



2017  
ANNUAL  
REPORT

Leading the nation with clean water solutions...

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# Mission & History

The Center for Watershed Protection works to protect and restore our streams, rivers, lakes, wetlands and bays. Our experienced staff of scientists, planners and environmental professionals are the technical experts who help municipalities, advocates, policymakers and citizens get clean water projects in the ground.

Founded in 1992, the Center was established with the idea of creating a nonprofit organization dedicated to research and education on watersheds. With an initial focus on protecting urban streams from the impacts of land development, the organization has grown over the years to become a national leader on stormwater management and watershed planning. The Center has continued to maintain the basic premise that watersheds are a logical focus point for environmental efforts, and our services have expanded to include membership and direct assistance to communities.

# Welcome



Dear Friends:

**2017** was a year of rainfall, recovery, and investments. Over \$300 billion was spent in the US alone for recovery efforts. Despite this, we are still unable to keep up with the changes in climate. Historic approaches to watershed management and stormwater mitigation are no longer sufficient with the current set of regulations, tools, and practices.

For the Center for Watershed Protection, investments in information and communications have become a critical part of our efforts. Projects included the update of a Codes and Ordinances Worksheet, allowing for the implementation of better site design practices; quantification of the benefit of trees; investing in public programs to incentivize private action; and continued education, training, and communication to a wider audience.

There are many areas of watershed management and stormwater mitigation that need continuous growth, experimentation, and practice. We continue to advance our work through education, research, practice, and membership, and hope to engage all of you to participate in advancing the science and practice of watershed and stormwater management.

Hye Yeong Kwon  
*Executive Director*

A handwritten signature in black ink, appearing to read "Hye Yeong Kwon".

Carlton Epps, Sr.  
*Board President*

A handwritten signature in black ink, appearing to read "Carlton Epps, Sr.".

## ACCOMPLISHMENTS

## MEMBERSHIP

Celebrating its eighth year, the Center for Watershed Protection Association (CWPA) membership program encompasses several different types of members, including individuals, students, local and state governments, non-profits, universities, libraries, and corporations. The CWPA is a chance to support the Center and access exclusive discounts and member-only events and information.

Among the CWPA member-only events are the Lunch and Learn presentations. The Lunch and Learn series is a benefit offered to our members as an exclusive opportunity to peek behind the curtain into the Center's offices. These presentations are held during lunch from 12 pm to 1 m EST at our office in Ellicott City and are offered to our members online through Adobe Connect. This is an informal way that we learn more from the community (researchers, nonprofits, and emerging technologies) to form relationships, brainstorm ways to work together, and to share the work that we do with our guest speakers. CWPA members also have the option to present at Lunch and Learns. In 2017, our popular topics included "Inception of a Stormwater Utility" by James Sherrard in which he shared lessons learned when the Town of Williston, Vermont formed its Stormwater Utility. Another popular Lunch and Learn was "IDDE 101" by our own Laurel Williamson, where she presented how to make the most out of your Illicit Discharge Detection and Elimination Program. The presentations vary in topics but are always informative!



THE CENTER FOR WATERSHED PROTECTION ASSOCIATION IS MADE UP OF 276 PROFESSIONALS FROM GOVERNMENT AGENCIES, NON-PROFITS, CONSULTING FIRMS, UNIVERSITIES AND OTHER ORGANIZATIONS FROM 40 U.S. STATES AND TERRITORIES AND FOUR COUNTRIES.

ACCOMPLISHMENTS

# TRAINING

## Another Successful National Watershed and Stormwater Conference

On April 4th, 2017, the Center for Watershed Protection hosted the second National Watershed and Stormwater Conference. This unique conference united online participation via national webcast with in-person discussion at our local hubs in Baltimore, Maryland; Philadelphia, Pennsylvania; and Omaha, Nebraska. In total, more than 230 people attended from more than 25 states from California to Connecticut and even from Puerto Rico and Canada!

Attendees represented federal, state and local government agencies, consulting firms, universities and non-profits. Major national topics included:

- The State of Our Watersheds
- Innovation in Practice – Integrated Water Resources Management and Implementation
- Emerging Tools in Watershed Protection, Restoration, and Implementation

The local hubs also included presentations on local stormwater and watershed concerns. Some of these topics included:

- The Future of Urban Watershed Management
- Chesapeake Bay total maximum daily load 2017 Midpoint Assessment: Building the Capacity for Success in the Phase III Watershed Implementation Plans
- A Pilot Assessment of Stream Temperature for an Impaired Waterway
- Road Salts in the Baltimore Reservoir Systems
- Scaling Up Green Infrastructure in Washington, DC
- Agriculture’s Role in Maryland’s Nutrient Trading Program
- Local Stormwater Funding Opportunities – A Panel Discussion
- Green Infrastructure in New Jersey

“THIS IS THE SECOND OF THE CENTER’S CONFERENCES THAT I’VE GONE TO AND THE TOPICS WERE REALLY, REALLY GOOD. IT’S ONE OF THE BETTER AND MORE INNOVATIVE WORKSHOPS THAT I HAVE ATTENDED.”

– LAURA WALKER,  
CITY OF SAVANNAH, GA

“THE MATERIAL WAS INTERESTING, AND THE SPEAKERS WERE ALL VERY WELL-QUALIFIED AND ORGANIZED.”

Support from 14 industry sponsors helped make the annual conference a great success. Thanks to: Anderson, Davis & Associates; Chesapeake Bay Trust; Day Deadrick Marshall Insurance Agents; Ecotone; Environmental Quality Resources, LLC; Furbish; Red Chair; Resource Environmental Solutions, LLC; Straughan Environmental, Inc.; Stormwater Maintenance; Storm Water Systems, Inc.; The Hatcher Group; Watershed Consulting Associates; and Wetlands Studies & Solutions.

## Life-Changing Green Jobs Training Program Launched

The Center for Watershed Protection's Clean Water Certificate (CWC) training program was launched in 2017 in Baltimore, MD. The CWC training program provides high quality training opportunities that promote job growth, deliver job-readiness skills and knowledge to under- and unemployed individuals, and creates a pathway for local businesses to hire these individuals into family-supporting careers. The current program includes two levels of training that are one week in duration. The training is delivered through multiple learning platforms to introduce participants to the construction, maintenance and inspection of green infrastructure practices, along with more advanced training to develop specialized skillsets to promote job advancement.

The program connects the stormwater industry with workforce development programs to fill a growing and sustained demand for persons skilled in the installation, maintenance, and inspection of stormwater management systems. The ultimate goals of the program are to:

- Provide the stormwater industry access to an “on the job ready” workforce
- Expand the stormwater management industry's skilled workforce to help meet the demand for stormwater installation
- Provide an opportunity for under or unemployed individuals in low-income communities to secure a living wage job leading to financial stability

Four training classes are completed in the Baltimore-Washington D.C area with plans to expand the program across the U.S. to build a network of skilled and knowledgeable workforce in the years ahead. Funding for the CWC training program was provided by The Campbell Foundation, France-Merrick Foundation and Prince Charitable Trusts.



“THE PARTNERSHIP BETWEEN CIVIC WORKS AND THE CENTER FOR WATERSHED PROTECTIONS, ALONG WITH FEEDBACK FROM THE STORMWATER INDUSTRY, IS KEY TO THE SUCCESS OF THIS PROGRAM. THE THREE TRAINING COMPONENTS — STORMWATER INDUSTRY KNOWLEDGE, TECHNICAL SKILLS, AND WORK EXPERIENCE — ARE THE TRIFECTA THAT WILL PROVIDE PARTICIPANTS WITH THE GREATEST OPPORTUNITY TO SECURE A LIVING WAGE JOB. IN ORDER TO TRANSLATE A TRAINING PROGRAM INTO A JOB AND SUCCESSFUL CAREER, THESE PARTICIPANTS NEED TECHNICAL SKILLS BUT ALSO HELP IN SECURING JOB PLACEMENT AND WORKPLACE SKILLS.”

-ELI ALLEN, DIRECTOR OF CIVIC WORKS' BALTIMORE CENTER FOR GREEN CAREERS.

## ACCOMPLISHMENTS

## RESEARCH

## An Updated Tool for Improving Local Development Regulations

Published in 1998, the Center's Better Site Design Handbook outlines 22 model development principles for site design that act to reduce impervious cover, conserve open space, prevent stormwater pollution, and reduce the overall cost of development. The model development principles were created through a national Site Planning Roundtable, a consensus-based process initiated to create more environmentally sensitive, economically viable and locally appropriate development. The roundtable consisted of over 30 influential individuals from various organizations around the nation, including environmental groups, transportation officials, planners, realtors, homebuilders, land trusts, fire officials, county managers and more.

The Better Site Design Handbook presented a process for evaluating local development regulations based on the model development principles so that strategic code changes could be made in the community. The tool provided to facilitate an in-depth review of codes and ordinances at the local level was the Code and Ordinance Worksheet (COW), which has been used by the Center to review local development regulations in over 75 communities. Other organizations have used the Better Site Design process to review and make updates to their local codes.

In 2017, the Center embarked on an update to the COW, with input from experts in relevant disciplines (e.g., stormwater, transportation, planning) across the nation. The goals of the update were to:

1. Reflect the latest in stormwater management approaches by incorporating questions about strategies for promoting infiltration and reducing runoff (e.g., Green Infrastructure)
2. Address different types of development beyond just new (suburban) residential subdivisions
3. Incorporate updated standards and supporting research
4. Provide a user-friendly format for scoring

The revised COW can be used to help communities evaluate their local development regulations to identify revisions that allow (or require) site developers to minimize impervious cover, conserve natural areas and reduce stormwater runoff. The revised COW comes with a Scoring Spreadsheet, provides guidance for communities on prioritizing short and long-term actions for regulatory changes, and also includes a Resources section to help with designing effective code and ordinance language.

THE REVISED CODE AND ORDINANCE WORKSHEET CAN BE USED TO HELP COMMUNITIES EVALUATE THEIR LOCAL DEVELOPMENT REGULATIONS TO IDENTIFY REVISIONS THAT ENCOURAGE DEVELOPERS TO MINIMIZE IMPERVIOUS COVER, CONSERVE NATURAL AREAS, AND REDUCE STORMWATER RUNOFF.



## Making Urban Trees Count

The use of trees as a stormwater best management practice has been limited by the uncertainty of how to “credit” trees for runoff and pollutant reduction to meet water quality requirements. In 2017, the Center wrapped up a study to address this gap by developing a national science-based crediting system for urban tree planting. The project was funded through a grant from the U.S. Forest Service’s National Urban and Community Forestry Advisory Council.

As a first step, the Center reviewed 159 publications to help answer the question “What is the effectiveness of urban tree planting for reducing runoff, nutrients and sediment?” The literature review found that only a limited number of studies directly address the water quality benefits of urban trees, and the available studies are highly variable in their methods, scale, and results given the numerous processes involved and factors that affect them (e.g., tree characteristics, storm event characteristics, meteorological factors). As a result, the project team developed a water balance model to provide an improved method for quantifying the stormwater benefits of urban tree canopy.



The water balance model estimates the mean annual runoff for a single tree at maturity planted over grass or impervious cover, compared to runoff from those same sites without trees. The model was run for the four hydrologic soil groups for five tree types at 31 locations in 11 climate zones. The model was reviewed by researchers and practitioners with expertise in stormwater modeling, forestry, engineering, or hydrology and accounts for the effects of tree canopy on rainfall interception, evapotranspiration and infiltration.

The Center used the water balance model results to develop two tree planting credits: one that quantifies the annual nitrogen, phosphorus and sediment load reduction provided by urban trees for total maximum daily load credit, and one that quantifies runoff, nutrient and sediment reductions provided by trees to meet event-based stormwater management requirements. These credits and associated materials (e.g., calculators, design specifications) provide regulators and stormwater practitioners a means to better integrate and account for the effect of trees for stormwater regulatory compliance. The water balance model provides results for all regions of the U.S., so that the crediting framework can be implemented in any state or locality.

## ACCOMPLISHMENTS

# WATERSHED & STORMWATER SERVICES

## A Countywide Watershed Planning Effort in Baltimore, Maryland

In 2017, the Center wrapped up work on a multi-year contract with Baltimore County, Maryland to develop Small Watershed Action Plans (SWAPs), working with partners KCI and Coastal Resources, Inc. The goal of the SWAPs was to improve on past watershed planning efforts and provide a unified framework for addressing multiple goals, including total maximum daily loads and meeting the EPA's "a-i" criteria for watershed planning.

The Center team worked with Baltimore County, Baltimore City, and local watershed associations to develop the SWAPs through a process that involved: setting goals, establishing a baseline characterization, conducting stream corridor and upland assessments to identify restoration opportunities, and developing and prioritizing projects and actions. A major feature of the SWAPs was to have an integrated and involved stakeholder component throughout the process. In addition to managing the contract, the Center's role was to participate in goal setting, assist with the baseline characterization, organize field assessments, and oversee the partners' work. The Center team developed SWAPs for the following watersheds:

- Beaverdam Run, Baisman Run, and Oregon Branch Area I (2011)
- Loch Raven East Area R (2013)
- Upper Jones Falls Area G (2016)
- Little Gunpowder Area P (2017)
- Lower Gunpowder Area Q (2017)

The final SWAPs will help the County to meet their pollution reduction requirements and obtain implementation funding through EPA grant programs.

## Fostering Investment in Green Infrastructure in the District of Columbia

In 2014, the District of Columbia established an innovative Stormwater Retention Credit (SRC) trading program, under which regulated development sites can comply with up to half of their stormwater management requirements by buying SRCs from voluntary green infrastructure projects or from green infrastructure projects with excess capacity beyond the regulatory requirement. The District's new SRC Price Lock Program builds upon the trading program by providing a structure under which SRC generators can opt to sell credits to the District under an SRC Purchase Agreement. Only new green infrastructure projects within the roughly 2/3 of the city that drains without treatment to District waterbodies are eligible.

## Helping Pennsylvania Municipalities Work Together to Achieve Cleaner Water

In Pennsylvania, many local jurisdictions are grappling with the complexities of stormwater and watershed restoration practices as they develop and implement Pollution Reduction Plans (PRP) as part of their stormwater permit requirements. In some parts of the State, local regulated jurisdictions are uniting at the County scale to aggregate resources and identify the most cost-effective and beneficial projects to the larger community. The Blair County Intergovernmental Stormwater Committee (the Committee) is an example of such a collaborative. In 2017, the Center worked with the Committee to develop and submit a PRP that covers all of the jurisdictions in the County with stormwater permits.

The Center worked closely with Township and Borough representatives to assemble mapping data to delineate the sewersheds that determine the PRP Planning Areas for the multiple stormwater permits and determine existing baseline loads. Then using information provided by the Committee, combined with field observations, the Center determined the reductions from existing stormwater management systems and evaluated their potential to be retrofitted for cost-effective load reductions to achieve water quality goals. Ultimately, the Center provided the Committee with a list of stormwater management systems with the specific calculations to document achievement of the required PRP reductions as part of the final plan. Prior to submittal, the Center coordinated a meeting between Committee representatives and Pennsylvania Department of Environmental Protection to discuss the specific components of the plan and the load reduction calculations for specific BMPs. Subsequently, the PRP was submitted, reviewed, and approved by the State. The Committee has since begun implementation of financing strategies and high priority projects.



The Center was awarded a contract from the District Department of Energy and Environment (DOEE) to manage the SRC Price Lock Program, including administering \$11.5 million in purchase agreements. Over the past year, the Center has worked with DOEE to set up the SRC Price Lock Program, which officially launched in November 2017. The Center developed program documents that outline the program structure and criteria and established a grant program to support the outreach and technical work required for SRC generators to identify and evaluate green infrastructure locations in the District. Over its six year timeframe, this unique program is expected to mobilize millions of dollars of private investment in green infrastructure by creating a price floor in the SRC market and contributing to more certainty about the return that an investment in green infrastructure may provide.

## ACCOMPLISHMENTS

### WATERSHED & STORMWATER SERVICES (CON'T)

#### A Stream Improvement Success Story in Maryland

In 2017, the Center partnered with the Town of Rising Sun, the Octoraro Watershed Association, and Ecotone, Inc. to implement several restoration projects at Veteran's Community Park in the Town of Rising Sun, Maryland. These projects were previously identified in a watershed plan for Stone Run that was developed by the Center with the Octoraro Watershed Association to help meet local and Chesapeake Bay water quality goals. Implementation of these projects was funded by the Maryland Department of Natural Resources Chesapeake and Atlantic Coastal Bays Trust Fund.

The work included restoration of approximately 740 linear feet of stream and the treatment of unmanaged stormwater from more than eight acres of impervious area to reduce the volume and velocity of runoff entering the stream, further protecting the newly restored stream. The stream restoration project was also designed to promote public interaction by creating access points and areas to allow children to play. A step-pool stormwater conveyance system was constructed below an outfall where significant erosion was occurring, discharging sediment into the stream. Two bioretention ponds were installed to help filter runoff from the adjacent neighborhood, parking lot, and baseball fields before being discharged back into the tributary. Finally, an existing wetland area was enhanced to slow water discharge from surrounding impervious surfaces to the Stone Run Tributary. Since the projects have been completed, the Town has noticed a significant reduction in flooding along Wilson Avenue downstream of the park.

This project provides a case study example of how small communities can work with community partners and like minded organizations to accomplish large scale restoration projects in a relatively short period of time.



# Donors

The Center is grateful to the **Max and Victoria Dreyfus Foundation** for supporting the Center's Research Program.

## Patron Program:

Straughan Environmental, Inc.

Ecotone, Inc.

## Conference Sponsors:

### PLATINUM

Straughan Environmental, Inc.

Ecotone, Inc.

### GOLD

Environmental Quality

Resources

Stormwater Maintenance and

Consulting

### SILVER

Chesapeake Bay Trust

Furbish

Resource Environmental

Solutions

Storm Water Systems

### BRONZE

Anderson, Davis & Associates

Day, Deadrick & Marshall

Hatcher Group

Red Chair

Watershed Consulting

Associates, LLC

Wetland Studies & Solutions

## Friends of the Center:

The Center is proud to list our Friends of the Center. We are particularly grateful to our Watershed Heroes, who have demonstrated exceptional commitment of at least \$500, and in many cases, much more!

Thank you for helping the Center make a difference!

### WATERSHED HEROES

Michael Freeburger

Rhea Harris

Hye Yeong Kwon

Gregory "Scott" Lang

William H. Moore

Jeffrey Shinrock

Alan H. Vicory

### BLUE CRAB BOOSTERS

Anwer Ahmed

Carlton G. Epps, Sr.

### HERON HERALDERS

Eric Berntsen

Gregory Hoffmann

Elizabeth L. Raisbeck

### SALAMANDER SUPPORTERS

Lisa Boland Elliot

Eric Eckl, Water Words

That Work

Ted Mikalson

Scott Scarfone

Penn Schoen & Berland

Associates, LLC

We also appreciate the hundreds of donors who made donations to the Center through their workplace giving campaign. In 2017, the Center received \$1,503.36 through the Conservation and Preservation Charities of America and Combined Federal Campaign, and \$842.36 from the MD Charity Campaign and United Way. The Amazon Smile Foundation also donated \$45.21 in 2017.

Join us as we lead the nation in clean water solutions. Give today!.

## To make a tax-deductible gift



### By mail:

Please send your check to Center for Watershed Protection, 3290 North Ridge Road, Suite 290, Ellicott City, MD 21043. Attn. Friends of the Center.



### Online:

Go to our website at <http://www.cwp.org> and go to "Donate" to make a gift by credit card.



### Payroll Deduction:

As a member of the Conservation and Preservation Charities of America, the Center takes part in several workplace giving programs. We are listed as #11248 in the Combined Federal Campaign.

For more information on how you can protect our nation's watersheds, please visit our website at [www.cwp.org](http://www.cwp.org) or contact our office at 410.461.8323.

# Partnerships

Serving both clients and the community, the Center values its partnerships and the contributions that every Sector provides. These groups worked with us in 2017 to create meaningful opportunities for watershed protection and restoration nationwide:

## **Watershed Associations**

Back Creek Conservancy, MD  
Brodhead Watershed Association, PA  
Little Falls Watershed Alliance, MD  
James River Association, VA  
Hudson Riverkeeper, NY  
Octoraro Watershed Association, MD  
Upper Neuse River Basin Association, NC  
Watershed Coalition of the Lehigh Valley, PA  
Wyomissing Creek Watershed Coalition, PA

## **Local Governments**

Albemarle County, VA  
Arlington County, VA  
Baltimore County, MD  
Berkeley County, SC  
Blair County, PA  
Buffalo Sewer Authority  
Capital Region Council of Governments  
Carroll County, MD  
City of Atlanta, GA  
City of Baltimore, MD  
City of Charlottesville, VA  
City of Frederick, MD  
City of Fredericksburg, VA  
City of Hampton, VA  
City of Lynchburg, VA  
City of Poughkeepsie, NY  
City of Richmond, VA  
City of Salisbury, MD  
Fauquier County, VA  
Harford County, MD  
Horry County, SC  
Howard County, MD  
Montgomery County, MD  
Prince George's County, MD  
Radnor Township, PA  
Shenandoah Valley Soil and Water Conservation District

Sussex Conservation District, DE  
Talbot County, MD  
Town of Easton, MD  
Town of Espous, NY  
Town of Hyde Park, NY  
Town of Lloyd, NY  
Town of New Market, MD  
Town of Poughkeepsie, NY  
Town of Rhinebeck, NY  
Town of Rising Sun, MD  
Town of Warrenton, VA  
Village of Rhinebeck, NY  
Whitehall Township, PA  
Wicomico County, MD  
York County Stormwater Consortium

## **State, Tribal, Federal and Territorial Agencies**

Delaware Department of Natural Resources and Environment Control  
District of Columbia Department of Energy and Environment  
Georgia Environmental Protection Division  
Maryland Department of the Environment  
Maryland Department of Natural Resources  
Maryland Port Authority  
Maryland State Highway Administration  
New Jersey Department of Environmental Protection  
New York Department of Environmental Conservation  
Pennsylvania Department of Conservation and Natural Resources  
Pennsylvania Department of Environmental Protection  
Shingle Springs Band of Miwok Indians  
U.S. EPA Chesapeake Bay Program Office  
U.S. EPA Region IV  
U.S. EPA Office of Water  
U.S. Forest Service  
Vermont Department of Environmental Conservation

**Other Organizations and Companies**

A. Morton Thomas  
 Abell Foundation  
 Accokeek First Church of God  
 AECOM  
 Alpha Landscape Contractors, Inc.  
 Altria Group, Inc.  
 American Forests  
 American Littoral Society  
 Arcadis  
 Audubon Naturalist Society  
 Bar-T Mountainside  
 Bethel Presbyterian Korean Church  
 Biohabitats, Inc.  
 Cardno  
 C.F. Kreutter & Associates, Inc.  
 Chesapeake Bay Foundation  
 Chesapeake Bay Trust  
 Chesapeake Stormwater Network  
 Civic Works' Baltimore Center for Green Careers  
 Coastal Resources, Inc.  
 Columbia Association  
 Corps Network  
 DC River Corps  
 Downstream Strategies  
 EA Engineering, Science and Technology, Inc.  
 Eastern Delaware County Stormwater Collaborative  
 Ecosystem Planning and Restoration, Inc.  
 Ecosystem Services LLC  
 Ecotone, Inc.  
 Epping Forest, Inc.  
 EQR, LLC  
 France-Merrick Foundation  
 Furbish  
 Gilmore and Associates, Inc.  
 Great Valley Consultants  
 Greeley and Hansen LLC  
 Hood College  
 Iowa State University  
 Johnson, Mirmiran & Thompson  
 Keith Campbell Foundation for the Environment  
 KCI Technologies, Inc.  
 McCormick Taylor  
 Montgomery County Conservation Corps  
 Morgan State University  
 Mott MacDonald, LLC  
 National Fish & Wildlife Foundation  
 Overlook Homeowners Association  
 Partnership for the Delaware Estuary  
 Penn State University  
 People for Change Coalition  
 Piedmont Environmental Council  
 Pinchot Institute for Conservation  
 Prince Charitable Trusts  
 RK&K  
 Rutgers University  
 Stormwater Maintenance LLC  
 The Conservation Fund  
 The Nature Conservancy  
 Union Bethel AME Church  
 University of Georgia  
 University of Illinois Champaign Urbana  
 University of Maryland College Park  
 University of North Carolina at Chapel Hill  
 Virginia Environmental Endowment  
 Virginia Polytechnic Institute and State University  
 Walton Family Foundation  
 Water Words That Work, LLC  
 Waterfront Partnership of Baltimore, Inc.  
 WE&RF  
 William Penn Foundation  
 STANTEC  
 Susquehanna River Basin Commission  
 Susquehanna River Heartland Coalition for  
 Environmental Studies

# Financial Report

Based on audited figures for FY 2017. Copies of all financial documents are available at the Center's Ellicott City Office.

## Statement of Financial Position December 31, 2017

### ASSETS

<b>CURRENT ASSETS</b>	
Cash and cash equivalents	\$286,229
Grants and contracts receivable:	
Federal government - unbilled	850,075
Other - billed	81,116
Other current assets	<u>11,613</u>
Total current assets	<u>1,229,033</u>
<b>INVESTMENTS</b>	<u>492,216</u>
<b>FURNITURE AND EQUIPMENT – at cost</b>	
Furniture	6,311
Computer equipment	<u>183,054</u>
	189,365
Less accumulated depreciation	<u>133,911</u>
Net value of furniture and equipment	<u>55,454</u>
<b>SECURITY DEPOSIT</b>	<u>6,522</u>
<u>Total assets</u>	<u>\$1,783,225</u>

### LIABILITIES AND NET ASSETS

<b>CURRENT LIABILITIES</b>	
Accounts payable	\$206,218
Accrued salaries and taxes payable	62,976
Accrued leave	46,911
Deferred rent – short-term	1,751
Deferred revenue	19,410
Line of credit	<u>345,869</u>
Total current liabilities	683,135
<b>LONG-TERM LIABILITIES</b>	
Deferred rent – long-term	<u>14,078</u>
Total liabilities	697,213
<b>NET ASSETS</b>	
Unrestricted	861,993
Temporarily restricted	<u>224,019</u>
Total net assets	1,086,012
<u>Total liabilities and net assets</u>	<u>\$1,783,225</u>

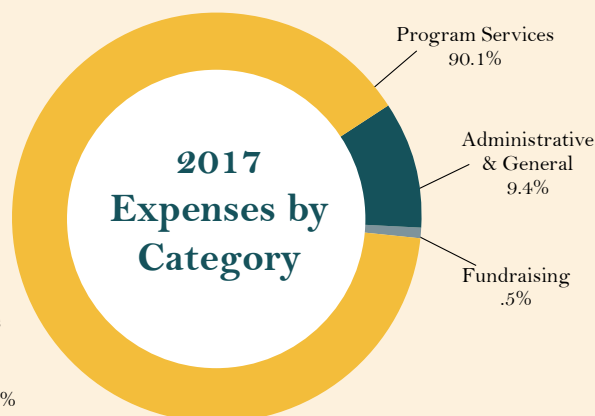
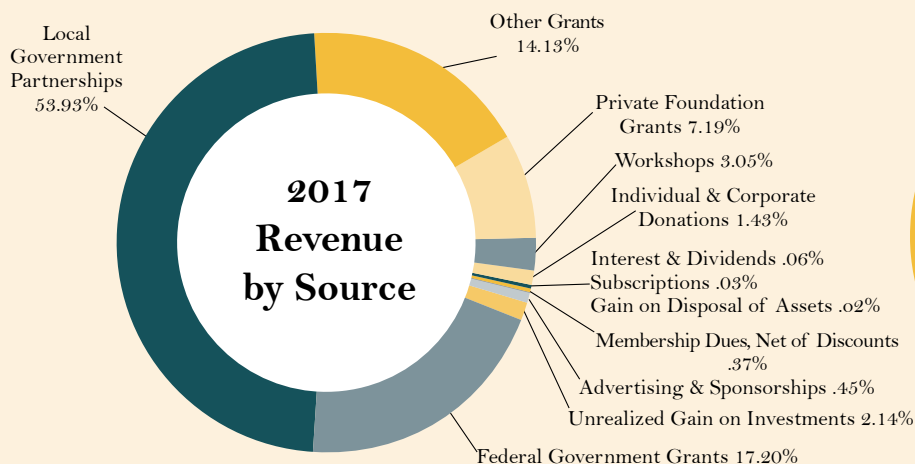
## Statement of Activities for the year ended December 31, 2017

### REVENUES, GRANTS AND OTHER SUPPORT

Federal government grants	\$444,973
Local government partnerships	1,395,107
Private foundation grants	186,089
Other grants	365,533
Individual and corporate donations	37,079
Workshops	78,793
Membership dues, net of discounts	9,579
Subscriptions	710
Advertising and sponsorships	11,600
Interest and dividends	1,635
Gain on disposal of assets	350
Unrealized gain on investments	<u>55,431</u>
Total revenues, grants and other support	<u>2,586,879</u>

### EXPENSES

<b>Program services:</b>	
Membership	59,721
Research	299,405
Training	442,845
Watershed/Stormwater Services	<u>1,757,655</u>
Total program services	<u>2,559,626</u>
<b>Supporting services</b>	
General and administrative	267,542
Fundraising	<u>12,809</u>
Total supporting services	<u>280,351</u>
Total expenses	<u>2,839,977</u>
Change in net assets	(253,098)
Net assets at beginning of year	<u>1,339,110</u>
Net assets at end of year	<u>\$1,086,012</u>





# Board of Directors

The Center is governed by a Board of Directors that provides strategic direction and oversight for the organization. Our current board members include:

**Carlton G. Epps, Sr., President:** Carlton is a resident of Baltimore City where he serves as the Director of Asset Management for the Baltimore Police Department. He holds an MBA from Loyola University Baltimore and is a graduate of Leadership Maryland.

**Jeff Shinrock, Vice President:** Jeff is the Principal for Red Eagle Development. He provides management, technology, market planning strategies, sustainable construction and business solutions for corporate, government, non-profit, and construction clients.

**Alan H. Vicory, Jr. P.E., BCEE, Vice President:** Alan is a Principal in the firm Stantec Consulting (Cincinnati, OH office). He has more than 30 years of experience in large-scale watershed management as former (retired) Executive Director and Chief Engineer of the Ohio River Valley Water Sanitation Commission.

**Michael Fowler, PE, Treasurer:** Mike is a senior water resources engineer with 20 years experience in watershed planning, stormwater management, stream and wetland assessments and restoration, floodplain studies, hydrologic and hydraulic modeling, design of stormwater management systems, and water quality monitoring.

**Anwer Ahmed, PE, DWRE, ENV SP, Secretary:** Anwer serves as an expert in the ARCADIS Stormwater and Green Infrastructure Practice. He has almost 30 years of professional experience in water resources engineering, watershed planning, urban stormwater management, MS4 compliance, and green infrastructure.

**Karen Evans:** Karen is a Vice President for the Whiting-Turner Contracting Company. She has been planning and constructing buildings in the Mid-Atlantic region for over 30 years for various clients. Karen is also a LEED AP and serves as a Regional Coordinator which focuses on the latest technologies, tools and processes for sustainable buildings.

**Michael W. Freeburger, Jr.:** Michael is currently the Vice President of External Financial Reporting at Revere Bank, and he has over ten total years of corporate accounting experience. Michael is an active CPA in the State of Maryland, received an MBA in Finance from the University of Baltimore and has an undergraduate degree in Financial Economics from UMBC. Michael also served eight years in Maryland's Army National Guard and reached the rank of sergeant.

**Rhea Harris:** Rhea L. Harris serves as the Assistant Secretary for Programs and Services for the Maryland Department of Public Safety and Correctional Services. She is currently on assignment with the Maryland State Police for Colonel Palozzi, assisting in Diversity and Recruitment.

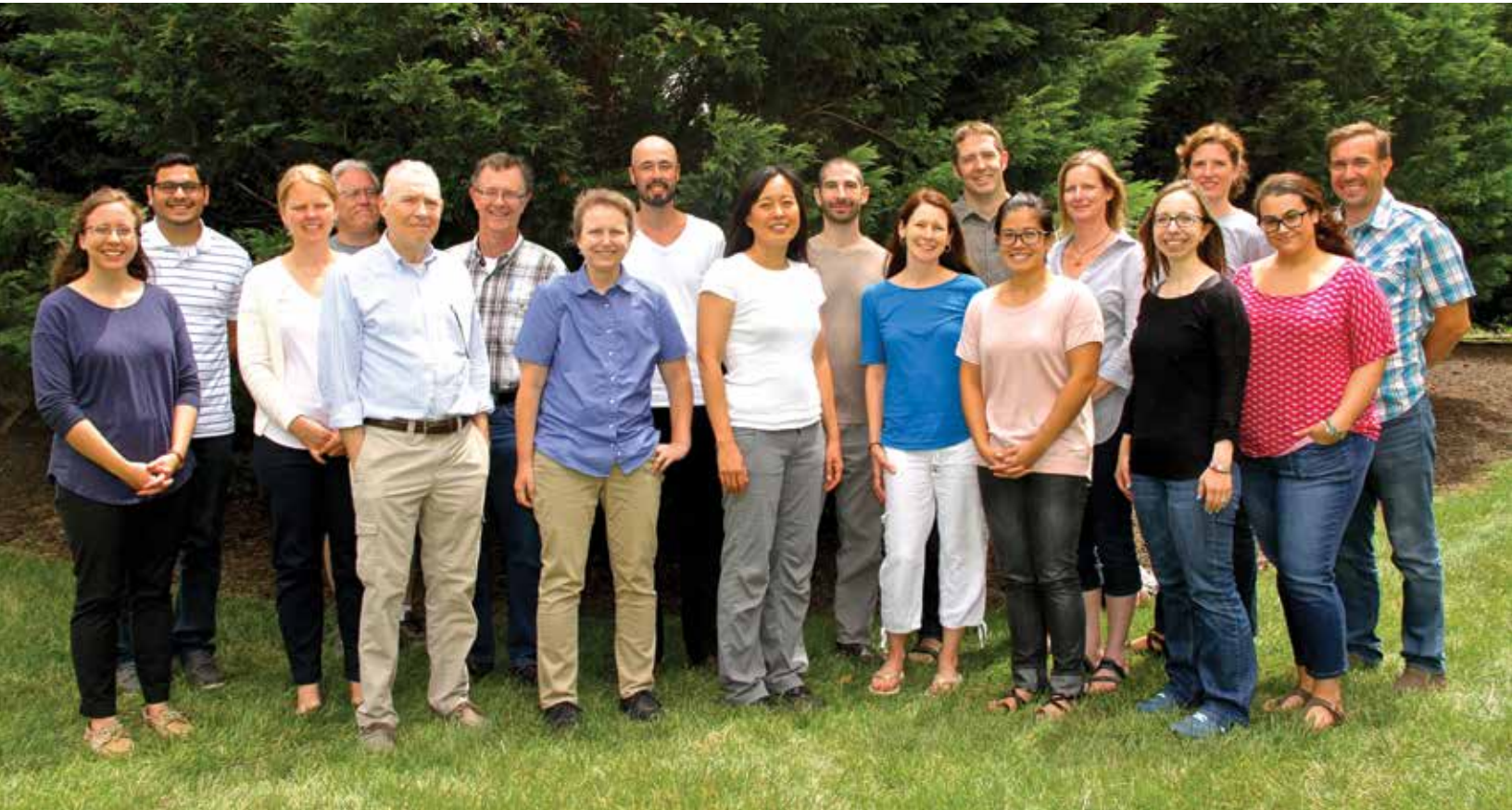
**Gregory "Scott" Lang:** Scott is a Senior Vice President with KCI Technologies. KCI is a 1200 person multi-discipline civil and infrastructure engineering firm and Scott leads the firm's Construction Management Discipline, which provides owner's representative and at-risk construction services on projects in 15 states from Texas to Pennsylvania. Prior to joining KCI, Scott retired from the US Navy in 1998 after a career as a Civil Engineer and Navy diver.

**William H. Moore:** Willy is President and Owner of Southway Builders, Inc., a general contracting company that builds in both the commercial and multi-family residential markets, while having expertise in new construction, adaptive re-use, historic, and sustainable projects within the Mid-Atlantic region.

**Addison Palmer:** Addison is a Regional Manager for STV Incorporated, a 2000-person multidisciplinary architecture and engineering firm. Addison has managed some of the region's most complex and high profile redevelopment projects, which include innovative storm water management solutions. Addison is a registered landscape architect and resides in Baltimore City with his wife and two children.

To learn more about the Board or Board service contact Hye Yeong Kwon at [hyk@cwp.org](mailto:hyk@cwp.org).

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# Looking Ahead

Looking ahead to 2018, the Center will be shepherding numerous stormwater retrofit projects in Maryland through the construction phase, and we look forward to sharing the results of our progress on clean water as they are completed. We will also be wrapping up several long-term monitoring projects to quantify the pollutant removal and/or runoff reduction benefits of emerging or understudied best management practices. Some of these practices include highway inlet cleaning, denitrification bioreactors in roadside ditches, and the addition of biochar to filter media for bioretention and filter strips. We also plan to expand our work on stream restoration, as this practice is being heavily relied on to meet pollution reduction requirements in many Chesapeake Bay communities. This will include developing a series of stream restoration case studies, helping Chesapeake Bay communities determine which stream restoration projects will provide the most benefit per dollar spent, and continuing to refine the guidance on stream restoration crediting. Lastly, we expect more growth in our southeast office, as we now have two staff located in South Carolina, and a growing number of projects there.

The Center has greatly appreciated the support of our funders and partners over the past year. Over the next two years we will work with our Board of Directors to lay out a new plan for how the Center will grow and expand to address new geographic areas and markets, while continuing to be a national leader on clean water strategies.

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PROTECTION

*Leading the Nation with  
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