

FARM POND (EMBANKMENT) DATA SHEET

SWCD _____ FIELD OFFICE _____

COOPERATOR _____ LOCATION _____

IDENTIFICATION NO. _____ FIELD NO. _____ POND NO. _____ DATE _____

DESIGN AND LAYOUT

	BS	HI	FS/GR	ELEV	D ELEV	TBM DESC.
TBM						
DESIGNED TOP DAM						
DESIGN RISER ELEV.						SURVEY PARTY
DESIGN AUX. SPILLWAY						
CHECK ON TBM						

Sketch pond showing staked dimensions, bench mark, reference stakes, proposed location of spoil, north arrow, and reference to field location, roads, etc.

U. S. Dept. of Agriculture Natural Resources Conservation Service	AL-ENG-4A July 2007
POND DESIGN DATA	
Computer Design _____ Manual Design _____ Job Class _____ Soils _____ Hydro. Gr. _____ Land Use _____ Trtmt. _____ Condition _____ Rainfall Dist. Type II or III DA _____ ac. CN _____ W/S Slope _____ % Flow Length _____ ft. Tc _____ hrs. Rainfall (ps) _____ in. _____ yr.; Ia _____ in. Ia/P(ps) = _____; Qpeak(ps) = _____ cfs/ac/in.; Vr = _____ in. Qi(ps) = [Qpeak(ps) _____ x (DA) _____ x (Vr) _____] = _____ cfs Vs = [(_____ ac. + _____ ac.) / 2] x _____ ft. = _____ AF Vs (in.) = [(Vs) _____ AF x 12] / (DA) _____ ac. = _____ in. Use Vs = _____ in. & Vr = _____ in. See National Engineering Field Handbook, Chapter 11, Exhibit 11-4. (TAB A) Qo(ps) = _____ x _____ cfs = _____ cfs (TAB B) Qo(ps) = _____ x _____ ac. = _____ cfs H = _____ ft.; Pipe Size = _____ in. barrel; _____ in. riser Rainfall (es) _____ in. _____ yr. Ia/P(es) = _____; Qpeak(es) = _____ cfs/ac/in.; R.O. (es) = _____ in. Qes = [Qpeak(es)] _____ x (DA) _____ x [R.O.(es)] _____ = _____ cfs Qes(design) = (Qes) _____ - [Qi(ps)] _____ = _____ cfs Erosion Resistant Soil: Yes No Cover _____ Cond. Stand _____; Height _____ in. to _____ in.; Slope _____ % Vel. _____ fps; Retardance: Stab. _____ Capacity _____ Control-Section Length = _____ ft.; q/ft. = _____ S/W BW = [Qes(design)] _____ / (q/ft.) _____ = _____ ft. Use: BW = _____ ft.; Hp = _____ ft.; S/W SS = _____:1 Exit Slope Range: _____ to _____ Adequate _____ Embankment SS = _____:1 TW = _____ ft. Freeboard = _____ ft. El Riser _____ El Aux. S/W _____ El Top of Dam _____ Settlement _____ % Pond Use _____ Capacity = 0.4 x _____ ac. x _____ ft. = _____ AF Barrel _____ ft. of _____ in. _____ Pipe Riser _____ ft. of _____ in. _____ Pipe Valve _____ in.; Collars(ASC) _____ ft. x _____ ft. x _____ ft. Trash Rack Sleeve _____ in. x _____ ft. Flotation(ballast) = [(B) _____ - (W) _____] x (H) _____ / 87.6 = _____ CF Concrete = [(ballast) _____ CF + (ASC) _____ CF] / 27 = _____ CY Quantity of Fill _____ CY Veg. _____ ac. Design By _____ Checked By _____	

SOIL BORINGS							
HOLES	1	2	3	4	5	6	7
DEPTH							
REMARKS							

POND CONSTRUCTION CHECK DATA

CUT-OFF INSPECTION AND APPROVAL _____ VALVE/GATE _____ IN. ANTI-SEEP COLLARS _____ IN. x _____ FT. x _____ FT.
 CLEARING AND DISPOSAL IS _____ DRAINAGE DIAPHRAGM AS REQUIRED _____
 SIZE AND TYPE MATERIAL MEETS SPECS: _____ POND EDGES DEEPENED AS REQUIRED _____
 DRAIN PIPE _____ FT. _____ IN. PIPE CREST ELEV. RISER AND BARREL OUTLET IS _____
 RISER _____ FT. _____ IN. PIPE TYPE VEG., SPILLWAY AND BORROW AREA _____
 TRASH RACK/SLEEVE _____ IN. x _____ FT. _____ CONDITION _____

CONSTRUCTION CHECK

TBM	BS	HI	FS/GR	ELEV	D ELEV	TBM DESC.
DESIGNED TOP DAM						
TOP OF RISER						
TOP OUTLET PIPE						DATE
TOP INLET PIPE						SURVEY PARTY
BOTTOM AUX. SPILLWAY						
BOTTOM OF POND						
CHECK ON TBM						

TOP DAM PROFILE						

AUXILLARY SPILLWAY CROSS SECTION						

REPRESENTATIVE LATERAL CROSS SECTION OF DAM						

Show location of cross sections on sketch.
 Was spoil disposed in accordance with specification? _____
 This practice meets specifications _____

(CONTRACTOR) / TECHNICIAN DATE
APPROVAL

CERTIFICATION

I certify that the pond or structure shown above has been installed on my farm.

OWNER/OPERATOR: _____
 DATE: _____

NRCS TECHNICIAN: _____
 DATE: _____