Nonpoint Source (NPS) Program

PENNVEST Funding For:
Non Traditional Water Quality Projects

Brion Johnson, Deputy Executive Director
Funding Summary

- Projects Approved:
  - 3,082
    - 957 Water
    - 1,444 Waste Water
    - 115 Brownfield
    - 3 Acid Mine Drainage
    - 115 Storm Water
    - 465 On-Lot
    - 83 Non Point Source

- Total Funding approved to Date:
  - $6.9 Billion
Partnering with DCNR

- PENNVEST has a history of working with other state and local entities to maximize resources and improve water quality.
- DCNR is a strong partner in the development of traditional and alternative solutions to water quality issues impacting local communities.
Nonpoint Source Pollution

- Water pollution where the source of contaminants does not come from a discrete point

- Three largest causes of stream impairment in Pennsylvania are from nonpoint sources:
  - Abandoned Mine Drainage
  - Urban Stormwater Runoff
  - Agriculture
Categories of NPS pollution projects

- Agriculture
- Urban Runoff
- Abandoned Mine Drainage
- Brownfields

Potentially other categories to be added in the future
Non-Point Source in Parks

- Low Impact Storm Water Strategies
- Best Management Practices
  - Pervious Asphalt
  - Bio retention/Rain Gardens
  - Emergent Plantings
- Tree Plantings
- Erosion and Sedimentation Control
Types of Specific Practices

- **Agricultural BMPs**: BMPs in NRCS Technical Manual

- **Urban Runoff**: BMPs in DEP Stormwater Best Practice Manual (Limited to “Developed” areas identified in County Comprehensive Plan)

- **AMD & Brownfields**: Specific lists of BMPs in the Preliminary Program Design manual
Technical requirements

- **Design completion**
  - Definitive problem statement with analysis of alternatives
  - Site hydrology and system hydraulics
  - Plan and profile drawings
  - Practices to be installed and method of installation

- **Implementation plan**
  - Schedule for construction
  - Permits must be in hand by cutoff date
  - Inspection schedule
  - Operation and maintenance provisions

- **Environmental review**
  - UER Guidance
Technical requirements

- **Consistent with:**
  - Act 167 Stormwater Management Act
  - County or Watershed Plan OR
  - Municipal Ordinance for stormwater control
    OR
  - NPDES MS4 permit required work AND

- **Land Use Planning**
  - Solicit comments from County planning and local government
DEP Priority Rating Criteria

- Water Quality: 40%
- Compliance: 10%
- Planning: 25%
- Benefit-to-cost: 20%
- Safety: 5%
Eligible Applicants

- Governmental entities only:
  - Municipalities
  - Municipal Authorities
  - County Conservation Districts

- Working on a statutory fix to include:
  - Watershed Organizations
  - Nonprofit Organizations
  - Other Private Entities
Towamencin Township – Fischer’s Park

- Treat Stormwater Run-off for:
  - 85% Suspended Solids
  - 85% Phosphorus
  - 30% nitrates
Towamencin Township – Fischer’s Park

- $281,964
- 35,910 square feet of pervious paving
- Infiltration Bed
- Store 9,170 cubic feet of storm water
OhioPyle – Green Infrastructure Project

- Reduce Inflow and infiltration
- Eliminate Hydraulic Overloads at WW Plant
- Remove storm water during peak flows
OhioPyle Green Infrastructure Project

- $1,312,718
- 22,000 square feet of pervious paving
- Rain Barrels
- 2 cisterns
- curbing
Multi-Generational Park a Hit in Lewisburg

(LARA) was created. One of the initial tasks for the newly established Authority was to consider renovations to the existing St. Mary’s Street Park. The park built over 20 years ago was essentially located in the 100-year floodway of Limestone Run, a tributary of the Susquehanna River basin. The existing community pool, tennis courts, outdoor ice rink, basketball courts, soccer fields, pavilion, and nature walk have been in need of renovation for many years.

Residential development surrounding the park lacked the necessary stormwater facilities to capture post development runoff. Combined with the inadequately designed stormwater facilities, lack of slope to Limestone Run, and high seasonal water table the low-lying, flat parkland was frequently flooded. For extended periods, portions of the park were open to the elements, kept patrons from using the facilities, and kept patrons from using the facilities on several occasions...
Nutrient Credit Trading

- Problem: wastewater treatment plants face potentially expensive upgrades in order to meet nitrogen and phosphorous discharge limits to comply with Chesapeake Bay requirements.

- This effort is aimed at facilitating nutrient credit trades to foster a less expansive solution for wastewater treatment plants to meet their discharge requirements.
The fundamental issue inhibiting nutrient credit trades is risk in the nutrient credit market.

PENNVEST, working with DEP, has established itself as the clearinghouse for nutrient credits sales in Pennsylvania. We both buy and sell nutrient credits in order to reduce market risk for participants.

Forward and Spot Auctions
How to apply

- Contact the PENNVEST Project Specialist for your area of the state
- Participate in a planning consultation meeting with PENNVEST and DEP
- Submit application through PENNVEST website: www.pennvest.state.pa.us
PENNVEST CONTACTS

- **PV Region 1** – Dave Henning  
  717-783-4490; dahenning@pa.gov  
  Northwest and North Central Pennsylvania

- **PV Region 2** – Larry Gasparato  
  717-783-6673; lgasparato@pa.gov  
  Southwest Pennsylvania

- **PV Region 3** – Tess Schlupp  
  717-783-8618; tschlupp@pa.gov  
  South Central and Southeastern Pennsylvania

- **PV Region 4** – Mike Gallagher  
  717-783-4488; mgallagher@pa.gov  
  Northeastern Pennsylvania
PENNVEST MEETING SCHEDULE

Meets quarterly with application submittals due 8 weeks in advance.

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PENNVEST Website

http://www.pennvest.state.pa.us

SPOTLIGHT

PENNVEST Board Meetings

The Pennsylvania Infrastructure and Investment Authority (PENNVEST) holds regularly scheduled Board Meetings. For more information on board meetings or to find out how you can participate, please select Board Meetings from the left navigation.

Disaster Funding

Questions on Disaster Funding for impacts from the 2011 Irene and Lee Hurricanes?

Contact Brion Johnson at (717) 783-6798 or email bjohnson@pa.gov

Nutrient Credit Auctions

PENNVEST holds Nutrient Credit Trading Auctions throughout the year. For more information about Online Auctions or to find out how you can participate, please select Nutrient Credit Trading from the left navigation.

Recent News

Select Month and Year January 2012

JANUARY 2012

No news releases were found for the selected month.
Questions or Follow-up?

Brion Johnson: 717-783-6798
bjohnson@pa.gov

PENNVEST in general: www.pennvest.state.pa.us

To find a Project Specialist by county, go to the homepage of our website and click on the “Regional Assistance” link under the map on the left-hand side.