



**Water Resources Program  
Dam Safety Office**

**CLASS 3 DAM RECONNAISSANCE FORM**

**A. General**

1. Dam Name: \_\_\_\_\_
2. Date of Inspection: \_\_\_\_\_
3. Owner's Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone No.: \_\_\_\_\_
4. Dam Location: \_\_\_\_\_ Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_
5. Stream Name: \_\_\_\_\_
6. Inspected by: \_\_\_\_\_  
\_\_\_\_\_

**B. Dam Description**

1. Type of Dam: \_\_\_\_\_  
(*earthfill, rockfill, concrete, homogeneous, zoned, other*)
2. Dam Height: \_\_\_\_\_  
(*Crest to Toe*)
3. Length of Dam: \_\_\_\_\_ 4. Crest Width: \_\_\_\_\_
5. Downstream Slope: \_\_\_\_\_ H : \_\_\_\_\_ V
6. Upstream Slope: \_\_\_\_\_ H : \_\_\_\_\_ V
7. Principal Spillway Type: \_\_\_\_\_  
(*Weir, Drop Inlet, Open Channel, etc.*)
8. Principal Spillway Dimensions: \_\_\_\_\_  
\_\_\_\_\_
9. Spillway Invert Elev.: \_\_\_\_\_  
(*Elevation or Feet Below Dam Crest*)
10. Stoplogs (if any): \_\_\_\_\_

11. Emergency Spillway Type: \_\_\_\_\_

Armoring/Erosion Protection: \_\_\_\_\_

Dimensions: \_\_\_\_\_

Invert Elev.: \_\_\_\_\_  
*(or feet below dam crest)*

12. Low Level Outlet Conduit Type: \_\_\_\_\_

Dimensions: \_\_\_\_\_

Controls: \_\_\_\_\_

**C. Reservoir Data**

1. Reservoir Level at Time of Inspection: \_\_\_\_\_  
 (Feet Below Dam Crest)

2. Present Surface Water Area: \_\_\_\_\_ (Acres)

3. Present Estimated Storage: \_\_\_\_\_ (Acre-Feet)  
 (From Table below)

5. Estimated Surface Area at  
 top of dam level: \_\_\_\_\_ (Acres)

6. Estimated Maximum Storage: \_\_\_\_\_ (Acre-Feet)  
 (From Table below)

7. Reservoir Basin Characteristics: \_\_\_\_\_  
 \_\_\_\_\_

**ESTIMATED RESERVOIR STORAGE VOLUME (acre-feet)**

Dam Height (feet)	RESERVOIR SURFACE AREA (ACRES)								
	1	2	3	4	6	8	10	14	18+
6	3	6	9	12	18	24	30	42	54
8	4	8	12	16	24	32	40	56	72
10	5	10	15	20	30	40	50	70	90
12	6	12	18	24	36	48	60	84	108
14	7	14	21	28	42	56	70	98	126
16	8	16	24	32	48	64	80	112	144
18	9	18	27	36	54	72	90	126	162
20	10	20	30	40	60	80	100	140	180
24	12	24	36	48	66	96	120	168	216

**D. Downstream Hazard:**

- 1. Estimated Dam Breach  
Peak Discharge (From Tech Note 1): \_\_\_\_\_ (CFS)
- 2. Estimated No. of Downstream  
Residences Affected by Dam Breach: \_\_\_\_\_
- 3. Other Development Affected: \_\_\_\_\_  
(Roads, Industries, Schools, etc)
- 4. Downstream Hazard Classification: \_\_\_\_\_  
(High = 3 or more homes, Significant = 1 or 2 Homes, Low = 0 Homes)

**E. Condition of Dam**

- 1. Crest: \_\_\_\_\_  
\_\_\_\_\_  
*(Check for: surface cracking, animal burrow, low areas, horizontal alignment, ruts, trees, brush)*

- 2. Upstream Face: \_\_\_\_\_  
\_\_\_\_\_  
*(Check for: slumps, slides scarps, sinkholes, animal burrows, slope protection, wave erosion, trees, brush)*

- 3. Downstream Face: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
*(Check for: wet areas[no flow], seepage[note location], slides, slumps, scarps, change in slope, animal burrows, erosion, unusual movement, trees, brush, water loving vegetation)*

- 4. Spillway(s):
  - Earthen Channel; \_\_\_\_\_  
\_\_\_\_\_  
*(Check for: slide, slump, scarp, erosion protection, vegetation, debris)*

- Concrete Lined Channel; \_\_\_\_\_  
\_\_\_\_\_  
*(Examine: sidewalls, channel floor, approach area, weir, discharge area. Check for: alignment, movement, cracking, spalling, undermining, etc.)*

- Drop Inlet; \_\_\_\_\_  
\_\_\_\_\_  
*(Examine: intake structure, trashrack, conduit, stilling basin)*

- 5. Outlet Works:(visible elements) \_\_\_\_\_

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*(Examine: intake structure, trashrack, stilling basin, control mechanism, outlet pipe. Check for: seepage, undermining, erosion, corrosion)*

6. Embankment Material: \_\_\_\_\_

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*(fine or course grained, plastic/nonplastic, sand, silt, clay, rocks, etc. Examine borrow area(s))*

7. Adequacy of Maintenance: \_\_\_\_\_

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8. Reservoir High Water Mark: \_\_\_\_\_  
(measured below dam crest)

F. Additional Comments: \_\_\_\_\_

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**G. Sketch of Dam & Reservoir Site:**