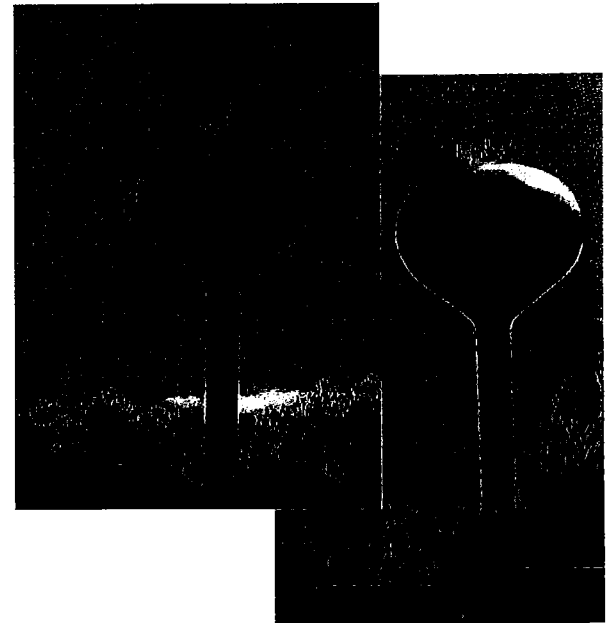


Water Operations Division

Division Overview

The Water Operations staff is responsible for monitoring water quality leaving the plant and in the distribution system for the residents and visitors of Nags Head. The water plant is staffed two shifts per day, seven days a week and serves as an after-hours contact for Nags Head citizens wishing to report water problems or seeking information concerning other Town departmental activities.

Water Operations consists of the 8th Street Water Treatment Plant and storage tank, the Gull Street Pump Station and storage tank, and two 500,000-gallon elevated water storage tanks, one in south Nags Head and the other behind the Public Works complex on Lark Avenue. In addition, Water Operations maintains a state certified laboratory for bacteriological testing to ensure that water quality is in compliance with all state and federal regulations.



Goals

To operate a public water system in a manner that provides Nags Head citizens an adequate quantity of potable water and fire protection, and ensures the compliance of the water system with all federal and state regulations.

Objectives

- Provide effective customer service response to every Nags Head citizen in a timely manner and satisfactorily resolve any needs, questions, or problems that may be presented.
- Update the schedule for replacing equipment and installing new equipment in a time frame consistent with the Water Master Plan. Review water treatment methods and new treatment technologies to ensure safe, cost effective, good tasting potable drinking water.
- Provide a safe work environment for staff and visitors to the water facilities and ensure all water facilities meet or exceed the standards required by the North Carolina Department of Labor, Occupational Safety and Health.
- Provide water at adequate flows and pressures for the Town’s fire protection service.
- Constantly review department goals and operations and institute changes when warranted to ensure a more cost effective and efficient operation.
- Continue to work toward meeting EPA requirements of the Stage 2 Disinfection/Disinfection By-Product Rule that becomes effective in December 2013.

Performance Measures and Workload Indicators

	FY 07-08 <u>Actual</u>	FY 08-09 <u>Actual</u>	FY 09-10 <u>Actual</u>
Water Pumped to Nags Head (million gallons - MG)	425.424	439.077	429.640
Water Purchased from Dare County Regional Water System	425.424	439.077	429.640
Total hours of operation	4,208.09	4,341.45	4,185.3

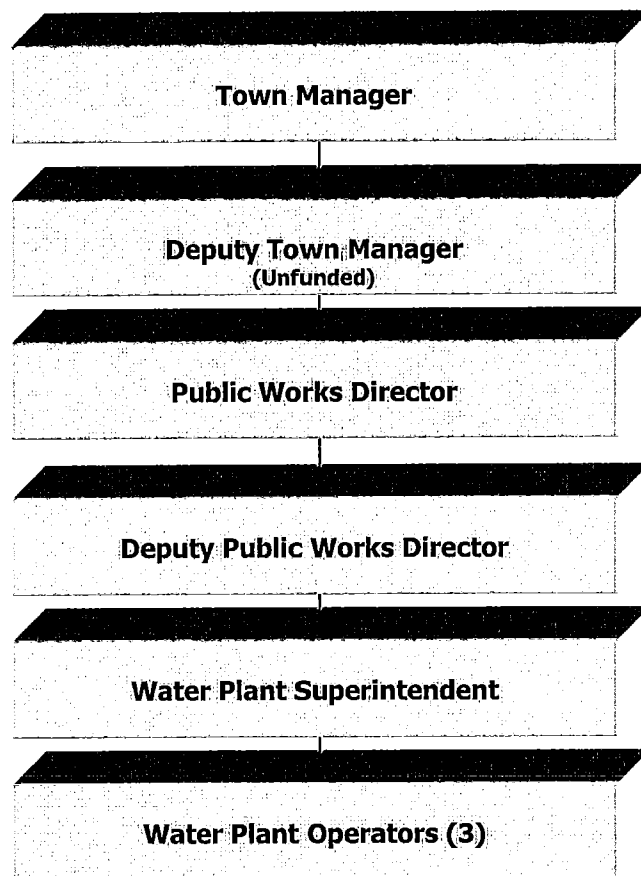
Water Operations

Objectives and Performance Indicators

	FY 07-08 Actual	FY 08-09 Actual	FY 09-10 Actual
Distribution water samples reported negative versus positive North Carolina requires 15 monthly distribution system bacteriological samples. There were 180 samples collected from July 1, 2009 to June 30, 2010.	100%	100%	100%
Number of major equipment breakdowns due to equipment failure	0	0	0
Estimate number of customers who have called about disagreeable tastes, color, and odors	6	5	6
Chemical cost per million gallons of water treated (Fresh Pond)	\$878.00	\$0.00	\$0.00
Average kWh per total million gallons pumped	1186.80	1140.64	1063.25
Overall fire protection rating for Nags Head, 4 (Scale of 1-10, ISO Rating)	4	4	4

Major Accomplishments in FY 2009-2010

- 1) Diehl and Phillips began work to update the Water Master plan with Phase 1- System Hydraulic Modeling
- 2) Completed Individual Distribution Site Evaluation (IDSE) for THM/Haa5 compliance mandated by EPA for Stage 2 of the DBP Rule in December 2013
- 3) Gull Street cla-valves on #1 and #2 pumps rebuilt
- 4) Original SCADA computer at 8th Street water plant replaced
- 5) Gull Street pump #2 motor was rebuilt by Pearson Pumps
- 6) 8th Street distribution pump #3 motor was rebuilt by Pearson Pumps
- 7) Final Division of Water Quality (DWQ) inspection for Fresh Pond shut down



<u>Position</u>	<u>Grade</u>	<u>Adopted Positions FY 10-11</u>	<u>Existing Positions</u>	<u>Recommended Positions FY 11-12</u>	<u>Adopted Positions FY 11-12</u>
Water Plant Superintendent	17	1	1	1	1
Water Plant Operator	11	3	3	3	3
TOTAL:		4	4	4	4

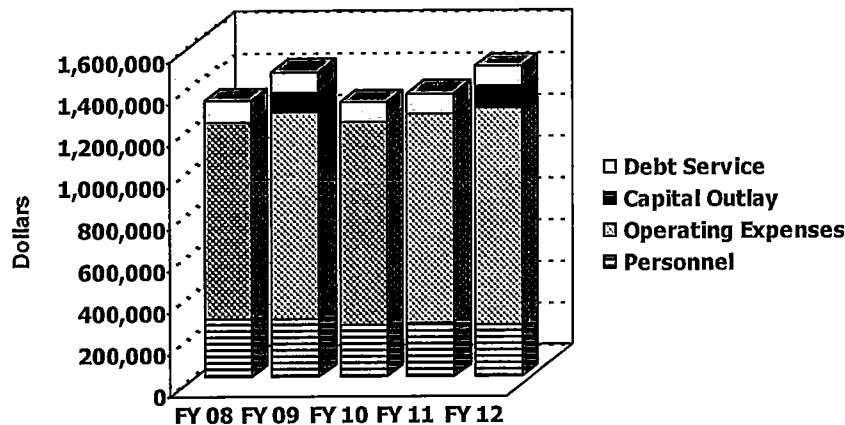
Highlights

- Debt Service includes the 8th year payment of a loan, financed over 15 years, for the new Eighth Street water tower.
- Capital outlay funds of \$100,000, which include engineering costs, are included for Gull Street water flow improvements.
- Additional capital outlay funds include \$6,500 for a smart valve for chlorine levels at the Gull Street site.

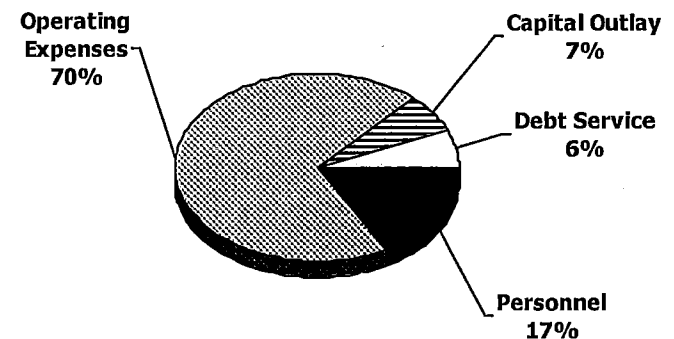
Expenditures by Function

	FY 2010-2011 Adopted	FY 2011-2012 Adopted	Percent Change
Personnel Services	\$ 260,426	\$ 251,487	-3.43%
Operating Expenses	\$ 1,003,645	\$ 1,036,494	3.27%
Capital Outlay	\$ 0	\$ 106,500	100.00%
Debt Service	\$ 93,874	\$ 93,875	0%
Total	\$ 1,357,945	\$ 1,488,356	9.60%

Adopted Expenditure History



Adopted FY 2011-2012 Expenditures by Function



TOWN OF NAGS HEAD
EXPENDITURE BUDGET FY 2011-2012

WATER FUND	FY 10/11 ADOPTED BUDGET	FY 10/11 AMENDED BUDGET	UNAUDITED YTD ACTUAL @ 06/30/2011	FY 11/12 REQUESTED BUDGET	FY 11/12 RECOMMENDED BUDGET	FY 11/12 ADOPTED BUDGET
WATER OPERATIONS						
SALARIES						
810 510200 SALARIES/WAGES - REGULAR	173,002.00	173,349.00	172,183.53	129,646.00	169,700.00	169,700.00
810 510200 1 SALARIES/WAGES - REGULAR	.00	.00	.00	.00	.00	.00
810 510200 2 SALARIES/WAGES - REGULAR	.00	.00	.00	.00	.00	.00
810 510201 SALARIES - LONGEVITY PAY	5,297.00	5,297.00	5,294.46	3,694.00	5,296.00	5,296.00
810 510300 SALARIES/WAGES - PARTTIME	.00	.00	.00	.00	.00	.00
810 510400 OVERTIME PAY	2,000.00	2,000.00	138.77	2,000.00	2,000.00	2,000.00
810 510400 1 OVERTIME PAY	.00	.00	.00	.00	.00	.00
810 510400 2 OVERTIME PAY	.00	.00	.00	.00	.00	.00
810 510500 HOLIDAY PAY	4,800.00	4,800.00	3,504.61	4,800.00	4,800.00	4,800.00
810 510500 1 HOLIDAY PAY	.00	.00	.00	.00	.00	.00
810 510500 2 HOLIDAY PAY	.00	.00	.00	.00	.00	.00
TOTAL SALARIES	185,099.00	185,446.00	181,121.37	140,140.00	181,796.00	181,796.00
BENEFITS						
810 520600 FICA TAX	14,162.00	14,189.00	13,197.92	10,722.00	13,909.00	13,909.00
810 520600 1 FICA TAX	.00	.00	.00	.00	.00	.00
810 520600 2 FICA TAX	.00	.00	.00	.00	.00	.00
810 520700 GROUP HEALTH INSURANCE	39,389.00	39,389.00	38,326.20	43,808.00	41,309.00	41,309.00
810 520701 RETIREE'S GROUP HEALTH INSUR	8,022.00	1,564.00	1,571.29	.00	.00	.00
810 520710 EMPLOYEE DENTAL	.00	.00	.00	.00	.00	.00
810 520720 EMPLOYEE LIFE	.00	.00	.00	.00	.00	.00
810 520800 RETIREMENT	11,903.00	11,925.00	11,658.00	9,754.00	12,653.00	12,653.00
810 520800 1 RETIREMENT	.00	.00	.00	.00	.00	.00
810 520800 2 RETIREMENT	.00	.00	.00	.00	.00	.00
810 521000 401 K	1,851.00	1,855.00	1,850.47	1,403.00	1,820.00	1,820.00
810 521000 1 401 K	.00	.00	.00	.00	.00	.00
810 521000 2 401 K	.00	.00	.00	.00	.00	.00
TOTAL BENEFITS	75,327.00	68,922.00	66,603.88	65,687.00	69,691.00	69,691.00
OPERATIONS						
810 522011 CAREER DEVELOPMENT OTHER COSTS	.00	.00	.00	.00	.00	.00
810 532000 TRAINING	915.00	415.00	339.00	915.00	915.00	915.00
810 532002 SAFETY TRAINING	.00	.00	.00	.00	.00	.00
810 532100 BUILDING/EQUIPMENT RENTAL	1,260.00	1,260.00	622.73	1,260.00	800.00	800.00
810 532100 1 BUILDING/EQUIPMENT RENTAL	.00	.00	.00	.00	.00	.00

TOWN OF NAGS HEAD
EXPENDITURE BUDGET FY 2011-2012

		FY 10/11 ADOPTED BUDGET	FY 10/11 AMENDED BUDGET	UNAUDITED YTD ACTUAL @ 06/30/2011	FY 11/12 REQUESTED BUDGET	FY 11/12 RECOMMENDED BUDGET	FY 11/12 ADOPTED BUDGET
WATER FUND							
810	532100	2	BUILDING/EQUIPMENT RENTAL	.00	.00	.00	.00
810	532200	TELEPHONE	5,604.00	5,604.00	4,517.66	5,688.00	5,688.00
810	532200	1	TELEPHONE	.00	.00	.00	.00
810	532200	2	TELEPHONE	.00	.00	.00	.00
810	532300	UTILITIES	45,000.00	45,000.00	44,586.24	50,609.00	45,000.00
810	532400	TRAVEL	1,800.00	1,800.00	1,224.29	1,800.00	1,200.00
810	532500	POSTAGE	2,700.00	1,708.00	1,577.56	2,750.00	2,000.00
810	532600	ADVERTISING	260.00	2,060.00	.00	260.00	260.00
810	532700	PRINTING	2,893.00	2,568.00	2,567.00	2,944.00	2,944.00
810	543100	FUEL COSTS	5,304.00	5,304.00	5,874.86	7,920.00	7,920.00
810	543300	DEPARTMENT SUPPLIES	17,000.00	18,500.00	18,037.89	28,887.00	20,000.00
810	543300	1	DEPARTMENT SUPPLIES	.00	.00	.00	.00
810	543300	2	DEPARTMENT SUPPLIES	.00	.00	.00	.00
810	543400	OTHER SUPPLIES	4,675.00	2,675.00	1,776.00	4,675.00	4,675.00
810	543400	1	OTHER SUPPLIES	.00	.00	.00	.00
810	543400	2	OTHER SUPPLIES	.00	.00	.00	.00
810	543405	OTHER SUPPLIES - COMPUTER	.00	967.00	967.00	.00	.00
810	543500	MAINT/REPAIR BUILDINGS	2,000.00	125.00	.00	2,000.00	1,500.00
810	543500	1	MAINT/REPAIR BUILDINGS	.00	.00	.00	.00
810	543500	2	MAINT/REPAIR BUILDINGS	.00	.00	.00	.00
810	543600	MAINT/REPAIR EQUIPMENT	16,500.00	24,600.00	22,858.56	215,800.00	29,300.00
810	543600	1	MAINT/REPAIR EQUIPMENT	.00	.00	.00	.00
810	543600	2	MAINT/REPAIR EQUIPMENT	.00	.00	.00	.00
810	543700	MAINT/REPAIR VEHICLES	1,400.00	1,400.00	793.14	1,400.00	1,400.00
810	543700	1	MAINT/REPAIR VEHICLES	.00	.00	.00	.00
810	543700	2	MAINT/REPAIR VEHICLES	.00	.00	.00	.00
810	543701	VEHICLE REPAIRS	.00	.00	.00	.00	.00
810	543900	UNIFORMS	1,500.00	1,500.00	1,302.72	1,500.00	1,600.00
810	544000	PROFESSIONAL FEES	19,600.00	35,293.00	34,847.00	32,720.00	8,720.00
810	544500	CONTRACTED SERVICES	9,285.00	8,285.00	6,547.12	12,725.00	3,440.00
810	544500	1	CONTRACTED SERVICES	.00	.00	.00	.00
810	544500	2	CONTRACTED SERVICES	.00	.00	.00	.00
810	544800	PURCHASES FOR RESALE	816,314.00	876,314.00	845,210.50	879,840.00	840,000.00
810	555000	DEPRECIATION EXPENSE	.00	.00	269,531.78	.00	.00
810	555200	OPEB Funding	.00	.00	.00	.00	.00
810	555300	DUES AND SUBSCRIPTIONS	2,278.00	2,278.00	2,277.36	2,328.00	2,328.00
810	555400	INSURANCE	47,357.00	47,357.00	45,813.00	47,357.00	56,804.00
810	555400	1	INSURANCE	.00	.00	.00	.00
810	555400	2	INSURANCE	.00	.00	.00	.00
810	569900	COST REIMBURSEMENT	.00	190,077.00	190,077.00	.00	.00
810	577433	CAPITAL OUTLAY BUDGETARY	.00	.00	.00	.00	.00
TOTAL OPERATIONS			1,003,645.00	1,275,090.00	1,501,348.41	1,303,378.00	1,036,494.00
CAPITAL OUTLAY							
810	577200	CAPITAL OUTLAY BUILDINGS	.00	.00	.00	.00	.00

TOWN OF NAGS HEAD
EXPENDITURE BUDGET FY 2011-2012

WATER FUND	FY 10/11 ADOPTED BUDGET	FY 10/11 AMENDED BUDGET	UNAUDITED YTD ACTUAL @ 06/30/2011	FY 11/12 REQUESTED BUDGET	FY 11/12 RECOMMENDED BUDGET	FY 11/12 ADOPTED BUDGET
810 577300 CAPITAL OUTLAY OTHER	.00	.00	.00	.00	100,000.00	100,000.00
810 577400 CAPITAL OUTLAY EQUIPMENT	.00	.00	.00	6,500.00	6,500.00	6,500.00
TOTAL CAPITAL OUTLAY	.00	.00	.00	6,500.00	106,500.00	106,500.00
DEBT SERVICE						
810 578100 L/P PRINCIPAL	66,817.00	66,817.00	66,905.30	69,390.00	69,390.00	69,390.00
810 578200 LEASE PURCHASE INTEREST	27,057.00	27,057.00	26,969.31	24,485.00	24,485.00	24,485.00
TOTAL DEBT SERVICE	93,874.00	93,874.00	93,874.61	93,875.00	93,875.00	93,875.00
TOTAL WATER OPERATIONS	1,357,945.00	1,623,332.00	1,842,948.27	1,609,580.00	1,488,356.00	1,488,356.00

ORG	OBJECT PROJ	ACCOUNT DESCRIPTION	CURRENT ADJ BUDGET	PROJECTED ACTUAL	Adopted	PERCENT CHANGE
810	577300	CAPITAL OUTLAY OTHER	100,000.00	.00	100,000.00	.00
	630 -6-810-577300-	REPIPING GULL STREET GROUND STORAGE TANK TO INCREASE WATER CIRCULATION PARTICULARLY IN OFFSEASON TO REDUCE THM BUILD UP INCL 80,000 PROJECT AND 20,0000 ENGINEERING	1.00	100,000.00	100,000.00	

ORG	OBJECT PROJ	ACCOUNT DESCRIPTION	CURRENT ADJ BUDGET	PROJECTED ACTUAL	Adopted	PERCENT CHANGE
810	577400	CAPITAL OUTLAY EQUIPMENT	6,500.00	.00	6,500.00	.00
	630 -6-810-577400-	REGAL CHLORINE SMART VALVE FOR GULL ST PUMP STATION VALVE AND INSTALLATION ENABLES TO REGULATE THE CL2 DOSAGE LEAVING GULL ST TO HELP REDUCE THM FORMATION POTENTIAL IN SYSTEM	1.00	6,500.00	6,500.00	