



Panel Locator Inset

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Cross Section

Stream

Spillway Design Flood

Sunny Day Breach

Spillway Design Flood With Breach

School

Hospital

City/County Boundary

Sunny Day Dam Breach			
	First Flood	Peak Flood	Depth of Water***
Cross Section	(hr:min)	(hr:min)	(feet)
I	0:55	2:10	37.9
J	1:00	2:33	38.0
K	1:09	2:35	39.8
L	1:10	2:45	36.2
M	1:20	2:55	39.9
N	1:29	3:05	34.7
O	1:30	3:10	39.3

Spillway Design Flood Breach			
	First Flood	Peak Flood	Depth of Water***
Cross Section	(hr:min)	(hr:min)	(feet)
I	13:55	1:35	48.8
J	14:05	2:03	49.4
K	14:20	2:05	52.0
L	14:34	2:10	49.2
M	14:35	2:30	49.8
N	14:45	2:35	50.7
O	14:50	2:40	52.7

Notes:

1. The information contained in this map is prepared for use in notification of downstream property owners by emergency management personnel.

2. Mapping of flooded areas and floodwave travel times are approximate. Timing and extent of actual inundation may differ from information presented on this map.

3. It is prudent to assume that areas outside, but adjacent to, the inundation limits shown could also be flooded.

4. Due to the topography, floodwave similarities, and map scale, inundation lines may obscure other inundation lines at some locations on the map.

5. Hazard Potential Classification: HIGH

6. Spillway Design Flood: Probable Maximum Flood

7. The dam's hazard potential classification information shown in this map documents the conditions at the time the map is signed and printed.

8. The impacted addresses shown on the map are a result of the Spillway Design Flood with Breach.

9. 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.

0600

1200

2400

Feet

Coordinate System: NAD 1983 StatePlane Virginia South FIPS 4502 Feet

Source: Virginia Geographic Information Network (2009)

Aerial Imagery Copyright 2002 Commonwealth of Virginia (2009)

ESRI MediaKit (2010)

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11A OAK BRANCH DR. / GREENSBORO, NC 27407

TR 336-274-9456 / 336-274-9486 / SCHNABEL-ENG.COM

WESTERN VIRGINIA

WATER AUTHORITY

DRAWING NO:
11821007.00

SHEET:
3 OF 10

DESIGNED BY: MRG

DRAWN BY: GAN

CHECKED BY: AWG

ANTHONY W. GRUBBS, P.E.

DATE: 12/14/11

VIRGINIA PROFESSIONAL ENGINEER NUMBER 046668

COMMONWEALTH OF VIRGINIA

ANTHONY W. GRUBBS

Lic. No. 046668

PROFESSIONAL ENGINEER

Schnabel

ENGINEERING

CARVINS COVE DAM BREACH ANALYSIS
DAM BREAK INUNDATION ZONE MAP
BOTETOURT COUNTY, VA

PANEL 2

DATE

REVISION

DESCRIPTION