Water Quantity and Drought Pilot Instructions

SCREENING CRITERIA (Portion to be completed in the office)

A. Does the structure meet conservation practice standards (CPS) 378, 402, 436, or 397? *(If No, then Low Screening Priority.)*
   - Documentation must be provided by the applicant or already documented in the case files at the Natural Resources Conservation Service (NRCS) office.
   - Documents that will satisfy requirements are:
     - Letter from NRCS/Soil Conservation Service (SCS) indicating that the installed practice meets the NRCS CPS
     - Checkout on a field sheet
     - Construction field sheet or drawings completed by NRCS/SCS
     - Design calculations completed by NRCS/SCS
     - Construction drawings completed by a professional engineer (PE)
     - Letter from a PE indicating the structure meets NRCS CPS
     - Division of Water Resources (DWR) permit with structure data

B. Does the structure meet the minimum size (1 acre-foot)? *(If No, then Low Screening Priority.)*
   - This is an "as constructed" volume
   - Calculated from the auxiliary spillway crest
   - 1 acre-foot equals 1,613 cubic yards

If criteria A and B are met, proceed to Field Visit.

FIELD VISIT

C. Complete Hazardous or Contaminated Sediments Checklist (Attachment 5) and Form NRCS-CPA-52, Environmental Evaluation Worksheet.
   - For the Hazardous or Contaminated Sediments Checklist, the area of interest is within the drainage area of the structure.
   - On-site items shall have documentation to verify it does not pose a threat.
     - For example, above ground storage tanks onsite (note location and that the tanks are surrounded by a containment dike).
   - If no potential for hazardous or contaminated sediments are identified, continue to D.

D. Utilize Water Quantity and Drought Pilot—Quantity Calculations Sheet.
   Obtain - Water Quantity and Drought Pilot - Quantity Calculation Worksheet
   - Verify structure condition.
     - Embankment Condition
       - No excessive erosion
       - No trees on the embankment
     - Principal Spillway Condition
       - Riser and/or pipe are in satisfactory condition
       - Not pitted or corrosive
     - Auxiliary Spillway Condition
       - Auxiliary spillway is satisfactory condition
       - Does not have erosion or gullies

If criteria C and D are met, proceed to E. Determination of the quantities for removal of sediment.

E. Determination of the quantities for removal of sediment.
- Sediment removal will follow Interim CPS 758, Structure Sediment Removal.
- Calculate the area for sediment removal.
- Utilize handheld Global Positioning System (GPS).
  - GPS units
  - Boundary would be the permanent water line
  - Areas where no sediment will be removed should be obtained also
- Determine the depth of sediment.
  - Use best tools available
  - Use your best judgment for determining sediment depth by augers or probes
  - Ideally a minimum of 3 depths will be used to determine a depth of sediment
    - Take a GPS location for each location
- Establish a Temporary Benchmark (TBM).
- Take a minimum of one elevation shot at a location where the sediment depth is determined.
  - Use field survey notes to document both
- Determine location of spoil placement.
  - GPS the area
  - Spoil placement will follow CPS 572, Soil Spreading
  - Pushing over the top of the embankment is not an acceptable spoil placement location
- Payment will be based on the <u>design quantity</u>.

<u>DEVELOP CONSERVATION PLAN AND RANK APPLICATION</u>

<u>CONTRACT IMPLEMENTATION</u>

- Recommended to utilize Form KS-ENG-10, Job Sheet.
- Document sediment removal area and spoil disposal location.
- Excavation near the front slope should extend down on approximately the same slope.
- Utilize GPS Shape files for preparing map.
  - Consider making this a separate sheet rather than making fit in small area on
    Form KS-ENG-10.
- Certification of CPS 758.
  - Obtain rod reading at the location where sediment depth was estimated
  - Ensure sediment removal depth was obtained
  - Visual inspection of the entire area
- Certification of other CPS by current established procedures.