



control structure

top of dam

outfall

downstream
toe of dam

emergency
spill way

| | |
|---|-------------------------|
|  | normal water level |
|  | flood event water level |

The dam diagram depicts a typical wet pond utilizing a dam with a permanent pool. There are several common features found in most dams, these include:

Black Line - Normal water elevations.

Red Line - Water elevation during a flood event.

Control Structure - A structure through which water flow is directed through or over during the majority of rainfall events. Also known as the principal spillway.

Emergency Spillway - A channel that is designed to provide additional protection against water flowing over the top of the dam (known as overtopping) and is intended for use under extreme conditions.

Combined Spillway - Many facilities have a combined spillway where the control structure acts as both the principal and emergency spillway.

Outfall - Structure where water is discharged at normal conditions.

Toe of Dam - The portion of the dam slope that intersects the natural ground surface.

Top of Dam - The elevation of the uppermost surface of the dam.

For additional information on existing dams and stormwater management facilities, please email the Maintenance Stormwater Management Division at contactMSMD@fairfaxcounty.gov or call **703-877-2800**, TTY 711.