

SIMPLE-Monthly Pollutant Loading Model Results - South Creek TN

Section 1 TN Loading has increased by 3282% from 2001-2016.
Section 2 Point Source input was the component that saw the greatest increase in loading from 2001-2016 (+359%)
Section 3 Stormwater Runoff is the greatest contributor to TN in South Creek, contributing 78% of the total load.
 South Creek is a major TN contributor to the Blackburn Bay watershed.

Section 1 South Creek

Total Nitrogen

Pollutant Loading Trend	Increase	3282%	2001 to 2016
Components of the Trend			
Stormwater Runoff	Increase	5%	2001 to 2016
Baseflow	Increase	6%	2001 to 2016
Septic Systems	Increase	206%	2001 to 2016
Point Source	Increase	359%	2001 to 2016
Irrigation	Increase	88%	2001 to 2016
Atmospheric Deposition	Not Modeled		2001 to 2016

Year	Total	Runoff	Baseflow	Septic	Point Source	Irrigation	Atmospheric
2001	1949.95	49223.43	11039.09	181.01	33.63	1070.35	0.00
2006	65052.72	50702.83	11449.44	789.71	189.08	1921.67	0.00
2011	65536.07	51076.95	11556.47	709.19	230.71	1962.75	0.00
2016	65942.57	51532.30	11687.32	554.50	154.40	2014.05	0.00

Units are pounds per year and modeled using a typical rainfall year.
 Jones Edmunds and Associates conducted this modeling for Sarasota County in 2017.
 Modeling was conducted only for the parts of basins located within Sarasota County.
 Pollutant loading from Atmospheric Deposition (wet and dry) was conducted only for bays.

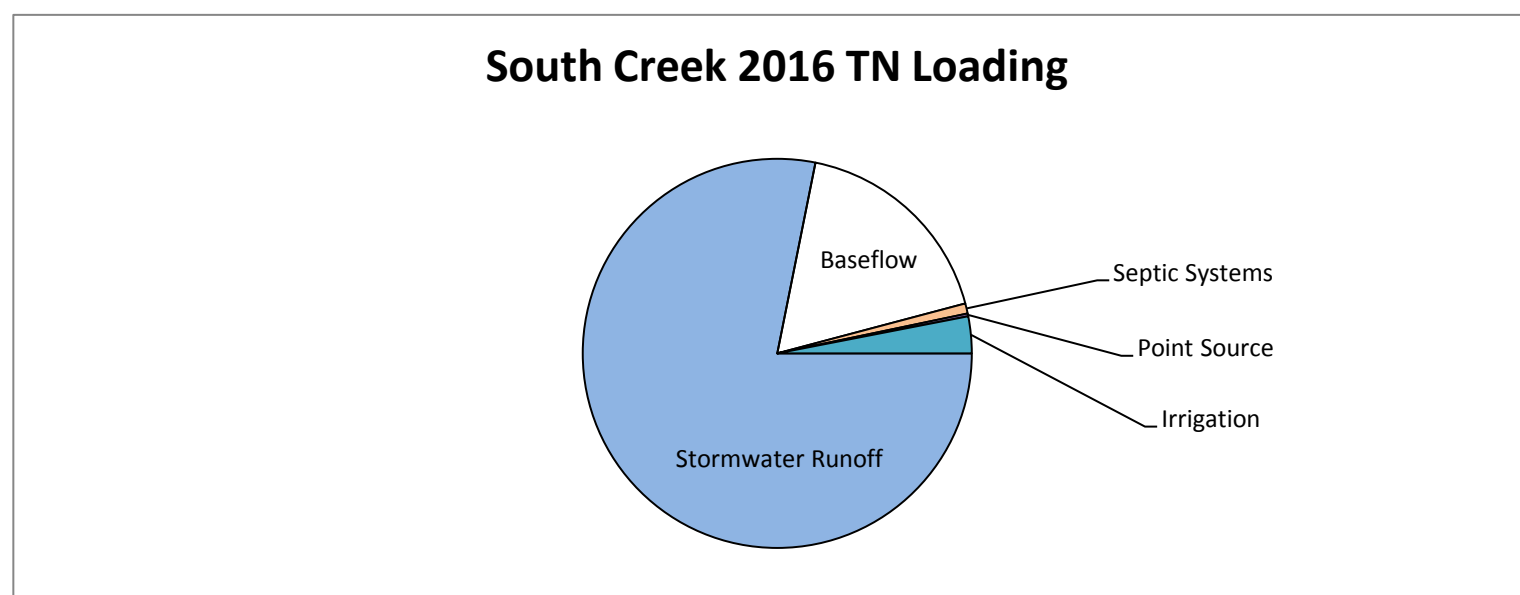
Section 2

South Creek

Total Nitrogen

2016 Pollutant loading is influenced by some sources more than others

Stormwater Runoff	78%
Baseflow	18%
Septic Systems	1%
Point Source	0%
Irrigation	3%
Atmospheric Deposition	Not Modeled



Section 3

South Creek

Total Nitrogen

2016 Pollutant loading to the Blackburn Bay watershed has multiple sources

Proportion of loading is **High** when % load is compared to % acreage.
South Creek acreage is 82% and % loading is 97%

South Creek is a part of the Blackburn Bay watershed

	Pounds TN 2016	Acreage
Blackburn Bay	67,880	15,367

The following basins contribute to the loading to the Blackburn Bay watershed

	Pounds TN 2016	% of Watershed Load	Acreage	% of Blackburn Bay watershed
Casey Key Blackburn Bay	77	0%	322	2%
Blackburn Bay	451	1%	693	5%
South Creek	65,943	97%	12,630	82%
Blackburn Bay Coastal	1,409	2%	1,721	11%

