

Stormwater Contracted Services FY 14/15 & FY 15/16

The Town of Nags Head Annual Revenue from the assessed Stormwater Utility Fee equates to approximately \$114,000 annually.

For FY 14/15 the following stormwater repair/replacement/improvement projects were identified/conducted;

1. Red Drum Ocean Outfall: **\$125,000** (first installment of a 2-year cost share agreement w/ NCDOT for replacement and extension)*
2. Mile Post 18-21 Survey Work: **\$18,050** Field Survey services and mapping to identify existing drainage deficiencies and restrictions for future planning purposes.
3. Mile Post 19-21 Drainage Maintenance & Repair Plan, (Phase 1): **\$19,000+/-** proceed with replacement and upgrade of existing cross street drainage culvert pipes.
4. Vista Colony Groundwater Pump Replacement: **\$15,000** replacement of failing groundwater pumps with heavy duty commercial grade model.

Total Funds expended for FY 14/15: \$177,050

For FY 15/16 the following stormwater repair/replacement/improvement projects have been requested;

1. Red Drum Ocean Outfall: **\$125,000** (second installment of a 2-year cost share agreement w/NCDOT for replacement and extension)*
2. Mile Post 18 Drainage Maintenance and Improvement Plan: **\$15,000** for proposed construction costs to expand existing above ground storage areas to accommodate smaller more frequent rainfall events.
3. Mile Post 19-21 Drainage Maintenance & Repair Plan, (Phase 2): **\$67,500+/-** proceed with replacement and upgrade of existing cross street drainage culvert pipes.
4. Vista Colony Well Automation: **\$19,000** to convert from a manual system operation to an automated operation via a wet well/float activated configuration
5. Eighth St: **\$30,000** for drainage enhancements associated with proposed roadway improvements for East and West Eighth St.

Total Funds requested for FY 15/16: \$239,000

FY 14/15 Revenues from Stormwater Utility Fee: \$114,000 +/-

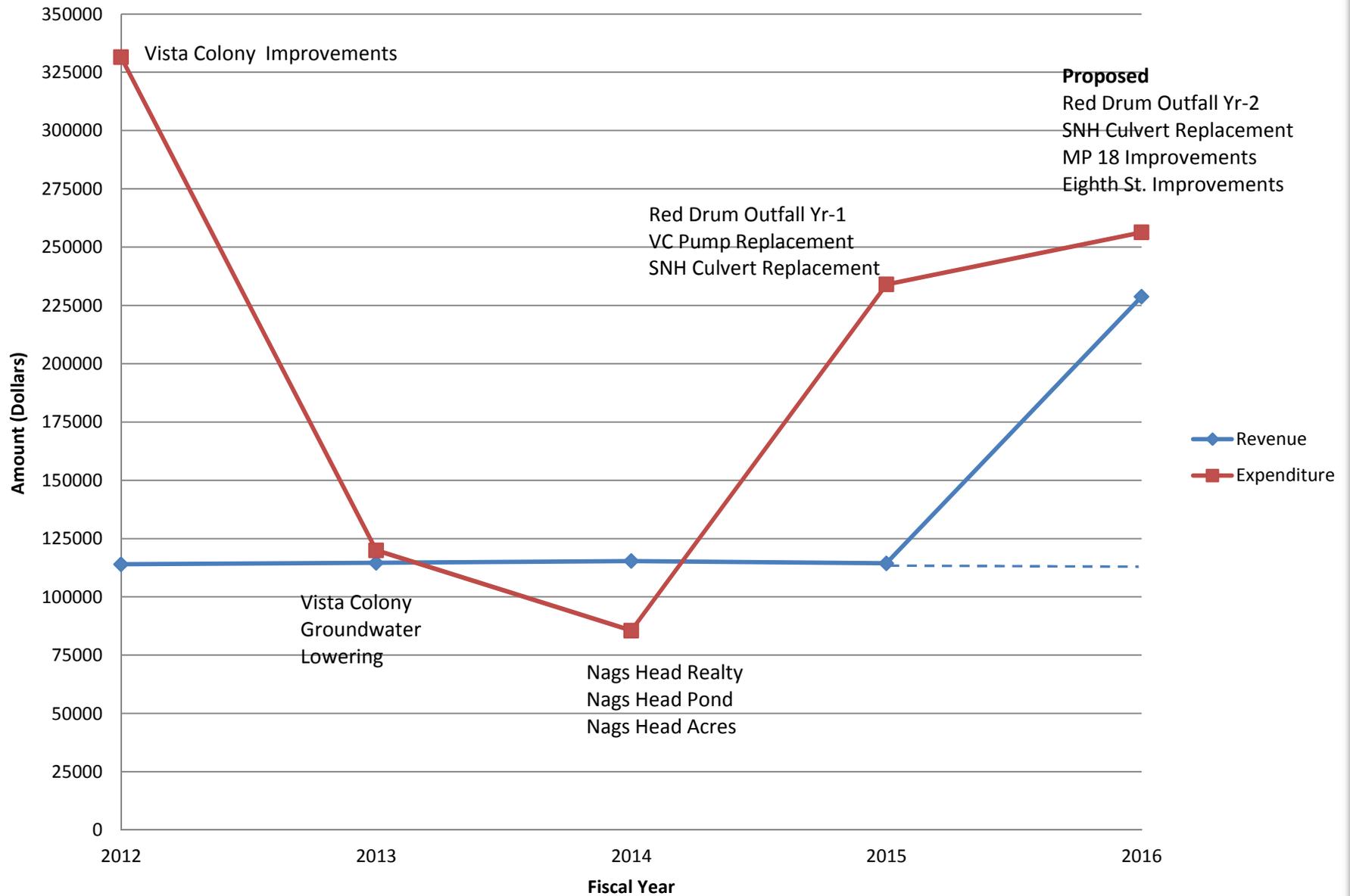
Proposed FY 15/16 Revenues from Stormwater Utility Fee: \$228,000 +/-

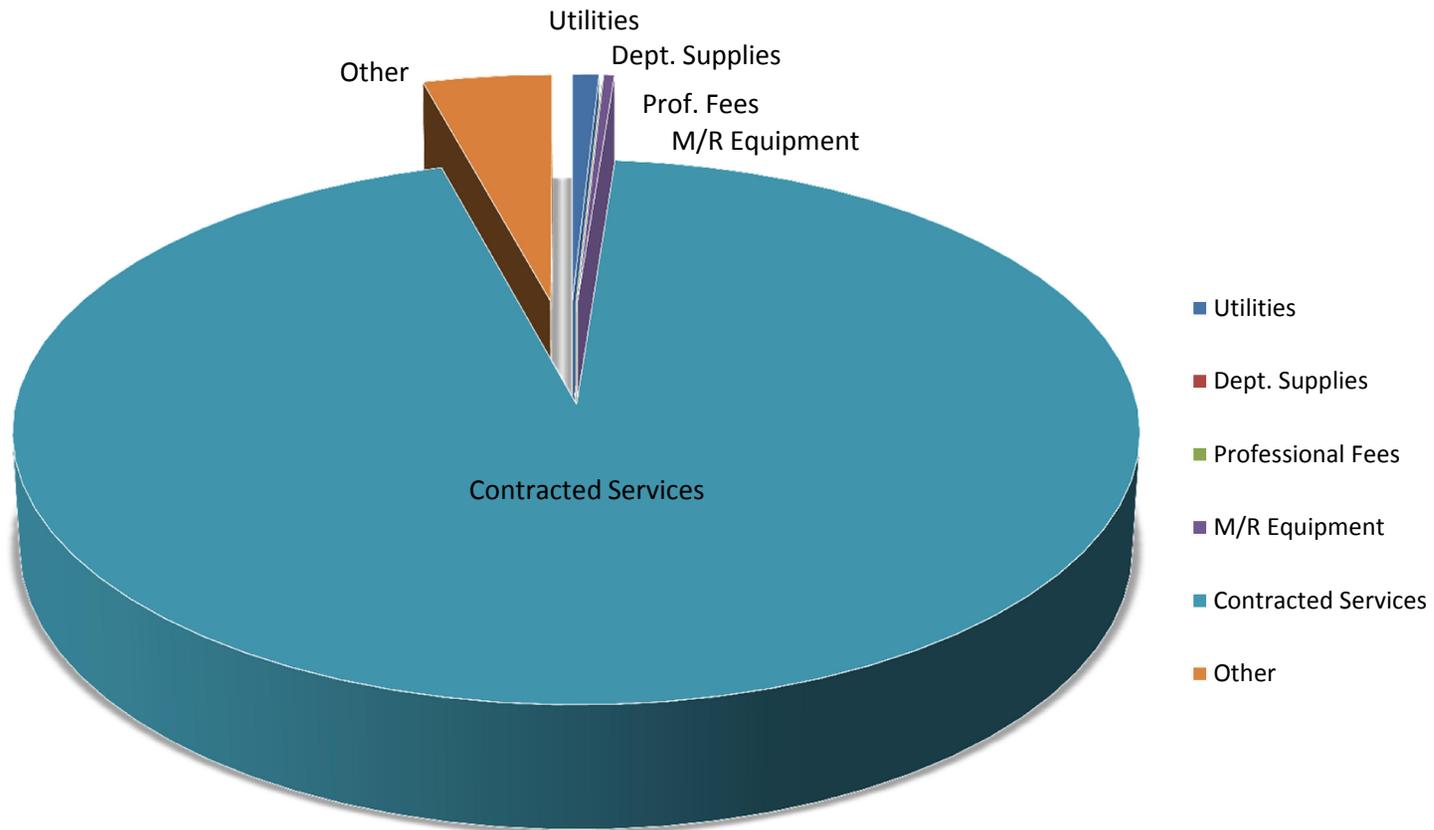
2-Year Expenditures from Stormwater Projects: \$416,050

2-Year Expenditure/Revenue Balance: (\$74,050)

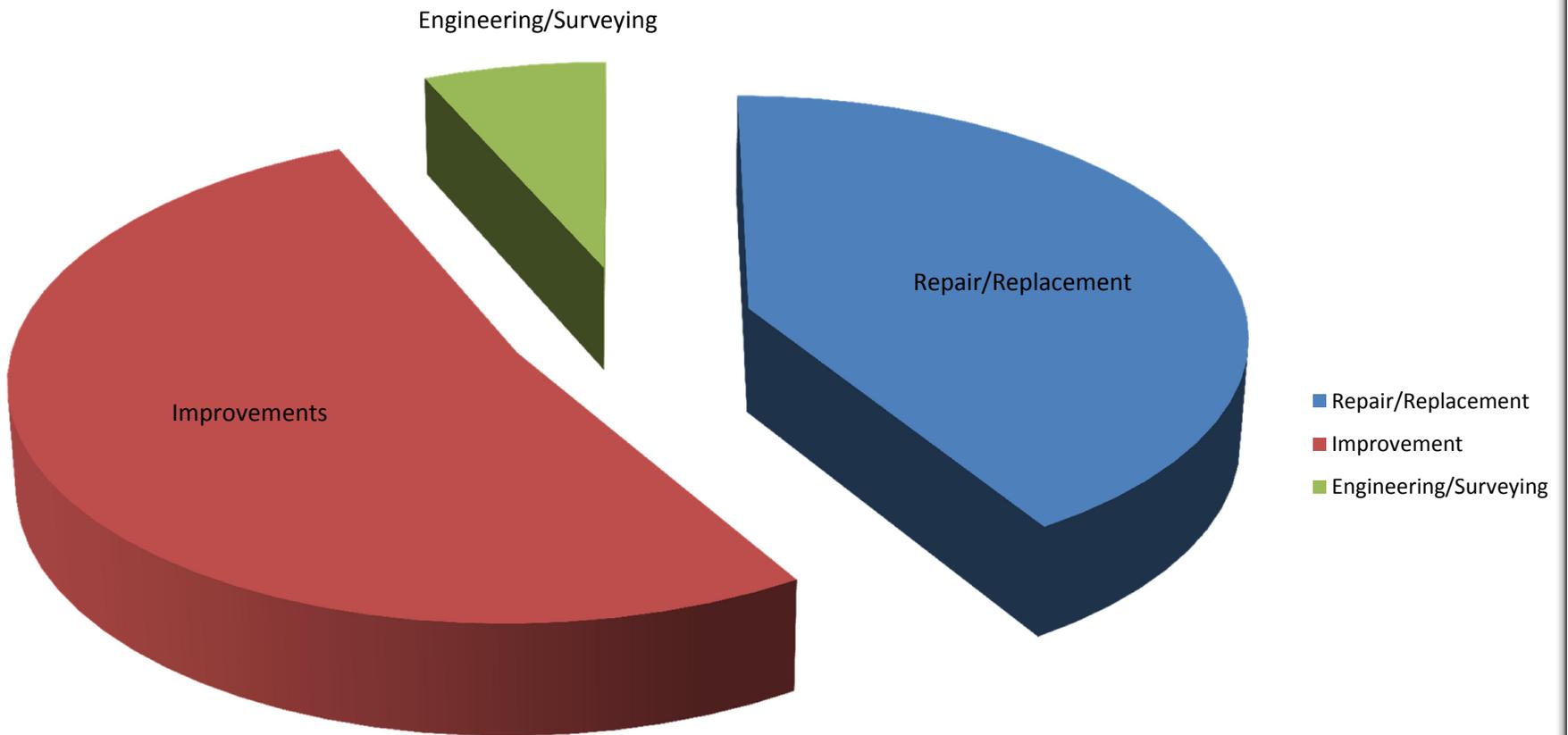
**It should be noted that the agreement with NCDOT is based on a \$600,000 project cost with the Town's cost share currently at \$250,000. Per this agreement, if the project cost is less than \$600,000 then the Town would be entitled to a reimbursement through NCDOT.*

Town of Nags Head Yearly Stormwater Summary from FY 11/12 - FY 15/16





Detail of Stormwater Expenditures
from FY 11/12 - FY 15/16



Stormwater Contracted Services Detail from FY11/12 - FY 15/16

Future Stormwater Projects

1. Stormwater Master Plan Update
Projected Estimated Cost: \$100,000
2. Soundside Rd. Pipe Replacement
Projected Estimated Cost: \$30,000 - \$100,000
3. Morales Art Gallery Pipe Replacement
Project Estimated Cost: \$75,000 - \$125,000
4. Nags Head Acres Outfall Improvements:
Project Estimated Cost: \$100,000 - \$200,000
5. Seven Sister Drainage Improvements:
Project Estimated Cost: \$200,000
6. North Ridge-Cutty Sark Lane Improvements:
Project Estimated Cost: \$150,000
7. Old Nags Head Place Improvements:
Project Estimated Cost: \$100,000
8. North Ridge- W. Lookout Improvements:
Project Estimated Cost: \$10,000
9. Dunn St. Improvements:
Project Estimated Cost: \$50,000
- Subtotal: \$1,035,000* (based upon upper range costs)
10. Equipment Purchase: Culvert Cleaner Replacement : \$70,000
11. Equipment Purchase: Mini-Excavator w/ trailer: \$135,000
- Subtotal: \$205,000
12. 5 yr Estimated Surveying Costs: \$80,000
- Subtotal: \$80,000

Total: \$1,320,000

If projects span a 5 yr schedule for implementation this would equate to \$264,000 per year or \$4.61 flat monthly fee for all residential and non-residential customers.



Robert C. Edwards
Mayor

Susie Walters
Mayor Pro Tem

Cliff Ogburn
Town Manager

Town of Nags Head

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M. Renée Cahoon
Commissioner

John Ratzenberger
Commissioner

Marvin Demers
Commissioner

MEMORANDUM

TO: Marvin Demers, Commissioner

FROM: Connor Winstead, Intern

DATE: August 11, 2014

SUBJECT: Stormwater Contributions Report

As requested, I have compiled a list of my findings and contributions over the course of the past few months.

Per § 160A-314, a municipality has the authority to fix and enforce rates, fees, charges, and penalties for the use of or the services furnished by any public enterprise. The Town has set its stormwater utility fee at a flat \$2.00/month for both residential and nonresidential structures.

There are currently 55 stormwater rate structures in North Carolina, and 16 in the Coastal region. Within the Coastal region, both our current residential and nonresidential fees rank in the lowest 10% in terms of dollars charged per month. Within North Carolina, our current residential fee ranks in the lowest 25%, and our current nonresidential fee ranks in the lowest 10% in terms of dollars charged per month.

Generally, residential monthly stormwater utility fees across the state are flat, and nonresidential monthly stormwater utility fees are tiered. There are 435 nonresidential structures in Nags Head. I was able to collect a comprehensive list of the square footage for each nonresidential building in order to give a general idea of the size of the structures in town. The median nonresidential building square footage in Nags Head is 2588 sq. ft.; the average square footage is 5832 sq. ft. Additionally, I broke this data into quartiles, with the lower quartile ranging from 72-1200 sq. ft., the second quartile ranging from 1201-2588 sq. ft., the third quartile ranging from 2589-6332 sq. ft., and the fourth quartile ranging from 6333-92649 sq. ft.

While this data analysis only reflects nonresidential building square footage, rather than total impervious area, it is still useful in painting a preliminary picture of the size of nonresidential structures in town, as well as presenting potential tier thresholds should the Town decide to alter its current rate structure from a flat structure to a tiered one.

Rate Structure	Residential Bill	Non Residential Bill
Archdale	\$5.00	\$9.54
Asheville	\$2.34	\$11.50
Atlantic	\$2.00	\$2.00
Belmont	\$3.00	\$14.40
Bessemer City	\$2.07	\$2.07
Burlington	\$2.00	\$2.00
Carolina Beach	\$7.00	\$42.00
Chapel Hill	\$3.25	\$19.50
Charlotte	\$6.41	\$38.16
Clemmons	\$5.00	\$15.18
Concord	\$2.58	\$16.54
Cornelius	\$3.04	\$15.48
Cramerton	\$2.75	\$12.45
Cumberland County	\$0.00	\$0.00
Dallas	SPECIAL CASE	SPECIAL CASE
Davidson	\$2.08	\$13.73
Durham	\$2.57	\$26.70
Elizabeth City	\$3.00	\$10.00
Elon	\$2.00	\$2.00
Fayetteville	\$3.00	\$15.89
Gastonia	\$2.75	\$12.45
Graham	\$1.00	\$1.00
Greensboro	\$1.50	\$12.74
Greenville	\$2.85	\$17.10
Harrisburg	SPECIAL CASE	SPECIAL CASE
High Point	\$2.00	\$9.27
Hope Mills	\$4.00	\$31.80
Huntersville	\$3.04	\$15.48
Indian Trail	\$3.54	\$16.20
Jacksonville	\$4.00	\$16.84
Kannapolis	\$3.00	\$14.77
Kernersville	\$3.29	\$13.36
Kinston	\$4.00	\$15.69
Kure Beach	\$8.71	SPECIAL CASE
Lake Park	\$2.50	\$16.67
Landis	\$5.00	\$10.00
Lumberton	\$3.75	\$7.65
Matthews	\$3.04	\$15.48
Mecklenburg County	\$2.79	\$13.73
Mint Hill	\$3.04	\$15.48
Monroe	\$2.80	\$18.33
Mount Holly	\$2.50	\$5.00
Nags Head	\$2.00	\$2.00
Oak Island	\$2.50	\$7.50
Oxford	\$2.00	\$12.00
Plymouth	\$3.00	\$3.00

Pineville	\$3.04	\$15.48
Raleigh	\$1.60	\$21.24
Ranlo	\$2.75	\$2.75
Rocky Mount	\$3.25	\$15.48
Spring Lake	\$1.22	\$19.91
Stalling	\$1.77	\$7.86
Thomasville	\$1.00	\$1.00
Wallace	\$2.69	\$2.69
Washington	\$2.00	\$20.00
Whitakers	SPECIAL CASE	SPECIAL CASE
Wilmington	\$5.75	\$27.60
Wilson	\$2.94	\$13.65
Winston-Salem	\$4.25	\$19.08
Winterville	\$0.00	\$0.00