Office of Regulatory Management

Economic Review Form

Agency name	Virginia Soil and Water Conservation Board
Virginia Administrative	4VAC 50-20
Code (VAC) Chapter	
citation(s)	
VAC Chapter title(s)	Impounding Structure Regulations
Action title	Periodic Review of Impounding Structure Regulations
Date this document	November 15, 2023
prepared	
Regulatory Stage	Periodic Review
(including Issuance of	
Guidance Documents)	

Cost Benefit Analysis

Complete Tables 1a and 1b for all regulatory actions. You do not need to complete Table 1c if the regulatory action is required by state statute or federal statute or regulation and leaves no discretion in its implementation.

Table 1a should provide analysis for the regulatory approach you are taking. Table 1b should provide analysis for the approach of leaving the current regulations intact (i.e., no further change is implemented). Table 1c should provide analysis for at least one alternative approach. You should not limit yourself to one alternative, however, and can add additional charts as needed.

Report both direct and indirect costs and benefits that can be monetized in Boxes 1 and 2. Report direct and indirect costs and benefits that cannot be monetized in Box 4. See the ORM Regulatory Economic Analysis Manual for additional guidance.

(1) Direct & Indirect Costs & Benefits (Monetized)	This table is not required to be completed for a periodic review.	
(2) Present		
Monetized Values	Direct & Indirect Costs	Direct & Indirect Benefits
	(a)	(b)
(3) Net Monetized Benefit		
(4) Other Costs & Benefits (Non- Monetized)		
(5) Information Sources		

Table 1b: Costs and Benefits under the Status Quo (No change to the regulation)

(1) Direct & Indirect Costs & Benefits (Monetized)	This table is not required to be completed for a periodic review.	
(2) Present		
Monetized Values	Direct & Indirect Costs	Direct & Indirect Benefits
	(a)	(b)
(3) Net Monetized Benefit		
(4) Other Costs &		
Benefits (Non-		
Monetized)		
(5) Information Sources		

Table 1c: Costs and Benefits under Alternative Approach(es)

(1) Direct &	This table is not required to be completed for a periodic review.
Indirect Costs &	
Benefits	
(Monetized)	

(2) Present		
Monetized Values	Direct & Indirect Costs	Direct & Indirect Benefits
	(a)	(b)
(3) Net Monetized		
Benefit		
(4) Other Costs &		
Benefits (Non-		
Monetized)		
(5) Information		
Sources		

Impact on Local Partners

Use this chart to describe impacts on local partners. See Part 8 of the ORM Cost Impact Analysis Guidance for additional guidance.

Table 2: Impact on Local Partners

Table 2: Impact on	Local 1 at the 15
(1) Direct &	Direct Costs: These regulations establish the criteria required of dam
Indirect Costs &	owners to "ensure that impounding structures in the Commonwealth are
Benefits	properly and safely constructed, maintained and operated" (§10.1-605 of
(Monetized)	the Code of Virginia). There are approximately 2,600 impounding
	structures ("dam") that meet the thresholds established in the Dam Safety
	Act (§10.1-604.1 et seq of the <i>Code of Virginia</i>); of these dams, 200 are
	owned or maintained by local governments. There are several categories
	of costs associated with owning and maintaining a dam. The Board is
	authorized to establish and collect fees for certain administrative
	activities by §10.1-613.5 of the Code of Virginia; those activities include
	the issuance of operation and maintenance certificates, alteration permits,
	construction permits, and certain engineering analysis. Costs are
	associated with the development of the necessary engineering documents
	such as dam break inundation zone mapping, hazard potential
	classification, emergency action plan development, and inspection
	reports conducted by professional engineers. The costs for the initial
	development of these engineering documents varies tremendously from
	dam to dam but the average estimated cost is \$36,000. There are
	additional routine maintenance costs such as mowing and the removal of
	trees and woody vegetation. If a dam does not meet the performance
	standards established in 4VAC50-20-50 (performance standards required
	for impounding structures), rehabilitation of the dam may be needed.
	These structural improvements may require significant financial
	contributions from the owner. The costs vary dramatically based on

	individual conditions at each dam; however, these rehabilitations can cost from thousands to millions of dollars to the owner. Indirect Costs: There are no known indirect costs to local partners related to this regulation. Direct Benefits: Complying with this regulation ensures that dams are maintained and operated in a safe manner, ensuring public safety. Additional information about a dam that assists with determining the dam's potential risks enables local first responders to react appropriately	
	during a storm event or other disaste Indirect Benefits: There are no know related to this regulation.	
(2) Present		
Monetized Values	Direct & Indirect Costs	Direct & Indirect Benefits
	(a)	(b)
(3) Other Costs &		
Benefits (Non-		
Monetized)		
(4) Assistance		
(5) Information Sources		

Impacts on Families

Use this chart to describe impacts on families. See Part 8 of the ORM Cost Impact Analysis Guidance for additional guidance.

Table 3: Impact on Families

(1) Direct &	Direct Costs: There are no direct costs to families as a result of this
Indirect Costs &	regulatory action.
Benefits	
(Monetized)	Indirect Costs: There are no indirect costs to families as a result of this regulatory action.
	Direct Benefits: There are no direct benefits to families as a result of this regulatory action.

	Indirect Benefits: There are no indirect benefits to families as a result of this regulatory action.	
(2) Present		
Monetized Values	Direct & Indirect Costs	Direct & Indirect Benefits
	(a)	(b)
(3) Other Costs & Benefits (Non- Monetized)		
(4) Information Sources		

Impacts on Small Businesses

Use this chart to describe impacts on small businesses. See Part 8 of the ORM Cost Impact Analysis Guidance for additional guidance.

Table 4: Impact on Small Businesses

(1) Direct &	Direct Costs: There are no direct cos	sts to small businesses as a result of	
Indirect Costs &	this regulatory action.		
Benefits			
(Monetized)	Indirect Costs: There are no indirect costs to small businesses as a result of this regulatory action.		
	Direct Benefits: Many engineering a businesses. These regulations requirelated to the development of hazard classification potential, emergency a inspection reports conducted by a prequirements may present opportunity. Indirect Benefits: There are no indirect sult of this regulatory action.	re engineering documents and studies dinundation maps, hazard action plan development, and rofessional engineer. These ties for certain small businesses.	
(2) Present			
Monetized Values	Direct & Indirect Costs	Direct & Indirect Benefits	
	(a)	(b)	
(3) Other Costs &			
Benefits (Non-			
Monetized)			

(4) Alternatives	
(5) Information Sources	

Changes to Number of Regulatory Requirements

Table 5: Regulatory Reduction

For each individual action, please fill out the appropriate chart to reflect any change in regulatory requirements, costs, regulatory stringency, or the overall length of any guidance documents.

Change in Regulatory Requirements

VAC	Authority of	Initial Count	Additions	Subtractions	Net
Section(s)	Change				Change
Involved*					
	Statutory:				
	Discretionary:				
				Total Net	
				Change of	
				Statutory	
				Requirements:	
				Total Net	
				Change of	
				Discretionary	
				Requirements:	

Cost Reductions or Increases (if applicable)

VAC Section(s) Involved*	Description of Regulatory Requirement	Initial Cost	New Cost	Overall Cost Savings/Increases

Other Decreases or Increases in Regulatory Stringency (if applicable)

VAC Section(s) Involved*	Description of Regulatory Change	Overview of How It Reduces or Increases Regulatory Burden

Length of Guidance Documents (only applicable if guidance document is being revised)

Title of Guidance	Original Length	New Length	Net Change in
Document			Length

^{*}If the agency is modifying a guidance document that has regulatory requirements, it should report any change in requirements in the appropriate chart(s).