

CHAPTER 20  
DREDGING

20-01. GENERAL

This chapter covers hopper, bucket (dipper and clamshell), hydraulic (pipeline) dredging, and rock drilling and blasting. Any conflict between this guide and the contract plans and specifications shall be reported to your supervisor.

20-02. REGULATIONS

Corps of Engineers and U.S. Coast Guard

- (1) Check special lights, day signals and passing of floating plant.
- (2) Require strict adherence.
- (3) Report violations.

20-03. OPERATIONS

a. Reports - Check with your supervisor as to type, number and frequency of reports.

b. Control

- (1) Check and verify location of both horizontal and vertical control marks as well as tide gages where present.
- (2) Indicate physical location of control points to contractor.
- (3) Require contractor to protect control points.
- (4) Check and verify location of all underwater utilities.
  - (a) Require utility owner\*s representative to be on board while dredging in vicinity of utilities.

c. Dredge Location

- (1) verify and document position at start of watch.
- (2) Verify and document periodically the advance of dredge.
- (3) Verify and document location of dredge or drill boat at each change of position.

d. Hydrographic Surveys

- (1) Verify horizontal and vertical control each day.
- (2) Insure that the surveyors calibrate both positioning and depth sounding systems daily prior to surveying.
- (3) Verify the performance of after dredging surveys.
- (4) Compare after dredging surveys of design channel.

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(5) Inform contractor of shoal areas.

e. Material

(1) Check material removed.

(a) Does it differ from that specified.

(b) Report material suspected to be of different characteristics.

(2) Misplaced Material

(a) Do not permit dumping by scows in dredge areas.

(b) Check for leaks in scows and pipelines.

(c) Check for breaks in disposal area.

(d) Check height of spillway in disposal area.

(e) Sample waste water passing over spillway for percentage of solids.

(f) Locate and report by document misplaced material.

(3) Check size of boulders.

(4) Verify location and document all areas from which dredge cannot remove material.

f. Drilling and Blasting

(1) Check operations of plant for conformance with paragraphs 20-03 (a-e).

(2) Verify quantity of explosives on hand at start of watch.

(3) Check contractor compliance to State, County, Municipal and Coast Guard regulations relative to use, storage and transporting of explosives. Verify contractor blasting plan.

(4) Require strict adherence to safety regulations and blasting plan.

g. Disposal

(1) Check the following for disposal in navigable waters:

(a) Disposal area should be clearly defined by visible and controlled methods.

(b) Proposed disposal of materials should be in compliance with the contract specification.

(c) Verify acquisition of disposal permit (when required).

(d) Prior to the disposal of material each deposition site shall be verified and documented.

(e) Inform contractor and higher authority when noncompliance of contract is noted.

(2) Check the following for disposal in contained areas:

(a) Dredge runoff should be controlled in accordance with the contract specifications.

(b) Periodically inspect dikes, bulkheads and spillways for necessary maintenance.

(c) Verify on contract-furnished disposal areas that permission to dispose material has been granted thin documentation.

h. Cleanup

(1) Verify removal of all dredging buoys, moorings and range markers.

(2) Survey contained areas for contract compliance to final grading specifications.