

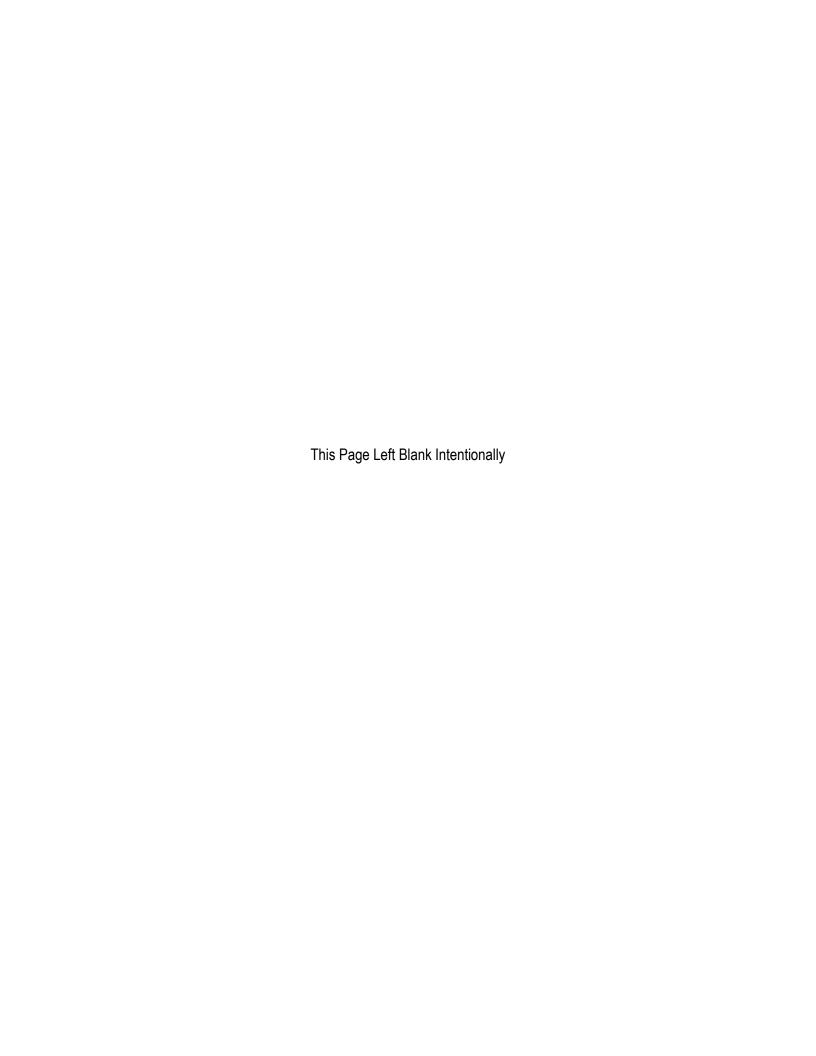


# **Emergency Operations Plan Dam Safety Annex**

December 22, 2020

Last Reviewed and Adopted March 4, 2025





## PLAN DOCUMENTATION

#### **RECORD OF CHANGES**

Change #	Page #	Section	Summary of Change	Change Made By	Date
1	10	Roles & Responsibilities	Added step for coordinating road closures	R. Hillman	12/14/2023
2	9	Roles & Responsibilities	Ensure notification to the state EOC & other authorities	R. Hillman	12/14/2023
3	9	Roles & Responsibilities	Monitor NWS and adjust action plans	R. Hillman	12/14/2023
4	15	Directory of Dams	Added Wincott Dam	R. Hillman	12/14/2023
5	11	Directory of Dams	Added Rivergate Lake Dam	R. Hillman	12/14/2023
6	9-10	Roles & Responsibilities	Updates in preparation for BOS adoption on March 4, 2025	R. Hillman	4/8/2025

### **PREFACE**

#### **RELATED AUTHORITIES**

Legal authority to undertake the development of the Emergency Operations Plan and subsequent actions in an emergency derives from the Goochland County Board of Supervisors.

See Authorities in the EOP Base Plan for general authorities and references.

#### **STATE AUTHORITIES**

• The Virginia Dam Safety Act (All dams are included except those which are specifically excluded).

#### **ABBREVIATIONS AND ACRONYMS**

CDC	Centers for Disease Control and Prevention			
СООР	Continuity of Operations			
EOP	Emergency Operations Plan			
EPT	Emergency Planning Team			
FEMA	Federal Emergency Management Agency			
FMA	Flood Mitigation Assistance			
HAZMAT	Hazardous Materials			
НМС	Hazard Mitigation Coordinator			
HMGP	Hazard Mitigation Grant Program			
HMP	Hazard Mitigation Plan			
IA	Individual Assistance			
NFIP	National Flood Insurance Program			
PA	Public Assistance			
PDM	Pre-Disaster Mitigation			
PPE	Personal Protective Equipment			
SDS	Safety Data Sheets			
VDH	Virginia Department of Health			
VDOT	Virginia Department of Transportation			
WHO	World Health Organization			

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### **INTRODUCTION**

#### **PURPOSE**

The purpose of this annex is to identify and locate dams in the County that may cause problems in the event they collapse or are breeched in some manner and to provide for the protection of those people who may be affected but such conditions.

#### MISSION

To provide protection to those residents in the vicinity of dams by taking actions necessary to prevent dam failures and, in the event there is a dam failure, to keep personal injury and property damage to a minimum.

#### SCOPE

This Annex applies to all dams located in the County and those agencies that are involved in dam safety as well as those that would be involved in responding to a dam collapse event. **See Attachment 1: Directory of Dams.** 

### **CONCEPT OF OPERATIONS**

#### **GENERAL**

The Virginia Dam Safety Act covers the basic dam safety responsibility for dams in the Commonwealth. The Virginia Dam Safety Act covers the basic dam safety responsibility for dams in the Commonwealth. All dams are included except those which are specifically excluded.

The owner of each dam is responsible for its safe and proper design, construction, operation, and maintenance. Owners of dams that exceed 25 feet in height, impound more than 50 acre-feet (100 acre-feet for agricultural purposes) of water, and are not regulated by others must comply with the Virginia Dam Safety Act. Smaller dams are excluded.

Dams that exceed 25 feet in height and impound more than 50 acre-feet (100 acre-feet for agricultural) are classified in one of four classifications according to the degree of hazard potential they impose should the structure fail.

#### PLAN REQUIREMENTS

All regulated dams except Class IV (potential damage confined to the owner) require that the owner prepare an Emergency Action Plan.

The owner of each Class I, II, and III dam covered by the Virginia Dam Safety Act is required to prepare an Emergency Action Plan (EAP) which shall include a method of notifying local authorities and notifying and warning persons downstream of the dam in the event of an impending dam failure or overtopping. A copy of each EAP must be provided to the affected local government.

An "Emergency Action Plan" is one of three items required prior to issuance of an Operation and Maintenance Certificate by the Virginia Department of Conservation and Recreation. In addition to the Virginia Department of Conservation and Recreation, a copy of the plan must be provided to the local Director of Emergency Services and to the Virginia Department of Emergency Management.

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#### **CLASSIFICATION**

Dams are ranked by level of risk, as follows:

Classification	Description	Quantity in Goochland Co.
Class I (High Hazard)	Probable loss of life	0
Ciass i (iligii ilazaiu)	Excessive economic loss	
Class II (Moderate	Possible loss of life	1 Regulated
Hazard)	Appreciable economic loss	2 Non-Regulated
<b>2</b> 1 111 /1 11 15	No loss of life expected	7 Regulated
Class III (Low Hazard)	Minimal economic loss	17 Non-Regulated
<b>21 B</b> //1 <b>11 B</b>	No loss of life expected	N/A
Class IV (Low Hazard)	No economic loss to others	IV/A

#### **DAM EMERGENCY STAGES**

The following table identifies and defines Goochland County's Dam Emergency Stages:

Stage	Description	Actions
Stage I	Slowly developing conditions; five days or more may be available for response. Owner should increase frequency of observations and take appropriate readiness actions.	The affected public will be routinely notified of conditions at a dam.
Stage II	Rapidly developing conditions; overtopping is possible. One to five days may be available for response. Increase readiness measures. Notify local Coordinator of conditions and keep him informed.	The public in the potential inundation area downstream will be alerted for possible evacuation.
Stage III	Failure has occurred, is imminent, or already in flood condition; overtopping is probable. Only minutes may be available for response.  Evacuation recommended.	Local government will declare a local emergency and order an evacuation. It is recognized, of course, that a dam may collapse without warning.

#### RESPONSE ROLES AND RESPONSIBILITIES

Role	Responsibilities
Dam Owners	<ul> <li>Report abnormal conditions at the dam to the Sheriff and the Coordinator of Emergency Services</li> <li>Owners of dams that exceed 25 feet in height and impound more than 50 acre-feet (100 acre-feet for agricultural purposes) of water must develop and maintain an "Emergency Action Plan." This plan shall include a method of notifying and warning persons downstream and of notifying local authorities in the event of impending failure of the dam.</li> </ul>
	Each dam EAP will identify the inundation area and persons to be evacuated.
Emergency Services	Regarding Mitigation -
	Maintain awareness of dams in Goochland through the National Inventory of Dams (NID) at https://damsdev.net/#/
	Participate in EAP reviews upon Owners request
	Participate in tabletop exercises upon Owners request
	Regarding Response -
	Ensure State Emergency Operations Center (EOC) and any other authorities have been notified of any dam emergencies or potential emergencies.
	Monitor National Weather Services and adjust action plans accordingly.
	Develop and maintain a local Emergency Operations Plan (EOP) which identifies any federal or state-regulated dams in their jurisdiction, and which sets forth procedures for the evacuation of persons downstream.
	Coordinate technical assistance in evacuation planning, and in determining most viable and alternate transportation routes and modes of transport
	Facilitate evacuation from affected areas

- Identify evacuation site(s)
- Develop evacuation and emergency operations procedures for at-risk locations
- Develop evacuation traffic management plan
- Monitor evacuation traffic flow/demand and adjust evacuation traffic management plan and measures as appropriate
- Develop, coordinate, and deliver evacuation traveler information directly to the public and through the media
- Coordinate road closures with VDOT and Goochland County Sheriff's Office.
- Develop plans, procedures, and policies for coordinating, managing and disseminating public information
- Develop procedures for notifying residents and general public related to entering, repairing, and reoccupying condemned and damaged buildings
- Identify public information needs of the affected area and utilize CodeRED and/or Wireless Emergency Alerts (WEA) before, during and after emergencies
- Provide recovery and re-entry information
- Ensure residents and general public are informed about entering, repairing, and reoccupying condemned and damaged buildings
- Ensure building owners are informed about standards and permitting requirements for repairing and reoccupying condemned or damaged buildings or having utilities reconnected

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## **ATTACHMENT 1: DIRECTORY OF DAMS**

Class	Name	Heig ht	Max Capacit y (acre- feet)	Туре	Purpose	Owner	EAP
Class I	None						
Class II Regulated	Dover Lake Dam	36'	1,631	Earth	Irrigation & Recreation	Sabot Hill Farm, Inc.	
	Gathright's Dam	20'	60	Earth	Recreation	L.K. Gathright	
	Harris Pond Dam	17'	143	Earth	Recreation	D.H. Leake	
Class II Non- regulated	Rivergate Lake Dam (aka Tuchahoe Lake Dam) VA075028	40'	631	Earth	Recreation	Rivergate Home Onwers Associati on POC = Fred Babik	Yes
	Bowles Dam	37'	137	Earth	Recreation	William DeRushe	
Class III Regulated	Broad Branch Dam	29'	1,188	Earth	Recreation	CBR Associate s, Inc.	
	Lake Dillon Dam	39'	600	Earth	Recreation	BSA, RE Lee Council	
	Pickett's Creek	37'	1,318	Earth	Water supply, recreation, flood	Southbur y Corp. Farm Mgmt.	

					control, irrigation		
	Pruitt's Dam	26'	180	Earth	Recreation	Lee Hoehny	
	Reservoir No. 1	28'	360	Earth	Irrigation	Hermitag e CC	
	Westview Dam	44'	273	Earth	Recreation	Westview on the James	
	Wincott Dam	15'	165	Earth	Fish & Wildlife Pond	Aldwyck Homeow ners Associati on, Inc. POC Sarah DeWitt	Yes
	Bolling Hall	20'	224	Earth	Recreation , Water Supply	B.C. Gottwald	
	Bonneys Dam	15'	64	Earth	Recreation	Henley, Bonney, Markowit z	
Class III Non- regulated	Broad Branch Dam (Reservoir No. 2)	24'	333	Earth	Irrigation	Hermitag e CC	
	Carter & Harrell	24'	248	Earth	Recreation , water supply	Camptow n Owners Assoc., Inc.	
	Childress Dam	16'	76	Earth	Recreation	C. P. Childress	
	Fairfield Dam	19'	78	Earth	Recreation	Martha Hume	

	Killerney Dam	24'	234	Earth	Recreation	Thomas Knox Lively	
	Lake Fullstream	24'	83	Earth	Irrigation & Recreation	Dr. J. A. Shield	
	Licking Hole Farm Dam	24'	252	Earth	Recreation , water	F. D. Gottwald, Jr.	
	Mayo- Alexander's	23'	165	Earth	Recreation	Howard Mayo	
	Mt. Bernard Dam	16'	240	Gravity	Recreation , flood control, water supply, irrigation	J. K. Perrin-T. J. Starke	
	Patterson & Stettinius Dam	26'	98	Earth	Recreation	Andrew W. & Nancy N. Dykers	
	Queensmer e Dam	21'	113	Earth	Irrigation, recreation	Jack Cronley	
	Reynolds Dam	24'	105	Earth	Recreation	Lawrence J. Page	
Class III Non- regulated	Richmonds Dam	23'	62	Earth	Recreation	C. F. Richmon d	
(continue	Volchers Dam	24'	66	Earth	Recreation	F. R. Volcher	
d)	Windsor Park Lake Dam	21'	105	Earth	Recreation	Windsor Park Land Owners	

Name	LAT / LONG	E-911 Address			
Dover Lake	37.62553	755 Merry Go Round Rd., Manakin Sabot, VA 23103			
Dam	-77.74451	roo mony correction rail, manailli casot, vivizoroo			
Gathright's	37.68649	2940 Pitts Dr., Goochland, VA 23063			
Dam	-77.89114				
Harris Pond	37.82056	4146 Broad Street Rd., Gum Spring, VA 23065			
Dam	-77.96013	The contract of the contract o			
Bowles Dam	37.71350	1686 Broad Street Rd., Maidens, VA 23102			
	-77.80140	, , , , , , , , , , , , , , , , , , , ,			
Broad	37.63339	100 Kinloch Ln., Manakin Sabot, VA 23103			
Branch Dam	-77.68733	, , , , , , , , , , , , , , , , , , , ,			
Lake Dillon	37.67613	1723 Maidens Rd., Maidens, VA 23102			
Dam	-77.86254				
Pickett's	37.66442	5345 Whittcamp Rd., Goochland, VA 23063			
Creek	-78.04779	, , , , , , , , , , , , , , , , , , , ,			
Pruitt's Dam	37.78736	3350 Lake Dr., Sandy Hook, VA 23153			
	-77.97367	, , ,			
Reservoir	37.64561	1248 Hermitage Rd., Manakin Sabot, VA 23103			
No. 1	-77.70573				
Westview	37.64592	1231 West View Rd., Goochland, VA 23063			
Dam	-78.0028	·			
<b>Bolling Hall</b>	37.66864	1705 Rock Castle Rd., Goochland, VA 23063			
	-77.96393				
Bonneys	37.78442	5380 Community House Rd., Goochland, VA 23063			
Dam	-78.05714	•			
Broad Branch Dam	37.64198				
(Reservoir No. 2)	-77.70037	1248 Hermitage Rd., Manakin Sabot, VA 23103			

	27 62720			
Carter &	37.63736	585 Blue Goose Rd., Crozier, VA 23039		
Harrell	-77.78062	· , , , , , , , , , , , , , , , , , , ,		
Childress	37.69843	183 Childress Rd., Rockville, VA 23146		
Dam	-77.69371	100 Officials Na., Nockville, VA 20140		
Fairfield	37.70018	3884 Big Hickory Dr., Goochland, VA 23063		
Dam	-77.95730	3004 Big Flickory Br., Goodflichtd, V/ 20005		
Killarney	37.83258	4070 Lake Killarney, Gum Spring, VA 23065		
Dam	-77.97648	4070 Lake Killamey, Guill Spring, VA 23003		
Lake	37.65930	1290 Full Stream Form Dd. Monakin Sahat VA 22102		
Fullstream	-77.76371	1289 Full Stream Farm Rd., Manakin Sabot, VA 23103		
Licking Hole	37.69095	1550 Rock Castle Rd., Goochland, VA 23063		
Farm Dam	-77.99075	1330 Nock Casile Na., Goodilland, VA 23003		
Mayo-	37.79573	5722 Mayo Lake Drive, Columbia, VA 23038		
Alexander's	-78.07304	3722 Mayo Lake Dilve, Columbia, VA 23030		
Mt. Bernard	37.66716	2210 Denver Ln., Maidens, VA 23102		
Dam	-77.85537	ZZ 10 DG11VG1 LII., IVIdIUG113, VA ZJ 10Z		
Patterson &	37.69968	3831 River Road W., Goochland, VA 23063		
Stittius Dam	-77.94528	3031 RIVEL RUBU W., GUUCHIBITU, VA 23003		
Queensmere	37.68204	1500 Old Bunker Hill Rd., Goochland, VA 23063		
Dam	-78.05041	1300 Old Bullikel Filli Na., Goodillalla, VA 23003		
Reynolds	37.67574	1614 Genito Rd., Manakin Sabot, VA 23103		
Dam	-77.78809	1017 Ochillo INa., ividilakiii Odbol, VA 20100		
Richmonds	37.64837	1858 River Road W., Crozier, VA 23039		
Dam	-77.81604	1000 Tilvoi Tioda VV., 0102101, VA 20000		
Rivergate				
Lake Dam (aka	37.5935 –	452 Rivergate Drive, Richmond, VA 23238		
Tuckahoe	-77.6331			
Lake Dam)				
Volchers	37.67183	5450 Whittcamp Rd., Goochland, VA 23063		
Dam				

	-78.06136	
Wincott Dam VA075045	37.73470000 0000004 77.8803	2901 Summerchase Lane, Goochland, VA 23063
Windsor Park Lake Dam	37.86928 -78.01638	4369 Windsor Lake Dr., Louisa, VA 23093

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# ATTACHMENT 2: DAM SAFETY CORRECTIVE ACTION FORM

**Instructions:** This form is used to document, report, and act on identified concerns. Please email the completed form with the top portion completed to: <a href="mailto:rhillman@goochlandva.us">rhillman@goochlandva.us</a>. The issue will be tracked and routed to the appropriate department for action.

CORRECTIVE ACTION FORM	Date:				
Name:	Department:				
Phone:	Email:				
ISSUE IDENTIFIED					
Location:	Descrip	tion o	f the issue:		
COUNTY EMERG	ENCY SEI	RVICE	S USE		
Reviewed by:	Departn	nent re	eferred to:		
Corrective Action Needed:					
RESOURCES		U	NIT COST	QUANTITY	LINE TOTAL
Labor:					
Parts:					
Supplies:					
			TOTAL COS	ST ESTIMATE	
Additional Notes or Instructions:				Approved by:	

# ATTACHMENT 3: PROPOSED ANNEX CHANGE FORM

**Instructions:** This form is used for a change to the Dam Safety Annex. Please email the completed form with the top portion completed to: <a href="mailto:rhillman@goochlandva.us">rhillman@goochlandva.us</a>.

ANNEX CHANGE FORM		Date:			
Name:		Department:			
Phone:		Email:			
CHANGE REQUESTED					
Annex Page(s)	Reason for Change:				
	Proposed Change Language	:			
COUNTY EMERGENCY SERVICES USE					
	COUNTY EMERGI	ENCY SERVICES USE			
Reviewed by:	COUNTY EMERGI	Change Approved? Yes  No			
	COUNTY EMERGI guage: Same as above				
Approved Change Lan	guage: Same as above	Change Approved? Yes No			
	guage: Same as above				
Approved Change Lan	guage: Same as above	Change Approved? Yes No			