Stormwater

The Borough's MS4 Permit

April 11, 2016

NPDES - Phase II
MS4 Permit

National

Pollution

Discharge

Elimination

System

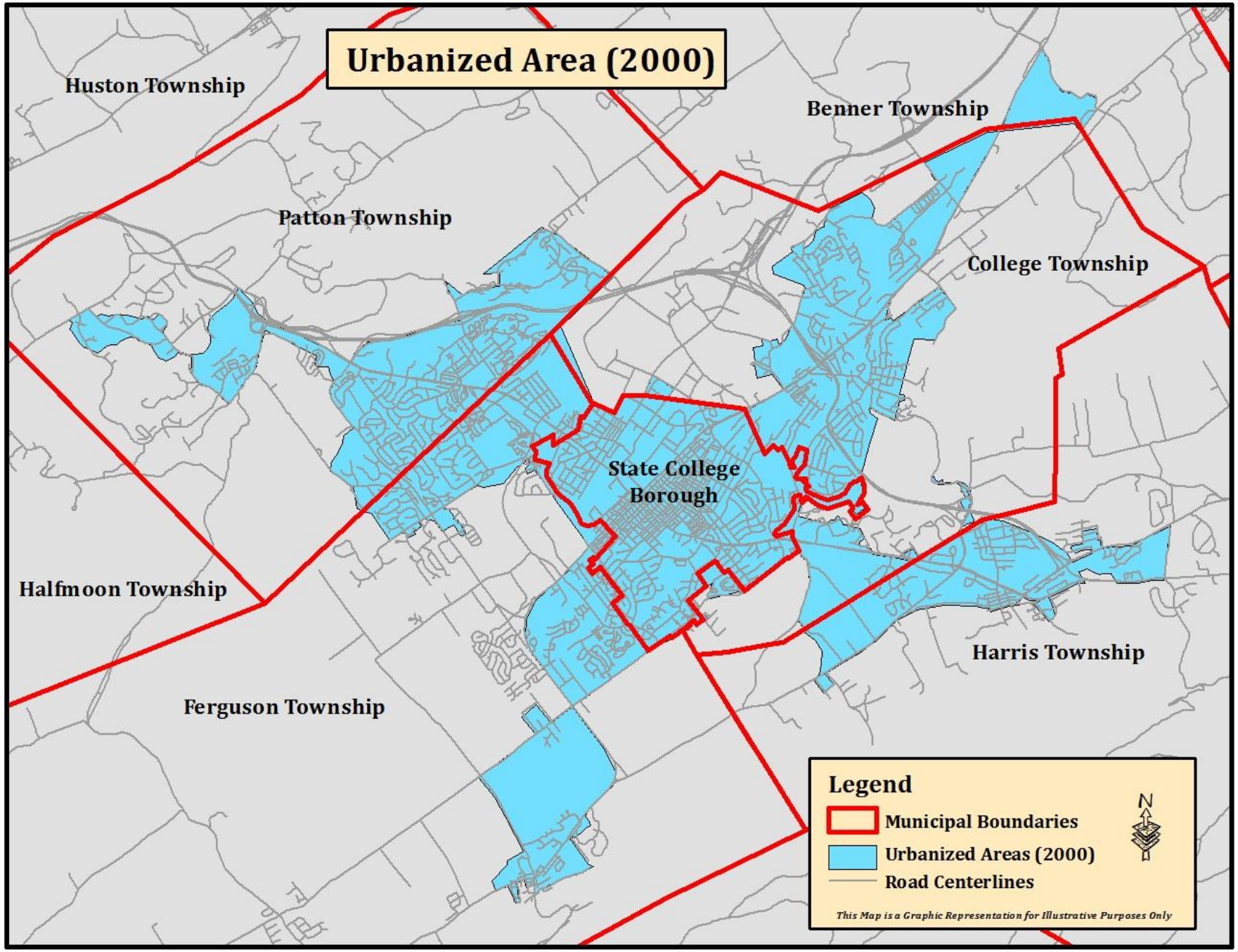
Municipal

Separate

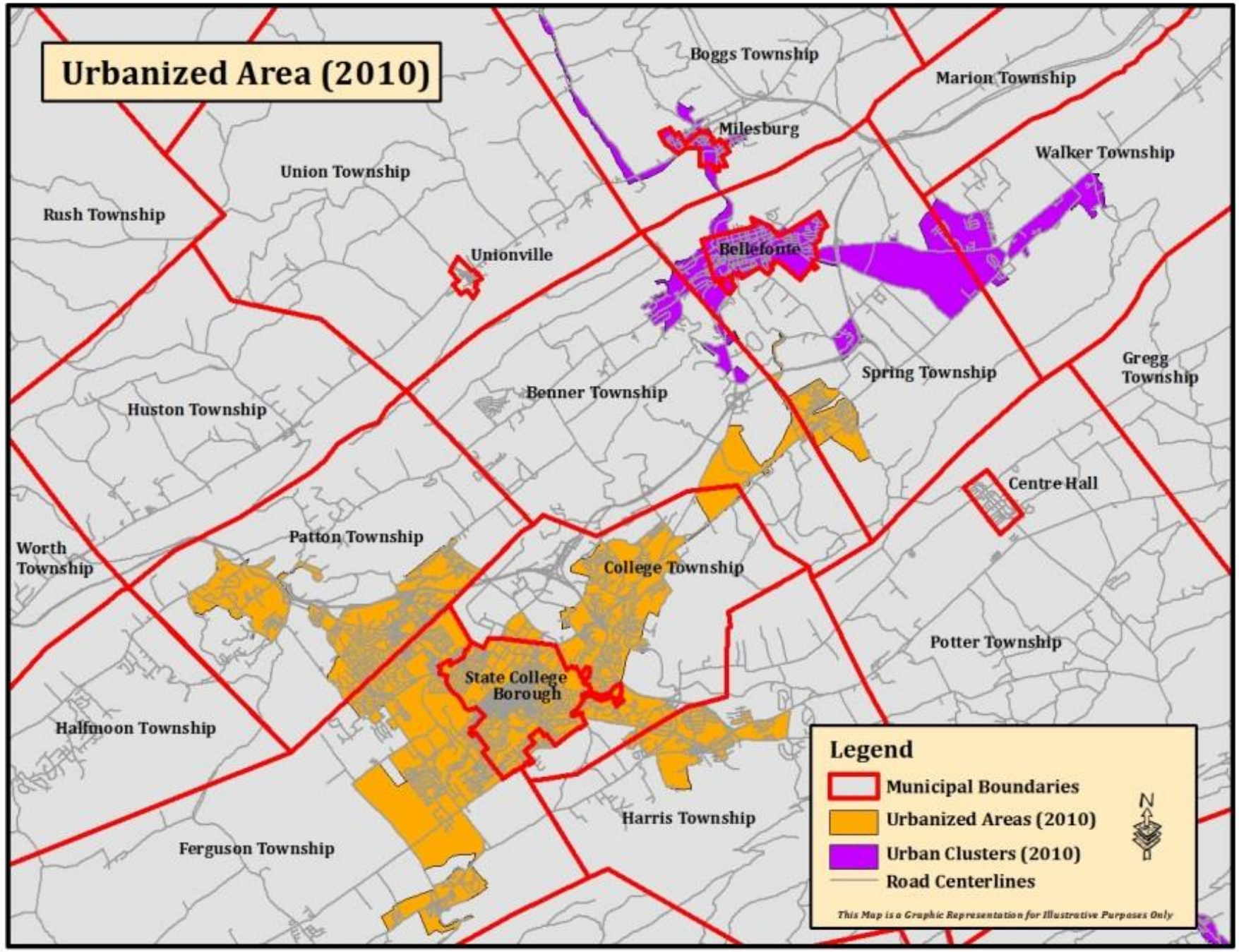
Storm

Sewer

System



Who Has a Permit?



2018 Permit for Benner Township & Spring Township

Permit Information

- Targeted to Urbanized Areas with a Population Density of ≥ 10,000 people/sq. mile *(Based upon 2010 census data)*
- 1st Permit issued in 2003 and covered 5 years (2008)
  - Extension granted for years, 2009-2013
- 2nd Permit issued in Nov 1, 2013 thru Oct 31, 2018
  - Chesapeake Bay Pollutant Reduction Plan required
- Will need to apply in 2017 for 3rd Permit (2018-2023)
  - New CBPRP requirements

Minimum Control Measures

1. Public Education

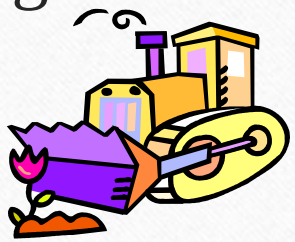
2. Public Involvement

3. Illicit Discharge Detection and Elimination

4. Construction Site Runoff Management

5. Post-Construction Stormwater Management

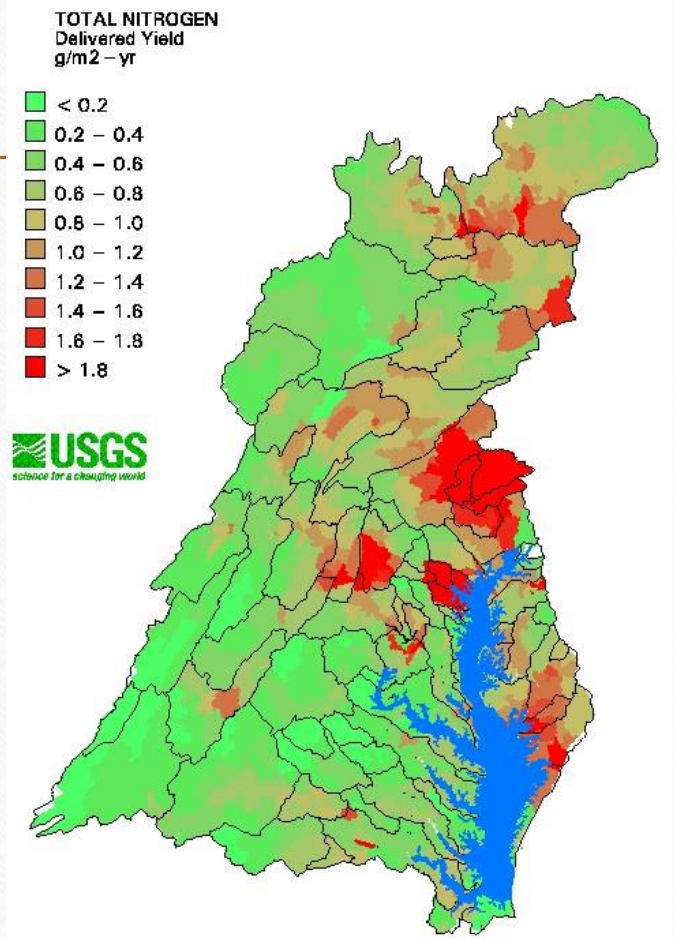
6. Good Housekeeping and Pollution Prevention



Chesapeake Bay Pollution Reduction Plan (CBPRP)

- The objective of the CBPRP is to implement Best Management Practices (BMPs) to produce tangible improvements to the quality of stormwater discharges in the Chesapeake Bay Watershed.

- *Within 12 months of the effective date of the permit, each MS4 Partners created a plan to reduce nitrogen, phosphorus, and sediment associated with* ***existing*** *stormwater discharges.* **(DONE)**

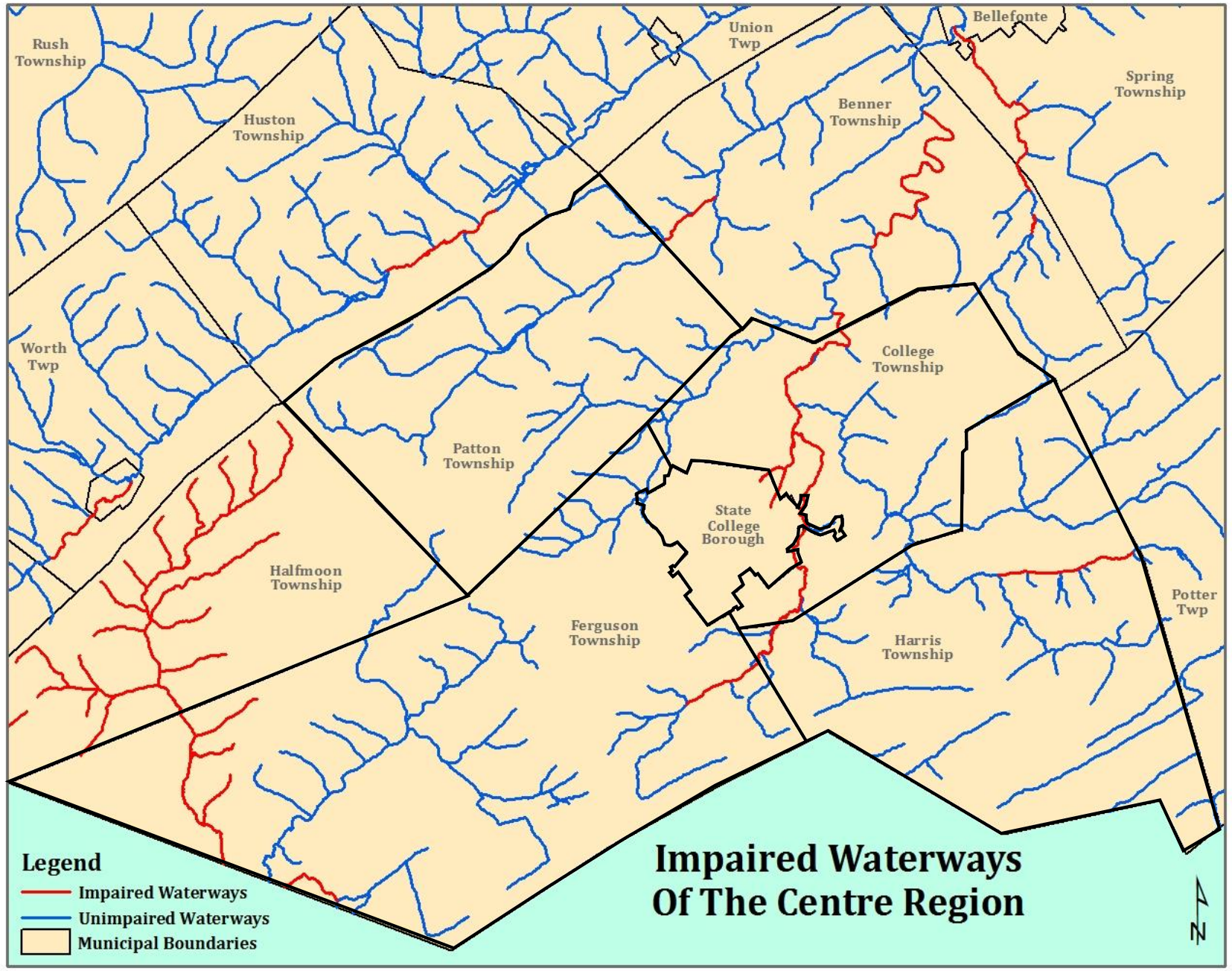


CBPRP Steps

1. Describe the drainage area within the UA that discharges to the Chesapeake Bay Watershed.
2. Describe areas where municipal infrastructure upgrades are planned, and an evaluation of:
3. *Estimate the current loads of Nitrogen (N), Phosphorus (P) and Sediment being discharged from the MS4 annually to surface waters in the Chesapeake Bay Watershed (optional w/current permit).* **NOT OPTIONAL WITH 2018 PERMIT**
4. Identify each Total Maximum Daily Limit (TMDL) control measure that will be implemented to reduce pollutant loads to the Chesapeake Bay Watershed from the MS4 and include:
5. **Pollutant Loading Estimate & Plan for 10% reduction over 5 yrs of Permit**

Impaired waters without a TMDL

- Ensure that **new** discharges from the permittee's regulated small MS4s do not cause or contribute to exceedances of water quality standards.
- Identify the outfalls
- Identify the Best Management Practices (BMP) that will be added or modified for new developments.



What's defined as impaired by PaDEP in the Borough?

TMDL Control Measure

1. **Establish and Protect Riparian Forest Buffers - The Borough passed a Riparian Zone Ordinance in March 1996 for the protection of the stream buffer area associated with Slab Cabin Run.**

2. **Disconnect Impervious Area Program - Develop a plan to determine what properties in the Borough are connected directly to a storm sewer and devise a plan to disconnect.**

3. **Tree Planting - Develop a tree planting plan. Borough has been Tree City USA since 1984**

4. **Construct Recharge/Infiltration Facilities – Determine what facilities can be constructed on municipal-owned property. *Cannot take credit for past projects.***

TMDL Control Measures (Cont.)

5. **Stormwater Basin Retrofits – Determine potential projects. Cannot take credit for past projects**
6. **Restore Streambanks – The Borough does not own any property adjacent to a stream**
7. **Establish Green Infrastructure at facilities that area owned by the municipality and that drain to the regulated small MS4 – Service Building Rainwater Harvesting**
8. **Develop and implement additional provisions to address TMDLs or a separate MS4 TMDL Stormwater Management Ordinance - The State College Borough has adopted an updated Stormwater Management Ordinance.**