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*Appendix C*  
*Proposed Barrier Locations*

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## Proposed Barrier Location Details

Drainage	Estimated Debris Volume Loss from 2013 Events (yd <sup>3</sup> )	50% Debris Volume Loss (yd <sup>3</sup> )	Location	Distance from Road (ft)	Distance to Upstream Barrier (ft)	Height (ft)	Bottom width (ft)	Top width (ft)	Barrier Capacity (yd <sup>3</sup> )	Estimated System Retention Capacity (yd <sup>3</sup> )
C	8031	4015	1	50	70	16	13	26	356	1063
			2	120	90	16	13	26	352	
			3	210	N/A	16	13	26	356	
D	16220	8110	1	320	180	20	13	33	1186	4757
			2	500	200	20	13	33	1190	
			3	700	200	20	13	33	1190	
			4	900	N/A	20	13	33	1190	
F	4852	2426	1	160	120	20	13	26	721	2227
			2	280	150	20	13	26	753	
			3	430	N/A	20	13	26	753	

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*Appendix D*  
*Barrier Cost Estimate*

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### Barrier Cost Estimate Details

Drainage	Estimated System Retention Capacity (yd <sup>3</sup> )	Barrier Style	Barrier Quantity in Drainage	Barrier Materials Unit Cost <sup>3</sup>	System Materials Cost <sup>3</sup>	Estimated System Installation Cost <sup>3</sup>	System Cost with 30% Contingency <sup>3</sup>
C	1063	VX160-H6 <sup>1</sup>	3	\$ 26,400	\$ 79,200	\$ 316,800	\$ 514,800
D	4757	UX180-H6 <sup>2</sup>	4	\$ 37,200	\$ 148,800	\$ 669,600	\$ 1,063,920
	670	Detention Basin & Concrete Headwall	1	\$ 20,000	\$ 20,000	\$ 250,000	\$ 325,000
F	2227	VX160-H6 <sup>1</sup>	3	\$ 26,400	\$ 79,200	\$ 316,800	\$ 514,800

<sup>1</sup> Installation costs were estimated to be 4 times the material cost

<sup>2</sup> Installation cost was estimated to be 4.5 times the materials cost due to the need for larger equipment and foundation posts.

<sup>3</sup> Costs based on 2017 dollars

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*Appendix E*  
*Flood Inundation Maps*

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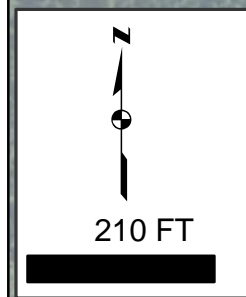


**Town of Jamestown**  
**Flood Extents Map**  
**James and Little James Creeks**  
**1 of 3**

**Flood Extents**

- FEMA Regulatory Floodplain
- 10-YR (912cfs)
- 25-YR (1,502cfs)
- 50-YR (2,095cfs)
- 100-YR (2,777cfs)

Flows listed are below confluence



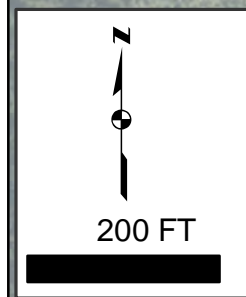


**Town of Jamestown**  
**Flood Extents Map**  
**James and Little James Creeks**  
**2 of 3**

**Flood Extents**

- FEMA Regulatory Floodplain
- 10-YR (912cfs)
- 25-YR (1,502cfs)
- 50-YR (2,095cfs)
- 100-YR (2,777cfs)

Flows listed are below confluence



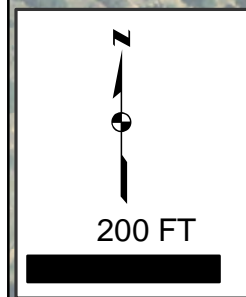


**Town of Jamestown**  
**Flood Extents Map**  
**James and Little James Creeks**  
**3 of 3**

**Flood Extents**

- FEMA Regulatory Floodplain
- 10-YR (912cfs)
- 25-YR (1,502cfs)
- 50-YR (2,095cfs)
- 100-YR (2,777cfs)

Flows listed are below confluence





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*Appendix F*  
*Channel Stability Maps*

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**Town of Jamestown**  
**Channel Stability Map**  
**James and Little James Creeks**  
**1 of 3**

**Potential Channel Stability**  
**Problem Areas**

- 10-YR
- 25-YR
- 50-YR





**Town of Jamestown**  
**Channel Stability Map**  
**James and Little James Creeks**  
**2 of 3**

**Potential Channel Stability**  
**Problem Areas**

- 10-YR
- 25-YR
- 50-YR





**Town of Jamestown**  
**Channel Stability Map**  
**James and Little James Creeks**  
**3 of 3**

**Potential Channel Stability**  
**Problem Areas**

- 10-YR
- 25-YR
- 50-YR

