Financing Watershed Protection & Restoration

July 17, 2018





ENVIRONMENTAL FINANCE CENTER

PROJECT REFRESHER: BACKGROUND

Intent

- Proposal to NFWF to provide technical assistance to establish an equitable sharing of collaborative PRP costs.
- Explore how to generate revenue to support this effort.

Reality

- Communities pushed forward as NFWF grant review and awarding processes progressed.
- Collective gameplan was established before EFC engagement.

Adjustment

- Revisited where collective needs remain given the progress made.
- Shared decision to pivot to considering how collaborative efforts might translate to shared O&M scenarios.

STORMWATER PROGRAM FINANCE ANALYSIS AND DEVELOPMENT

Step 1: Assess current stormwater program

Step 5: Develop a financing strategy to support budget

Ongoing: Develop and implement outreach strategy! Step 2: Begin evaluating future needs and identify programmatic gaps

Step 4: Develop and finalize proposed stormwater program budget Step 3: Determine where program fits into level of service and evaluate costs

COMPONENTS OF A STORMWATER PROGRAM

- Capital Improvements
- Operations and Maintenance
- Public Education and Involvement
- Technical Support
- Engineering and Planning
- Regulation and Enforcement
- Administration
- Billing and Finance





ORGANIZATIONAL & POLITICAL CHALLENGES

- Responsibilities dispersed across broad group
- Large capital costs and evolving legislative & environmental landscape
- Science, water quality
- Need for better data and tracking
- Requires staff capacity and partnerships
- Need for stakeholder education & engagement
- Long term operations and maintenance

Warrington Township, PA



DEVELOP A FINANCING STRATEGY TO SUPPORT BUDGET NEEDS

Identify appropriate funding for budget needs

GENERAL FUND

- Staff
- Engineering
- Monitoring
- Asset management
- Training and technology

GRANT

- Demo projects
- Initial SW mngt support

Partnership

- Education and outreach
- GIS services
- BMP projects

Fee System

- BMP projects
- Long-term
 SW mngt
 support
- 0&M



BMP OPERATIONS AND MAINTENANCE

Operations

Administration, management and non-maintenance activities necessary to keep BMP safe and functioning as planned

 Examples: planning and conducting inspections (regular and after significant weather events); planning and scheduling maintenance; annual reporting; staff training

<u>Maintenance</u>

Ensuring that individual components and structures are achieving objectives in terms of safety and function

• Examples: vegetation management; repair or replacement of failed components

Use 1 – 7% of project costs to estimate O & M



LEBANON COUNTY PRP

Stormwater Basin Retrofits

 If basins are mostly on private land, focus will be more on operations – ensuring inspections are completed and annual reporting information shared.

Streambank Restoration

• Implementation, land ownership and O & M responsibilities maybe be on Consortium or shared with other entities.





STORMWATER BASIN RETROFIT

30 projects

Estimates range from \$12,000 to \$75,000

- Average = \$21,433
- Total = \$643,000
- O & M Budget (1-7%)
- Per project (based on average) = \$214 to \$1500
- Total = \$6430 to \$45,000





STREAMBANK RESTORATION

12 projects

Cost estimates ranging from \$255,000 to \$1,353,000

- Average = \$565,000
- Total = \$6,780,000
- O & M Budget (1-7 %)
- Per project (based on average) = \$5,650 to \$39,550
- Total = \$67,800 to \$474,600





SAMPLE APPROACHES FOR BMP O & M ACTIVITIES

- Project-by-project agreements
- Shared services agreement among interested municipalities
- Separate collaborative agreement among any interested municipalities
- Include O & M activities and costs in existing consortium structure

ADDITIONAL CONSIDERATIONS



- Track current O & M costs how are the existing BMPs being maintained? How much is it costing you?
- Add O & M costs into project estimates and RFPs – if municipality conducts O & M, it could be considered as match for grant applications plus
- Consider potential service providers for O & M – watershed organizations, conservation district, land trusts with stewardship programs