Pond Sediment Removal Plan

Project Location

Cooperator Name: _____ Phone: _____

Tract/Field: _____ County: _____

Farm Number: _____ Latitude/Longitude: _____

Type of Operation: _____ Date: _____

Attach a detailed map of the project location in accordance to its position on the farm and location of sediment to be removed.

Description of Targeted Sediment Deposits

The sediment deposits are primarily:

☐ Inorganic ☐ Decomposing plant material ☐ Other: _____

Below please write a brief narrative identifying the source of the deposition and what measures have been implemented/recommended to address the erosion concern.

Description:

Estimated Pond Volume Calculations

Pre-Sediment Removal		**Planned Sediment Removal**	
Average length:	_____	Average depth of excavation:	_____
Average width:	_____	Estimated cubic yards to be removed:	_____
Estimated average depth:	_____	Estimated average depth after project completion:	_____
Estimated existing pond volume:	_____	Estimated pond volume after project completion:	_____

**Note: If sediment is to be removed from a specific area of the pond, then base all measurements on that area.*

Sediment Removal Guidelines:
Sediment cannot be removed from face of the dam or toe of the slope. Calculated distance from top of dam= Average depth after project completion X Upstream slope: (I.e. 6 ft depth x 2 (for 2:1 slope) = 12 ft. Excavation must start a minimum of calculated distance from the top of dam. Use the Sediment Data Sheet/Volumes Calculator as needed on the Pond Sediment Removal BMP Webpage Planning and Design Tools Section.

Below please write a brief narrative explaining how the deposit's dimensions were determined and how the volume was calculated. In addition, please provide a rationale for determining the depths to excavate and recommending means of sediment removal.

Description:

In the event you excavate at a depth greater than the original bottom of the structure, you may encounter issues with holding water in the future.

Completing a pre and post survey for this practice is recommended. Please provide the results of the survey below.

Pre and Post Survey Results:

Pond Level Drawdown

An uncontrolled and rapid drawdown could also induce more serious problems such as slides in the saturated upstream slope of the embankment. Drawdown rates should not exceed 1 foot per week for slopes of clay or silt material except for emergency situations. Very flat slopes or slopes with free-draining upstream zones can withstand more rapid drawdown rates. Large discharges could also cause downstream flooding. Therefore, before operating a valve or gate, it should be inspected, and all appropriate parts lubricated and repaired. It is also prudent to advise downstream residents of large and/or prolonged discharges. Breaching dam is not an approved method of lowering water.

Sediment Removal Disposal

Please be sure to conduct a Cultural Resources Review if spreading spoil on site. Below please describe the manner in which the removed soil will be transported and disposed. Items to consider are the dry out time for the removed soil before spreading on crop fields, adequate buffer between the removed soil pile and any streams, ditches or other waterways, needed sediment and erosion control measures for the removed soil pile. Any temporary or permanent material to be stored near the pond, shall be placed at a distance equal to the depth of the pond, but not less than 12 feet from the edge of the pond. Implement adequate erosion and sediment control measures for spoil piles stored near the pond and any areas disturbed by construction activities. Vegetation shall be established according to CPS 342 Critical Area Planting. Explain what temporary and permanent erosion control measures will be used.

Description:

Operation and Maintenance Plan Statement
ADDENDUM TO NC-CSP-2

1. A operation and maintenance plan for the operation which benefits by cost share program contract # _____ has been developed in accordance with N.C. NRCS Technical Guide specifications. The operation and maintenance plan accounts for the environmentally safe means of operating and maintaining the practice to prevent accidental degradation of surface and ground water.

2. The Cooperator(s) have signed, agreed to the conditions of the operation and maintenance plan and received a copy.

3. A copy of the operation and maintenance plan with original signatures is a permanent part of the District's cooperator file.

Plan Approved By: _____
(Job Approval Authority or PE)

SIGNATURE: _____ DATE: _____