

ROY COOPER
Governor

ELIZABETH S. BISER
Secretary

RICHARD E. ROGERS, JR.
Director



NORTH CAROLINA
Environmental Quality

October 1, 2022

Joint Legislative Oversight Committee on Agriculture and Natural and Economic Resources
16 W. Jones Street
Raleigh, North Carolina 27601

Re: Report on the "Shallow Draft Navigation Channel Dredging and Aquatic Weed Fund"

To Whom It May Concern:

As per §143-215.73F(f), annually the Department of Environmental Quality is required to provide a report on the projects funded from the "Shallow Draft Navigation Channel Dredging and Aquatic Weed Fund." Attached is the report covering FY 2021-2022.

This report was prepared by Kevin Hart with the Division of Water Resources in the Department of Environment Quality. If you have questions about this report, please contact me by email at Kevin.Hart@ncdenr.gov or by phone at 919-707-3607.

Sincerely,

A handwritten signature in black ink, appearing to read "Kevin Hart".

Kevin Hart

Enclosures

cc: NCGA Fiscal Research



North Carolina Department of Environmental Quality | Division of Water Resources
512 N. Salisbury Street | Raleigh, North Carolina 27699-1617
919-707-9000

Annual Report on Projects Funded by the Shallow Draft Navigation Channel Dredging and Aquatic Weed

Fund Statutory Authority: G.S. 143-215.73F(f)

Due Date: Oct. 1, 2021

Receiving Entities:

Joint Legislative Oversight Committee on Agriculture and Natural and Economic Resources

Fiscal Research Division

Submitting Entity:

NC Department of Environmental Quality – Division of Water Resources

Intro

NC General Statutes 143-215.73F(f) requires the Department of Environmental Quality to report annually regarding projects funded by both the Shallow Draft Navigation Channel Dredging and Aquatic Weed Funds. The following report is being submitted to fulfill this requirement and includes grant awards from each fund by project type, project location, brief project description, entity receiving the funding, and amount of funding provided.

Shallow Draft Navigation Channel Dredging Annual Report
FY 2021-2022
G.S. 143-215.73F

Date	Project	Cooperator	Amount	Project Type
7/14/2021	7956 Ocean Isle Beach	Ocean Isle	\$420.00	Channel Maintenance
7/22/2021	USACE Wilmington Lockwood Folly	Brunswick County	\$784,500.00	Inlet Maintenance
7/22/2021	7749 Sunset Beach	Sunset Beach	\$94,749.18	Channel Maintenance
7/22/2021	CW 17955 Village of Bald Head Island	Village of Bald Head Island	\$53,602.68	Channel Maintenance
8/4/2021	USACE Wilmington Bogue	Carteret County	\$262,500.00	Inlet Maintenance
8/4/2021	USACE Wilmington South Ferry	Dare County	\$1,000,000.00	Inlet Maintenance
8/4/2021	USACE Wilmington Carolina Beach Inlet	New Hanover County	\$1,050,000.00	Inlet Maintenance
8/25/2021	USACE Wilmington Bulkhead Channel	Town of Beaufort	\$164,170.00	Channel Maintenance
9/29/2021	CW21153 Manatee Ramp	Cape Carteret	\$22,366.67	Channel Maintenance
10/6/2021	USACE Wilmington Lockwood	Brunswick County	\$794,250.00	Inlet Maintenance
10/6/2021	CW 16560 Old Ferry	Carteret County	\$520,255.56	Channel Maintenance
10/13/2021	7717 Dare Dredge Capacity	Dare County	\$944.69	Channel Maintenance
10/20/2021	8162 Dare County Central	Dare County	\$47,130.69	Channel Maintenance
10/21/2021	USACE Lockwood Folly widener	Holden Beach	\$527,000.00	Inlet Maintenance
11/19/2021	8162 Dare County Central	Dare County	\$45,220.39	Channel Maintenance
11/19/2021	CW22773 Kelly Lane Emerald Isle	Emerald Isle	\$44,320.33	Channel Maintenance
12/8/2021	CW 15297 Hatteras Dredging	Dare County	\$4,750.13	Inlet Maintenance
12/8/2021	8161 Dare County Southern channel	Dare County	\$23,332.27	Channel Maintenance
12/8/2021	7749 Sunset Beach	Sunset Beach	\$88,133.81	Channel Maintenance
12/15/2021	CW21499 Hatteras 2021-2022	Dare County	\$9,192.00	Inlet Maintenance
1/5/2022	CW 17885 Lake Lure	Town of Lake Lure	\$637,500.00	Lake Channel Maintenance
1/12/2022	USACE Lockwood Folly widener	Holden Beach	\$515,000.00	Inlet Maintenance
2/23/2022	7749 Sunset Beach	Sunset Beach	\$406,190.67	Channel Maintenance
2/23/2022	USACE Bulkhead Channel LTMOA	Town of Beaufort	\$92,000.00	Channel Maintenance
3/9/2022	CW 15523 Oregon Inlet permit modifications	Dare County	\$2,214.51	Inlet Maintenance
3/16/2022	8161 Dare County Southern channel	Dare County	\$12,344.94	Channel Maintenance
3/16/2022	CW21499 Hatteras 2021-2022	Dare County	\$8,102.06	Inlet Maintenance
3/16/2022	8161 Dare County Southern channel	Dare County	12,344.94	Channel Maintenance
3/16/2022	7956 Ocean Isle Beach	Ocean Isle	\$4,850.24	Channel Maintenance
4/6/2022	CW 18024 Straights Landing	Carteret County	\$43,002.15	Channel Maintenance
4/6/2022	USACE Sloop Channel	Hyde County	\$257,000.00	Inlet Maintenance
4/13/2022	CW25537 Lake Lure 2022	Town of Lake Lure	\$61,466.31	Lake Channel Maintenance
4/22/2022	Transfer to OSBM-Lake Junaluska	Haywood County	\$1,500,000.00	Other
5/11/2022	CW21553 Lake Adger	Polk County	\$257,949.60	Lake Channel Maintenance
5/18/2022	CW 17955 Village of Bald Head Island	Village of Bald Head Island	\$43,335.50	Channel Maintenance
6/15/2022	CW26485 Atlantic Beach 2022	Atlantic Beach	\$93,288.00	Channel Maintenance
6/27/2022	CW24993 Emerald Isle Boat Ramp	Emerald Isle	\$60,000.00	Channel Maintenance
Total			\$9,543,427.32	

**North Carolina Aquatic Weed Control Program - Funds
Expended During the Fiscal Year**

Project Type	Project sub-type	Cooperator	Project	Proposed State Funding Amount (SDNCD&AW Fund)	Proposed Cooperator Funding Amount	Description
Aquatic Weeds	Hydrilla	multiple cooperators (see below)	Eno River	\$ 36,000.00	\$ 36,000.00	herbicide applications
Aquatic Weeds	Hydrilla	multiple cooperators (see below)	Eno River	\$ 3,000.00	\$ 3,000.00	project support
Aquatic Weeds	Hydrilla	multiple cooperators (see below)	Jordan Lake - Folkners Branch	\$ 2,500.00	\$ 2,500.00	grass carp barrier
Aquatic Weeds	Hydrilla	multiple cooperators (see below)	Jordan Lake - Folkners Branch	\$ 700.00	\$ 700.00	biological control (90 grass carp)
Aquatic Weeds	Hydrilla	multiple cooperators (see below)	Lake Gaston	\$ 44,000.00	\$ 44,000.00	herbicide applications
Aquatic Weeds	Hydrilla	multiple cooperators (see below)	Lake Norman	\$ 3,900.00	\$ 3,900.00	biological control (750 grass carp)
Aquatic Weeds	Hydrilla	multiple cooperators (see below)	Lake Norman	\$ 8,000.00	\$ 8,000.00	lake-wide survey

Aquatic Weeds	Hydrilla	multiple cooperators (see below)	Mountain Island Reservoir	\$ 3,000.00	\$ 3,000.00	survey
Aquatic Weeds	Hydrilla	Brookfield Smoky Mountain Hydropower	Lake Santeetlah	\$ 4,000.00	\$ 4,000.00	lake-wide survey
Aquatic Weeds	Hydrilla	Chowan Soil & Water	Harris Landing	\$ 1,000.00	\$ 1,000.00	herbicide applications
Aquatic Weeds	Hydrilla	Chowan Soil & Water	Old Ferry Rd.	\$ 1,100.00	\$ 1,100.00	herbicide applications
Aquatic Weeds	Hydrilla	Chowan Soil & Water	Chowan River sites	\$ 500.00	\$ 500.00	monitoring
Aquatic Weeds	Hydrilla	Chowan Soil & Water	Cape Colony	\$ 500.00	\$ 500.00	monitoring
Aquatic Weeds	Hydrilla	Cube Hydro	Badin Lake	\$ 5,000.00	\$ 5,000.00	lake-wide survey
Aquatic Weeds	Hydrilla	Cube Hydro	Badin subimpoundments	\$ 1,000.00	\$ 1,000.00	survey
Aquatic Weeds	Hydrilla	Cube Hydro	Falls Reservoir	\$ 1,500.00	\$ 1,500.00	survey & herbicide
Aquatic Weeds	Hydrilla	Cube Hydro	Tuckertown Lake	\$ 4,000.00	\$ 4,000.00	lake-wide survey
Aquatic Weeds	Hydrilla	Duke Energy	Lake Tillery	\$ 6,000.00	\$ 6,000.00	lake-wide survey
Aquatic Weeds	Hydrilla	Duke Energy	Lake Tillery	\$ 1,500.00	\$ 1,500.00	biological control (100 grass carp)
Aquatic Weeds	Hydrilla	Duke Energy	Lake Tillery	\$ 6,800.00	\$ 6,800.00	herbicide applications
Aquatic Weeds	Hydrilla	Duke Energy	Mountain Island Reservoir	\$ 2,000.00	\$ 2,000.00	herbicide applications
Aquatic Weeds	Hydrilla	Duke Energy	Lake James	\$ 1,200.00	\$ 1,200.00	biological control (80 grass carp)
Aquatic Weeds	Hydrilla	Duke Energy	Lake Wylie	\$ 2,600.00	\$ 2,600.00	biological control (170 grass carp)
Aquatic Weeds	Hydrilla	Duke Energy	Lake Wylie	\$ 6,000.00	\$ 6,000.00	herbicide
Aquatic Weeds	Hydrilla	Duke Energy	Shearon Harris Lake	\$ 3,200.00	\$ 3,200.00	lake-wide survey
Aquatic Weeds	Hydrilla	Edenton, Town of	Filbert's Creek	\$ 2,200.00	\$ 2,200.00	herbicide
Aquatic Weeds	Hydrilla	Edenton, Town of	Queen Anne's Creek	\$ 1,000.00	\$ 1,000.00	monitoring
Aquatic Weeds	Hydrilla	Fayetteville, City of	Mintz Pond	\$ 8,400.00	\$ 8,400.00	herbicide applications

Aquatic Weeds	Hydrilla	Fayetteville, City of	Mintz Pond	\$ 800.00	\$ 800.00	lake-wide survey
Aquatic Weeds	Hydrilla	Four Oaks, Town of	Holt Lake	\$ 25,000.00	\$ 25,000.00	biological control (2,100 grass carp)
Aquatic Weeds	Hydrilla	Four Oaks, Town of	Holt Lake	\$ 30,000.00	\$ 30,000.00	herbicide applications
Aquatic Weeds	Hydrilla	Four Oaks, Town of	Holt Lake	\$ 1,000.00	\$ 1,000.00	lake-wide survey
Aquatic Weeds	Hydrilla	Lewisville, Town of	Falmouth Lake	\$ 400.00	\$ 400.00	survey
Aquatic Weeds	Hydrilla	Lewisville, Town of	Marblehead Lake	\$ 400.00	\$ 400.00	survey
Aquatic Weeds	Hydrilla	NC Parks & Recreation	Lake Waccamaw	\$ 50,000.00	\$ 50,000.00	herbicide applications
Aquatic Weeds	Hydrilla	NC Parks & Recreation	Lake Waccamaw	\$ 8,000.00	\$ 8,000.00	monitoring
Aquatic Weeds	Hydrilla	NC Parks & Recreation	Lake Waccamaw	\$ 6,000.00	\$ 6,000.00	lake-wide survey
Aquatic Weeds	Hydrilla	NC Parks & Recreation	Morrow Mountain	\$ 2,000.00	\$ 2,000.00	herbicide applications
Aquatic Weeds	Hydrilla	NC Parks & Recreation	W.B. Umstead	\$ 8,000.00	\$ 8,000.00	herbicide applications
Aquatic Weeds	Hydrilla	NC Parks & Recreation		\$ 1,000.00	\$ 1,000.00	lake-wide surveys
Aquatic Weeds	Hydrilla	NC State University	Lake Raleigh	\$ 5,500.00	\$ 5,500.00	herbicide applications
Aquatic Weeds	Hydrilla	NC State University	Yates Millpond	\$ 1,000.00	\$ 1,000.00	herbicide applications
Aquatic Weeds	Hydrilla	NC State University	Roanoke Rapids Lake	\$ 4,000.00	\$ 2,000.00	survey
Aquatic Weeds	Hydrilla	NC WRC - Division of Inland Fisheries	Lake Rim	\$ 8,000.00	\$ 8,000.00	herbicide
Aquatic Weeds	Hydrilla	NC WRC - Division of Inland Fisheries	Lake Rim	\$ 800.00	\$ 800.00	survey
Aquatic Weeds	Hydrilla	New Hanover County	Gordon Road Station	\$ 1,500.00	\$ 1,500.00	herbicide
Aquatic Weeds	Hydrilla	Orange County	Lake Orange	\$ 800.00	\$ 800.00	survey
Aquatic Weeds	Hydrilla	Orange County	Sediment structure #1	\$ 8,000.00	\$ 8,000.00	herbicide & survey
Aquatic Weeds	Hydrilla	Orange County	Sediment Structure #2	\$ 1,400.00	\$ 1,400.00	herbicide & survey

Aquatic Weeds	Hydrilla	Orange County	Sediment Structure #3	\$ 200.00	\$ 200.00	survey
Aquatic Weeds	Hydrilla	Orange County	Eno River watershed	\$ 10,000.00	\$ 10,000.00	survey
Aquatic Weeds	Hydrilla	Orange Water & Sewer Authority	Cane Creek Reservoir	\$ 1,800.00	\$ 1,800.00	biological control (125 grass carp)
Aquatic Weeds	Hydrilla	Orange Water & Sewer Authority	Cane Creek Reservoir	\$ 6,000.00	\$ 6,000.00	herbicide & survey
Aquatic Weeds	Hydrilla	Oxford, City of	Lake Devin	\$ 4,600.00	\$ 4,600.00	herbicide applications
Aquatic Weeds	Hydrilla	Oxford, City of	Lake Devin	\$ 3,300.00	\$ 3,300.00	biological control (220 grass carp)
Aquatic Weeds	Hydrilla	Oxford, City of	Lake Devin	\$ 800.00	\$ 800.00	survey
Aquatic Weeds	Hydrilla	Rocky Mount, City of	Tar River Reservoir	\$ 1,000.00	\$ 1,000.00	survey
Aquatic Weeds	Hydrilla	Rocky Mount, City of	City Lake Park	\$ 1,000.00	\$ 1,000.00	survey
Aquatic Weeds	Hydrilla	Reidsville, City of	Lake Hunt	\$ 1,000.00	\$ 1,000.00	survey
Aquatic Weeds	Hydrilla	Reidsville, City of	Lake Reidsville	\$ 3,200.00	\$ 3,200.00	survey & herbicide
Aquatic Weeds	Hydrilla	US Army Corps of Engineers	Jordan tailrace	\$ 1,500.00	\$ 1,500.00	herbicide applications
Aquatic Weeds	Hydrilla	White Lake, Town of	White Lake	\$ 3,000.00	\$ 3,000.00	research
Aquatic Weeds	Hydrilla	White Lake, Town of	White Lake	\$ 4,800.00	\$ 4,800.00	lake-wide survey
Aquatic Weeds	Hydrilla	Wilson, City of	Buckhorn Lake	\$ 600.00	\$ 600.00	herbicide applications
Aquatic Weeds	Hydrilla	Wilson, City of	Buckhorn Lake	\$ 2,600.00	\$ 2,600.00	lake-wide survey
Aquatic Weeds	Alligatorweed	Camden County	Joyce Creek DD	\$ 250.00	\$ 250.00	herbicide applications
Aquatic Weeds	Alligatorweed	Camden County	Hales Lake Ditch	\$ 500.00	\$ 500.00	herbicide applications
Aquatic Weeds	Alligatorweed	Camden County	Pasquotank River	\$ 150.00	\$ 150.00	monitoring
Aquatic Weeds	Alligatorweed	Camden County	Bell Farm Ditch	\$ 500.00	\$ 500.00	herbicide applications

Aquatic Weeds	Alligatorweed	Chowan Soil & Water	Dillard's Millpond	\$ 700.00	\$ 700.00	herbicide applications
Aquatic Weeds	Alligatorweed	Dare County	HWY 64 drainage canals	\$ 500.00	\$ 500.00	herbicide applications
Aquatic Weeds	Alligatorweed	Nags Head, Town of	Stormwater drainage	\$ 1,500.00	\$ 1,500.00	herbicide applications
Aquatic Weeds	Alligatorweed	NC Division of Coastal Management	Buckridge Coastal Reserve (NW Fork & Alligator River)	\$ 900.00	\$ 900.00	herbicide applications
Aquatic Weeds	Alligatorweed	NC WRC - Land & Water Access	Northeast NC Waterfowl Habitat Improvement	\$ 3,100.00	\$ 18,100.00	herbicide applications
Aquatic Weeds	Alligatorweed	Pasquotank County	Newland Drainage Canal	\$ 1,000.00	\$ 1,000.00	herbicide applications
Aquatic Weeds	Alligatorweed	Pasquotank County	Pasquotank River	\$ 250.00	\$ 250.00	herbicide applications
Aquatic Weeds	Alligatorweed	Pasquotank County	Pinelakes Canal System	\$ 250.00	\$ 250.00	herbicide applications
Aquatic Weeds	Alligatorweed	Perquimans County	Nicanor Drainage Area	\$ 1,500.00	\$ 1,500.00	herbicide applications
Aquatic Weeds	Alligatorweed	Wilson, City of	Lake Wilson	\$ 400.00	\$ 400.00	herbicide applications
Aquatic Weeds	Water Hyacinth	Jones County	Trent River	\$ 2,000.00	\$ 2,000.00	herbicide applications
Aquatic Weeds	Creeping Water Primrose	Piedmont Triad Regional Water Authority	Randleman Reservoir	\$ 2,000.00	\$ 2,000.00	herbicide applications
Aquatic Weeds	Creeping Water Primrose	NC Parks & Recreation	Crowders Mountain	\$ 1,000.00	\$ 1,000.00	herbicide applications
Aquatic Weeds	Creeping Water Primrose	Ramseur, Town of	Ramseur Lake	\$ 250.00	\$ 250.00	TBD
Aquatic Weeds	Creeping Water Primrose	Wilson, City of	Toisnot Lake	\$ 250.00	\$ 250.00	herbicide applications
Aquatic Weeds	Parrotfeather	Duke Energy	Lake Hickory	\$ 500.00	\$ 500.00	herbicide applications

Aquatic Weeds	Parrotfeather	Duke Energy	Lookout Shoals	\$ 1,250.00	\$ 1,250.00	herbicide applications
Aquatic Weeds	Parrotfeather	Duke Energy	Mt. Island Lake	\$ 1,000.00	\$ 1,000.00	herbicide applications
Aquatic Weeds	Parrotfeather	NC Parks & Recreation	Merchants Milpond	\$ 2,000.00	\$ 2,000.00	site assessment
Aquatic Weeds	Parrotfeather	NC Parks & Recreation	Merchants Milpond	\$ 500.00	\$ 500.00	herbicide treatment
Aquatic Weeds	Parrotfeather	NC Parks & Recreation	Occonechee Mountain	\$ 700.00	\$ 700.00	monitoring & herbicide
Aquatic Weeds	Eurasian milfoil	Kill Devil Hills, Town of	Kitty Hawk Bay	\$ 5,000.00	\$ 5,000.00	herbicide / survey
Aquatic Weeds	Phragmites	Camden County	One Mill Park	\$ 400.00	\$ 400.00	herbicide applications
Aquatic Weeds	Phragmites	Nags Head, Town of	Glidden St. outfall ditch	\$ 300.00	\$ 300.00	herbicide applications
Aquatic Weeds	Phragmites	Nags Head, Town of	Finch St. outfall ditch	\$ 300.00	\$ 300.00	herbicide applications
Aquatic Weeds	Phragmites	National Park Service	Cape Hatteras Nat'l Seashore	\$ 2,500.00	\$ 2,500.00	herbicide applications
Aquatic Weeds	Phragmites	NC Parks & Recreation	Carolina Beach S.P.	\$ 6,250.00	\$ 6,250.00	herbicide applications
Aquatic Weeds	Phragmites	NC Parks & Recreation	Dismal Swamp S.P.	\$ 5,000.00	\$ 5,000.00	site assessment / survey
Aquatic Weeds	Phragmites	NC Parks & Recreation	Fort Fisher S.P.	\$ 2,000.00	\$ 2,000.00	herbicide applications
Aquatic Weeds	Phragmites	NC Parks & Recreation	Goose Creek S.P.	\$ 1,000.00	\$ 1,000.00	herbicide purchase
Aquatic Weeds	Phragmites	NC Parks & Recreation	Hammocks Beach S.P.	\$ 1,250.00	\$ 1,250.00	herbicide applications
Aquatic Weeds	Phragmites	NC Parks & Recreation	Jockeys Ridge S.P.	\$ 500.00	\$ 500.00	herbicide purchase
Aquatic Weeds	Phragmites	NC Parks & Recreation	Pettigrew S.P.	\$ 6,500.00	\$ 6,500.00	herbicide applications

Aquatic Weeds	Phragmites	NC Parks & Recreation	Run Hill	\$ 2,000.00	\$ 2,000.00	herbicide applications
Aquatic Weeds	Giant Salvinia	Columbus County	Gapway swamp	\$ 70,000.00	\$ 70,000.00	herbicide applications
Aquatic Weeds	Giant Salvinia	Columbus County	Gapway swamp	\$ 5,000.00	\$ 5,000.00	misc. fieldwork
Aquatic Weeds	Research	NCSU	Remote sensing technology	\$ 5,000.00	\$ 5,000.00	NCSU - Evaluation of sUAS for noxious aquatic weed detection and monitoring
			Totals	\$ 505,550.00	\$ 518,550.00	

Project	Cooperators
Eno River	DPR, Orange Co., Durham Co., City of Durham, Town of Hillsborough
h Lake - Folkners Branch	TBD
Lake Gaston	Halifax Co., Northampton Co., Warren Co., Lake Norman
Lake Norman	Marine Commission, Charlotte Water, Charlotte
ountain Island Reservoir	Stormwater Services and Duke Energy