

DEPARTMENT OF ENVIRONMENTAL QUALITY  
 APPLICATION FOR STORMWATER LOCAL ASSISTANCE FUND (SLAF)  
 STORMWATER CAPITAL PROJECTS

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**SECTION A - ORGANIZATIONAL DATA**

Name of Project:	Restoration of Wolf Creek at Goode Park, Phase 1		
Name of Applicant:	County of Roanoke, Virginia		
Applicant Address:	5204 Bernard Drive P.O. Box 29800 Roanoke, VA 24018		
Contact Person:	David Henderson		
Phone:	540.772.2083	Email:	dhenderson@roanokecountyva.gov
Name of Engineer:	Freese and Nichols, Inc.		
Engineer Address:	531 North Liberty Street Winston Salem, NC 27101		
Contact Person:	Bryan Dick		
Phone:	864.506.1465	Email:	bryan.dick@freese.com

**SECTION B - PROPOSED FUNDING**

**PROJECT FUNDING**

a) Amount of SLAF Grant Funds Requested	\$300,000		
	<b>Source of Local Match Funds</b>	<b>Amount</b>	<b>CHECK BOX IF COMMITTED</b>
1	General Revenue ( Capital Improvement Program for FY2020 and FY2021)	\$300,000	<input checked="" type="checkbox"/> Yes*
2			
3			

\* In approved Capital Improvement Program, subject to final appropriation action by the Board of Supervisors

b) Total Other Funding Available (1 + 2 + 3...)*	\$300,000
c) Total Project Cost (a + b)	\$600,000

\*This amount must be at least equal to the amount of Grant Funds being requested.

**SECTION C – WATER QUALITY DATA**

**Location of Project**      Latitude            Longitude     

(Latitude and Longitude of project is a required entry on this application)

Name of Stream / Waterbody impacted by stormwater runoff being addressed by the project

River Basin for Receiving Stream / Waterbody

## **SECTION D -BRIEF PROJECT DESCRIPTION AND STATEMENT OF NEED**

(attach additional pages if necessary)

Roanoke County has a TMDL for sediment for the Roanoke River. Wolf Creek is a tributary of the Roanoke River and it is experiencing bank erosion that is delivering high loads of sediment to the Roanoke River.

This project will apply natural stream restoration principals to diminish the bank erosion.

See **Attachment A - Technical Memorandum for Conceptual Stream Restoration of Work Creek in Goode Park**, prepared by Freese and Nichols for more information.

## **SECTION E -POLLUTANT REDUCTION**

The calculated Total Pounds (Per Year) of Total Phosphorous reduced from stormwater as a result of this project

= 183 lb/yr pounds per year

## **SECTION F - READINESS-TO-PROCEED**

### **ANTICIPATED SCHEDULE**

	<i>Schedule Item Description</i>	<i>Date</i>
a.	Notice to Proceed on Design	July 2019
b.	Completion of Plans/Specifications	October 2019
c.	Plans and Specs Approved	April 2020 (Assumes 6 months for permitting)
d.	Advertise for Bids	May 2020
e.	Bid Opening	June 2020
f.	Award Contracts	July 2020
g.	Estimated Construction Time (expressed in months)	6

## **SECTION F - READINESS-TO-PROCEED**

### **PROJECT STATUS**

	<b>Check One</b>
1. Final Designs approved by Locality?	
2. Design Plans submitted and under review by Locality?	
3. Preliminary / Concept Engineering complete?	X
4. Executed engineering contract with approved task order and notice to proceed issued for the project?	
5. Project included in the CURRENT YEAR Capital Improvement Plan?	
6. Project identified in Comprehensive Stormwater Management Plan, Watershed Management Plan, or TMDL Action Plan?	

	<b>Yes</b>	<b>No</b>
7. Is acquisition of land and/or easements necessary to complete project?		X
8. Has the land and/or easements necessary for the project already been acquired?		

## **SECTION G -PROJECT BUDGET INFORMATION**

Legal / Administration	
Land, Right-of-Way	
Architectural Engineering Basic Fees	\$106,400
Project Inspection Fees	\$28,000
Other (Explain)	
Stormwater BMP Construction	\$443,428.57
Contingencies	\$22,171.43
<b>TOTAL*</b>	<b>\$600,000</b>

\*This amount should be the exact same as the amount in Item c) Total Project Cost, Section B, Page 1.

## **SECTION H**

	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Has applicant adopted a dedicated source of revenue to implement a stormwater control program in accordance with §15.2-2114? (If so, attach documentation)		X	
Is the applicant subject to an MS4 discharge permit in accordance with §62.1-44.5?	X		
Does the project address requirements of your MS4 permit?	X		

If yes, explain:

Roanoke County has a MS4 permit that requires it to make reasonable progress towards meeting the sediment TMDL in the Roanoke River. Wolf Creek is tributary to the Roanoke River. Decreasing bank erosion on Wolf Creek is a cost effective means of decreasing sediment delivered to the Roanoke River.

Name of MS4 Permittee if different from Applicant

## **SECTION I - ASSURANCES AND CERTIFICATIONS**

The undersigned representative of the applicant certifies that the information contained herein and the attached statements and exhibits are true, correct and complete to the best of their knowledge and belief. The undersigned also agrees to clarify or supplement information pertaining to this application upon request.

Name:

Title:

Signature:

Date:

## **SECTION J - ATTACHMENTS**

Include all required attachments appropriate for your application. The following is a list of potential attachments:

- 1) [Commonwealth of Virginia substitute W-9 form](#) from DEQ web site (required of all applications, Section A) **Included**
- 2) Documentation of project costs for conventional technology and for green technology (only required if applicant chooses incremental cost option for a green infrastructure project, Section B).
- 3) Documentation supporting site selection process and photographs of the reach of stream (only required for stream restoration projects, Section D). [See Attachment A - Technical Memorandum for Conceptual Stream Restoration of Wolf Creek in Goode Park, and Attachment B - Documentation of Site Selection Process](#)
- 4) Documentation supporting the Pollution Reduction methodology, calculations, text, etc. (Section E)  
[See Attachment A - Technical Memorandum for Conceptual Stream Restoration of Wolf Creek in Goode Park](#)
- 5) Documentation of highest project status option. (Section F)  
[See Conceptual Plans in Attachment A - Technical Memorandum for Conceptual Stream Restoration of Wolf Creek in Goode Park](#)
- 6) Information substantiating project budget figures. (Section G)  
[See Attachment A - Technical Memorandum for Conceptual Stream Restoration of Wolf Creek in Goode Park](#)
- 7) Documentation of Dedicated Revenue Source for Stormwater Management Program. (Section H)

**Virginia Department of Environmental Quality**  
**Instructions for the Application for the Stormwater Local Assistance Fund**

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### **Section A – Organizational Data**

Provide the project name as it appears (or will appear) on the design plans. Provide the contact information for the locality and for the engineering firm that will be designing the project if available.

**Documentation:** Commonwealth of Virginia substitute W-9 form must be provided.

### **Section B – Proposed Funding**

Provide the amount of SLAF funds requested. Provide the source(s) and amount(s) of local match funds. Check the box on each line if these funds have been committed for this project. Provide the total amount of local match funds. Provide the total project cost. SLAF grants provide up to 50% of eligible project costs. The applicant must identify anticipated source(s) and amounts(s) of local match funds.

[If the project is a green infrastructure project (such as a green roof or permeable pavement) that is in place of a conventional technology, the applicant has the option of requesting funding for only the incremental project costs if desired. If so, the applicant must provide both the projected cost of the conventional technology and the green technology to substantiate the request for the incremental costs. The incremental costs will then be used to determine the project's cost effectiveness as well as the SLAF grant amount requested.]

### **Section C – Water Quality Data**

Provide the latitude and longitude for the center of the project, in decimal degrees. Provide the name of the stream / waterbody that is being addressed by the project. Provide the river basin for the above mentioned stream / waterbody.

### **Section D – Project Description & Statement of Need**

Provide a description of the proposed project, including the type of project (BMP), area treated by the BMP in acres, any TMDL or impaired water addressed by the project, if the project is relevant to a TMDL Implementation Plan, and other relevant information pertaining to the project. Describe the need for the proposed project. Needs should be in the areas of restoring, protecting, or preventing pollution in State waters.

[If the project is a stream restoration, you must also provide a written description of the site selection process for the project, including documentation (e.g. Rosgen stream channel classification, watershed study, conceptual design plans, existing BMPs within the watershed, etc.) and photographs of the reach of stream to be restored.]

### **Section E: Pollutant Reduction**

The established methodology for calculating the TP reduction is outlined in [Attachment A of the SLAF Guidelines](#).

**Documentation:** To verify pollutant reduction calculations, the following information is required with the application:

1. Print out the Site Data tab of the Virginia Reduction Method spreadsheet showing the data entered and the resultant TP load. Supporting documentation with rationale for parameter selection must be provided to demonstrate that the parameter estimates are valid for the project.
2. Provide a narrative explaining which pollution reduction calculation methodology was selected, why it is appropriate for the project, the calculated phosphorus load reduction, any assumptions with supporting documentation, and parameters selected with rationale for selection (must be provided to demonstrate that the estimates are valid for the project.) All supporting calculations must be provided.
3. If the project is a retrofit of an existing BMP, provide photographs showing the BMP before the upgrade. Provide a narrative describing the upgrade / enhancement and the incremental phosphorus reduction achieved utilizing the SLAF Guideline references, with supporting documentation. Rationale and calculated estimates for the BMP's current (former) efficiency must be provided.

### **Section F – Readiness-To-Proceed**

For items 1-6, choose the highest (most advanced) project status option that accurately reflects the current status of the project.

For items 7-8, check either yes or no, as appropriate.

**Documentation:** Only provide documentation of the highest (most advanced) status option:

- For item 1, provide final design plans and local approval.
- For item 2, provide design plans.
- For item 3, provide concept engineering plan.
- For item 4, provide executed contract, task order, and notice to proceed.
- For item 6, provide Comprehensive SWM Plan, Watershed Management Plan, or TMDL Action Plan.
- For item 8, attach documentation of acquisition.

### **Section G – Project Budget Information**

Provide a breakdown of the project budget. The contingency amount should be no more than 5% of the Stormwater BMP Construction amount. Ensure that the total is the same amount as the Total Project Cost in Section B of the application.

**Documentation:** Provide information such as professional services task orders, engineer's opinion of probable cost, and appraisals/basic administrative reports to substantiate the project budget figures.

## **Section H: Locality stormwater data**

Check questions on the locality's dedicated revenue source for stormwater and MS4 permit and explain the project's relationship to the MS4 permit if applicable.

**Documentation:** Attach evidence of the dedicated revenue source for a stormwater management program.

## **Section I – Assurances and Certifications**

Provide name, title, signature, and date.

## **Section J – Attachments**

Provide all appropriate attachments.