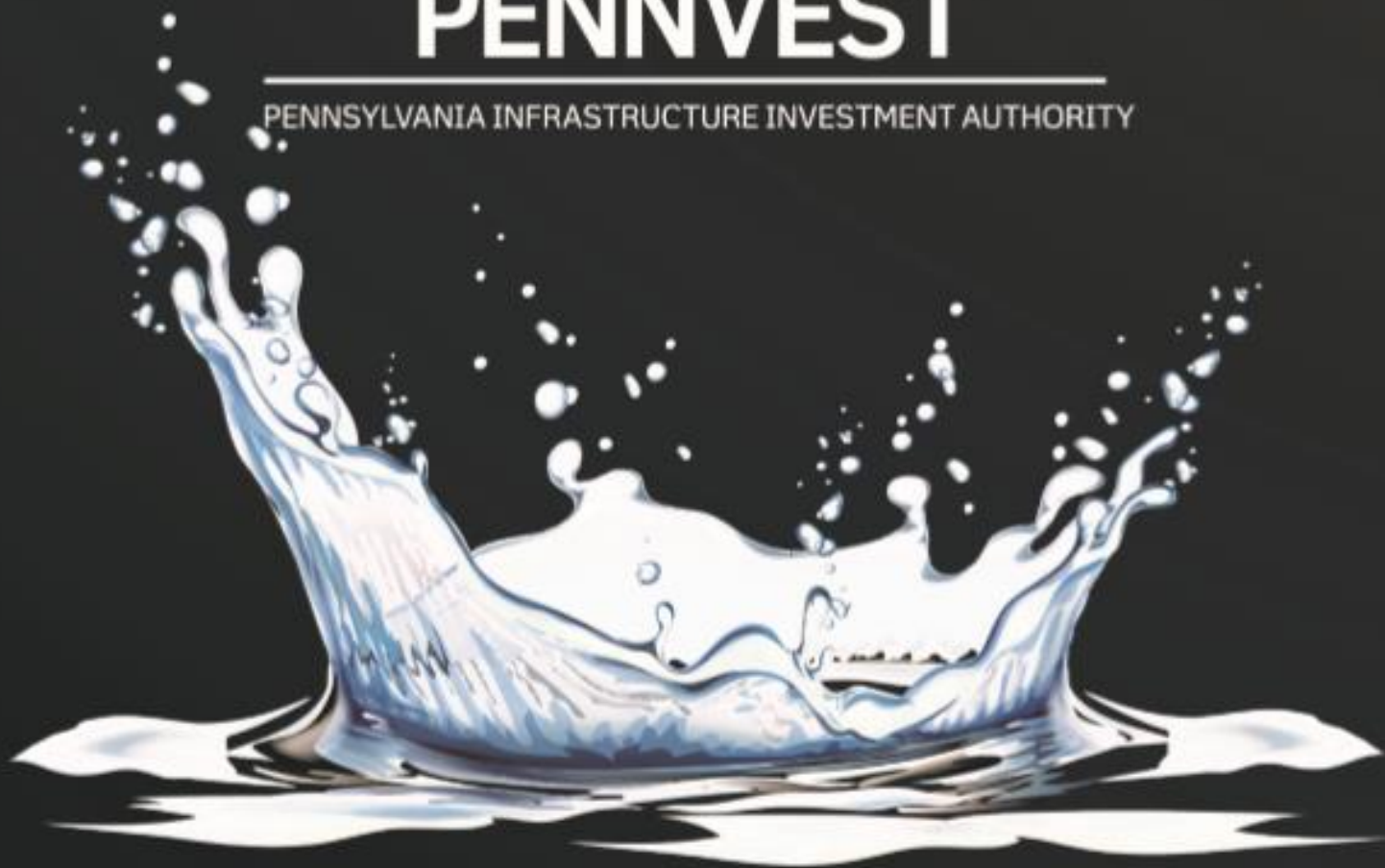




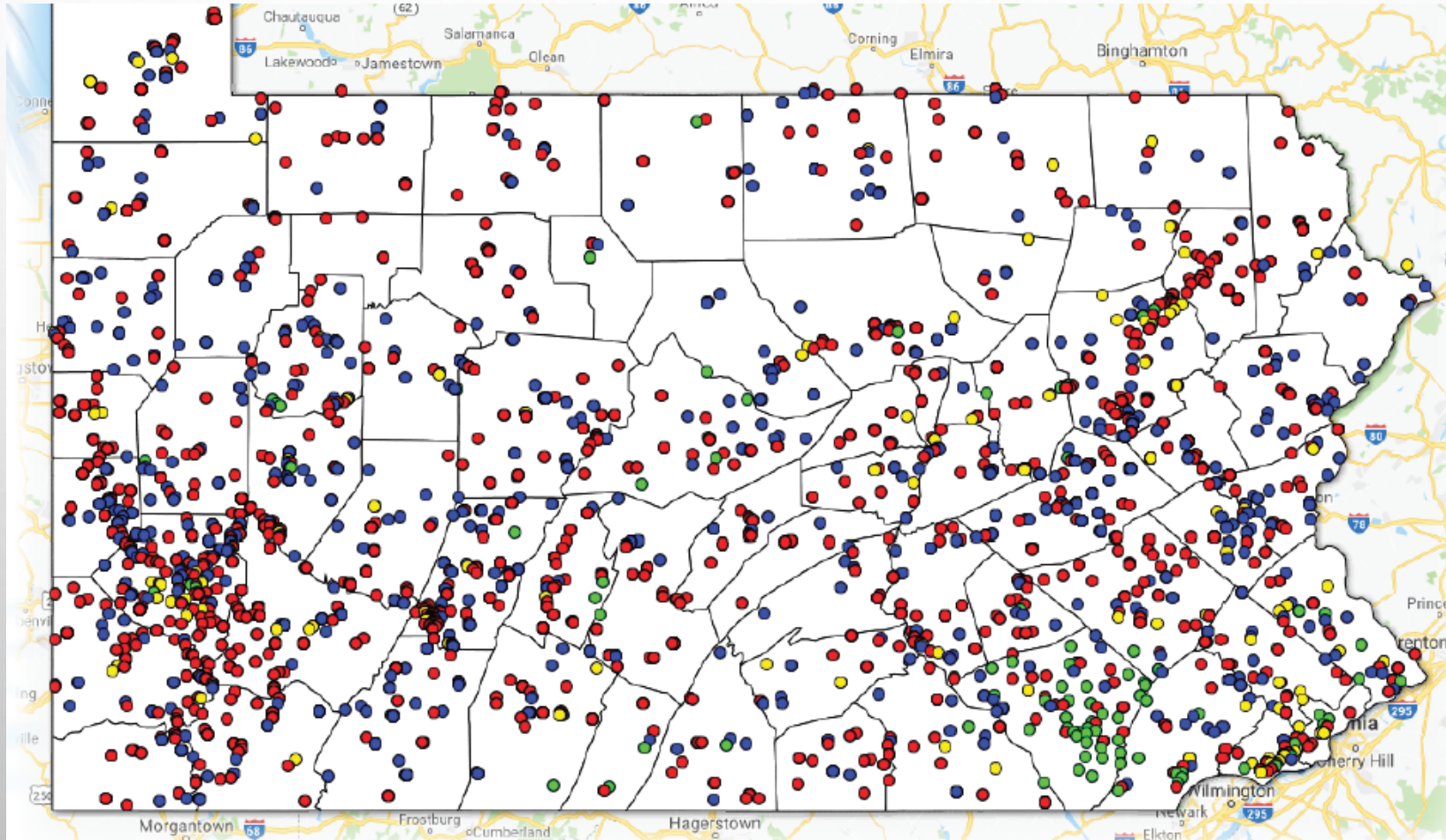
PENNVEST

PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY



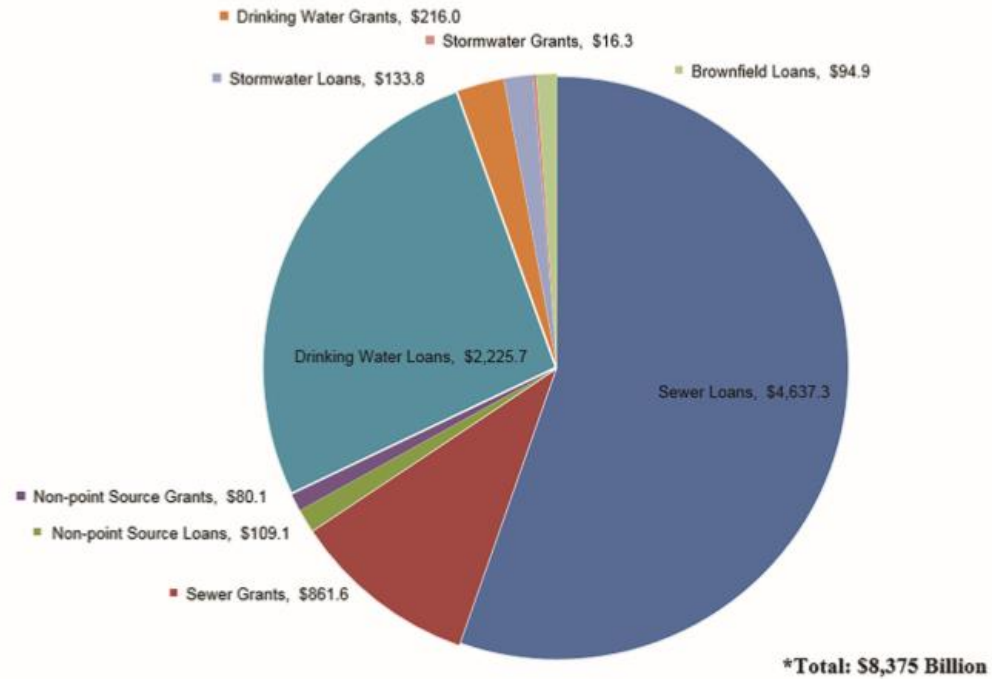
30 Years of Funding Clean Water Projects

APPROVED PROJECTS 1988 THROUGH JUNE 30, 2018

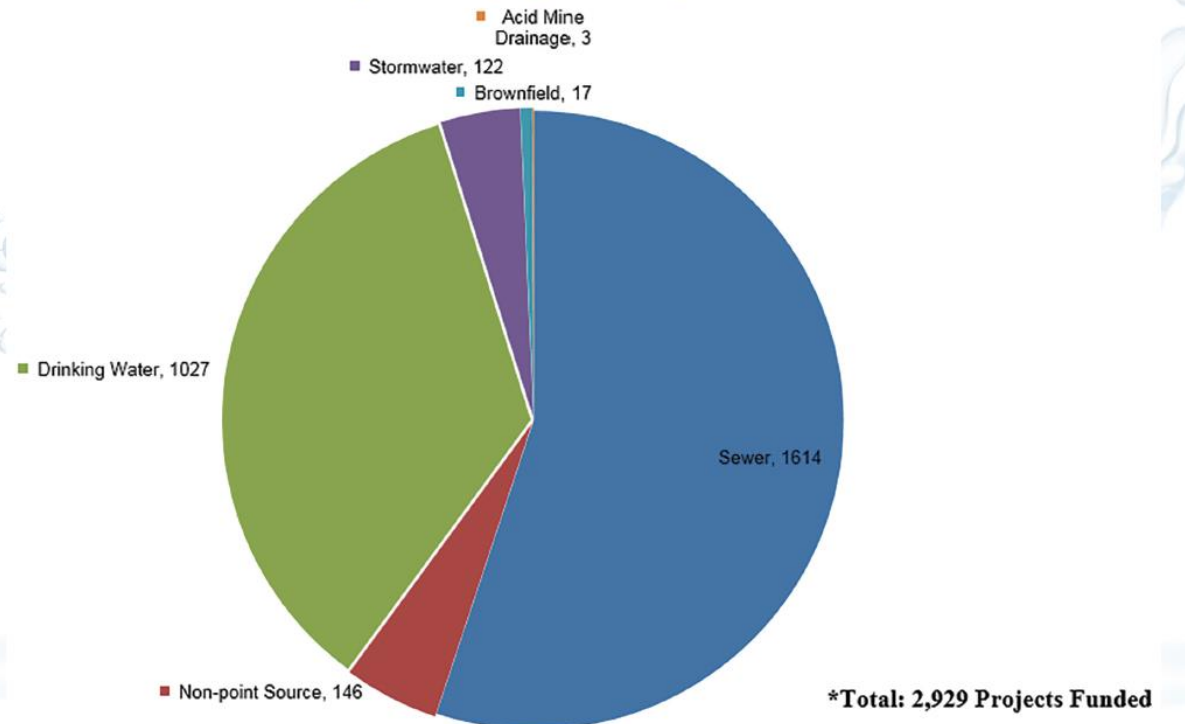


PENNVEST 1988 TO 2018

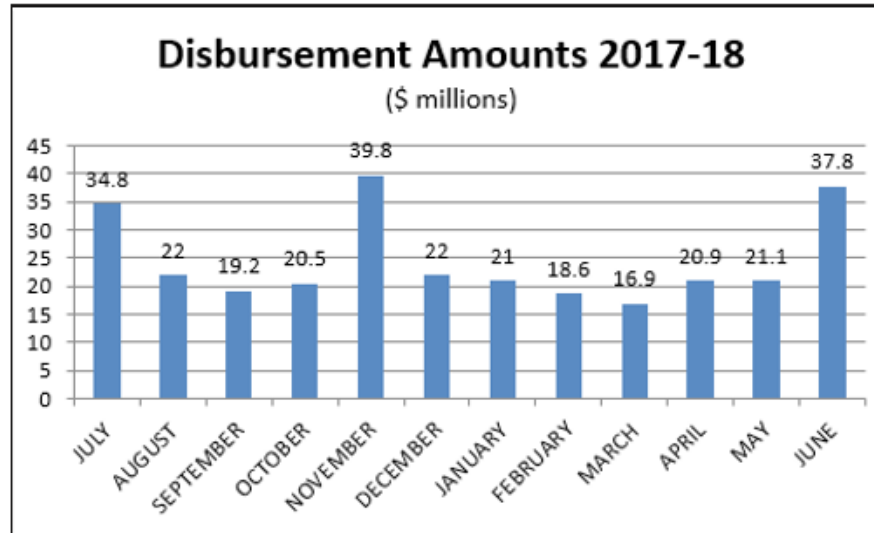
**Total PENNVEST Funding
(millions of dollars)**



**Total PENNVEST Funding
(number of projects funded)**

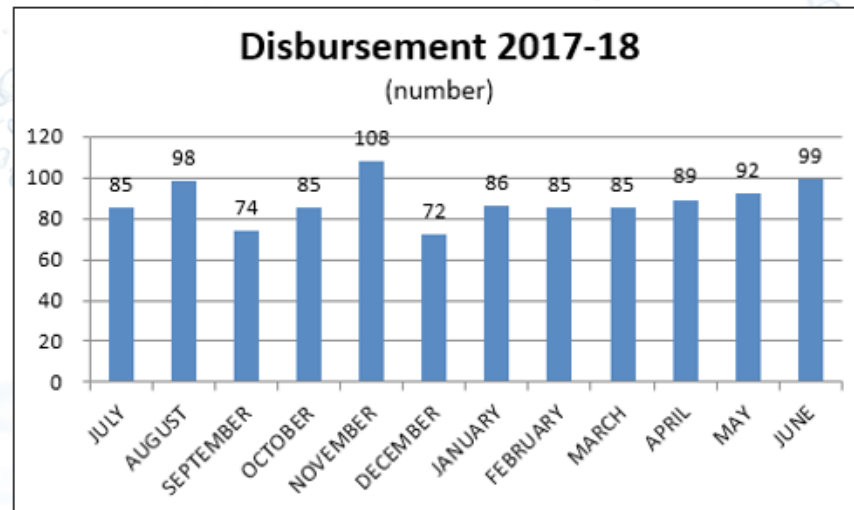


DISBURSEMENTS



All Web Based

Less than 22-day average turnaround



INTERNET BASED PROCESS

- APPLICATION
- PROJECT REVIEW
- PROJECT RECOMMENDATIONS AND BOARD MEETINGS
- PROJECT SETTLEMENT
- CONSTRUCTION DISBURSEMENT
- CONSTRUCTION CLOSEOUT
- REPAYMENT



*We have changed the way that agencies look at administering programs.
The entire process is WEB BASED – Start to Finish*

VIRTUAL OFFICE BASED



- Lower Cost Associated with Office Space and parking
- No down-time issues due to traffic problems associated with the commute to the office
- Reduced absenteeism
- Increased productivity
- Increased customer service
- 24-7 access to the “office” and files.
- Collaboration
- Less travel time to and from Harrisburg allows for more time available for field staff to work one on one.

ESSENTIAL ISSUES

- **NEED FOR INVESTMENT TO COVER NORMAL REPLACEMENT COSTS IN EXISTING TRADITIONAL WATER & SEWER INFRASTRUCTURE**
- **LEAD IN WATER DISTRIBUTION SYSTEMS**
- **PFOS / PFOA**
- **REGIONAL / CHESAPEAKE BAY NUTRIENT AND SEDIMENT REDUCTIONS**
- **MS4**
- **MARCELLUS SHALE IMPACTS ON WATER RESOURCES**
- **LEGACY POLLUTION – AMD/BROWNFIELD**
- **SUPPORTING ECONOMIC DEVELOPMENT WHILE ENSURING COMPLIANCE**
- **FINDING THE BEST FUNDING RESOURCES**

LEAD SERVICE LINES



Contractors in 2017 dig up water lines to homes in Perry North to determine if they are made of lead. The Pittsburgh Water and Sewer Authority plans to replace all lead water lines in its service area.

PFOS/PFOA



Contact: Tina M. O'Rourke
(215) 672-8011
torourke@horshamwater-sewer.com

FOR IMMEDIATE RELEASE: May 23, 2016

HORSHAM WATER & SEWER AUTHORITY COMPLIES WITH RECENT EPA HEALTH ADVISORY

On May 19, 2016 the United States Environmental Protection Agency (EPA) issued a Health Advisory level of 70 parts per trillion (ppt), or 0.07 parts per billion (ppb), as the combined concentration of perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) in drinking water. The Horsham Water & Sewer Authority (HWSA), with the support of Horsham Township, immediately shut down

only wells. Only with the health advisory. The other well, which tested abundance of caution on the part of HWSA and


EPA hosts marathon meeting on contaminated water supplies in Bucks, Montco

By Jennifer Lynn - July 25, 2018

Listen 6:09



Residents listen to a panel of experts speaking about water contamination around two former military bases. (Emma Lee/WHYY)



FACT SHEET

PFOA & PFOS Drinking Water Health Advisories

Overview

EPA has established health advisories for PFOA and PFOS based on the agency's assessment of the latest peer-reviewed science to provide drinking water system operators, and state, tribal and local officials who have the primary responsibility for overseeing these systems, with information on the health risks of these chemicals, so they can take the appropriate actions to protect their residents. EPA is committed to supporting states and public water systems as they determine the appropriate steps to reduce exposure to PFOA and PFOS in drinking water. As science on health effects of these chemicals evolves, EPA will continue to evaluate new evidence.

Background on PFOA and PFOS

PFOA and PFOS are fluorinated organic chemicals that are part of a larger group of chemicals referred to as perfluoroalkyl substances (PFAS). PFOA and PFOS have been the most extensively studied PFAS chemicals. They have been found in a wide range of products, including: furniture, paper products, and

Toxics from manufacturing turn up in public water systems

THE ASSOCIATED PRESS | Monday, Aug. 13, 2018, 7:18 a.m.



In this Aug. 1, 2018 photo, Lauren Woehr pours bottled water into her 16-month-old daughter Caroline's cup at their home in Horsham, Pa. In Horsham and surrounding towns in eastern Pennsylvania, and at other sites around the United States, the foams once used routinely in firefighting training at military bases contained per- and polyfluoroalkyl substances, or PFAS. EPA testing between 2013 and 2015 found significant amounts of PFAS in public water supplies in 33 U.S. states. (AP Photo/Matt Rourke)



ALERT!

TO UTILITY MEMBERS

Regulatory Advisory

Who: U.S. EPA

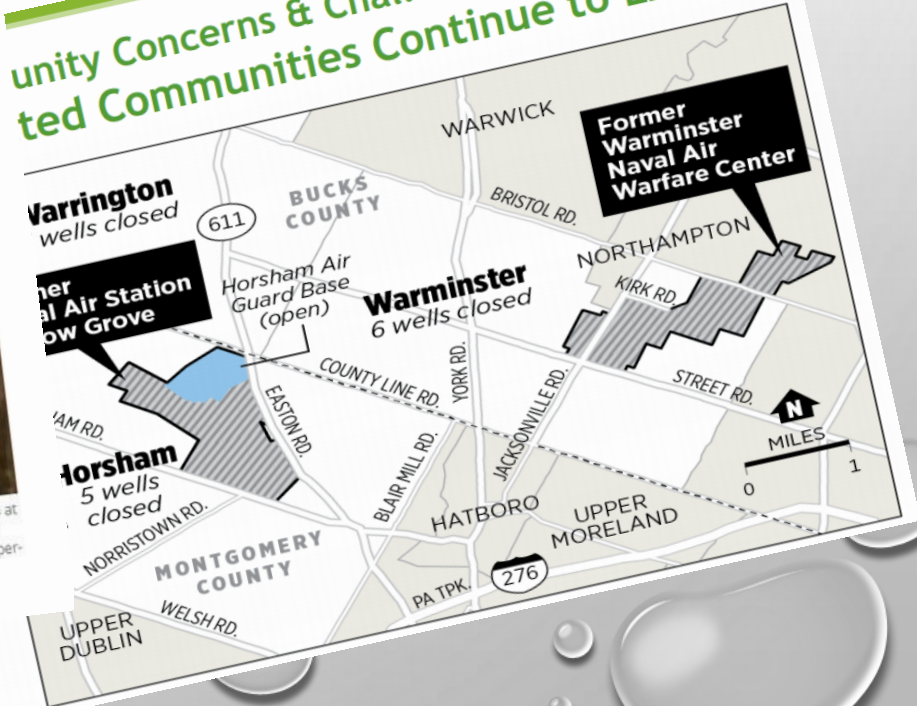
What: Health Advisories issued for PFOA and PFOS

When: Today

U.S. EPA today released health advisories for perfluorooctanoic acid (PFOS) and perfluorooctanesulfonic acid (PFOS).

The lifetime health advisory for each compound is applicable to each compound in drinking water at a level lower than the previously established drinking water health advisory respectively. The consequences of exposure to these chemicals are

Community Concerns & Challenges: Contaminated Communities Continue to Expand



CHESAPEAKE BAY PHASE III WATERSHED IMPLEMENTATION PLAN

- NUTRIENT AND SEDIMENT REDUCTION GOALS
- MUNICIPAL WASTEWATER TREATMENT
- MS4
- AGRICULTURAL
- COUNTY PLANNING AND COORDINATION

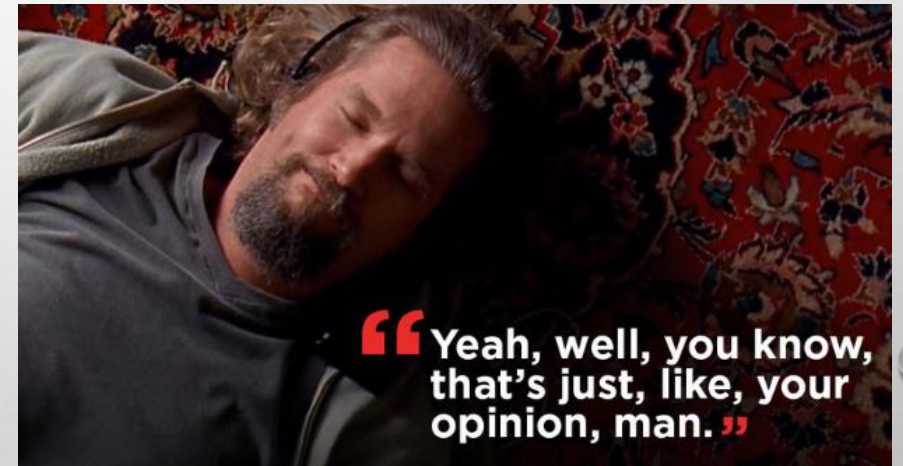


NON POINT SOURCE

- AGRICULTURAL BEST MANAGEMENT PRACTICES
 - PUBLIC – MS4 COMMUNITY PAYS TO INSTALL PRACTICES UPSTREAM
 - PRIVATE – FUNDING TO INSTALL PRACTICES
- WATERSHED PROTECTION
 - PUBLIC – PUBLIC WATER SUPPLY
 - PRIVATE – PUBLIC WATER SUPPLY OR LANDOWNER LAND STEWARDSHIP / EASEMENT
- STORMWATER MANAGEMENT
 - PUBLIC – BASINS, STREETS, ALLEYS, PARKS, ROOFTOPS ETC.
 - PRIVATE – BIG BOX STORES, OTHER LARGE IMPERVIOUS SURFACE AREAS
- BROWNFIELD
 - FOCUS ON REDEVELOPMENT OF EXISTING SITES, USE INFRASTRUCTURE ALREADY IN PLACE TO REDUCE PRESSURE ON DEVELOPMENT OF GREENFIELD SITES
- ACID MINE DRAINAGE
 - ADDRESSING LEGACY ISSUES

THE NEXT 'BIG THING' - MS4

- IDENTIFYING REASONABLE COST & TECHNICAL SOLUTIONS
- REGIONAL APPROACHES / IMPACTS DOWNSTREAM
- COMMUNITY INVOLVEMENT
- FEE STRUCTURES
- PUBLIC PRIVATE PARTNERSHIPS



INNOVATION: THE KEY TO HELP MAKE YOUR PROGRAM FLEXIBLE ENOUGH TO ADDRESS A VARIETY OF NEEDS

- **MUST HAVE A DEMONSTRABLE WATER QUALITY IMPACT**
 - INVESTMENTS RELATED TO WATER QUALITY
 - MUSSELS PROJECT
 - ATMOSPHERIC DEPOSITION MITIGATION
 - DIRECT LOANS TO PROTECT OR PRESERVE WATERSHEDS
 - LYME TIMBER
 - DIRECT LOANS TO HOMEOWNERS
 - REPAIR / REPLACE ON-LOT SYSTEM
 - 1ST TIME CONNECTION TO A PUBLIC SYSTEM
 - REPLACEMENT OF EXISTING LATERAL
 - LINK DEPOSIT
 - WORKING WITH LOCAL/TRADITIONAL LENDERS
 - PROGRAMMATIC FINANCING
 - POSSIBLE TO FUND LARGER PROJECTS OVER A COUPLE OF YEARS AS PART OF A CAPITAL IMPROVEMENT PLAN.
 - SEEDING A SUB-UNIT REVOLVING LOAN FUND
 - PROMISING OPPORTUNITY TO SUPPORT SMALLER PROJECTS WITH A LOCAL PRIORITY
 - USE \$ FOR TECHNICAL ASSISTANCE TO BRING PROJECTS IN THE DOOR



PENNVEST CONTACTS



- **PV REGION 1** – DAVE HENNING
717-783- 4490; DAHENNING@PA.GOV
NORTHWEST AND NORTH CENTRAL
PENNSYLVANIA



- **PV REGION 2** – DAN MIKESIC
717-783-6673; DMIKESIC@PA.GOV
SOUTHWEST PENNSYLVANIA



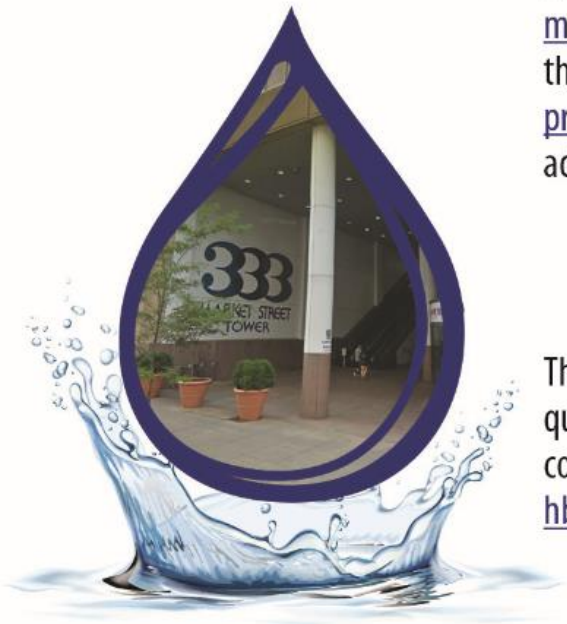
- **PV REGION 3** – TESS SCHLUPP
717-783-8618; TSCHLUPP@PA.GOV
SOUTH CENTRAL AND SOUTHEASTERN
PENNSYLVANIA



- **PV REGION 4** – REBECCA KENNEDY
717-783-4493; REBKENNEDY@PA.GOV
NORTHEASTERN PENNSYLVANIA



We've Moved



Please be advised that effective October 22, 2018 the physical location and mailing address for PENNVEST has changed. All paper correspondence and the official notices required to be provided to PENNVEST under the Notice provision of any Transactional Documents, should be sent to the following address :

**333 Market Street | 18th Floor
Harrisburg, PA 17101-2210**

Thank you for your cooperation in this transition. Should you have any questions regarding this correspondence, or the new address, please contact Denise Zern at dzern@pa.gov / 717-783-6747 or Heather Brookmyer hbrookmyer@pa.gov / 717-783-4487.

30 Years of Funding Clean Water Projects

Pennsylvania Infrastructure Investment Authority

333 Market Street | 18th Floor
Harrisburg, Pennsylvania 17101-2210

www.pennvest.pa.gov

Brion Johnson,
Executive Director
bjohnson@pa.gov
717-783-6798

Robert Boos
Deputy Executive Director for
Project Management
rboos@pa.gov
717-783-4493