

20 YEARS of CLEANER WATER

2016 ANNUAL REPORT

Connecting people, science, and nature for a healthy Delaware River and Bay

MESSAGE from the BOARD CHAIR



It's hard to believe that 2016 is my final year serving as a Board Member at the Partnership for the Delaware Estuary (PDE). While it's tough to end my tenure, I couldn't have picked a better final year – PDE's 20th Anniversary.

Anniversaries are a time to reflect and celebrate. If you attended the Experience the Estuary Celebration this year, then you know we can throw a good party! If you asked me to reflect on what makes PDE so great, I would say three things.

First, I would explain about the collaborative spirit in which the organization runs. Partnership is the first word in our name – and it's deliberate. The second thing I would talk about is how strongly based PDE is in scientific research and how it guides PDE's work. Lastly, and most importantly, I would tell you about how passionate its staff, partners, and supporters are about the Delaware Estuary.

What brought me to PDE was my love of the environment, the beautiful streams in my home state of New Jersey, and the strong desire to give back. What I found at PDE is an organization committed to improving the Delaware River and Bay for current and future generations.

Thank you for being part of PDE's 20 year journey. It is my sincere hope that you continue to support PDE for this year and for years to come.

Joni L. Powell 2016 Board Chair



2016 Board of Directors

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New Board Members in 2017

Michael Dillon – Manko, Gold, Katcher and Fox LLP

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MESSAGE from the EXECUTIVE DIRECTOR

This year the Partnership for the Delaware Estuary celebrated its 20th anniversary. While the journey we've been on as an organization since 1996 is astounding, you may be surprised to learn how long this partnership was in the making.

Our beginning can be traced all the way back to the Clean Water Act of 1972. It then continued for several decades, fueled by the vision and passion of innumerable people. Their hard work eventually culminated in a plan agreed to by the governors of Delaware, New Jersey, and Pennsylvania, the acceptance of the Delaware Estuary into the National Estuary Program, and the creation of PDE.

Today, PDE continues to grow. We have a staff of 20 supported by a strong board of directors, a scientific advisory committee, a management conference made up of agencies from around the region, and hundreds of local partners. With 20 years of accomplishments and experience, we're revising the Comprehensive Conservation and Management Plan for the Delaware Estuary for the first time.

For me though, the importance of our work here at PDE all comes back to a feeling. It's the feeling you get outdoors that cannot be manufactured or duplicated. It's that deep breath you take, while looking at a shimmering bay or babbling brook, or listening to a forest alive with bird song. It's a feeling I want everyone to share and one that needs to be safeguarded for the next generation.



Photo by lim Whit

Jennifer A. Adkins Executive Director

2016 AUDITED STATEMENT of ACTIVITIES

For the year ended December 31, 2016

Support and Revenue:

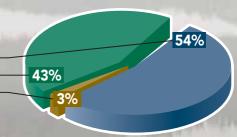
Government Grants	\$1,!	500,264
Contributions and Grants		
Other Revenue	\$	87 411

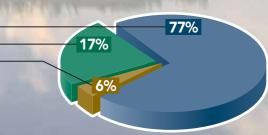
TOTAL SUPPORT AND REVENUE..... \$2,768,528



Program	.\$1	,884,289
Management and General		
Fundraising	.\$	150,382
TOTAL EXPENSES.	\$2	444.267

Please remember PDE in your giving!

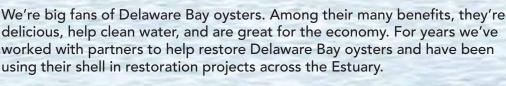




^{*} Audit not complete at time of printing. Final audited statements can be found on our website at www.DelawareEstuary.org.

Recycled oyster shells being "cured" after being collected from local restaurants.

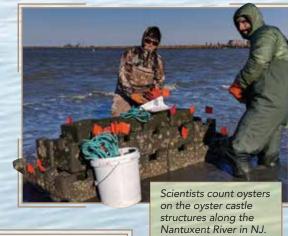
OYSTERS GALORE



PDE's new Oyster Shell Recycling Program kicked off in early summer, with great success. Over 18 tons of shell has been recycled in just 6 months. The used shell was collected from 11 restaurants in New Castle County, Delaware. Rather than going to a landfill, the shell is collected and then "cures" for several months in a pile. Next spring, we'll bag the shell and deploy it at restoration sites across the Estuary.

Oyster castles are brick-like structures used at several of our living shoreline sites. They help protect eroding shorelines from strong waves and also attract baby oysters, which

attach and grow on the sides of the castles. Since 2014, over 24,000 baby oysters have attached to oyster castles at our living shoreline site near Milford, DE. As of 2016, approximately Bay had a \$40 to \$1 return 50% of those oysters are older than one year, which indicates that the population oyster industry from collapse, is becoming healthy and stable.



CLASSROOM CONNECTIONS

Teachers taking part in this summer's Watershed Workshops.

Between 2005 and

2009, shell planting in the

on investment, saved the

and is the reason we can enjoy

fresh oysters from Delaware

Bay today.

It is our belief that classrooms do not solely exist indoors. The great outdoors, and the Delaware Estuary, provide abundant opportunities to learn. Our ultimate goal at PDE is to share our love of the Estuary with students of all ages.

In July, 25 teachers attended our Watershed Work**shops**. During the workshops, teachers learned hands-on ways to engage students and bring "estuary education" into their classrooms. Activities like nature walks, citizen science projects, and wetland and agriculture tours provided a

wide range of learning opportunities. These experiences served to enhance the teacher's regular lesson plans and provided example activities that are designed to be easily transitioned to indoor classrooms.

Connecting people with the environment is a key goal at PDE. In September, thousands had that opportunity at the 17th Pennsylvania Coast Day celebration. This annual event was held on the banks of the Delaware and Schuylkill Rivers in Philadelphia. Attendees enjoyed boat rides, kid's crafts, and an eco-themed scavenger hunt. Thank you to the 27 exhibitors who helped make this day a success and provided learning opportunities for everyone!

> Kids enjoy a lesson from one of the booths at the Coast Day celebration.

Over 20 years, PDE has reached an estimated 4 million people at events lik the Watershed Workshop an Earth Day celebrations and through website downloads and publications.



COOL SCIENCE

As a science-based organization, we love getting muddy in the field, wading in streams, and analyzing data. Each year we make new discoveries and unlock more information about our Estuary, which helps to quide and inspire our work, partners, and supporters.

Since 2008, PDE has provided science fellowship and intern opportunities to recent graduates, and post graduates, all of whom have gone on to successful careers.

Freshwater mussels are shellfish that filter water and live up to 100 years. At one time, millions could be found in a single stream, but today, most species are endangered. Since 2008, PDE has been studying

their health and restoring them through the **Freshwater Mussel Recovery Program**. In 2016, our science team put electronic tags on 50 freshwater mussels in southeastern PA. Since 2011, over 1,250 freshwater mussels have been tagged and are monitored yearly for their health and growth.

Marshes are a hallmark feature of the Delaware Estuary. A healthy marsh cleans and filters water, provides a home for fish and birds, and protects communities during storms. Since 2008, PDE has studied more than 380 wetland sites as part of the **Mid-Atlantic Coastal Wetland Assessment**. This year, our scientists gathered data from 40 sites across the estuary. The data will tell us about wetland health and help guide our restoration efforts.



Collecting trash near Boathouse Row in Philadelphia during the Schuylkill Scrub.

TALKING TRASH

Everyday we're confronted with litter. And the fact is that most trash on the ground will eventually end up in our waterways. Each year, PDE participates in initiatives to help reduce the amount of trash in the Estuary.

In the last ten years, almost 50,000 volunteers have removed over 600 tons of trash from the Schuylkill, Christina, and Delaware River.

One that we coordinate is the **Schuylkill Scrub**, a watershed-wide cleanup that takes place each spring in the Estuary's largest watershed. This year, the Scrub again joined forces with the Great American Cleanup of Pennsylvania, yielding incredible results. During the 3-month cleanup, more than 29,000 volunteers participated in 797 cleanups and removed more than 516,000 pounds of trash. Since its inception seven years ago, nearly 9 million pounds of trash has been removed from the Schuylkill Watershed.

Can artwork help reduce litter and pollution? We think so! In 2016, PDE teamed up with the Philadelphia Water Department on the **Green Cities, Clean Waters** art contest. Over 1,260 students submitted artwork with a clear message – keep trash off the streets and out of our waterways! This summer, four of the winning drawings were transformed into temporary street art stickers, placed in neighborhoods throughout the city. These stickers will help educate thousands of people about the importance of keeping our cities green and our water clean!



Students show off their artwork which appears in a calendar distributed to Philadelphia's schools.



Upper Schuylkill Tour

In September, the Schuylkill Action Network hosted a tour of restoration projects that have successfully reduced pollution. The tour included stops at an abandoned mine treatment site, a protected farm along the Schuylkill River, and a sustainable dairy farm.



Little Tinicum Island Clean-up

In September, 62 volunteers helped clean up the Little Tinicum Island on the Delaware River. Over 15,000 pounds of trash, tires, and recyclables were removed from the island that day!

Rain Gardens

In 2016, four rain gardens were planted by students, teachers, and volunteers at their schools. In addition to helping manage storm water, these rain gardens will also provide outdoor learning opportunities for the schools and their communities.



Living Shorelines

In 2016, PDE installed three bio-based living shorelines along the Nantuxent River in NJ and monitored 12 existing ones to study their progress. Three sites were also enhanced with native grasses and oyster shell bags.

MAP DELAWARE

Port Clinton

The Delaware Estuary s head of tide at Trenton, Delaware Bay. An estu where fresh and

• Reading

Schuylkill River

Phoenixville

Chester

Norristo

Creek Chester

Saler

Money

Island

4

3 Wilmington

3 Newark

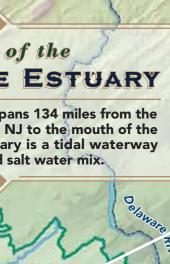
C&D Canal

MARYLAND

Leipsic River

3

10 15 20



Neshaminy Creek

Philadelphia 7

9

Kiver Deptford

Bridgeton

Delaware Bay

4

Milton •

Raccoon Creek

River

Camden

Frenton

NEW JERSE



Scholastic Awards

Students at the Perkiomen Valley High School received the SAN Scholastic Drinking Water Award. These students helped to plan for and install a rain garden, vegetated swales, and rain barrels in their community.

Mussel Exhibit

In 2016, PDE worked with the Fairmount Water Works to develop a new exhibit on freshwater mussels. Opening in winter 2017, it will demonstrate how freshwater mussels reproduce and why they're important for restoration.





Volunteer Freshwater Mussel Surveys

This year, PDE trained 67 volunteers at 7 workshops to search for freshwater mussels in local waterways. Since 2012, over 65 volunteer surveys have been completed.



Experience the Estuary Celebration

Over 360 supporters joined PDE at our 20th anniversary celebration! Thank you to our sponsors and everyone who came out for the live music, fresh Delaware Bay oysters, and silent auction.



Earth Day

In April, PDE and the City of Wilmington celebrated the 45th anniversary of Earth Day in downtown Rodney Square. Kids and adults alike enjoyed fun crafts, native plant giveaways, and eco-friendly raffles.

4

2016 FUNDERS, SPONSORS and DONORS

The Partnership for the Delaware Estuary thanks everyone who supported our work over the past year with contributions, grants, event sponsorship, cooperative agreements, and donations.

Grants, Contracts, & Project Funding Support

3Mgives

The Academy of Natural Sciences of Drexel University Barnegat Bay Partnership CARDNO

Center for the Inland Bays

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In Memory of Richard McSorley David McSorley





2016 Experience the Estuary Celebration Sponsors

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Kevin Donnelly

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Wilmington Blue Rocks

Fred Wood

Lisa Wool

2016 Volunteers

Thank you to all the individuals who generously gave their time and talents to help advance our mission in 2016. Some of our volunteer highlights from 2016 included:

- 20.8 tons of oyster shells recycled, with the help of 4 volunteers and 13 local restaurants.
- 3 river cleanups that removed over 520 tons of trash from the Estuary!
- Nearly 3,000 local Delaware Bay oyster shucked with the help of 7 amazing volunteers.
- Over 100 volunteer hours on PDE Board Committees.
- 3 living shorelines installed with the help of 6 volunteers.
- And so many more!

The Partnership for the Delaware Estuary makes every effort to ensure the accuracy of these listings. If you find an omission or a misspelling, please excuse our error and contact us at 1-302-655-4990, ext.114 so that we may update our records for future donor listings.





2016 Staff

Executive Team:

Led by Jennifer A. Adkins, Executive Director Nancy Descano, Deputy Executive Director Andrée Tyagi, Office Manager

Development Team:

Led by Debbie Heaton, Director of Development Elizabeth Horsey, Coordinator of Individual Giving Lorestine Pittman, Coordinator of Grants

Education & Outreach Team:

Led by Lisa Wool, Outreach Program Director Shaun Bailey, Marketing & Communications Coordinator

Kaitlin Collins, Watershed Planning Specialist Kate Hutelmyer, Senior Watersheds Coordinator

Michelle Knoll, Program Specialist Jeffrey Long, Watershed Outreach Specialist Virginia Vassalotti, Senior Schuylkill Action **Network Specialist**

Science & Restoration Team:

Led by Dr. Danielle Kreeger, Science Director Emily Baumbach, Science Planning Specialist Sarah Bouboulis, Habitat Specialist Kurt Cheng, Shellfish Specialist LeeAnn Haaf, Wetland Specialist Joshua Moody, Restoration Coordinator Angela Padeletti, Senior Science Coordinator Spencer Roberts, Science Fellow Science Interns: Sandra Demberger, Ryan Flannery, and Kathleen LaForce

2016 Steering Committee

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Judith A. Enck, Regional Administrator - U.S. Environmental Protection Agency, Region 2

Shawn M. Garvin, Regional Administrator - U.S. Environmental Protection Agency, Region 3

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Ed Ambrogio, Megan Mackey

U.S. Environmental Protection Agency, Region 2 – Nesmarie Negron, Irene Y. Purdy

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New Jersey Department of Environmental Protection -

Jay Springer, Dorina Frizzera, Ann Witte

Pennsylvania Department of Environmental Protection -Lori Mohr, Rhonda Manning

Philadelphia Water Department – Kelly Anderson U.S. Fish and Wildlife Service - Gregory Breese

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Chairperson: Susan Kilham, Ph.D. - Drexel University; Department of Bioscience and Biotechnology

Science Advisor: Danielle Kreeger, Ph.D. - Partnership for the Delaware Estuary

Ex Officio Representative: Jennifer A. Adkins - Partnership for the

Delaware Estuary, EIC Chair Lance Butler & Josef Kardos – Philadelphia Water Department Thomas Fikslin, Ph.D. – Delaware River Basin Commission (J. Yagecic, alternate)

Dorina Frizzera - New Jersey Department of Environmental Protection Kristin Regan & Kelly Somers - U.S. Environmental Protection Agency,

Hoss Liaghat - Pennsylvania Department of Environmental Protection David Wolanski – Delaware Department of Natural Resources and Environmental Control

ELECTED REPRESENTATIVES

Gregory Breese – U.S. Fish & Wildlife Service

David Bushek, Ph.D. - Rutgers University, Haskin Shellfish Laboratory

Laura Craig, Ph.D. - American Rivers

Jeff Fischer, Ph.D. - U.S. Geological Survey

Heather Jensen – U. S. Army Corps of Engineers

Desmond Kahn, Ph.D. - Scientist, Retired

Moses Katkowski - The Nature Conservancy

Gerald J. Kauffman, Ph.D. - University of Delaware,

Water Resources Agency

Alison Rogerson - Delaware Department of Natural Resources and Environmental Control

Pete Rowe - New Jersey Sea Grant Consortium

Kari St. Laurent, Ph.D. - Delaware Department of Natural Resources and Environmental Control

Kenneth A. Strait - PSEG

Elizabeth Watson - The Academy of Natural Sciences of Drexel University



Partnership for the 110 S. Poplar Street, Suite 202, Wilmington, DE 19801 (302) 655-4990, ext. 120 • www.DelawareEstuary.org

> The Partnership for the Delaware Estuary, a National Estuary Program, leads science-based and collaborative efforts to improve the tidal Delaware River and Bay, which spans Delaware, New Jersey, and Pennsylvania.