? If other, explain:

6. What is proximity of the dredging project to the nearest creek bank or banks? _____ ft.
What are existing land uses along this bank(s)?

Describe the existing shoreline along this bank (vegetation, rip-rap, bulkhead, etc.).

7. Describe characteristics of the material to be disposed including:
- Physical nature of material (i.e. sand, silt, clay, etc.). Give percentages of various fractions if available.
 - Chemical composition of material - Many areas have sediments with high concentration of pollutants (chemicals, organics etc.) which may be re-suspended or reintroduced into the water. For heavily industrialized sites, a chemical analysis of this material should be provided (if applicable).
 - What are the dewatering properties of material to be disposal of?
8. How will the dredged or excavated material be transported to its disposal area?
9. Land Disposal Areas.
- Describe dimensions, characteristics and exact locations of the proposed dredged material disposal site (provide photographs, directions to, and complete plans of disposal site).
 - Describe method of dredged material containment (embankment, behind bulkhead, etc.)
 - What type of leachates will be produced by the spoil material and what is planned for the protection of groundwater?
 - Disposal site coordinates _____ latitude _____ longitude
 - What methods will be used to ensure that spoil water does not adversely affect water quality both during construction and after completion of the project?
 - Describe present land use of the disposal site.

10. Water Disposal Areas/ Beneficial Use Projects

Describe methods to be used for water disposal including volumes and site selection, and containment (if applicable). Include Fill or Wetland Appendix if applicable.

11. Describe the existing water characteristics at the site, including chemical analysis for water quality.

12. Identify the dredging and disposal schedule to ensure that operations do not degrade water quality during times of anadromous fish migration.

13. Has an Erosion and Sediment Control Plan been approved by the designated plan approval agency for the project? An Erosion and Sediment Control Plan is required for any project disturbing more than 5,000 square feet of uplands. Final approved plans must be received by this office prior to permit issuance.

Yes No Not required

Important time of year restriction information:

Please be advised that all dredging in the Inland Bays must be undertaken between September 1 and December 31 in order to protect summer and winter flounder and other aquatic species. Dredging in other Delaware waters may also be subject to certain time of year restrictions in order to protect fish and wildlife. Contact DNREC for more specific information regarding the restrictions that may apply within your project area.