



NORTH CAROLINA  
Environmental Quality

ROY COOPER  
Governor

MICHAEL S. REGAN  
Secretary

S. DANIEL SMITH  
Director

October 1, 2020

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 2019-2020.

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](mailto: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  
Sheila Holman, Department of Environmental Quality  
Danny Smith, Division of Water Resources



North Carolina Department of Environmental Quality | Division of Water Resources  
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Annual Report  
Dredging Projects  
Shallow Draft Navigation Channel Dredging and Aquatic Weed Fund  
G.S. 143-215.73F

Date of Report: August 18, 2020

Reporting Period: July 1, 2019 to June 30, 2020

Project Type	Date	Project	Cooperator	Amount	Project type
Dredge	07/23/19	USACE Wilmington - New Topsail Inlet (Long Term MOA) Summer 2019	Town of Topsail Beach	\$ 194,500.00	Inlet maintenance dredging
Dredge	07/23/19	7252_Bald Head Island Channel Dredging	Village of Bald Head Island	\$ 50,193.00	Channel maintenance dredging
Other	08/01/19	FY 19-20 Aquatic Weed Control Program - xfer to AWC budget	NC DWR	\$ 19,962.65	FY 19-20 Aquatic Weed Control Program - xfer to AWC budget
Other	08/30/19	FY 19-20 Aquatic Weed Control Program - xfer to AWC budget	NC DWR	\$ 349,940.39	FY 19-20 Aquatic Weed Control Program - xfer to AWC budget
Dredge	09/10/19	7252_Bald Head Island Channel Dredging	Village of Bald Head Island	\$ 55,506.00	Channel maintenance dredging
Other	09/30/19	FY 19-20 Aquatic Weed Control Program - xfer to AWC budget	NC DWR	\$ 12,744.98	FY 19-20 Aquatic Weed Control Program - xfer to AWC budget
Dredge	10/08/19	USACE Wilmington - South Ferry Channel (Long Term MOA) Fall 2019	County of Dare	\$ 347,700.00	Channel maintenance dredging
Other	10/15/19	7770_Special Purpose Dredge - Session Law 2018-5	County of Dare	\$ 5,000,000.00	Dredge construction
Dredge	10/22/19	USACE Wilmington - Carolina Beach Inlet (Long Term MOA) Fall 2019	New Hanover County	\$ 750,000.00	Inlet maintenance dredging
Dredge	11/13/19	USACE Wilmington - Lockwood Folly Inlet (Long Term MOA) Fall 2019	Brunswick County	\$ 440,890.00	Inlet maintenance dredging
Dredge	11/13/19	USACE Wilmington - South Ferry Channel (Long Term MOA) Fall 2019	County of Dare	\$ 199,140.00	Inlet maintenance dredging
Dredge	12/10/19	7767_Hatteras Inlet Dredging	County of Dare	\$ 7,718.60	Inlet maintenance dredging
Dredge	12/27/19	USACE Wilmington - Carteret County Waterways (Long Term MOA) Fall 2020	Carteret County	\$ 1,771,662.00	Channel maintenance dredging
Other	12/27/2019	7717_Permitting for Special Purpose Dredge	County of Dare	\$ 61,507.75	Inlet maintenance dredging
Dredge	1/7/2020	7818_Old Ferry Channel	Carteret County	\$ 21,013.38	Channel maintenance dredging
Dredge	1/7/2020	8039_Shop Gut Channel	Pamlico County	\$ 50,002.50	Channel maintenance dredging
Other	01/22/20	7770_Special Purpose Dredge - Session Law 2018-5	County of Dare	\$ 5,000,000.00	Dredge construction
Dredge	01/22/20	NCDOT Interagency Agreement_Oregon Inlet	NCDOT	\$ 1,000,000.00	Inlet maintenance dredging
Dredge	3/3/2020	USACE Wilmington - Oregon Inlet (Long Term MOA) Winter 2020	County of Dare	\$ 340,650.00	Inlet maintenance dredging
Dredge	3/17/2020	USACE Wilmington - Dare County_Hatteras Inlet (Long Term MOA) Winter 2020	County of Dare	\$ 443,680.00	Inlet maintenance dredging
Dredge	4/2/2020	7771_Midway Drive Boating Access Area Dredging	Chowan County	\$ 36,750.00	Channel maintenance dredging
Dredge	4/2/2020	USACE Wilmington - Town of Beaufort_Bulkhead Channel (Long Term MOA) Winter 2020	Town of Beaufort	\$ 309,600.00	Channel maintenance dredging
Dredge	4/8/2020	8039_Pamlico County Shop Gut	Pamlico County	\$ 40,846.71	Channel maintenance dredging
Dredge	4/29/2020	USACE Wilmington- Dare County_Oregon Inlet (Long Term MOA) Spring 2020	County of Dare	\$ 448,800.00	Inlet maintenance dredging
Dredge	05/06/20	8104_Salters Creek	Carteret County	\$ 67,986.67	Channel maintenance dredging
Dredge	5/6/2020	7449_East Taylors Creek	Carteret County	\$ 3,799.55	Channel maintenance dredging
Dredge	5/6/2020	7447_Wainwright Slough	Carteret County	\$ 11,151.35	Channel maintenance dredging
Dredge	5/13/2020	USACE Wilmington Lockwood Folly Inlet (Long Term MOA) Spring 2020	Brunswick County	\$ 467,000.00	Channel maintenance dredging
Dredge	5/14/2020	8043_Mason Inlet Dredging	New Hanover County	\$ 3,288,168.07	Channel maintenance dredging
Dredge	6/2/2020	8039_Shop Gut Channel	Pamlico County	\$ 4,816.23	Channel maintenance dredging
Dredge	6/3/2020	USACE Wilmington- Dare County_Oregon Inlet (Long Term MOA) summer 2020	Dare County	\$ 1,099,600.00	Inlet maintenance dredging
Dredge	6/3/2020	7323_Town of Oriental_Whittaker Creek	Oriental	\$ 170,661.15	Channel maintenance dredging
Dredge	06/10/20	7252 Bald Head Island Channel Dredging	Village of Bald Head Island	\$ 41,778.00	Channel maintenance dredging
Other	06/16/20	FY 19-20 Beach & Inlet Mangement Position funding - xfer to NC DCM	NC DCM	\$ 64,821.00	FY 19-20 Beach & Inlet Mangement Position funding - xfer to NC DCM
Other	06/16/20	FY 19-20 Beach & Inlet Mangement Position funding - xfer to NC DCM	NC DCM	\$ 972.00	FY 19-20 Beach & Inlet Mangement Position funding - xfer to NC DCM
Other	06/29/20	FY 19-20 Beach & Inlet Mangement Position funding - xfer to NC DCM	NC DCM	\$ 44.00	FY 19-20 Beach & Inlet Mangement Position funding - xfer to NC DCM
Other	06/29/20	FY 19-20 Beach & Inlet Mangement Position funding - xfer to NC DCM	NC DCM	\$ 12,962.00	FY 19-20 Beach & Inlet Mangement Position funding - xfer to NC DCM
Other	06/29/20	FY 19-20 Beach & Inlet Mangement Position funding - xfer to NC DCM	NC DCM	\$ 6,306.00	FY 19-20 Beach & Inlet Mangement Position funding - xfer to NC DCM
			Total	\$ 22,192,873.98	

Annual Report  
Aquatic Weed Program Projects

Date of Report: August 18, 2020  
Coverage Period: July 1, 2019 to June 30, 2020

Shallow Draft Navigation Channel Dredging and Aquatic Weed Fund

Project Type	Project sub-type	Cooperator	Project	State Funding Amount (\$DNCD&AW Fund)	Cooperator Funding Amount	Description
Aquatic Weed	Hydrilla	multiple cooperators (see below)	Eno River	\$ 32,000.00	\$ 32,000.00	Contracted services
Aquatic Weed	Hydrilla	multiple cooperators (see below)	Eno River	\$ 3,000.00	\$ 3,000.00	DWR services
Aquatic Weed	Hydrilla	multiple cooperators (see below)	Lake Gaston	\$ 50,000.00	\$ 100,000.00	Contracted services
Aquatic Weed	Hydrilla	multiple cooperators (see below)	Lake Norman	\$ 39,300.00	\$ 39,300.00	Biological control (triploid grass carp)
Aquatic Weed	Hydrilla	multiple cooperators (see below)	Lake Norman	\$ 4,000.00	\$ 12,000.00	Lake-wide survey
Aquatic Weed	Hydrilla	multiple cooperators (see below)	Lake Waccamaw	\$ 212,250.00	\$ 212,250.00	Contracted services
Aquatic Weed	Hydrilla	multiple cooperators (see below)	Lake Waccamaw	\$ 2,000.00	\$ 2,000.00	DWR services
Aquatic Weed	Hydrilla	multiple cooperators (see below)	Mountain Island Reservoir	\$ 4,800.00	\$ 4,800.00	Biological control (triploid grass carp)
Aquatic Weed	Alligatorweed	Albemarle, City of	City Lake Park	\$ 250.00	\$ 250.00	Herbicide purchase
Aquatic Weed	Hydrilla	Brookfield Smoky Mountain Hydropower	Lake Santeetlah	\$ 2,000.00	\$ 2,000.00	Lake-wide survey
Aquatic Weed	Alligatorweed	Camden County	Joyce Creek DD	\$ 250.00	\$ 250.00	Herbicide applications
Aquatic Weed	Alligatorweed	Camden County	Halls Lake Ditch	\$ 1,650.00	\$ 1,650.00	Herbicide applications
Aquatic Weed	Alligatorweed	Camden County	Pasquotank River	\$ 150.00	\$ 150.00	Monitoring
Aquatic Weed	Alligatorweed	Camden County	Bell Farm Ditch	\$ 100.00	\$ 100.00	Herbicide applications
Aquatic Weed	Phragmites	Camden County	One Mill Park	\$ 500.00	\$ 500.00	Herbicide applications
Aquatic Weed	Hydrilla	Chowan Soil & Water	Harris Landing	\$ 500.00	\$ 500.00	Herbicide applications
Aquatic Weed	Hydrilla	Chowan Soil & Water	Chowan River sites	\$ 600.00	\$ 600.00	Monitoring
Aquatic Weed	Hydrilla	Chowan Soil & Water	Cape Colony	\$ 1,600.00	\$ 1,600.00	Herbicide applications
Aquatic Weed	Hydrilla	Cube Hydro	Badin Lake	\$ 2,500.00	\$ 2,500.00	Lake-wide survey
Aquatic Weed	Hydrilla	Cube Hydro	Badin Lake	\$ 500.00	\$ 500.00	Herbicide applications
Aquatic Weed	Hydrilla	Cube Hydro	Ski Pond	\$ 1,250.00	\$ 1,250.00	Herbicide applications
Aquatic Weed	Hydrilla	Cube Hydro	Ski Pond	\$ 800.00	\$ 800.00	Biological control (triploid grass carp)
Aquatic Weed	Hydrilla	Cube Hydro	Badin subimpoundments	\$ 400.00	\$ 400.00	Survey
Aquatic Weed	Hydrilla	Cube Hydro	Falls Reservoir	\$ 250.00	\$ 250.00	Biological control (triploid grass carp)
Aquatic Weed	Hydrilla	Cube Hydro	Falls Reservoir	\$ 500.00	\$ 500.00	Herbicide applications
Aquatic Weed	Hydrilla	Cube Hydro	Falls Reservoir	\$ 400.00	\$ 400.00	Survey
Aquatic Weed	Hydrilla	Cube Hydro	Tuckertown Lake	\$ 2,000.00	\$ 2,000.00	Lake-wide survey
Aquatic Weed	Hydrilla	Cube Hydro	High Rock Lake	\$ 750.00	\$ 750.00	Monitoring
Aquatic Weed	Alligatorweed	Dare County	HWY 64 drainage canals	\$ 1,000.00	\$ 1,000.00	Herbicide applications
Aquatic Weed	Hydrilla	Duke Energy	Lake Tillery	\$ 2,250.00	\$ 2,250.00	Lake-wide survey
Aquatic Weed	Hydrilla	Duke Energy	Shearon Harris Lake	\$ 8,400.00	\$ 8,400.00	Biological control (triploid grass carp)
Aquatic Weed	Hydrilla	Duke Energy	Shearon Harris Lake	\$ 1,600.00	\$ 1,600.00	Lake-wide survey
Aquatic Weed	Hydrilla	Edenton, Town of	Filbert's Creek	\$ 1,000.00	\$ 1,000.00	Herbicide
Aquatic Weed	Hydrilla	Edenton, Town of	Queen Anne's Creek	\$ 500.00	\$ 500.00	Monitoring
Aquatic Weed	Egeria densa	Fayetteville, City of	BMP-17 structure	\$ 500.00	\$ 500.00	Herbicide applications
Aquatic Weed	Hydrilla	Fayetteville, City of	Mintz Pond	\$ 2,000.00	\$ 2,000.00	Herbicide applications
Aquatic Weed	Hydrilla	Fayetteville, City of	Mintz Pond	\$ 400.00	\$ 400.00	Lake-wide survey
Aquatic Weed	Eurasian milfoil	Kill Devil Hills, Town of	Kitty Hawk Bay	\$ 5,000.00	\$ 5,000.00	herbicide/survey
Aquatic Weed	Hydrilla	Lewisville, Town of	Falmouth Lake	\$ 250.00	\$ 250.00	Survey
Aquatic Weed	Hydrilla	Lewisville, Town of	Marblehead Lake	\$ 250.00	\$ 250.00	Survey
Aquatic Weed	Alligatorweed	Nags Head, Town of	Stormwater drainage	\$ 2,500.00	\$ 2,500.00	Herbicide applications
Aquatic Weed	Alligatorweed	NC Division of Coastal Management	Buckridge Coastal Reserve (NW Fork & Alligator River)	\$ 900.00	\$ 900.00	Herbicide applications
Aquatic Weed	Hydrilla	NC Parks & Recreation	Morrow Mountain	\$ 550.00	\$ 550.00	Herbicide applications
Aquatic Weed	Hydrilla	NC Parks & Recreation	Umstead (Big Lake)	\$ 550.00	\$ 550.00	Biological control (triploid grass carp)
Aquatic Weed	Hydrilla	NC Parks & Recreation	Umstead (Big Lake)	\$ 600.00	\$ 600.00	Herbicide applications
Aquatic Weed	Hydrilla	NC Parks & Recreation	Umstead (Big Lake)	\$ 200.00	\$ 200.00	Lake-wide survey
Aquatic Weed	Hydrilla	NC Parks & Recreation	Umstead (Reedy Creek)	\$ 1,700.00	\$ 1,700.00	Herbicide applications
Aquatic Weed	Hydrilla	NC Parks & Recreation	Umstead (Reedy Creek)	\$ 150.00	\$ 150.00	Lake-wide survey
Aquatic Weed	Hydrilla	NC Parks & Recreation	Umstead (Sycamore Lake)	\$ 150.00	\$ 150.00	Lake-wide survey
Aquatic Weed	Parrotfeather	NC Parks & Recreation	Oconeechee Mountain	\$ 700.00	\$ 700.00	Herbicide applications
Aquatic Weed	Phragmites	NC Parks & Recreation	Carolina Beach S.P.	\$ 4,500.00	\$ 4,500.00	Herbicide applications
Aquatic Weed	Phragmites	NC Parks & Recreation	Fort Fisher S.P.	\$ 1,500.00	\$ 1,500.00	Herbicide applications
Aquatic Weed	Phragmites	NC Parks & Recreation	Jockeys Ridge S.P.	\$ 400.00	\$ 400.00	Herbicide applications
Aquatic Weed	Phragmites	NC Parks & Recreation	Pettigrew S.P.	\$ 1,750.00	\$ 1,750.00	Herbicide applications
Aquatic Weed	Phragmites	NC Parks & Recreation	Run Hill	\$ 2,000.00	\$ 2,000.00	Herbicide applications
Aquatic Weed	Hydrilla	NC State University	Lake Raleigh	\$ 2,750.00	\$ 2,750.00	Herbicide applications
Aquatic Weed	Hydrilla	NC State University	Yates Millpond	\$ 500.00	\$ 500.00	Herbicide applications
Aquatic Weed	Hydrilla	NC WRC	Jordan Lake	\$ 2,000.00	\$ 2,000.00	Herbicide applications
Aquatic Weed	Hydrilla	NC WRC	Lake Rim	\$ 600.00	\$ 600.00	Herbicide applications
Aquatic Weed	Hydrilla	NC WRC	Lake Rim	\$ 400.00	\$ 400.00	Survey
Aquatic Weed	Research	NCSU	Remote sensing technology	\$ 30,000.00	\$ 30,000.00	Evaluation of sUAS for noxious aquatic weed detection and monitoring
Aquatic Weed	Hydrilla	New Hanover	Dutch Square	\$ 600.00	\$ 600.00	Herbicide applications
Aquatic Weed	Hydrilla	Orange County	Lake Orange	\$ 500.00	\$ 500.00	Survey
Aquatic Weed	Hydrilla	Orange County	Sediment structure #1	\$ 1,400.00	\$ 1,400.00	Herbicide & Survey
Aquatic Weed	Hydrilla	Orange County	Sediment structure #1	\$ 250.00	\$ 250.00	Biological control (triploid grass carp)
Aquatic Weed	Hydrilla	Orange County	Sediment Structure #2	\$ 1,000.00	\$ 1,000.00	Herbicide & Survey
Aquatic Weed	Hydrilla	Orange Water & Sewer Authority	Cane Creek Reservoir	\$ 1,500.00	\$ 1,500.00	Herbicide & Survey
Aquatic Weed	Alligatorweed	Pasquotank County	Newland Drainage Canal	\$ 800.00	\$ 800.00	Herbicide applications
Aquatic Weed	Alligatorweed	Pasquotank County	Pinelakes Canal System	\$ 250.00	\$ 250.00	Herbicide applications
Aquatic Weed	Alligatorweed	Perquimans County	Nicanor Drainage Area	\$ 1,500.00	\$ 1,500.00	Herbicide applications
Aquatic Weed	Creeping Water Primrose	Piedmont Triad Regional Water Authority	Randleman Reservoir	\$ 2,000.00	\$ 2,000.00	Herbicide applications
Aquatic Weed	Hydrilla	Reidsville, City of	Lake Hunt	\$ 3,200.00	\$ 3,200.00	
Aquatic Weed	Hydrilla	Reidsville, City of	Lake Hunt	\$ 700.00	\$ 700.00	Survey
Aquatic Weed	Hydrilla	Reidsville, City of	Lake Reidsville	\$ 6,200.00	\$ 6,200.00	
Aquatic Weed	Hydrilla	Reidsville, City of	Lake Reidsville	\$ 1,000.00	\$ 1,000.00	Survey
Aquatic Weed	Hydrilla	Rocky Mount, City of	Tar River Reservoir	\$ 400.00	\$ 400.00	Survey
Aquatic Weed	Hydrilla	White Lake, Town of	White Lake	\$ 25,000.00	\$ 25,000.00	Contracted services
Aquatic Weed	Alligatorweed	Wilson, City of	Lake Wilson	\$ 400.00	\$ 400.00	Herbicide applications
Aquatic Weed	Hydrilla	Wilson, City of	Buckhorn Lake	\$ 500.00	\$ 500.00	Herbicide applications
Aquatic Weed	Hydrilla	Wilson, City of	Buckhorn Lake	\$ 1,000.00	\$ 1,000.00	Lake-wide survey
Aquatic Weed	Creeping Water Primrose	Wilson, City of	Toisnot Lake	\$ 250.00	\$ 250.00	Herbicide applications
<b>Total</b>				<b>\$ 490,300.00</b>	<b>\$ 548,300.00</b>	

Project	Cooperators
Eno River	DPR, WRC, Orange Co., Durham Co., City of Durham, Town of Hillsborough, City of Raleigh
Lake Gaston	Halifax Co., Northampton Co., Warren Co., Dominion Power
Lake Norman	Lake Norman Marine Commission, Charlotte Water, Duke Energy
Lake Waccamaw	DPR and WRC
Mountain Island Reservoir	Charlotte Water and Duke Energy

\*Typically, funds are not provided to the cooperator. For each projected completed as proposed the State funding will be matched dollar for dollar by the listed cooperator. Cooperators are invoiced for their matching contribution at the end of the weed season in November. Occasionally (1-2 times a year) a cooperator will pay for a project up front and the Department will reimburse them for 50% of the cost.