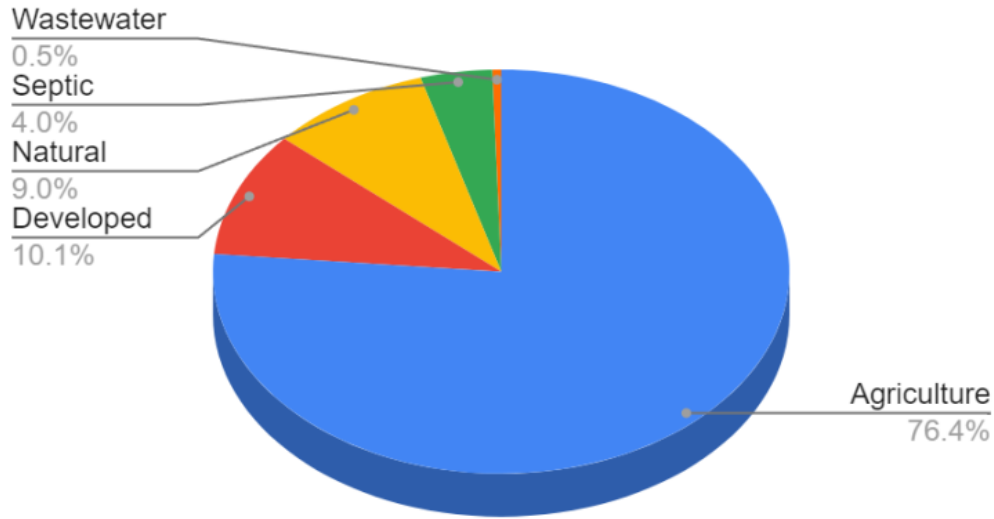


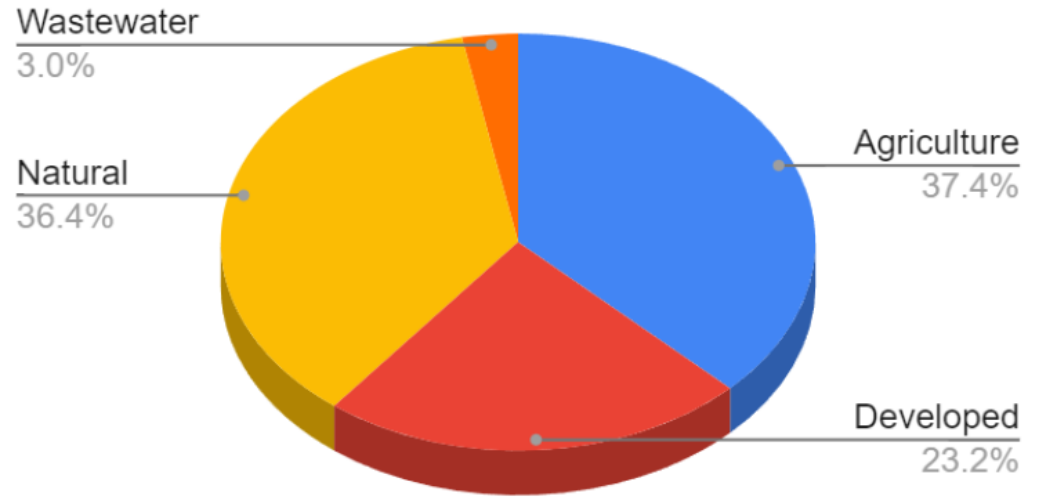
# Nutrient Loading Distribution by Sources – Corsica River Watershed (Based on MD CAST 2022 Progress)

TN



Source	%	Load (lbs/yr)
Agriculture	76%	184,761
Developed	10%	24,756
Natural	9%	22,389
Septic	4%	10,414
Wastewater	0.50%	1,151

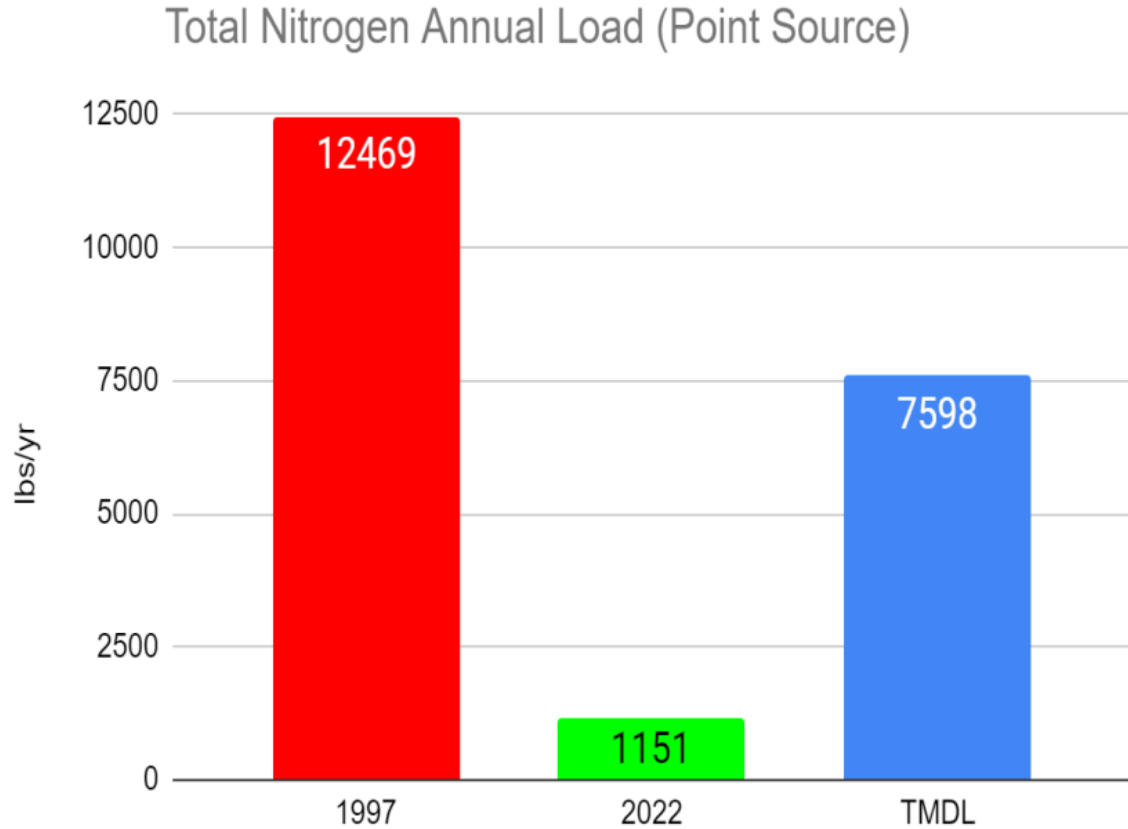
TP



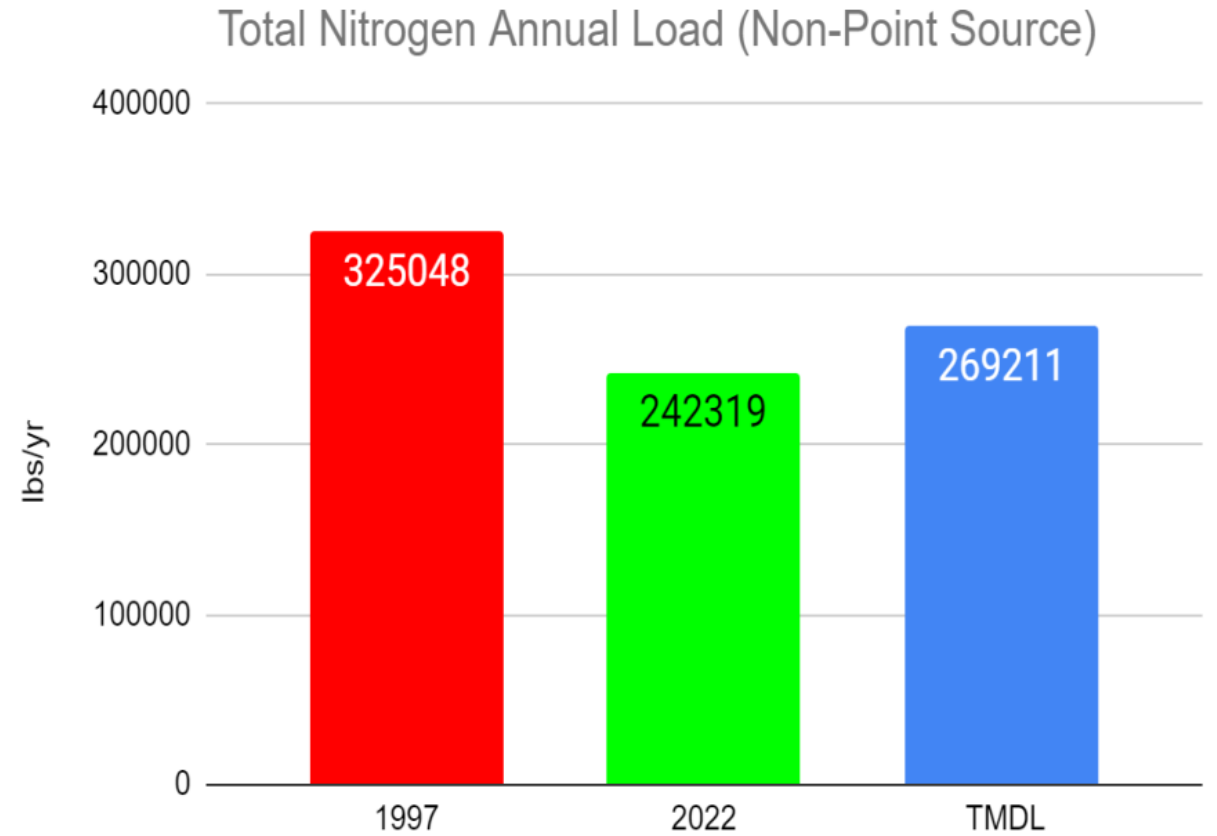
Source	%	Load (lbs/yr)
Agriculture	37%	3,669
Developed	23%	2,294
Natural	36%	3,515
Septic	0%	-
Wastewater	3%	317



# TN Reduction Progress at Corsica River Watershed



Centreville WWTP

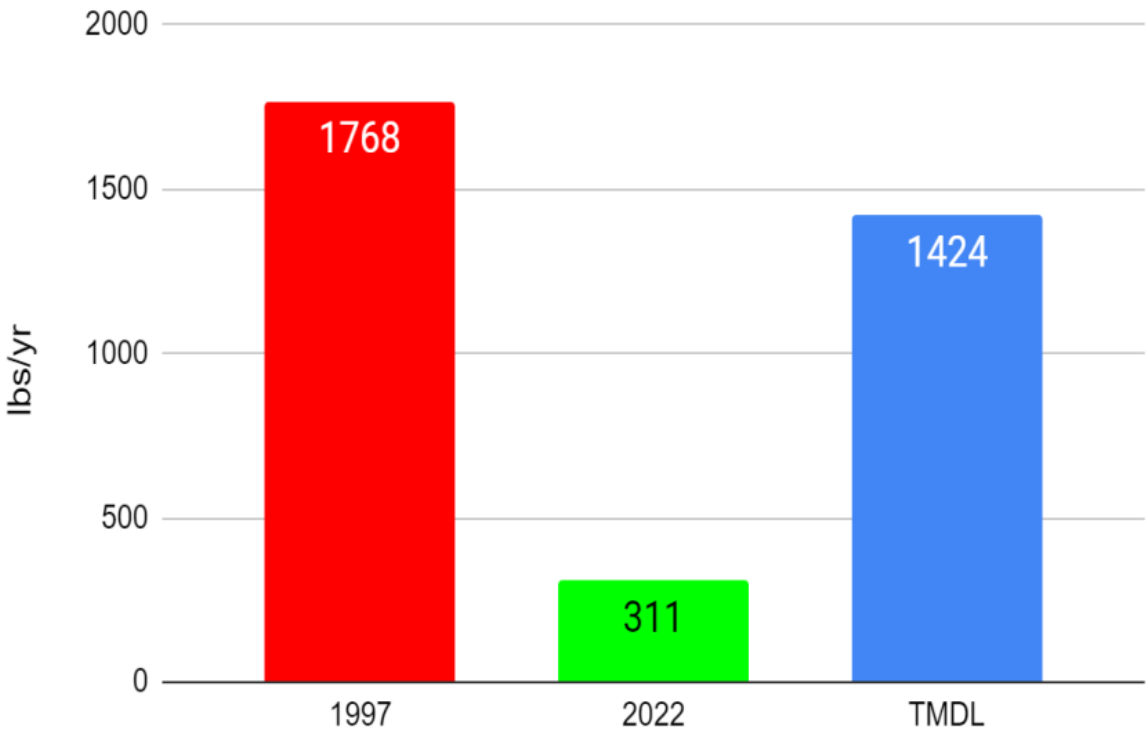


NPS



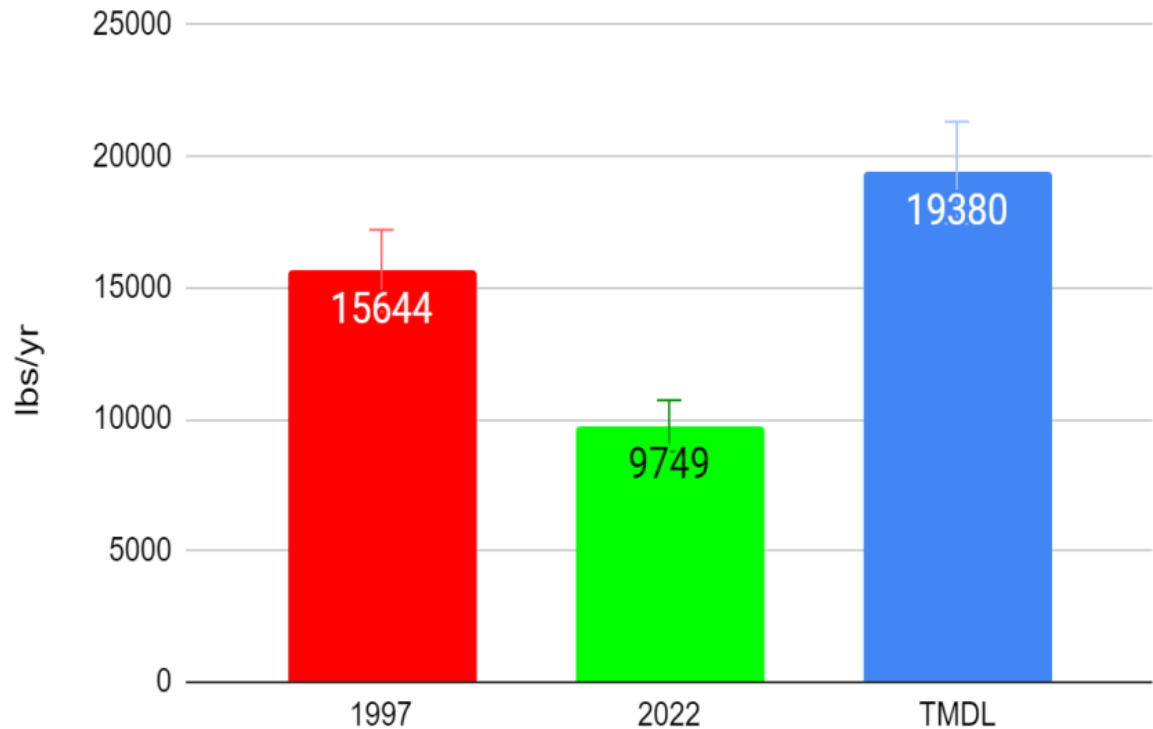
# TP Reduction Progress at Corsica River Watershed

Total Phosphorus Annual Load (Point Source)



Centreville WWTP

Total Phosphorus Annual Load (Non-Point Source)



NPS



# MDE's recommendation for the year-round surface discharge proposal (Part I)

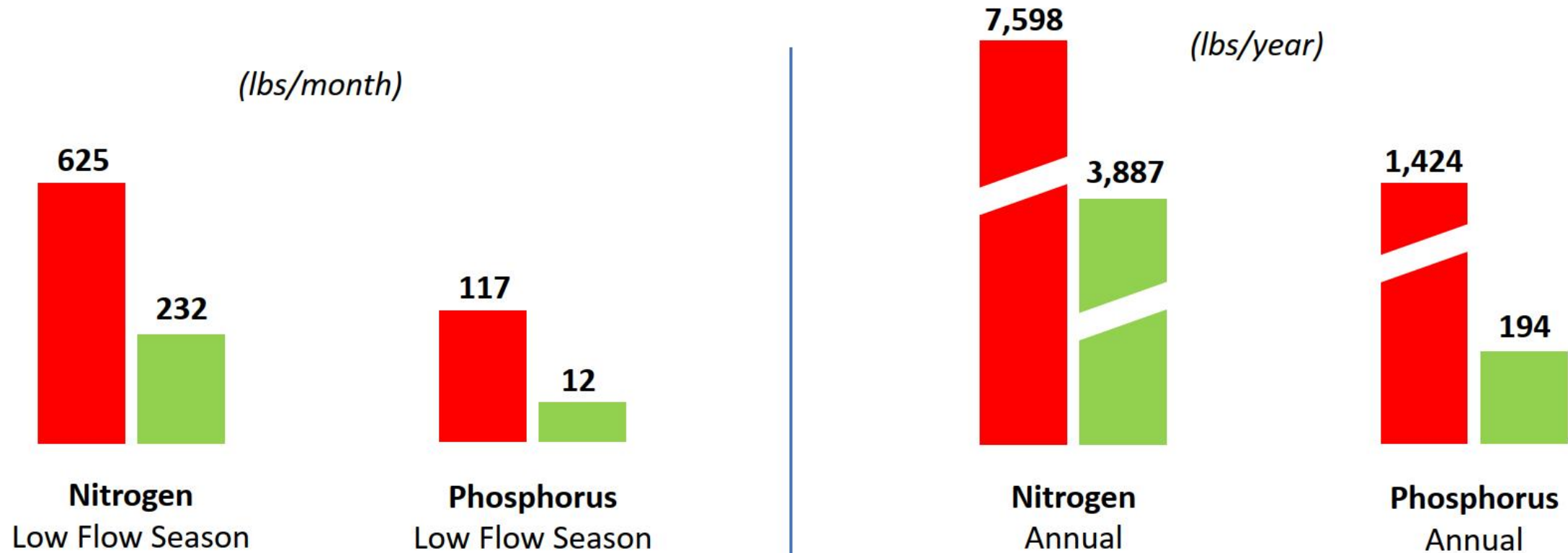
To address nutrient impairment concerns



1. To practice year-round surface discharge, the upgraded Centreville WWTP shall relocate its outfall downstream to location below the Watson Road Bridge to prevent localized water quality impairment near the head of tide on Gravel Run.
2. The upgraded facility must meet more strict effluent nutrient limits.
3. The Town should retain and maximize the use of all current spraying fields as the prioritized effluent disposal option during warmer months



# Centreville WWTP - Proposed Outfall to Corsica River

## Upgraded WWTP Effluent vs Corsica River Nutrient Waste Load Allocation (WLA)



-  MDE Corsica River TMDL Nutrient Waste Load Allocation (WLA)
-  Projected nutrient load from upgraded Centreville WWTP at 1.0 MGD\*

\* Assumes use of existing spray field capacity



# **MDE's recommendation for the year-round surface discharge proposal**

## **Part II –Water Quality Assessment for the Receiving Water**

The Centreville Wastewater Treatment Plant (WWTP) should conduct regular WQ monitoring activities in the stretch of the river both upstream and downstream from the intended discharge point. The primary objective of these evaluations is to establish a baseline for WQ within the recipient water body.

The data collected from these monitoring activities will be instrumental in making any necessary modifications to the nutrient management strategies, thereby mitigating any potential negative effects on the aquatic environment

