



October 3, 2022

Summer 2022 Water and Fish Collection Update

*Frannie Nilsen, PhD
DEQ Environmental Toxicologist*



Collaborative Effort

Summer 2022 Fish Collection Event

NCDEQ

Division of
Marine
Fisheries

Division of
Water
Resources

Secretary's
Office

NCDHHS

Public Health

NCWRC

Inland
Fisheries
Division

PFAS in North Carolina – all will be reported for fish tissue and any other PFAS able to be analytically detected.

EPA PFAS RoadMap Compounds

PFBS

PFHxS

PFOS

PFOA

PFBA

PFHxA

PFNA

GenX

PFDA

Non-EPA PFAS RoadMap Compounds

PFHpA

PFMOAA

PMPA

PFO2HxA

PEPA

PFO3OA

PFO4DA

PFO5DA

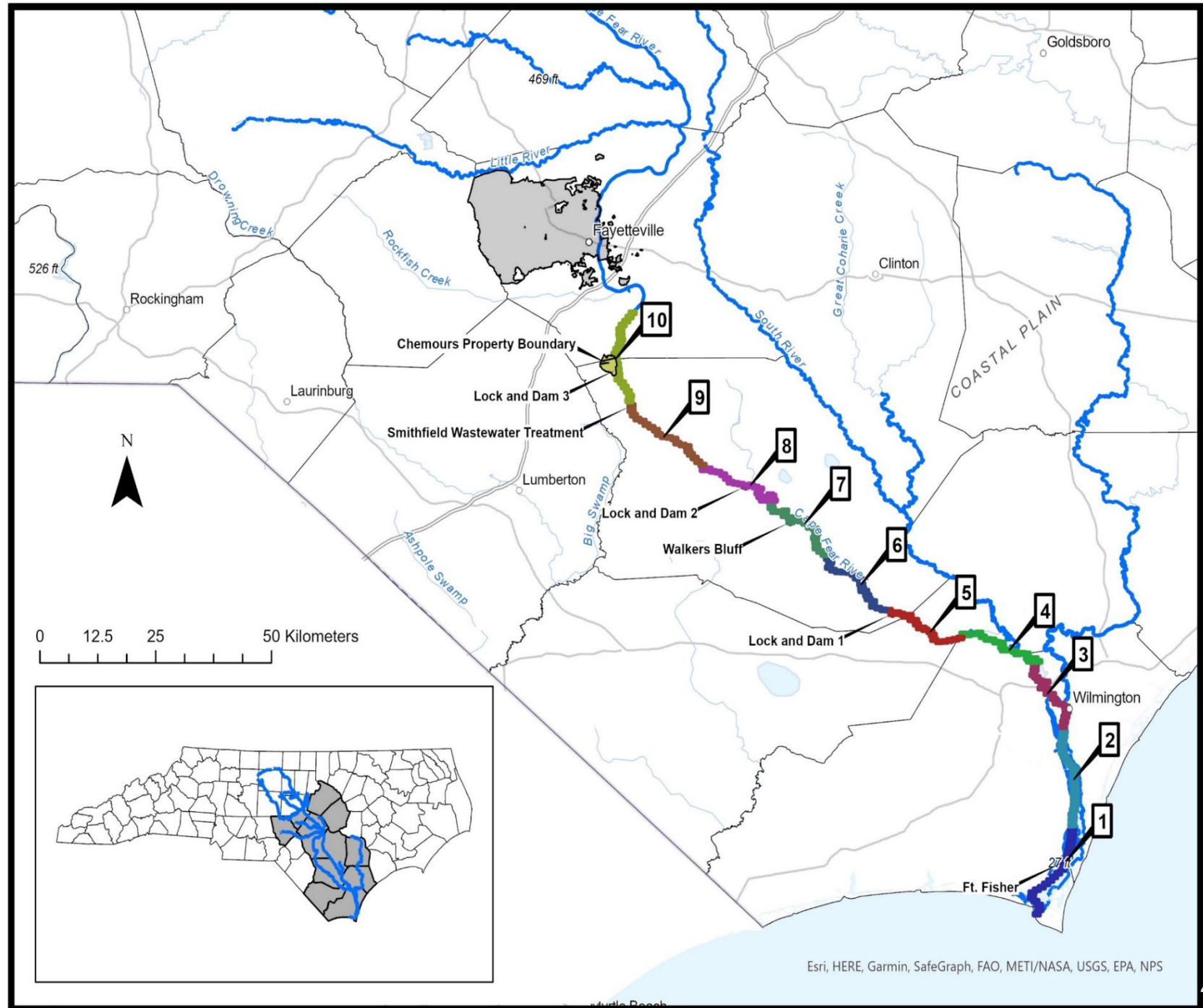
HydroEVE

PFPeA

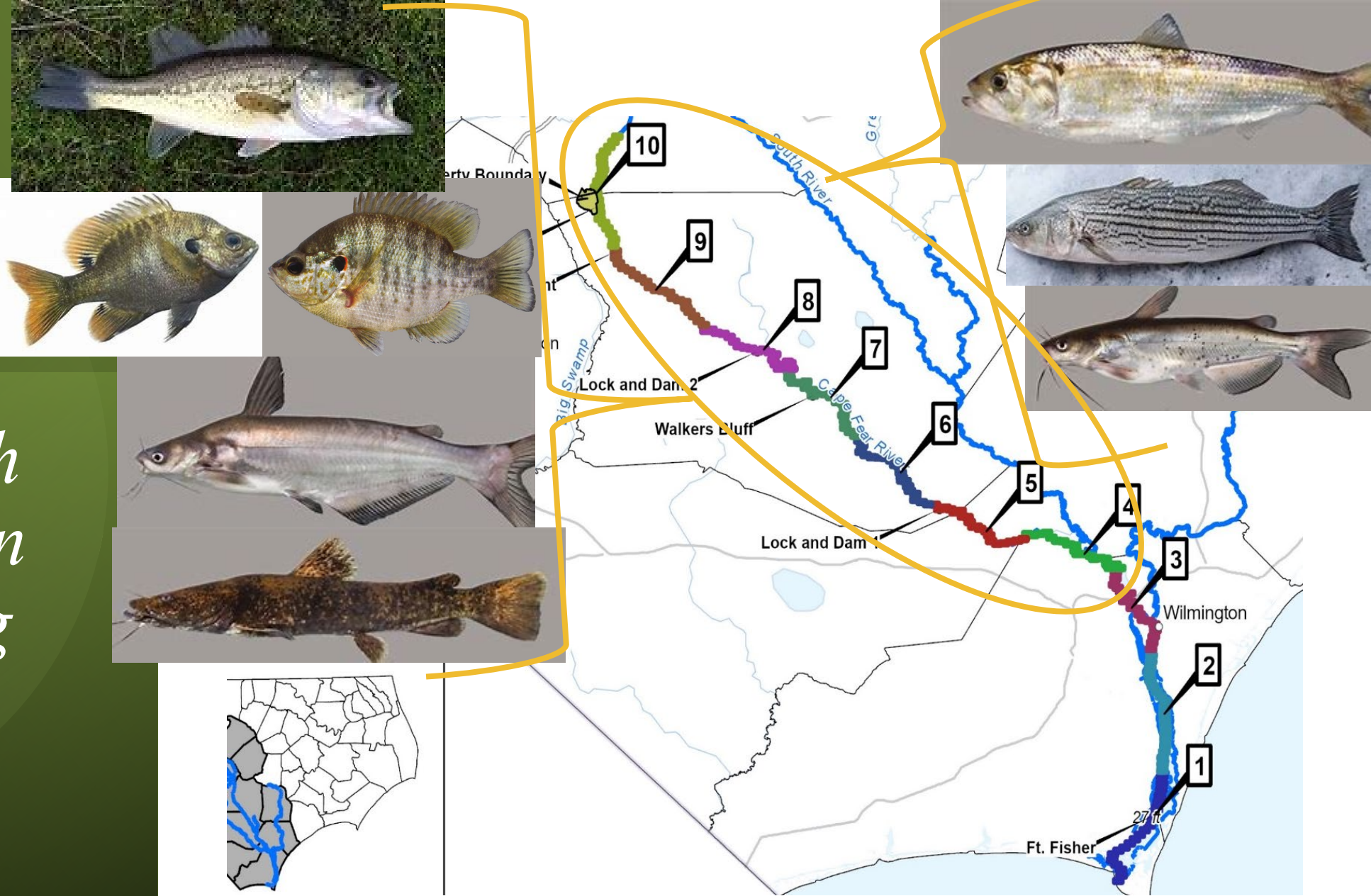
Nafion BPs

2022
Fish &
Surface Water
Collection
Project

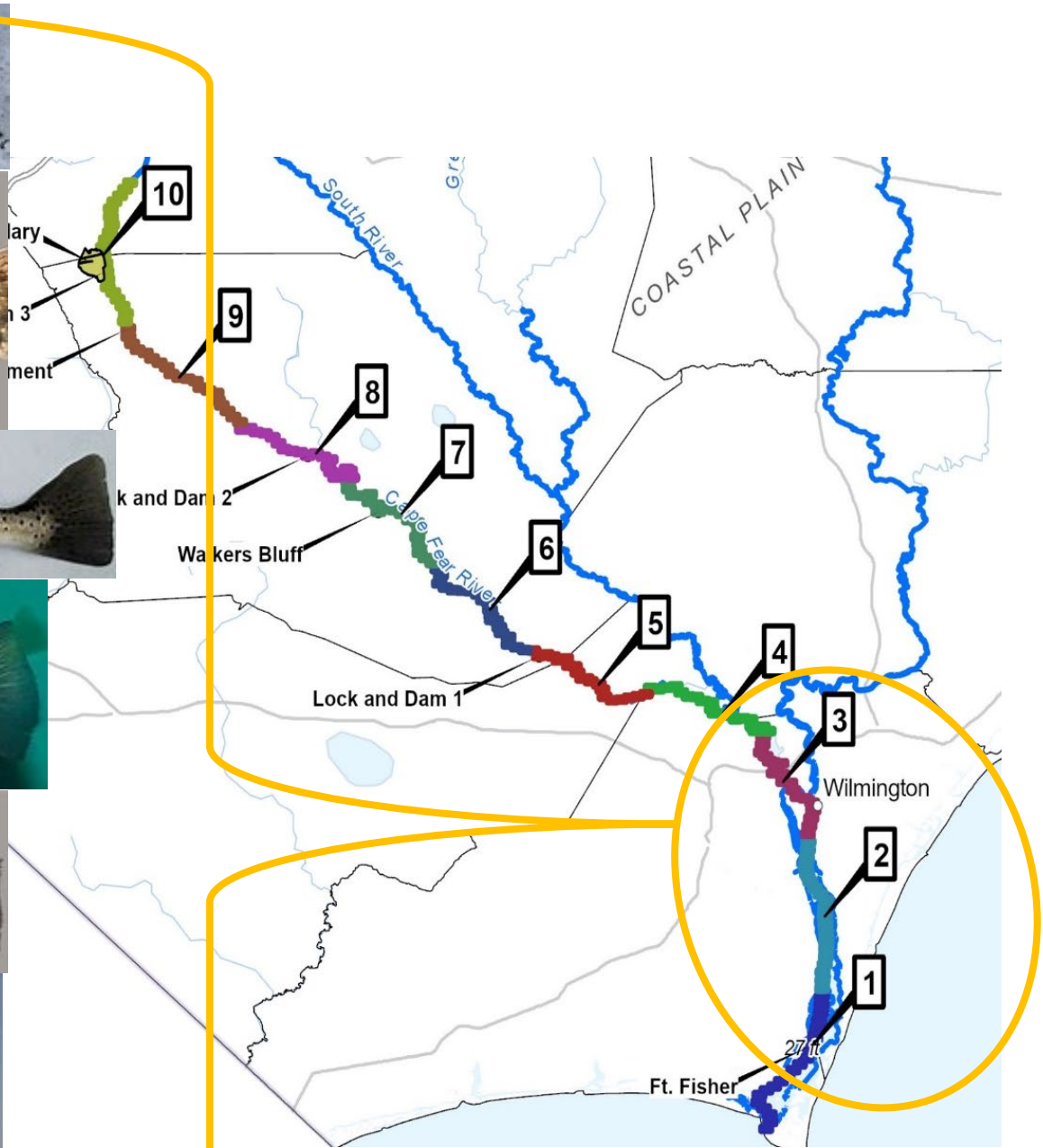
BAF Derivation



2022 Fish Collection Sampling Plans



2022 Fish Collection Sampling Plans

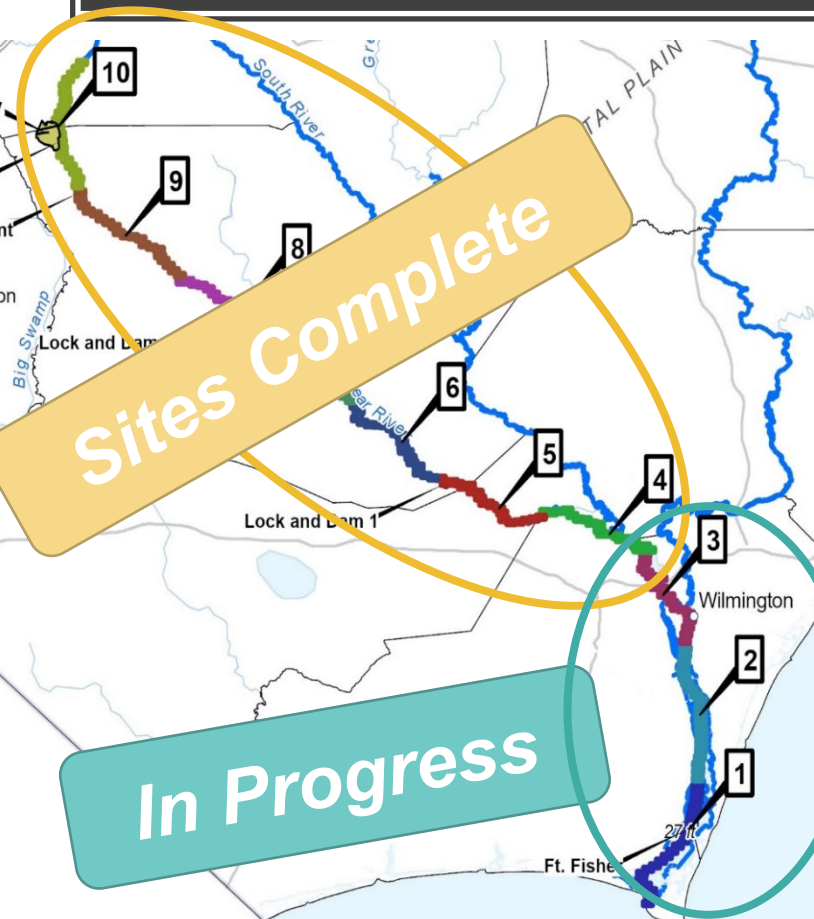




*Fish Collection and
Processing*



2022 Fish Collection Sampling Progress



Updated 15 Sept 2022

Total Fish Collected: 242

Site 1	
Spp	Count
Black Drum	2
Southern Flounder	4
Atlantic Croaker	5
Sheepshead	2

Site 2	
Spp	Count
Southern Flounder	5
Black Drum	3
Speckled Trout	1
Sheepshead	4
Red Drum	1
Striped Bass	1
Atlantic Croaker	3

Site 3	
Spp	Count
Flathead Catfish	2
Blue Catfish	4
Striped Bass	8
Atlantic Croaker	5

SITE COMPLETE	
Site 4	
Spp	Count
Redear Sunfish	5
Bluegill Sunfish	5
Largemouth Bass	5
Blue Catfish	5
Flathead Catfish	5

SITE COMPLETE	
Site 5	
Spp	Count
Striped Bass	5
Bluegill Sunfish	5
Channel Catfish	5
Redear Sunfish	5
Largemouth Bass	5
Flathead Catfish	5
Blue Catfish	5

SITE COMPLETE	
Site 6	
Spp	Count
Redear Sunfish	5
Bluegill Sunfish	5
Largemouth Bass	5
Blue Catfish	5
Flathead Catfish	5

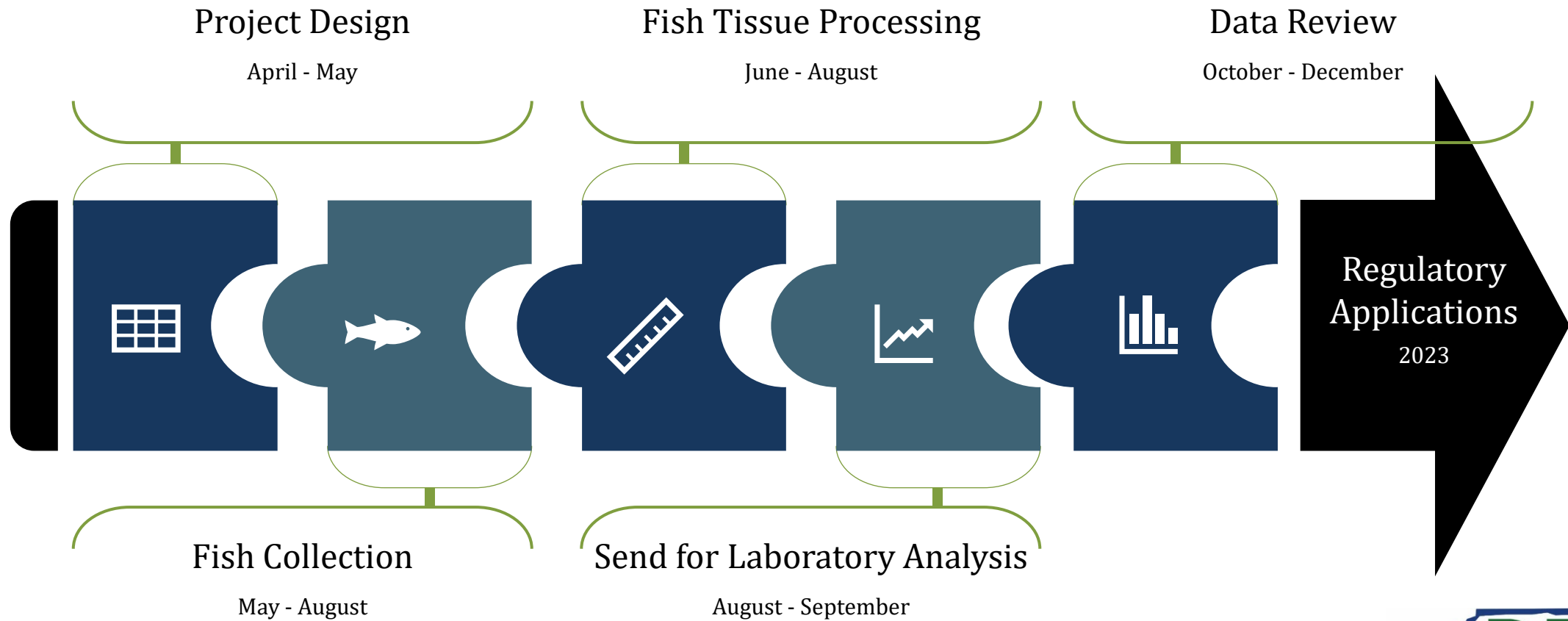
SITE COMPLETE	
Site 7	
Spp	Count
Redear Sunfish	5
Bluegill Sunfish	5
Largemouth Bass	5
Flathead Catfish	5
Blue Catfish	5

SITE COMPLETE	
Site 8	
Spp	Count
Redear Sunfish	5
Bluegill Sunfish	5
Striped Bass	5
Largemouth Bass	5
Flathead Catfish	5
Blue Catfish	5

SITE COMPLETE	
Site 9	
Spp	Count
Redear Sunfish	5
Bluegill Sunfish	5
Largemouth Bass	2
Flathead Catfish	5
Blue Catfish	5

sent for analysis	
SITE COMPLETE	
Site 10	
Spp	Count
Redear Sunfish	4
Bluegill Sunfish	5
American Shad	5
Largemouth Bass	6
Flathead Catfish	5
Blue Catfish	5

2022 Fish & Water Collection Event Estimated Timeline



Thank you



Frannie Nilsen, PhD

Environmental Toxicologist, Office of the Secretary

North Carolina Department of Environmental Quality

(919) 707-8217 | (919) 368-0205

Frannie.Nilsen@ncdenr.gov

Department of Environmental Quality

