



*new* FACES

*changing* LANDSCAPE



# MISSION

The Delaware Center for the Inland Bays is a non-profit organization established in 1994 to promote the wise use and enhancement of the Inland Bays and its watershed. With its many partners, the CIB conducts public outreach and education, develops and implements restoration projects, encourages scientific inquiry, and sponsors research.



## *Dear Friends of the Bays,*

As I write this, a nor'easter has just pushed the waters of Rehoboth Bay over Coastal Highway. Traffic is creeping through saltwater now, and I cannot help but think: what will this scene look like when the sea has risen another couple of feet?

In 2014, the Center celebrated the achievements of the past 20 years to restore the Inland Bays. Now it's time to look ahead. The flood today is a harbinger of the environmental challenges that face us in the next 20 years.

When the Center was created in 1994, sea level rise was not much of a concern. Now we are planning for 3 to 5 feet of sea level rise by the end of the century. Delaware has the lowest average elevation of any state in the nation, and the lands around the Inland Bays are some of the lowest in Delaware. There is no doubt about it; sea level rise is the biggest challenge facing our community.

To ensure that the resources of the Bays are protected as sea level rise accelerates, the Center pledges to cooperate with all stakeholders to:

- Protect natural areas that are vulnerable to sea level rise, so that dynamic ecosystems like saltmarshes and sandy beaches may persist by migrating inland.
- Provide a neutral forum where science can guide the deliberations of all stakeholders on adapting to sea level rise.
- Educate children and new residents about the Bays: how they are dynamic and constantly on the move; and that as sea level rise increases, they will move inland even faster.

At the same time, the challenges that the Center was created to address are still with us. We must find more efficient ways to keep pollution out of the water, to restore fish and shellfish populations, and educate about the importance of clean water and healthy Bays.

**Success over the next 20 years rests on two things: your support and participation in this important mission. Please read on to see the work we have accomplished this year.**

At the Center for the Inland Bays, we focus on igniting people's passions about the water by imparting knowledge and involving people in its restoration. Every day, there are little things that we can do as a community and in our own lives that can have an immediate difference on the water that we love.

Thank you for your support,

Chris Bason, Executive Director





*james family*

RESEARCH...NEXT 20 YEARS

## JAMES FARM ECOLOGICAL PRESERVE

### *Preserving a wild place requires a plan*

In 1992, the last direct descendant of the James family gave the family farm in Ocean View to the people of Sussex County. What a vision Mary Lighthipe had... Cedar Neck was still rural. Today the James Farm Ecological Preserve is an oasis of open space amid resort development.

Since 1998, the Delaware Center for the Inland Bays has managed the 150 acre Preserve for recreation, education, research and restoration.

Last year, the Preserve felt the footsteps of 10 thousand visitors...many with their four-legged friends. We also welcomed nearly a thousand students for 'hands on, waders on' day of watershed education. But, we need to plan for many more visitors. According to projections, the population in Sussex County will increase 35% to 271,326 people by 2030. And many of them will discover the wonders of James Farm.

**Preserving the forests, marshes, beaches and wetlands AND accommodating the growth in visitors each year is the challenge that led us to create a Master Plan for James Farm.**

The James Farm Master Plan was completed in summer 2014 with Oasis Design Group and BioHabitats, It will guide us in accommodating the needs of visitors while protecting and preserving the plant and animal communities that make James Farm unique. It identifies facility needs such a restrooms and parking, storage for equipment and education programs, trail improvements and interpretive signage, and provisions for special events. The Plan also anticipates the impact of sea level rise, and makes recommendations to preserve undisturbed areas for wildlife.

The James Farm Master Plan can be viewed at [inlandbays.org/visit-us-james-farmecological-preserve](http://inlandbays.org/visit-us-james-farmecological-preserve).

**The James Farm Ecological Preserve belongs to all of us, and it will take the support of many people and partners to realize the vision embodied in the plan.**

Some of the priorities that we will seek early support for are:

- Re-design the parking area to serve more visitors.
- Improve facilities and spaces for education activities.
- Provide secure and weather-proof space for the equipment needed to care for the Preserve.
- Build state-of-the-art composting restrooms
- Create named trail loops to better organize the trail system and add interpretive signage.
- Enhance signage and trails to welcome more visitors to lesser used areas of the Preserve.

*Proposed plan for the re-design of the entrance to the James Farm Ecological Preserve.*



EDUCATE...NEXT 20 YEARS



## LIVING SHORELINES

*It has been said that 'today's flood is tomorrow's high tide'*

Coastal communities and homeowners have generally defended their shorelines from erosion by hardening them with stone rip-rap, or with wood or metal bulkheads. But these techniques have an environmental cost—they eliminate sandy beaches and salt marsh habitats that are so important to many marine animals, and they don't filter pollutants from surface runoff.

**In 2014, the CIB worked with partners to convene a statewide Living Shorelines committee of scientists, educators and managers.**

Together, we are working to bring Living Shorelines to all of Delaware's rivers, creeks and bays by creating demonstration projects, educating coastal residents, offering training to marine contractors so that they can offer living shorelines to their customers seeking solutions to shoreline erosion, and working on standards and regulations that promote and facilitate the use of living shoreline practices.

*This is an approach to shoreline stabilization that uses plants, sand, and limited use of rock to provide erosion protection while also maintaining valuable habitat.*

## JAMES FARM EDUCATION PROGRAM

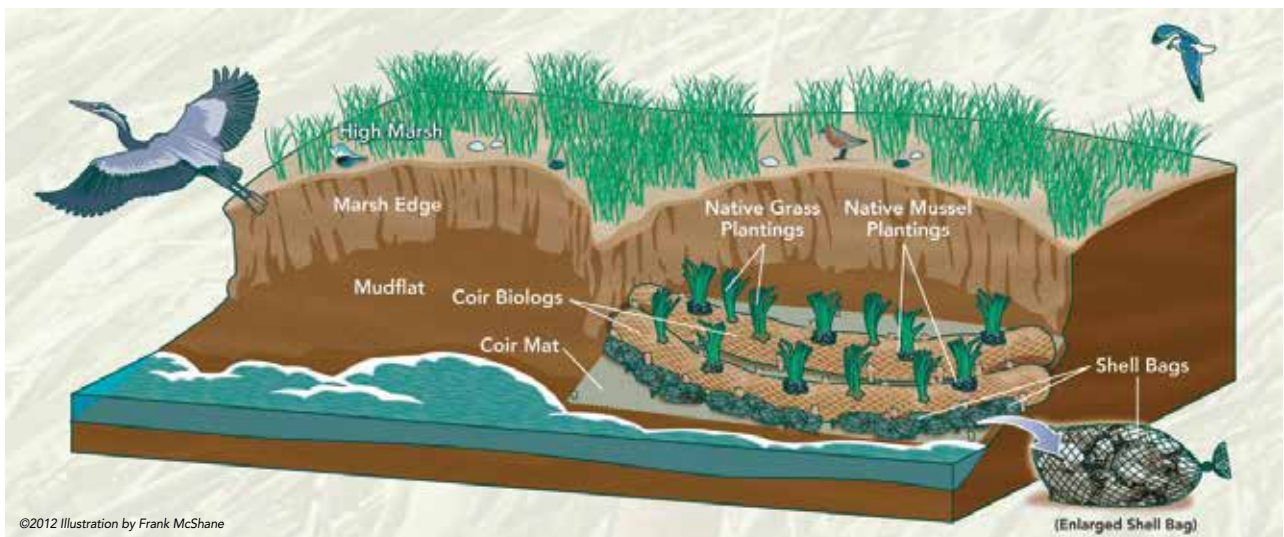
*Nowhere can you see the growing diversity of Sussex County better than in our schools*

Since 1999, we have partnered with Indian River School District to offer middle school students a day of watershed education at James Farm, an outdoor learning experience to show first-hand the concepts that are hard to demonstrate in the classroom.

For many of them, it is their first experience on the Bays and more than a few exclaim that it is their 'best day ever!'

Each school year about 1,000 students haul seine nets, test water quality and collect data on the flora and fauna of the salt marsh at James Farm, instructed by our teaching staff whose passion and knowledge inspire these future leaders of coastal Sussex.

**As we celebrate our 20<sup>th</sup> anniversary, it's just one of the ways that the Delaware Center for the Inland Bays is investing in educating future decision makers to be stewards of the Inland Bays.**



©2012 Illustration by Frank McShane



your creek

RESTORE...NEXT 20 YEARS



## OYSTER SHELL RECYCLING

### *Local restaurants are saving their 'shucks' for the Bays*

For years, oyster shell has been used to build roads, driveways and houses, with unused shell going to landfills. But today, the shells are an increasingly scarce natural resource for restoration, and we are banking them for future use on the Inland Bays. Last summer, the CIB partnered with local restaurants to recycle oyster shells from their raw bars.

#### **Oyster shell...an investment oysters can grow on!**

Oysters can't grow on the soft bottom of our Bays—they need hard bottom to form reefs, and oysters like nothing better than attaching to oyster shell. Oysters are like mini-water treatment plants, each one filtering up to 50 gallons of water a day, and removing nutrients that are the greatest pollution threat to the Bays. Oyster shell is also being used instead of rock in living shoreline projects to reduce wave energy and decrease shoreline erosion.



## YOUR CREEK

### *Community-based action creek by creek*

Many who live around the Inland Bays grew up in other places and don't know the rivers and creeks in their communities.

**Last year, we launched Your Creek, an initiative to introduce people in the watershed to their local creek.**

We began in 2014 with Love Creek, a tributary of Rehoboth Bay. Led by a volunteer team leader, the Love Creek Team worked with CIB staff to conduct surveys of residents to gather information on the concerns, opinions, and understanding of local creeks by residents and property owners and to disseminate information to the community on factors that are affecting water quality in Love Creek.

Each creek watershed is distinctive; it's condition affected by surrounding land use, its size and salinity, and its natural features. Over the next few years, the fourteen major tributaries that flow into the three Inland Bays will each have a team. Work continues on Love Creek, the Dirickson Creek Team on Little Assawoman Bay is just underway, and later in 2015, the Vines and Pepper Creek Team will begin their work.

To learn more about your creek or get involved, go to [inlandbays.org/projects-issues/your-creek](http://inlandbays.org/projects-issues/your-creek).



# THANK YOU TO OUR DONORS

## Grants and Contracts

Delaware Department of Natural Resources and Environmental Control  
 Clean Water Advisory Council  
 Community Water Quality Grants Program  
 Non-point Source Pollution Program  
 Universal Recycling Program  
 Delaware Nature Society  
 State of DE, Division of Motor Vehicles  
 Sussex County Council  
 The Nature Conservancy  
 Town of South Bethany  
 U.S. Environmental Protection Agency  
 University of Delaware Sea Grant  
 College Program Sustainable Coastal Communities Development Initiative

## Event Sponsors

Aqua Tech Water Specialties  
 Artesian Water Company  
 Atlantic Refrigeration and Air Conditioning  
 Baird, Mandalas and Brockstedt  
 Banks Wines and Spirits  
 Bethany Blues  
 Cardno  
 Carl M. Freeman Companies  
 Chesapeake Utilities  
 Clean Delaware  
 Delaware Beach Life  
 Delaware Botanic Gardens at Pepper Creek  
 Delaware Department of Natural Resources and Environmental Control  
 Delaware Sea Grant  
 Delmarva Power  
 Dewey Beach Lions Club  
 Great Scott Broadcasting  
 Harry Caswell Plumbing and Mechanical  
 NKS Distributors  
 NRG Indian River Power Plant  
 NV Homes  
 Perdue Farms  
 Stephen and Susan Soulas  
 Sussex County Council  
 State Farm—Ron Krajewski Agency

Tidewater Utilities  
 The Starboard  
 Town of Dewey Beach  
 Town of South Bethany  
 Vickie York

## Businesses for the Bays Members

16 Mile Brewery  
 A. Morton Thomas and Associates  
 Aqua Tech Water Specialties  
 Artesian Water Company  
 Atlantic Refrigeration and Air Conditioning  
 Baird, Mandalas and Brockstedt  
 Banks Wines and Spirits  
 The Bayville Package Store  
 Beazer Homes  
 Bethany Blues  
 Cardno  
 Carl M. Freeman Companies  
 Chesapeake Utilities  
 Clean Delaware  
 Delaware Beach Life  
 Delaware Botanic Gardens at Pepper Creek  
 Delaware Department of Natural Resources and Environmental Control  
 Delaware Sea Grant  
 DelMarVa Board Sport Adventures  
 Delmarva Power  
 Dewey Beach Lions Club  
 Dogfish Head Craft Brewery  
 Fisher's Popcorn—Bethany, Fenwick and Rehoboth Beach  
 Good Earth Market  
 Harry Caswell Plumbing and Mechanical  
 Joanne Shipley Graphic Design  
 Meris Properties, LLC  
 NKS Distributors  
 NRG Indian River Power Plant  
 NV Homes  
 Perdue Farms  
 Royal Farms  
 Samplers Revisited  
 State Farm—Ron Krajewski Agency  
 The Starboard  
 Sussex County Council

Town of Dewey Beach  
 Town of South Bethany  
 Vickie York

## \$1000 and up

Chris Bason  
 Cedar Shores Condo Association  
 Ann G. Riley and Thomas M. Bouchelle  
 Becky Brewer and Greg Pfister  
 Dogfish Head Craft Brewery  
 George and Barbara Junkin  
 Anne and Bill Lowe  
 Austin Okie  
 In Memory of Ike Weaver

## \$500-\$999

Susie Ball  
 In Memory of Ed Chalabala  
 Dr. Cynthia Flynn and Deirdre Boyle  
 Royal Farms  
 Rehoboth Bay Foundation  
 State Farm—Ron Krajewski Agency  
 Carl P. Leubsdorf and Susan L. Page  
 Clare Herington and Laurence Platt  
 Suzanne Schwartz

## \$250-\$499

Jennifer Adkins and Andy Cloud  
 Hans and Norma Banziger  
 Beverly Corelle  
 Dan Costello  
 Richard and Wanda Drnec  
 Richard E. Fisher  
 Jay and Mary Headman  
 Michael and Cynthia Headman  
 Charles and Delourdes Hollis  
 Pete Keenan  
 Gregory and Mary Kordal  
 John Kramer  
 Thomas and Kathleen Lewis  
 Nancy and Thomas Sager  
 Stephen and Susan Soulas  
 Salisbury University Foundation, Inc.  
 In Memory of Ziggy Stanczak  
 Norine and George Watson  
 Patty Yergey

## \$150-\$249

Buzz and Kathy Adkins  
 Sherry and Daniel Billig  
 Glenn and Madolyn Dallas  
 Frances Hart  
 Buzz and Betsy Henifin  
 Mary Perkins and Kenneth Hooker  
 Robert and Joanne Levy  
 Anonymous  
 James C. Mankin  
 Gail Meucci  
 Marie Noster  
 Ann and Steve Piron  
 Gail and Bob Russell  
 John and Vicki Rymer  
 David Carroll and John Sappington  
 William Janson and Lori Shmukler  
 Charles Skinner  
 Gary and Linda Taylor  
 Lord Baltimore Lions Charities  
 Mayor Pat Voveris

## \$75-\$149

Allan and Sue Allenspach  
 Richard and Dorothy Appleby  
 Bob and Lisa Aramony  
 Bill Ullman and Kim Ayvazian  
 Robert Bachand  
 Dennis and Anne Bartow  
 Carol and Tom Bason

Arthur and Audrey Borden  
 Paul and Jeanne Boswell  
 Representative Ruth Briggs King  
 Steven Britz  
 Alan O. Perantoni and Tracie E. Bunton  
 John and Joan Clifton  
 Bob Cubbison  
 Lord Baltimore Women's Club  
 Suzanne Culin  
 Kenneth Currier  
 David and Linda Davidson  
 Ruth and Nelson Denlinger  
 Kevin Donnelly  
 Karen Dudley  
 C. Edward Duvall  
 Robert and Sara Edwards  
 Joe Farrell  
 Heidi and Kevin Gilmore  
 Jack and Joan Gordon  
 Robert and Cynthia Hibbert  
 Terrance and Martha Higgins  
 Dorothy Jones and Patricia Jones  
 Michael and Diane Kane  
 Ron and Peggy Kernehan  
 Lois Kinckiner  
 Anna M. Legates  
 Alexander Levi  
 Mary Jane Lindblad  
 Lord Baltimore Women's Club  
 Katy and Jamie Mann  
 Charles and Lee Miller  
 Roy and Diane Miller  
 Marcia Maldeis and Stan Mills  
 John Schneider and Susan Moerschel  
 Daniel Morris  
 Rick and Linda Palmer  
 Anthony E. Pegg  
 Sally and Larry Persa  
 Mitchell and Teresa Petawick  
 Mary Appollina and Pamela Petill  
 Cindy and David Popovich  
 David Blockstein and Debra Prybyla  
 Doug Purcell  
 Patricia H. Ragan  
 Dr. Roberta Ray  
 Ron Riegert  
 Steve and Jill Roberts  
 In Memory of Glenn Salyards  
 Neil Anthony Sands  
 Beth Shank  
 Joanne Shipley  
 Ron Smith  
 Marybeth Sorady  
 Susan Stringfield  
 Ray Sander and Sheryl Swed  
 Michael and Donna Thomas  
 Jan and Greg Thompson  
 Carole Toomey  
 Joan Wallace  
 E. Lanie Muffin Waters  
 In Memory of Martha Williams  
 Bay View Park Association  
 Fenwick Island Society Homeowners

## Up to \$75

Colin and Elizabeth Anolick  
 Geoffrey Bock  
 Walter Bradford  
 Bob Brooks  
 Lawrence A. Brown  
 Allan Cairncross  
 Jeffrey Chandross  
 Glenn Christman  
 William Cooper  
 Violette Cousineau  
 Diana H. Cowell

**DELAWARE CENTER FOR THE INLAND BAYS**  
 Research. Educate. Restore.

Go to [inlandbays.org](http://inlandbays.org) for information on how you can  
**Get on board with the Bays**  
*in 2015.*

Rehoboth Bay | Indian River Bay | Little Assawoman Bay

Letitia L. Diswood  
 Robert and Mary Jane Dowler  
 Dr. James J. Eberhardt  
 George and Susan Eckert  
 Delaware Fisherman's Alliance  
 Muns and Linda Farestad  
 Anne Carol Finley  
 Cheryl and Wayne Fisher  
 T and Gene Fullerton  
 F. Gregory Gause Jr.  
 John and Susan Gelb  
 Meg and Todd Goldthwaite  
 James and Susanne Gross  
 Barbara and Richard Haas  
 Donald and Carol Hanson  
 Kay and Robert Hastings  
 Denise Hoeksema  
 Ptery Iris  
 Dave Jaeger  
 Jennifer Jones  
 Ian Kaufman  
 James J. Kennedy  
 Gene and Emma King  
 Joan King  
 Luke and Wanda Lalande  
 William S. Lee  
 Caroline Lindauer  
 Lisa Locke  
 Lorraine Logan  
 Barbara J. Loper  
 David Ludlow  
 Marti Marino  
 Lowell and Terry Markey  
 Mike Marrone  
 Lois and Richard McClain  
 Joseph and Carey McDaniel  
 Ian and Linda McDermott  
 John McDermott  
 Jack N. McDonald  
 Jodi McLaughlin  
 Clifton and Mary Mitchell  
 Alice Mohrman  
 The Mohrman-Julian Family  
 Carla and John Moose  
 Grace and Ric Nelson  
 Stephanie and Mike Norton  
 Shannon and Greg O'Neill  
 Wally and Paula Pflpelson  
 Pat Powell  
 Alma Quigley  
 Marlene Quinn  
 G. Fenton Ray  
 Nancy and Steve Rice  
 E. Anne Riley Ph.D.  
 Dave and Shirley Ritondo  
 Patricia Pope Rockett  
 Thomas A. Roth  
 Warren and Terri Rumble  
 Thomas and Felicetta Ryan  
 Paul and Kim Saville  
 Paula J. Schneider  
 Chuck Schonder  
 Robert Schumm  
 Marie Schwoyer  
 Loretta Smith  
 Barbara Sorgeler  
 Christine Stone  
 Michael and Donna Thomas  
 Jim and Haydee Toedtman  
 Bette Wade  
 Marianne Walch  
 Ann Whaley  
 Edward Whereat  
 In honor of Charles and Pat Humphries  
 Lisa Wool  
 James Zwiebel

## Statements of Assets, Liabilities and Fund Balances—Accrual Basis September 30, 2014 and September 30, 2013

### ASSETS

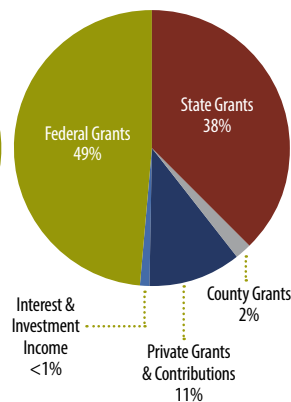
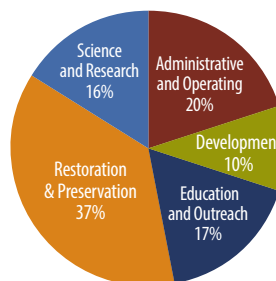
	2014	2013
<b>Current Assets</b>		
Cash in banks	\$ 323,647	\$ 421,575
Grants receivable—State of Delaware	217,411	209,200
Prepaid Expenses	15,220	12,193
Unbilled receivables	1,510	12,404
<b>Total Current Assets</b>	<b>557,788</b>	<b>655,373</b>
<b>Property, Plant and Equipment (at cost)</b>		
Land	125,000	125,000
Building	872,508	872,508
Furniture and equipment	474,840	469,517
	1,472,348	1,467,025
Less accumulated depreciation	(596,401)	(550,969)
<b>Total Property and Equipment</b>	<b>875,947</b>	<b>916,056</b>
<b>Other Assets</b>		
DE Community Foundation Endowment Fund	113,586	94,014
<b>Total Assets</b>	<b>1,547,321</b>	<b>1,665,443</b>

### LIABILITIES AND FUND BALANCES

	2014	2013
<b>Current Liabilities</b>		
Accounts Payable	\$ 26,259	\$ 97,226
Payroll taxes	920	859
Accrued salaries & benefits	37,019	32,453
<b>Total Current Liabilities</b>	<b>64,198</b>	<b>130,538</b>
<b>Fund Balance</b>		
Unrestricted		
Board designated*	113,586	94,015
Net assets invested in property & equipment	692,328	714,140
Undesignated	552,209	601,750
Total unrestricted	1,358,123	1,409,905
Permanently restricted**	125,000	125,000
<b>Total Fund Balance</b>	<b>1,483,123</b>	<b>1,534,905</b>
<b>Total Liabilities and Fund Balance</b>	<b>\$ 1,547,321</b>	<b>\$ 1,665,443</b>

\* Endowment Fund \*\* Protected Land

EXPENSES	AMOUNT
Administrative & Operating	\$239,258
Development	\$116,399
Education & Outreach	\$210,212
Restoration & Preservation	\$443,688
Science & Research	\$191,940
<b>Total Expenses</b>	<b>\$1,201,497</b>



REVENUES	AMOUNT
Federal Grants	\$561,409
State Grants	\$434,404
County Grants	\$20,000
Private Grants & Contributions	\$126,373
Interest & Investment Income	\$7,529
<b>Total Revenue</b>	<b>\$1,149,715</b>



*Celebrating 20 years!*

DELAWARE CENTER FOR THE  
**INLAND BAYS**  
Research. Educate. Restore.

39375 Inlet Road  
Rehoboth Beach, DE 19971

Return Service Requested

Nonprofit Org  
U.S. Postage  
PAID  
Wilmington, DE  
Permit No. 674

#### BOARD OF DIRECTORS

**Mr. Richard Eakle**, *Chair; January–June 2014*  
*Appointee of the President Pro Tem of the Delaware Senate*

**Ms. Joanne Cabry**, *Chair, July 2014–present*  
*Vice Chair, January–June 2014; Appointee of the Speaker of the Delaware House of Representatives*

**Ms. Nancy Cabrera-Santos**, *Secretary; January–September 2014, Citizens Advisory Committee*

**Dr. Susan Ball**, *Secretary, September 2014–present, Citizens Advisory Committee*

**Mr. David Baird**, *Treasurer; Sussex Conservation District*

**Dr. Scott Andres**, *Scientific and Technical Advisory Committee*

**Secretary Edwin Kee**, *Delaware Department of Agriculture*

**Mr. Todd Lawson**, *Sussex County Administrator*

**Secretary Collin O'Mara**, *January–June 2014*  
*Department of Natural Resources and Environmental Control*

**Secretary David Small**, *July 2014–present, Department of Natural Resources and Environmental Control*

**Mr. Gordon Wood**, *January–March 2014, Sussex County Association of Towns,*

**Mayor Diane Hanson**, *March 2014–present, Sussex County Association of Towns,*

**Mr. Robert Robinson, Esquire**, *Appointee of the President Pro Tem of the Delaware Senate*

**Mr. Edward Ambrogio**, *(Ex-officio); U.S. Environmental Protection Agency*

#### CIB STAFF

**Mr. Chris Bason**, *Executive Director*

**Dr. Dennis Bartow**, *Schoolyard Habitat Coordinator*

**Ms. Sally Boswell**, *Education & Outreach Coordinator*

**Mr. Eric Buehl**, *Land Protection and Restoration Coordinator, January–September 2014*

**Mr. E.J. Chalabala**, *Aquatic Restoration Coordinator, January–September 2014*

**Mr. Robert Collins**, *Property Manager*

**Ms. Pat Drizd**, *Volunteer Coordinator (Volunteer)*

**Ms. Robin Heath**, *Program Assistant*

**Ms. Jenn Jones**, *Development & Marketing Coordinator*

**Mr. Roy Miller**, *Environmental Policy Coordinator*

**Ms. Loretta Smith**, *Administrative Assistant*

**Dr. Marianne Walch**, *Science and Restoration Coordinator, January 2015*

**Mr. Bartholomew Wilson**, *Science & Technical Coordinator, January–September 2014*

*Photo by Dennis Bartow*  
*Printed on recycled paper.*