

Part 531 – Geology

Subpart D – Erosion and Sedimentation Investigations

§IA531.41 Investigation of Watershed Sediment Yield

E. Sediment Storage Design for Reservoirs and Ponds

- (1) Minimum sediment storage requirements for ponds and reservoirs must be determined based on the engineering job classification of the project:
 - (i) Engineering Job Class VI and VII: Storage requirements must be determined by a geologist using Form IA-ENG-309, Reservoir Sedimentation Design Summary. Requests for assistance from a geologist will be made on Form IA-ENG-41, Sedimentation Investigation Request Site Report.
 - (ii) Engineering Job Class V: Storage requirements must be determined by either a geologist, or by an engineer and reviewed by a geologist, using Form IA-ENG-309, Reservoir Sedimentation Design Summary.
 - (iii) Engineering Job Class I through IV: Storage requirements must be determined by a person having the appropriate job approval authority for the structure using the Small Structure Sedimentation Form, IA-ENG-39. If the drainage area is greater than 250 acres, a safety factor of 1.2 must be applied to the final totals for sediment storage required below crest and above crest (acre-feet). (Note: when using Form IA-ENG-39, the safety factor is automatically applied.)
- (2) If Form IA-ENG-309, Reservoir Sedimentation Design Summary, is available but is over five years old, the engineer must request the geologist to review or update the summary.