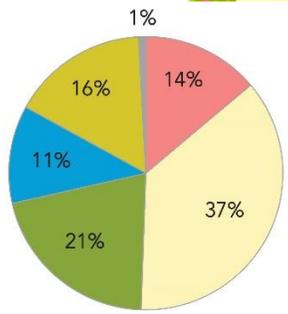
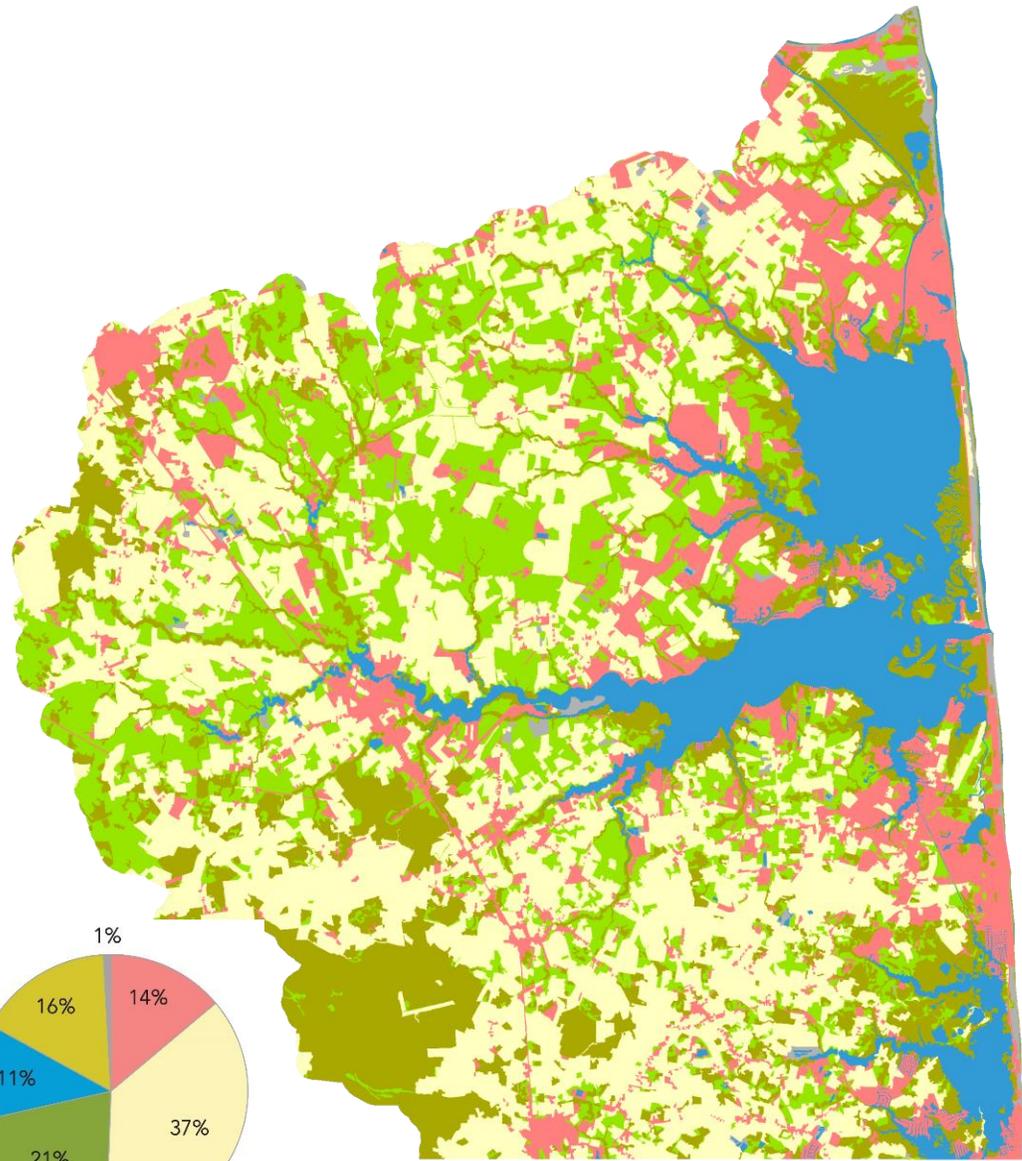




DELAWARE CENTER FOR THE
INLAND BAYS
Research. Educate. Restore.

Watershed Reforestation

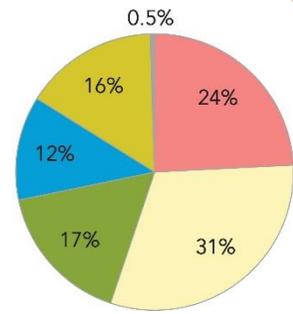
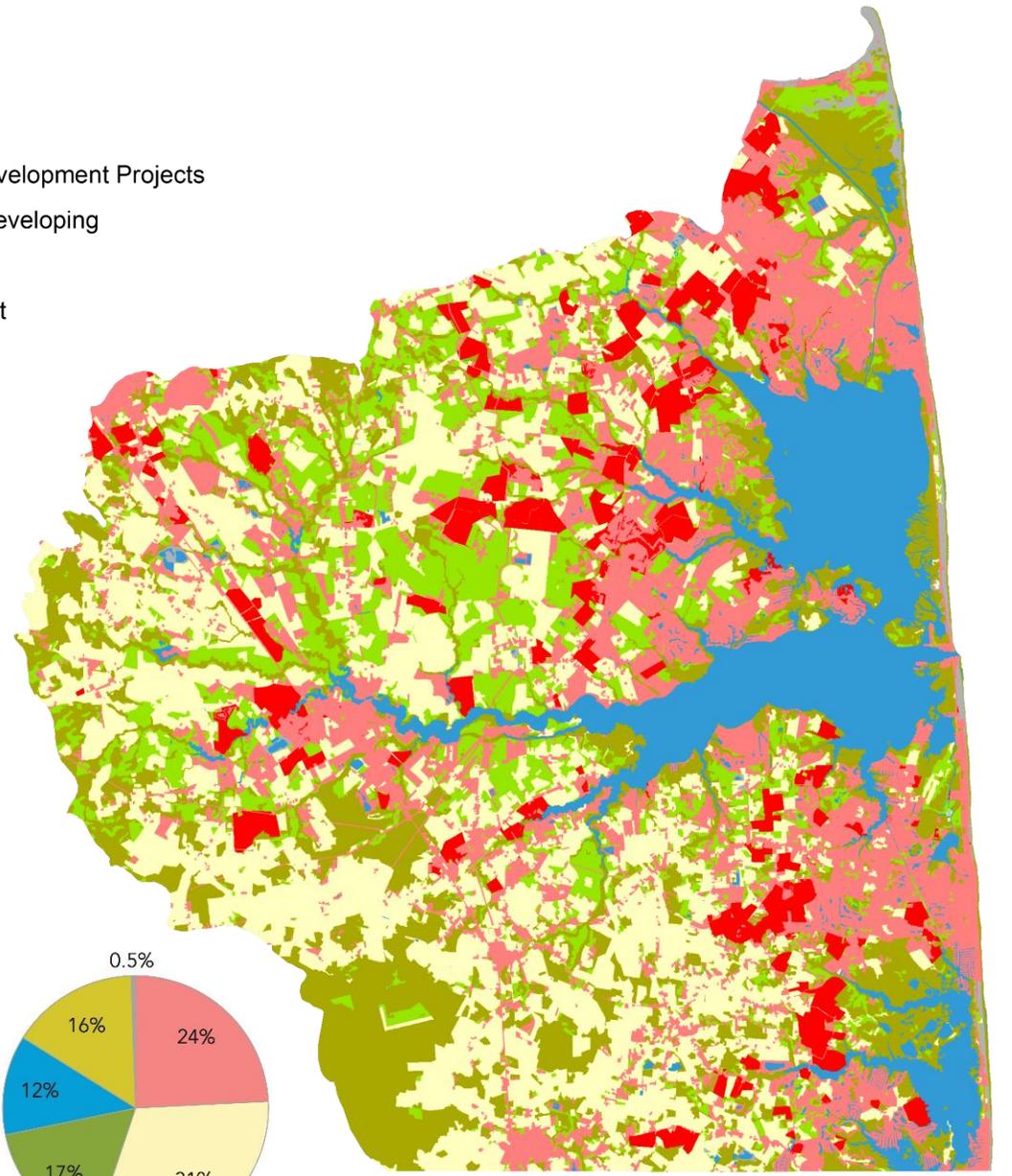
*Dr. Marianne Walch
CIB Science & Restoration Coordinator*



1992

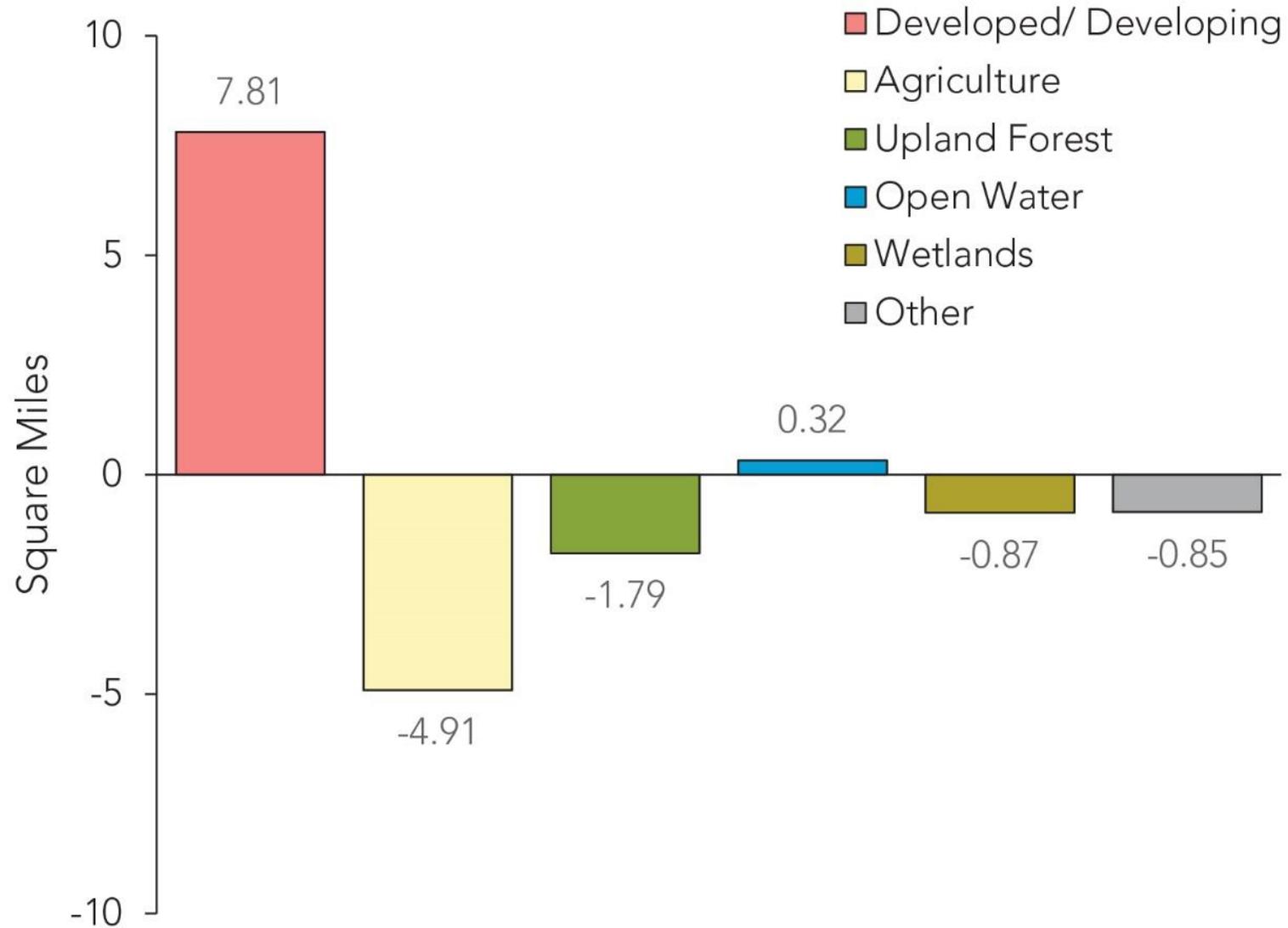
Land Use

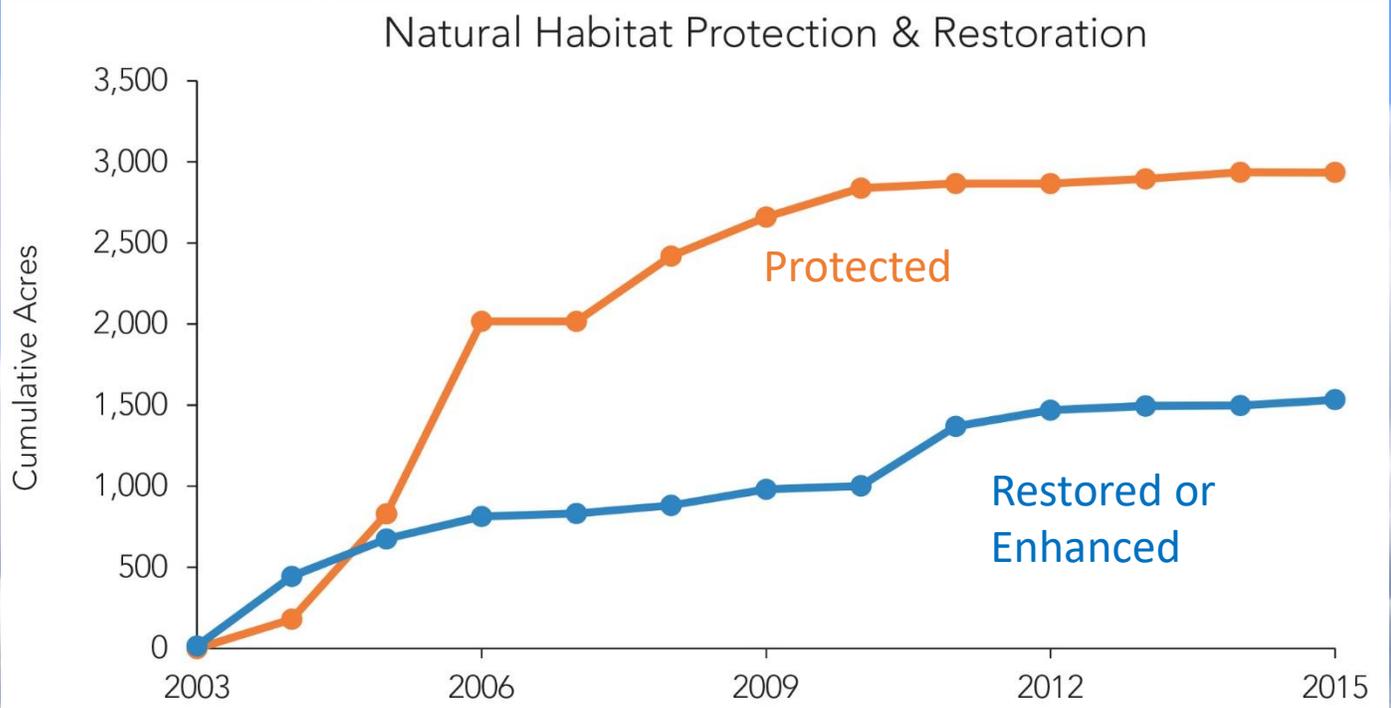
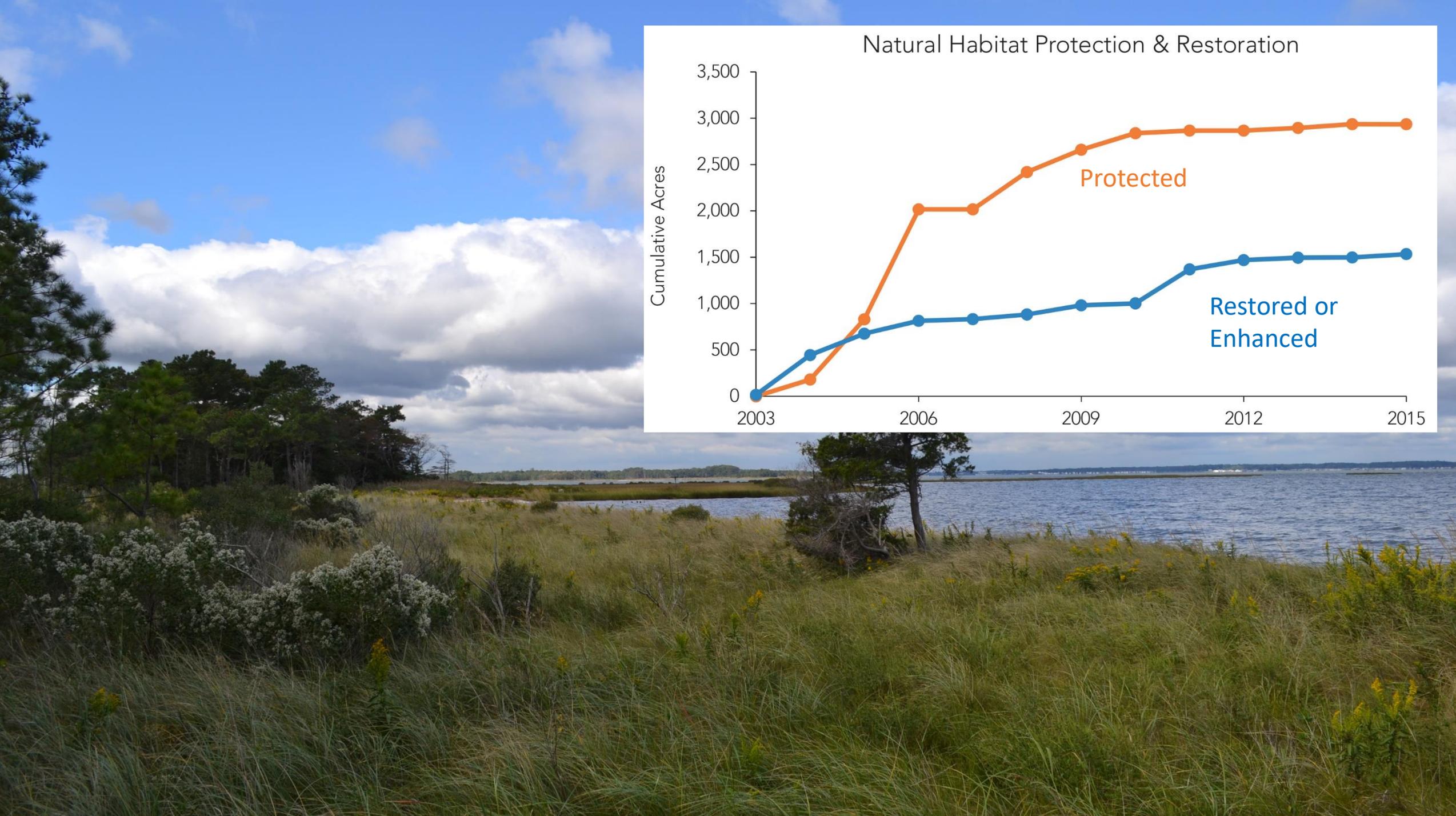
- Proposed Development Projects
- Developed/Developing
- Agriculture
- Upland Forest
- Open Water
- Wetland
- Other



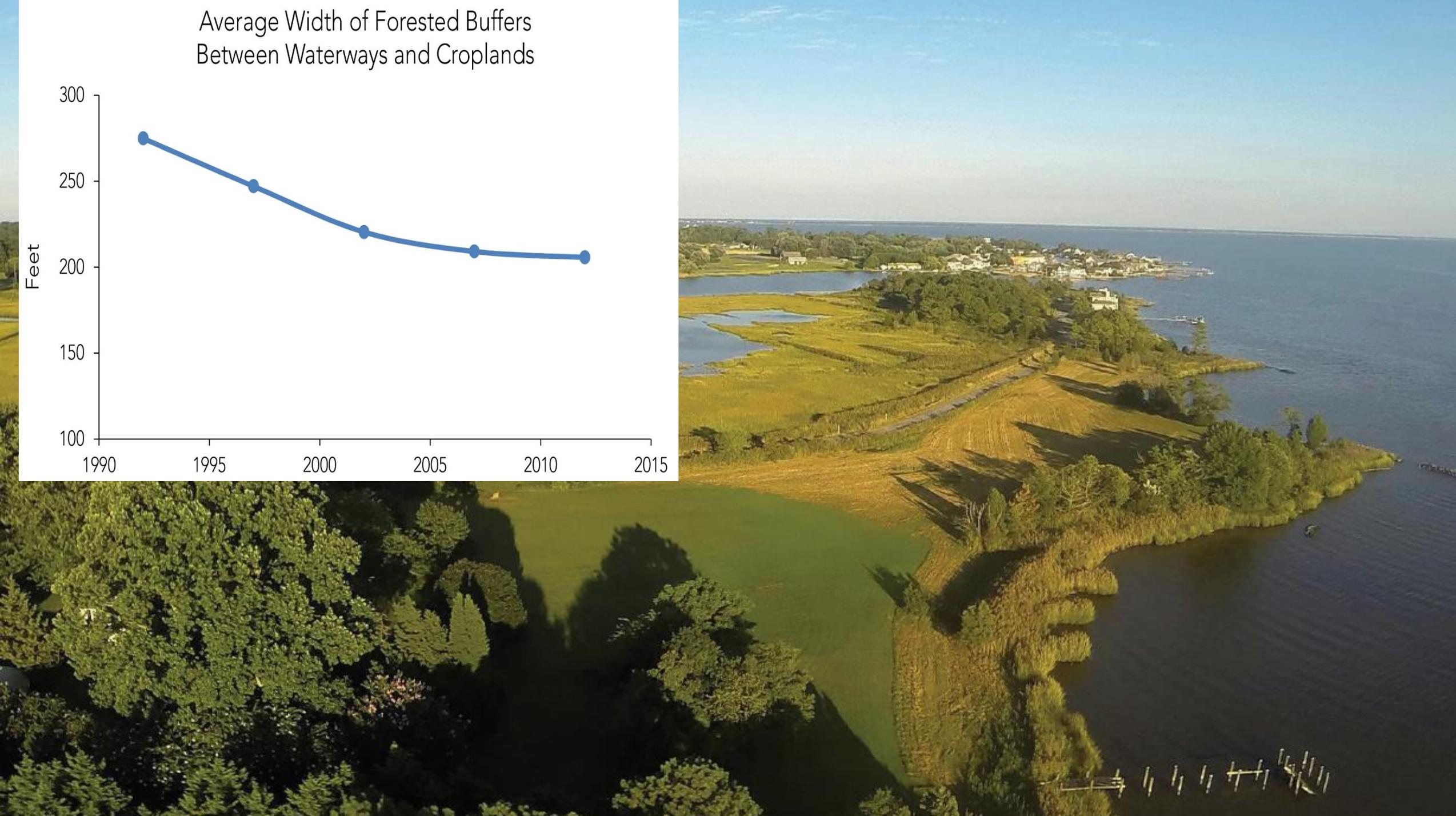
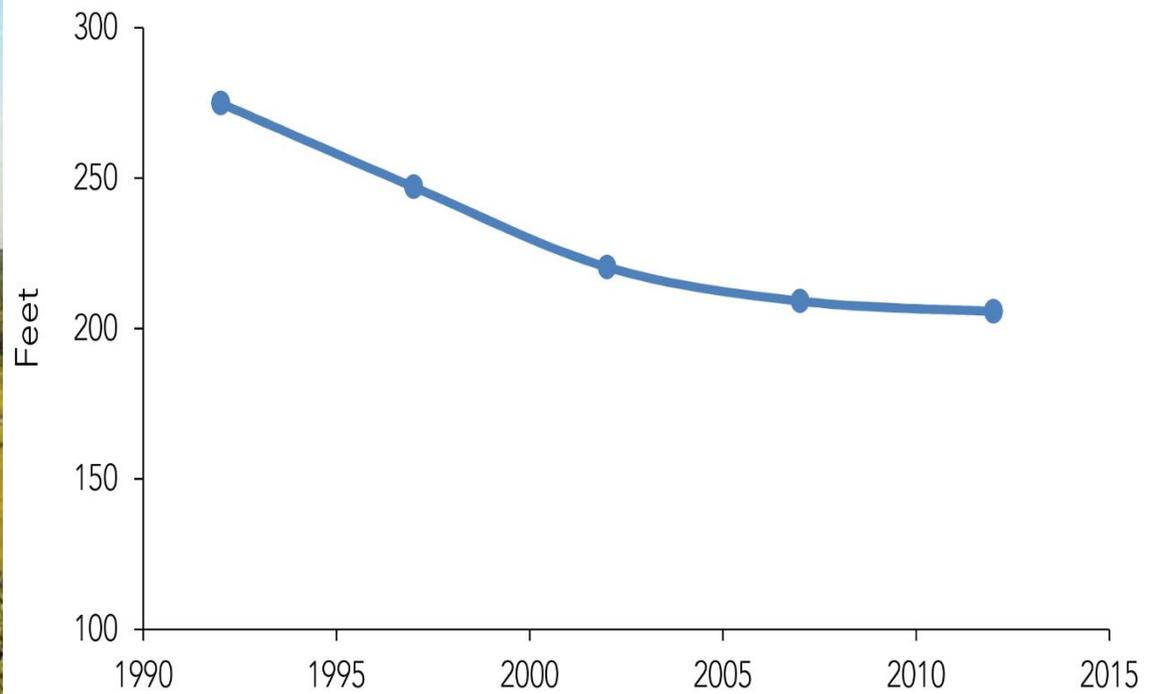
2012

Changes in Land Use from 2007 to 2012





Average Width of Forested Buffers
Between Waterways and Croplands



Preserve, Protect, and Restore

Priorities

- Protect remaining high-quality natural areas
- Restore degraded habitats
- Preserve/restore/expand forested buffers
- Connect fragmented habitats, interior forest
- Reintroduce species, remove stressors
- Improve water quality

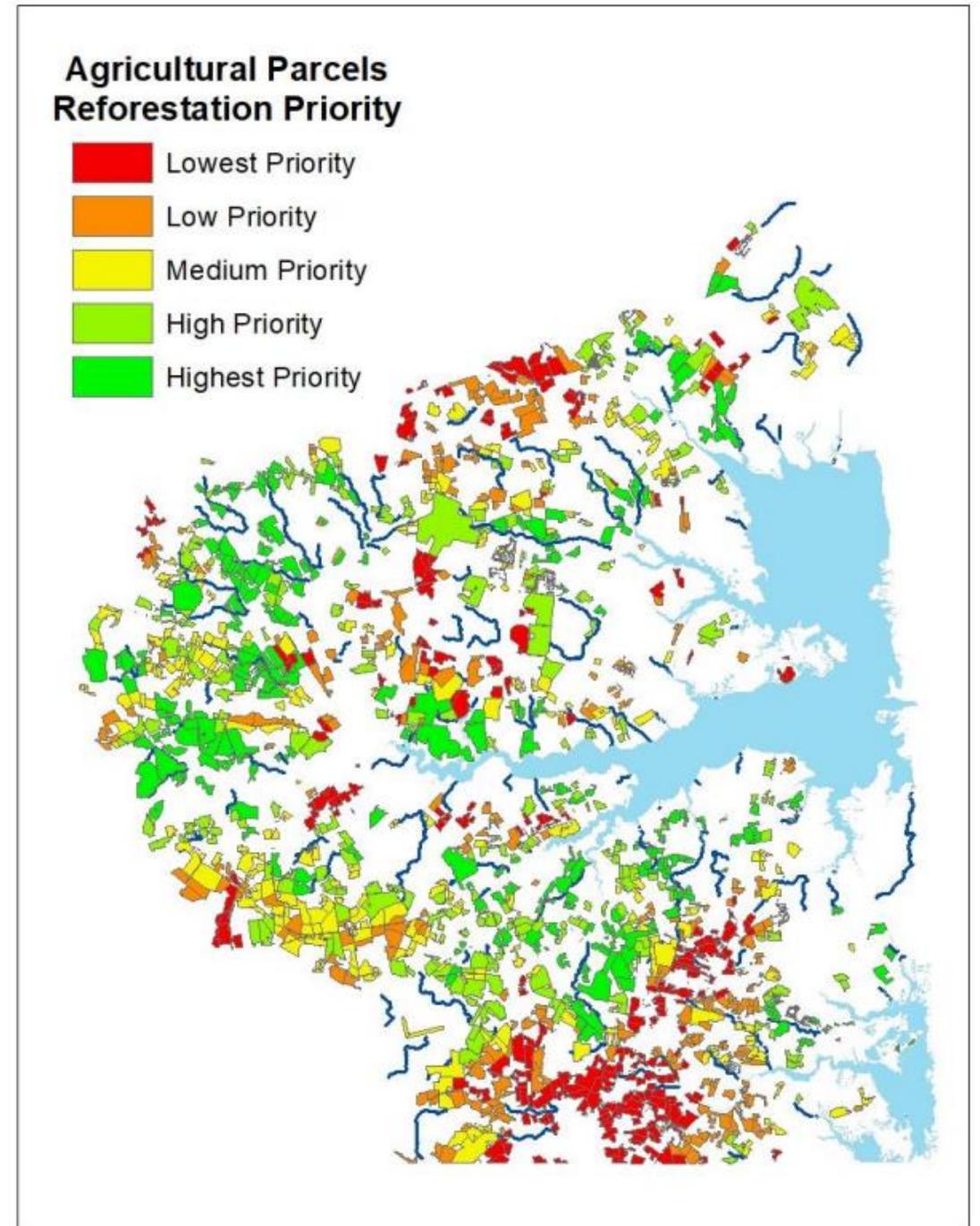


Habitat Restoration Efforts at CIB



Watershed Reforestation Initiative & Planning

- Agricultural parcels prioritized to identify effective, voluntary projects
- Public and private lands
- Concept plans and costs
- Outcomes: N&P reductions, interior forest, carbon sequestration



Project Name	Landowner	Project Type	Acres	Cost	Total N Reduction (lbs/yr)	Total P Reduction (lbs/yr)	Interior Forest Created	CO2	Priority	Date Available
								Sequestered (lbs over 20 years)		
Burbage Road	Sussex County	Reforestation	20	\$ 26,251.93	340	8	3	39,606,082	Low	2018
Assawoman Wildlife Area - Mulberry Landing Road	DNREC Div. Fish & Wildlife	Reforestation	3.5	\$ 4,001.16	59.5	1.4	4	6,931,411	Highest	2018
		Habitat Island	3.5	\$ 7,339.86	59.5	1.4	-	-	Highest	2018
Ogre Drive	Trst. of the Protestant Church of DE	Reforestation	43.29	\$ 21,904.74	1775	58	-	39,606,082	Highest	2018
Seppi Road	Henry Seppi	Reforestation	40.83	\$ 20,659.98	649	16	-	37,346,442	Highest	2018
Assawoman Wildlife Area	DNREC Div. Fish & Wildlife	Reforestation	14.5	\$31,402.79	246.5	5.8	9.8	28,709,904	Highest	2019
		Habitat Island	14.5	\$37,274.79	246.5	5.8	-	-	Highest	2019
Piney Neck & Adams Road	Sussex County	Reforestation	58	\$65,604.63	986	23.2	77	80,404,368	Lowest	2019
Midlands Wildlife Area - Morris Tract	DNREC Div. Fish & Wildlife	Reforestation	28	\$ 22,980.00	476	11.2	40	55,451,288	Highest	2019
Assawoman Wildlife Area - Piney Point Tract	DNREC Div. Fish & Wildlife	Reforestation	20	\$ 27,305.29	340	8	15	39,606,082	High	2019
Lighthouse Road	Sussex County	Reforestation	9.6	\$ 19,107.52	163.2	3.8	4	19,005,929	Low	2022
Glade Farm Road	DNREC Div. Parks & Recreation	Reforestation	25.88	\$ 17,547.33	1,113	36	-	51,250,853	High	2024
Totals:			263.6	\$252,387.95	6,148.2	171.4	93.8	397,918,441		



Lochwood

Rd 277

24

Angola

Angola by the Bay

279

Angola Neck Preserve

277

279

Baywood Greens Golf Maintenance

Rehoboth Bay

© 2020 Google

© 2020 Google

© 2020 Google

Angola Neck Preserve Perry Tract

- Planted in four phases – 2014-2017;
- 38.4 acres, 34,000 trees
- 20 acres interior forest created
- 652 lbs TN, 16 lbs TP removed
- >12 million lbs CO₂ sequestered over 20 years



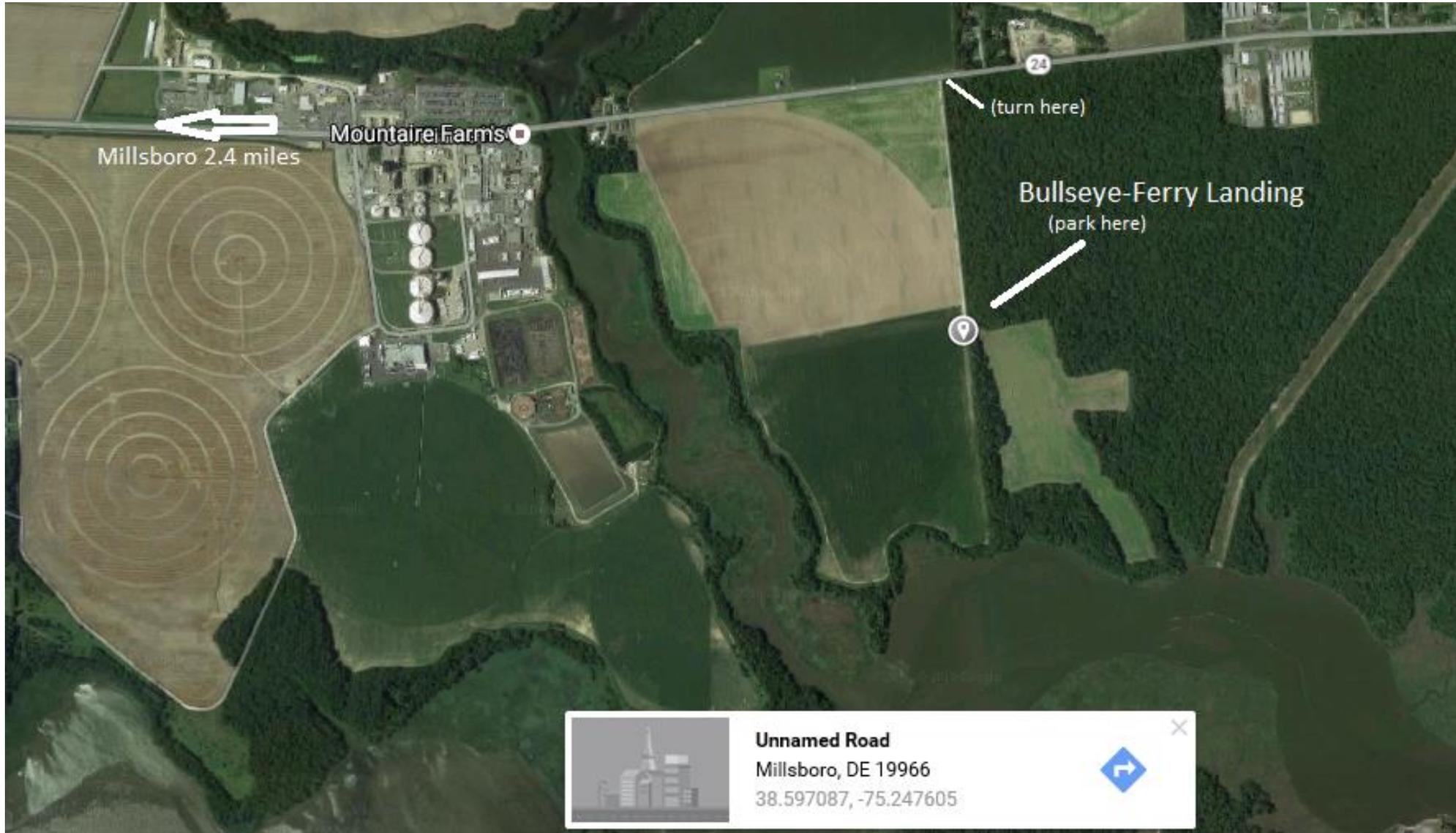
Angola Neck Preserve Perry Tract



Angola Neck Preserve



Bullseye Ferry Landing Preserve



Bullseye Ferry Landing Preserve



Sassafras Landing, AWA



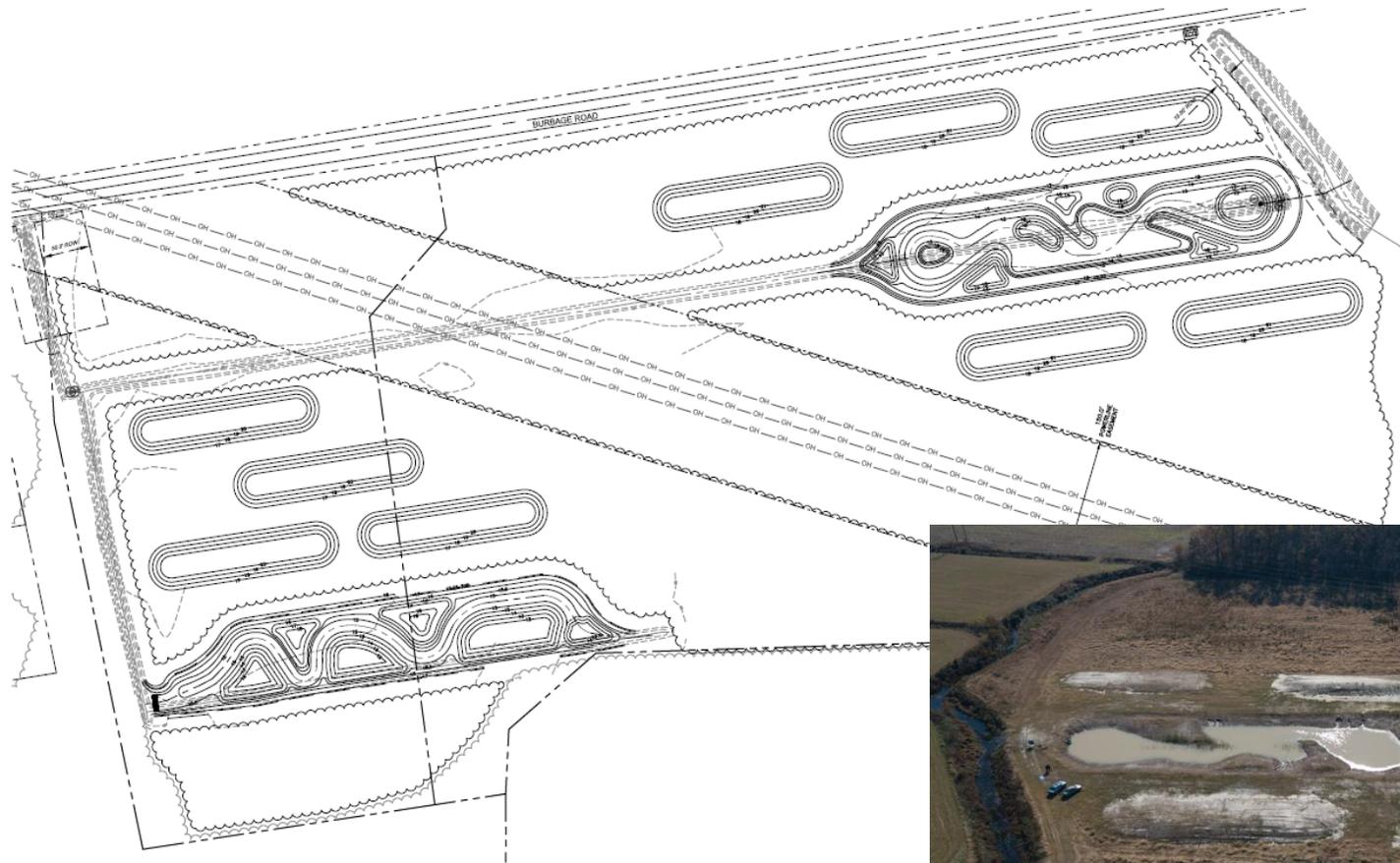
Muddy Neck, AWA



Muddy Neck, AWA



Burbage Road Wetland and Reforestation



LOCATION MAP

PROJECT INFORMATION

PLAN DATE: JUNE 11, 2019
OWNER: SUSSEX COUNTY
 C/O HANS MIELARZ
 COUNTY ENGINEER
 P.O. BOX 509
 GEORGETOWN, DE 19847
 PH: 302-730-9921
APPLICANT: SUSSEX CONSERVATION DISTRICT
 C/O DAVID SANDOZ
 DISTRICT COORDINATOR
 23618 SHORTLY RD
 GEORGETOWN, DE 19847
 PH: 302-856-2105
PROJECT LOCATION: BURBAGE ROAD
 FRANKFORD, DE 19845
TAX MAP: 134-15.00-3.01
 CED BOOK: 4811, PG:168
 134-15.00-3.02
 CED BOOK: 4227, PG:39
ZONING: AR-1

LEGEND



Owner's Certification Statement:

I, the undersigned, certify that all land clearing, construction and development shall be done in accordance with the approved plan and that reasonable maximum flow will be maintained throughout the project.



Burbage Road Wetland and Reforestation

Partners: Sussex County, Sussex Conservation District

Objectives:

- 20 acre parcel taken out of production
- Drainage ditch converted to 1.8 acre treatment wetland BMP
- 7 acres planted in 3,000 native trees

Importance:

- 119 lb TN, 2.8 lb TP reduced
- Biodiverse, native forest habitat
- Stormwater credits for Sussex County



Great Cypress Swamp - Long Field

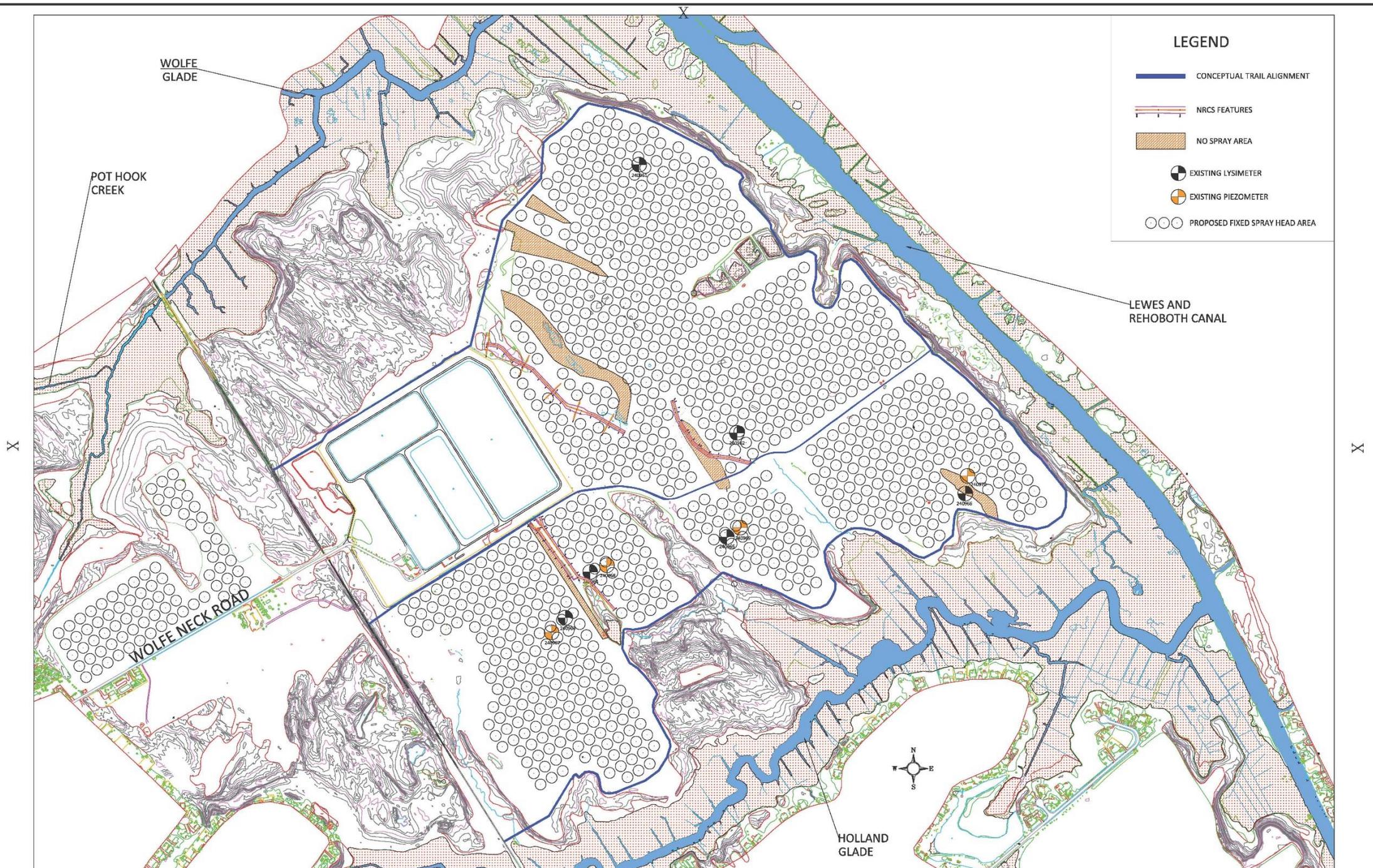


Wolfe Neck WWTP

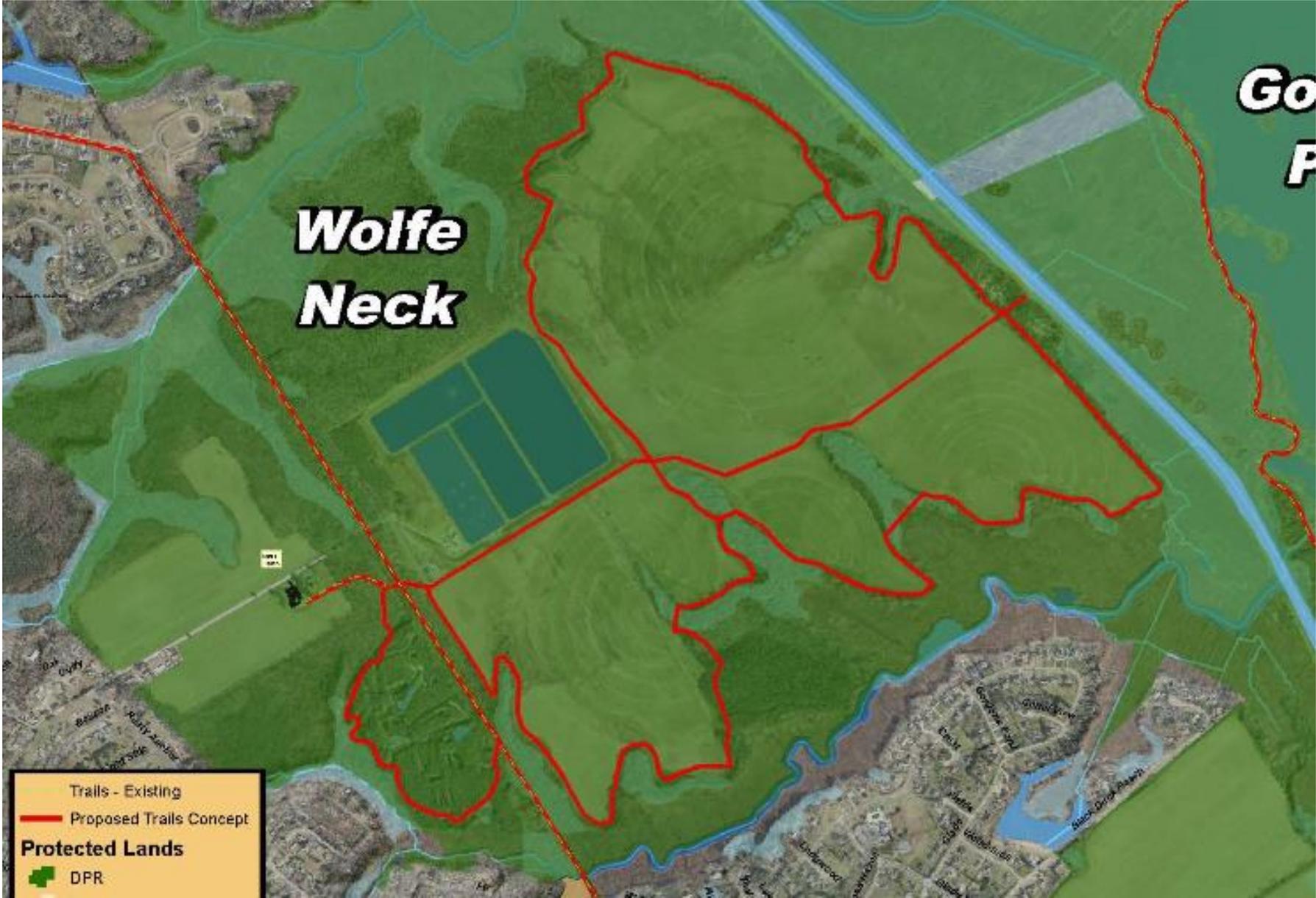


LEGEND

-  CONCEPTUAL TRAIL ALIGNMENT
-  NRCS FEATURES
-  NO SPRAY AREA
-  EXISTING LYSIMETER
-  EXISTING PIEZOMETER
-  PROPOSED FIXED SPRAY HEAD AREA



Wolfe Neck - Trails



Monitoring and Maintenance





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

Get on board with the bays.
inlandbays.org

Rehoboth | Indian River | Little Assawoman