

2022 ANNUAL REPORT



Partnership for the
**DELAWARE
ESTUARY**

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

MESSAGE from the EXECUTIVE DIRECTOR

Dear Friends,

In 2022 we celebrated the 50th Anniversary of the Clean Water Act. Out of this historic legislation came many things, including the creation of the Delaware Estuary Program and the Partnership for the Delaware Estuary (PDE).

Since our founding in 1996, PDE has directly supported the vision and legacy of the Act through our work to improve water quality in our region, and we are more committed than ever to protecting and restoring the Delaware River and Bay.

Thank you to our Board of Directors, staff, partners, and supporters from across the region who helped make last year a success. We look forward to continuing to work together on behalf of Clean Waters, Healthy Habitats, and Strong Communities.

In gratitude for your ongoing support,



Kathy Klein
Executive Director



2022 BOARD of DIRECTORS

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2022 STATEMENT of ACTIVITIES*

FOR THE YEAR ENDED DECEMBER 31, 2022

Support and Revenue:

Government Grants and Contracts.....	\$1,687,985
Contributions and Grants.....	\$1,466,588
Other Revenue.....	\$ 19,982

TOTAL SUPPORT AND REVENUE.....\$3,174,555

Expenses:

Program Services.....	\$2,822,659
Management and General.....	\$ 218,011
Fundraising.....	\$ 107,682

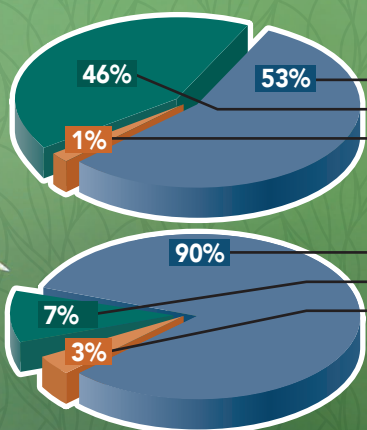
TOTAL EXPENSES.....\$3,148,352

Change in Net Assets.....\$ 26,202

Net Assets at December 31, 2021.....\$1,535,841

Net Assets at December 31, 2022.....\$1,562,043

*Audit not completed at time of publication.



Please remember PDE
in your giving!

CLEAN WATERS:

Freshwater Mussels



The Partnership for the Delaware Estuary continues its freshwater mussel research, restoration, and education work to improve biodiversity, water quality, and habitat enhancement. In 2022, we propagated over 10,000 freshwater mussels at the Philadelphia Water Department's Fairmount Water Works Demonstration Hatchery. We are also growing mussels at places like Green Lane Reservoir; Winterthur Museum, Garden, & Library; and even in stormwater ponds!

In conjunction with Bartram's Garden, PDE kicked off a capital campaign for the construction of the new Freshwater Mussel Hatchery and Ecosystems Education Center in Southwest Philadelphia. A first-of-its kind project, the hatchery could eventually produce up to 500,000 mussels each year. These animals will be used to rebuild natural mussel beds in streams, rivers, and ponds across our region and beyond.

A mussel using its foot to bury itself in a streambed.



Assessing the health of mussels at Winterthur in Wilmington, DE.



A variety of freshwater mussels.

HEALTHY HABITATS:

Green Infrastructure and Habitat Enhancement



Green infrastructure can provide easy, low-cost solutions to manage stormwater while also improving water quality and habitats in the Delaware Estuary. PDE works with schools and communities in the region to design and install these types of projects. One of the most common issues in any habitat project is proper maintenance, such as weeding and replanting. This continued site management helps the proper long-term functioning of these projects, so our team is creating new ways to educate and engage caretakers to ensure long-term success.

Planting a rain garden in Salem, NJ.





In 2022, PDE led the expansion of a native plant rain garden at a school in Salem, NJ. We also developed and installed a pollinator garden with 450 native plants at the H. Fletcher Brown Boys and Girls Club in Wilmington, DE. An educational program accompanied the project at this Boys and Girls Club, and students were involved in all stages of the process, including the weeding!

Local students help plant native plants in a new pollinator garden.



Working on a rain garden in Salem, NJ.



STRONG COMMUNITIES: Delaware River Festival

Engaging community members is a fantastic way to build stewardship, raise awareness, and engage the next generation of Delaware Estuary enthusiasts. Each year, PDE participates and hosts a large number of community and environmental events throughout the region. One of our largest and longest-running events is the Delaware River Festival.

After several years of operating as a virtual or hybrid event due to COVID-19 restrictions, in September 2022 the Delaware River Festival returned to Penn's Landing in Philadelphia, PA, and Wiggin's Park in Camden, NJ. Over 3,000 people attended, with 75% of them participating for the first time. The day included a bevy of fun activities, with opportunities to get on the water in pedal boats or rides on the ferry. Kids of all ages participated in a Delaware River themed scavenger hunt, crafts table, face painting, and entrance to the Independence Seaport Museum. PDE is proud to have hosted this annual event since 2002, which brings together thousands to celebrate our region's waterways and connect people to the Delaware River.

Kaitie aka "our freshwater mussel" shows us her "muscles".



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A father and son learn about their drinking water at a booth at the Delaware River Festival.

2022 FUNDERS, SPONSORS, and DONORS

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



GRANTS, CONTRACTS, & PROJECT FUNDING SUPPORT

3Mgives
AECOM
American Planning Association,
Delaware Chapter
American Water Resources Association
American Rivers
Aqua America, Inc.
Aqua Pennsylvania
Barnegat Bay Partnership
Center for Research in Wind
Christina Brandywine River Restoration,
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Delaware Alliance for Nonprofit Advancement
Delaware Community Foundation
Delaware County Regional Water Quality
Control Authority
Delaware Department of Natural Resources
and Environmental Control
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Delaware Sea Grant
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John Bartram Association
Klein Paul Fund
Longwood Gardens
Mercer County Parks Commission
Mid-Atlantic CHP Technical Assistance
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National Fish & Wildlife Foundation
National Oceanic & Atmospheric
Administration
National Sea Grant
National Wildlife Federation
Nature Conservancy
New Castle County
New Jersey Marine Sciences Consortium/
New Jersey Sea Grant
New Jersey Department of Environmental
Protection
NV5, Inc.
Pennsylvania Coastal Resources
Management Program
Pennsylvania Department of Environmental
Protection

Pennsylvania Infrastructure Investment
Authority (PENNVEST)
PECO Energy Company
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Philadelphia Water Department
Pinelands Preservation Alliance
Power Home Remodeling Group, LLC
PSEG Power LLC
PSEG Foundation
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River Network
Rutgers University
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Research Laboratory
Salesforce Foundation
Schuylkill River Restoration Fund
Stantec Consulting Services, Inc.
Sussex County Council
U.S. Department of Agriculture
U.S. Department of Defense, ERDC
U.S. Environmental Protection Agency
U.S. Fish & Wildlife Service
University of Delaware
University of Delaware, Environmental Club
University of Maryland
Wakefern Food Corporation
William Paterson University
William Penn Foundation
Winterthur Museum, Garden, & Library

CORPORATE & COMMUNITY ENVIRONMENTAL STEWARDSHIP PROGRAM (CESP)

New Castle County
Vicinity Energy

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Philadelphia Water Department
Pilot's Association for the Bay
and River Delaware
PSEG
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University of Pennsylvania,
Master of Environmental Studies
Urban Engineers, Inc.
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Verdantas
Vicinity Energy
Wood

2022 EXPERIENCE THE ESTUARY CELEBRATION SUPPORTERS

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Atlantic Capes Fisheries
Bivalve Packing Company
Elizabeth Bouchard
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Caesars Entertainment
Delaware Botanic Gardens
Roy Denmark
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Philadelphia Flyers
Philadelphia Union
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Shofuso Japanese House
and Garden
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2022 DONORS [Campaign year – January 1, 2022 through December 31, 2022]

\$5,000 and Above

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\$1,000 to \$4,999

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In Memory of Sophie Homsey

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In Honor of Eric Lienhard

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Thomas Gehret

Peggy McCutcheon

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In Memory of Michael D. Mellinger

Genevieve Goss

In Memory of Carl N. Schuster, Jr.

George Shuster

In Honor of Linda Swanson

Kj Swanson





PARTNERSHIP for the DELAWARE ESTUARY Staff

Kristie Arlotta, Delaware Community Assistant Coordinator
Chesa Blom, Philadelphia Community Coordinator
Sarah Bouboulis, Habitat Project Manager
Haley Burns, DELEP Coordinator
Kurt Cheng, Shellfish Programs Manager
Kristen Cooney, Schuylkill Action Network (SAN) Fellow
Kaitie Evers, Engagement and SAN Coordinator
Kelly Faller, Estuary Science Specialist
Karen Forst, Senior Grants Manager
Matthew Gentry, Shellfish Coordinator
LeeAnn Haaf, Ph.D., Estuary Science Manager
John Harrod, Engagement Director
Davian Higgins-Reeves, Staff Accountant
Elizabeth Horsey, Development Director
Kathy Klein, Executive Director
Jessica Klinkam, Restoration Specialist

Danielle Kreeger, Ph.D., Senior Science Director
Kate Layton, Communications Coordinator
Jonetta Lucas, Finance Director
Martha Maxwell-Doyle, Senior Coastal Resiliency Manager
Leah Morgan, Assistant Coordinator of Estuary Science
Nancy Nyamumbo, Staff Accountant
Kerry O'Connell, Development Coordinator
Meghan Rogalus, Schuylkill Action Network (SAN) Manager
Erica Rossetti, Urban Waters Program Coordinator
Ella Rothermel, Data Management Coordinator
Jana Savini, Coastal Collaboration Coordinator
Cyndi Slothour, Office Administrator
Ken Williamson, Restoration Specialist
Brian Yerger, Business and Operations Director

DELAWARE ESTUARY PROGRAM COMMITTEES

2022 STEERING COMMITTEE

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Marc Cammarata, Deputy Water Commissioner – Philadelphia Water Department
Lisa Daniels, Acting Deputy Secretary of Water Programs – Pennsylvania Department of Environmental Protection
Javier Laureano, Ph.D., Director of Clean Water Division – U.S. Environmental Protection Agency, Region 2
Vincent Mazzei, Assistant Commissioner for Watershed and Land Management – New Jersey Department of Environmental Protection
Adam Ortiz, Regional Administrator – U.S. Environmental Protection Agency, Region 3
Steve Tambini, Executive Director – Delaware River Basin Commission
Joseph Tarsavage, Chair – Partnership for the Delaware Estuary Board of Directors

2022 ESTUARY IMPLEMENTATION COMMITTEE

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Lynette Lurig, New Jersey Department of Environmental Protection
Catherine Magliocchetti, U.S. Environmental Protection Agency, Region 3
Rachael Phillos, Delaware Department of Natural Resources and Environmental Control
Chad Pindar, Delaware River Basin Commission
Susan Weaver, Pennsylvania Department of Environmental Protection
William Whalon, Philadelphia Water Department

2022 SCIENCE AND TECHNICAL ADVISORY COMMITTEE

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Chair: Dorina Frizzera – Getting to Resilience, LLC
Vice Chair: Gregory Lech – Pennsylvania Fish and Boat Commission, Division of Environmental Services
Science Advisor: Danielle Kreeger, Ph.D. – Partnership for the Delaware Estuary
Ex Officio Representative: Kathy Klein – Partnership for the Delaware Estuary, EIC Chair

STANDING REPRESENTATIVES

Lance Butler – Philadelphia Water Department
Randall Brown – Pennsylvania Department of Environmental Protection
Joshua Moody, Ph.D. – New Jersey Department of Environmental Protection
Alison Rogerson – Delaware Department of Natural Resources and Environmental Control
Kelly Somers – U.S. Environmental Protection Agency, Region 3
Namsoo S. Suk, Ph.D. – Delaware River Basin Commission, Monitoring Advisory Committee, & Toxics Advisory Committee

ELECTED REPRESENTATIVES

Laura Craig, Ph.D. – Princeton Hydro
Sheila Eyler – United States Fish and Wildlife Service
Ronald B. Heun, Jr. – Constellation Energy Generation, LLC
Doug Janiec – Sovereign Consulting, Inc.
Joshua Moody, Ph.D. – Partnership for the Delaware Estuary
Daphne Munroe, Ph.D. – Rutgers University, Haskin Shellfish Research Laboratory
Andrew Reif – United States Geological Survey
Pete Rowe – New Jersey Sea Grant Consortium
David Smith – United States Geological Survey
Kenneth A. Strait – PSEG
Bart Wilson – United States Fish and Wildlife Service



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 (302) 655-4990 • www.DelawareEstuary.org

The Partnership for the Delaware Estuary, host of the Delaware Estuary Program, leads collaborative, science-based efforts to improve the tidal Delaware River and Bay, which covers portions of Delaware, New Jersey, and Pennsylvania.