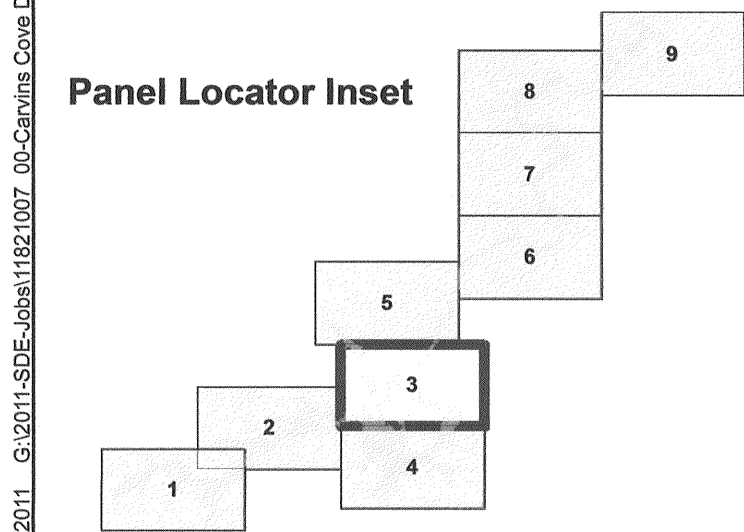




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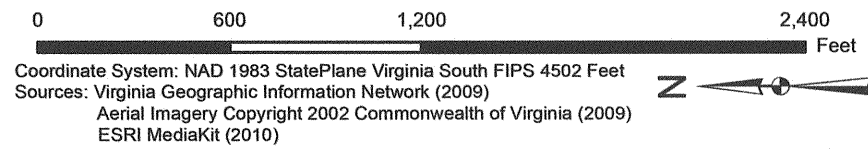


- Cross Section
- Stream
- Spillway Design Flood
- Sunny Day Breach
- Spillway Design Flood With Breach
- School
- Hospital
- City/County Boundary

Cross Section	Distance from Dam (miles)	Sunny Day Dam Breach			Spillway Design Flood Breach		
		First Flood Waters* (hr:min)	Peak Flood Level* (hr:min)	Depth of Water** (feet)	First Flood Waters** (hr:min)	Peak Flood Level* (hr:min)	Depth of Water*** (feet)
P	9.8	1:39	3:15	37.6	15:05	2:54	50.2
Q	10.1	1:40	3:20	34.1	15:13	2:55	48.0
R	10.5	1:43	3:35	33.2	15:14	2:59	45.9
S	10.5	1:44	3:38	32.3	15:15	3:00	42.2
T	10.5	1:45	3:39	32.9	15:20	3:13	42.7
U	10.9	1:48	3:40	38.1	15:35	3:14	48.2
V	11.6	1:50	3:45	32.6	15:40	3:15	38.6
W	11.6	1:55	3:50	29.6	15:50	3:25	40.0

- Notes:
- The information contained in this map is prepared for use in notification of downstream property owners by emergency management personnel.
  - Mapping of flooded areas and floodwave travel times are approximate. Timing and extent of actual inundation may differ from information presented on this map.
  - It is prudent to assume that areas outside, but adjacent to, the inundation limits shown could also be flooded.
  - Due to the topography, floodwave similarities, and map scale, inundation lines may obscure other inundation lines at some locations on the map.

- Hazard Potential Classification: **HIGH**
- Spillway Design Flood: **Probable Maximum Flood**
- The dam's hazard potential classification information shown in this map documents the conditions at the time the map is signed and printed.
- The impacted addresses shown on the map are a result of the Spillway Design Flood with Breach.
- Dam break inundation zone maps shall be provided by the owner to the local government for use in review of proposed development plans and zoning.



DESIGNED BY: MRG

DRAWN BY: GAN

CHECKED BY: AWG

ANTHONY W. GRUBBS, P.E.  
DATE: 6/24/11  
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CARVINS COVE DAM BREACH ANALYSIS  
DAM BREAK INUNDATION ZONE MAP  
BOTETOURT COUNTY, VA

PANEL 3

**WESTERN VIRGINIA**  
WATER AUTHORITY

DRAWING NO:  
11821007.00

SHEET:  
4 OF 10

REV

DESCRIPTION

DATE