

**Maryland Department of the Environment
Water and Science Administration
Dam Safety Permits Division**

APPLICATION FOR A DAM SAFETY PERMIT OR SMALL POND APPROVAL
(Applicable to all dam, small pond, levee and reservoir projects)

Part 1: General Information

PROJECT TYPE		
<input type="checkbox"/> New Dam	<input type="checkbox"/> New Levee	<input type="checkbox"/> Dam/Small Pond Removal
<input type="checkbox"/> Modify/Repair Dam	<input type="checkbox"/> Modify/Repair Levee	<input type="checkbox"/> Emergency Repair/Breach
<input type="checkbox"/> New Small Pond	<input type="checkbox"/> Work in Reservoir Only	<input type="checkbox"/> Other (Specify below):
<input type="checkbox"/> Modify/Repair Small Pond	<input type="checkbox"/> Geotechnical Investigation	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>

*Cold Water Resource Area Map: <https://bit.ly/3gXAI3U>

PROJECT NAME / LOCATION			
MD Dam ID	(existing dams)	Latitude	(decimal deg)
Local BMP ID		Longitude	(decimal deg)
Dam Name		Stream	
Reservoir/Lake Name		Use Class	Cold Water Area* <input type="checkbox"/> Y / <input type="checkbox"/> N

PROJECT DESCRIPTION

Part 2: Structure Information

HAZARD POTENTIAL CLASSIFICATION		
<i>Hazard Classification</i>	<i>Breach Analysis Method</i>	Population at Risk
<input type="checkbox"/> High	<input type="checkbox"/> Screening	*If relying on a previously approved breach analysis, provide a copy with application
<input type="checkbox"/> Significant	<input type="checkbox"/> Simplified	
<input type="checkbox"/> Low	<input type="checkbox"/> Standard	
<input type="checkbox"/> Low (Small Pond)	<input type="checkbox"/> Other	

PURPOSE OF STRUCTURE (Check all that apply)		
<input type="checkbox"/> Stormwater Management-Wet Pond	<input type="checkbox"/> Tailings / Dredged Material	<input type="checkbox"/> Water Supply/Irrigation
<input type="checkbox"/> Stormwater Management-Dry Pond	<input type="checkbox"/> Sediment Control	<input type="checkbox"/> Wildlife/Fish
<input type="checkbox"/> Infiltration	<input type="checkbox"/> Flood Control	<input checked="" type="checkbox"/> Fire Control
<input type="checkbox"/> Submerged Gravel Wetland	<input type="checkbox"/> Recreation	<input type="checkbox"/> Other (Specify below)
<input type="checkbox"/> Bioretention	<input type="checkbox"/> Waste Water	<div style="border: 1px solid black; height: 30px; width: 100%;"></div>

IDF = Inflow Design Flood (24-hr, 100-year for low hazard, 1/2 PMF for significant hazard, PMF for high hazard)

PROPERTIES OF DAM AND RESERVOIR			
Length of Dam	(feet)	Surface Area (normal pool)	(acres)
Crest Width	(feet)	Surface Area (brim full)	(acres)
Embankment Height	(feet)	Storage (normal pool)	(acre-ft)
(Height measured from lowest upstream point to crest of dam)		Storage (IDF max)	(acre-ft)
Elevation of Dam Crest	(Datum ____)	Storage (brim full)	(acre-ft)
Normal Pool Elev.		Side Slopes, Upstream	__ H : 1V
IDF Pool Elev.		Side Slopes, Downstream	__ H : 1V
Freeboard	(feet)		
Drainage Area	(acres sq. mi.)		

Principal Spillway Type

- Riser & Barrel
- Weir Wall
- Weir & Channel
- Other (specify below)

Auxiliary Spillway Type

- Earthen Channel
- Rock Channel
- None
- Other (specify below)

Auxiliary Spillway Protection

- Grass
- Riprap (Class)
- Gabions
- Other (specify below)

Principal Spillway Material

- | | | | |
|---------------------------------------|---|--|--------------------------------------|
| <input type="checkbox"/> RCP | <input type="checkbox"/> CMP / BCCMP | <input type="checkbox"/> Alum (CAP) | <input type="checkbox"/> PVC / HDPE |
| <input type="checkbox"/> Ductile Iron | <input type="checkbox"/> Cast-in-place concrete | <input type="checkbox"/> Pre-cast concrete | <input type="checkbox"/> Other _____ |

Riser & Barrel

Barrel Diameter	(inches)	Capacity at IDF	cfs
Riser Dimensions		Anti-flotation FS	

Weir Wall / Weir & Channel

Weir Length	(feet)	Weir Coefficient
Overturning FS		
Sliding FS		

Auxiliary Spillway

Crest Elevation		Capacity at IDF	cfs
Bottom Width	(feet)	Maximum Velocity	ft/sec
Side Slopes	H : 1V		

Part 3: Submittal Checklist

The following list describes the documents, plans, calculations and other material that is required for a typical application to construct, reconstruct, modify or repair a dam or small pond. Each dam and project is unique; therefore, a general list of required submittals should be discussed with the Dam Safety Permits Division prior to making the application. Inquiries and electronic submittals can be made to MDE.DamPermits@Maryland.gov

Detailed descriptions of the content to be included in each document are available on the Dam Safety website at: mde.maryland.gov/damsafety

Required Upon Initial Submission of Application (Minimum Required to Provide Small Pond Exemption)

#		Included	MDE Use Only
1	Description	<input type="checkbox"/>	<input type="checkbox"/>
2	Construction Plans (plans, cross sections, details)	<input type="checkbox"/>	<input type="checkbox"/>
3	Dam Breach Analysis and Hazard Classification Report Inundation Map	<input type="checkbox"/>	<input type="checkbox"/>
4	Dam Inspection Report / As-Built Data (for existing dams/small ponds)	<input type="checkbox"/>	<input type="checkbox"/>

Required Prior to Permit Issuance

5	Basis of Design Report	<input type="checkbox"/>	<input type="checkbox"/>
	Summary of Proposed Work	<input type="checkbox"/>	<input type="checkbox"/>
	Summary of Design Standards Applicable to Project	<input type="checkbox"/>	<input type="checkbox"/>
	Hydrology and Hydraulics Report	<input type="checkbox"/>	<input type="checkbox"/>
	Geotechnical Engineering Report	<input type="checkbox"/>	<input type="checkbox"/>
	Structural Engineering Report	<input type="checkbox"/>	<input type="checkbox"/>
6	Project Specifications	<input type="checkbox"/>	<input type="checkbox"/>
7	Operation and Maintenance Plan	<input type="checkbox"/>	<input type="checkbox"/>
8	New/Updated Emergency Action Plan (High and Significant Only)	<input type="checkbox"/>	<input type="checkbox"/>
9	Memorandum of Land Restrictions	<input type="checkbox"/>	<input type="checkbox"/>
10	Engineer-in-Charge Affidavit and Resume	<input type="checkbox"/>	<input type="checkbox"/>
11	Construction bond, irrevocable letter of credit, or other security	<input type="checkbox"/>	<input type="checkbox"/>