Phase II
MS4 Permit Holders
Knowing Your Responsibilities

Presenter:
Ethan Strickler, Town Planner & Zoning Administrator, Town of Boonsboro.

Permit Basics

- Municipal Separate Storm Sewer Systems (MS4)
- National Pollution Discharge Elimination System (NPDES)
- Census defines Urbanized Areas, Urbanized Areas trigger the requirement
- Current permitting cycle 5 years (‘18 – ’23)
- Annual Reporting Requirements

Permit History

- EPA program – MDE oversight (packaging)
  - Federal vs. State Compliance
- Early 1990's Phase I
  - Industrial / Populations > 100,000
- Late 1990's Phase II
  - > 1,000 Pop / Urbanized / MDE Designated
  - Second generation in draft form

Town's (Recent/2018) History with this Permit

- February 28th, 2018: Presentation by Mark Harman of the ARRO Group – Boonsboro had three (3) registered attendees: Marilee Kerns, Howard Long, & Megan Clark
- April 27th, 2018: Boonsboro receives Final Determination
- June 9th, June 19th, & July 18th (2018): Town Planner Ethan Strickler attended half-day or afternoon meetings dedicated to MS4, particularly relating to Washington County and Municipal collaboration
- August 27th, 2018: Short Presentation to the Mayor & Council at their August Workshop
- October 31st, 2018: Permit's Effective Date, Notice of Intent to comply is due to MDE

Second Generation
Phase II Permit

Completion of an annual Progress Report

1. 6 Minimum Control Measures (MCMs)

2. Chesapeake Bay Restoration / TMDL

Report Components

6 Minimum Control Measures (MCMs)

- ✓ MCM1: Public Education & Outreach Program
  - Education & Training
  - What is the problem & how to address = Objective & Goals
- ✓ MCM2: Public Involvement & Participation Program
  - Public interaction
  - Who or what is causing the problem = Target Audience
- ✓ MCM3: Illicit Discharge Detection &Elimination Program
  - Ordinance / Reporting / Remediation
  - Infrastructure inventory & Inspections
  - Stormwater Management Plan

Report Components

6 MCMs continued -

- ✓ MCM4: Construction Site Stormwater Runoff Control Program
  - ➢ Ordinance / Maintenance/ Inspections / Training
- ✓ MCM5: Post-construction Stormwater Management Program
  - ➢ Ordinance / Maintenance/ Inspections / Training
  - ➢ Impacts Municipality long-term
- ✓ MCM6: Pollution Prevention planning / Good Housekeeping Program
  - ➢ Day-to-day operations and facilities
  - ➢ Function from a manual
  - ➢ Enforcement

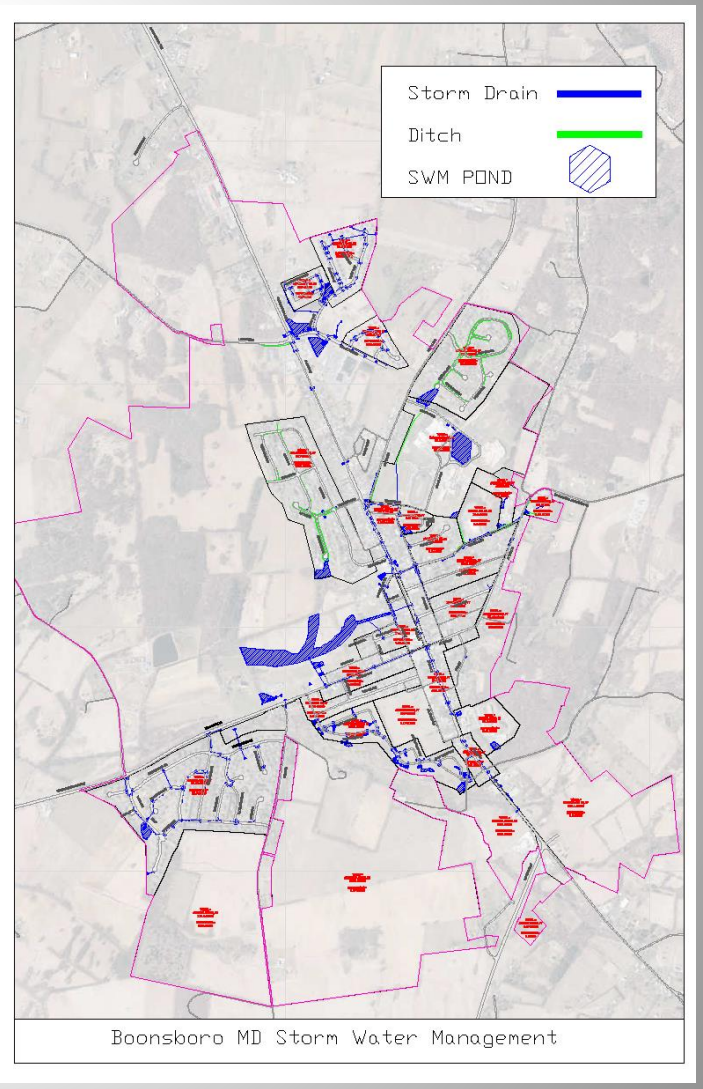
Report Components

Chesapeake Bay Restoration / TMDL

(20% Impervious Area Restoration Requirement)

- Map permitted area
- Define imperious surface
- Evaluate urban BMPs
- Identify disconnects
- 20% of what remains

- Impervious Restoration and Credits for acreage equivalent to 20% of currently untreated (or under-treated) stormwater
- Achieved by (A.) Direct Conversion or (B.) BMP Equivalents



Prior Calculations

- As of 06.26.2017, Boonsboro had 214 acres of impervious surfaces in our permit area.
- Of those 214 acres, 42 acres have treated stormwater and 127 acres have partially treated stormwater.
- Receiving half credit for partial treatment results in 64 acres “treated”. 64 + 42 = 108 total “treated” acres.
- 214 – 108 = 106 remaining acres
- 20% of remaining “untreated” 106 acres of impervious surfaces equals 21 acres

Area	Total (Ac)	Untreated (Ac)	Partially Treated (Ac)	Treated (Ac)	Total Impervious (Ac)	% Impervious
A	11.2	1.3			1.3	12%
B	13.2	4.3			4.3	32%
C	14.1	4.2			4.2	30%
D	18.7	4.7			4.7	25%
E	14.1	5.3			5.3	38%
F	18.7		1.1		1.1	6%
G	7.1	2.7			2.7	38%
H	13.4		3.5		3.5	26%
I	37.4		5.4		5.4	14%
J	37.1		14.0		14.0	38%
K	33.6	8.2			8.2	24%
L	11.5	4.2			4.2	37%
L1	11.8	2.8			2.8	23%
L2	4.7		1.1		1.1	23%
M	6.9	1.5			1.5	22%
N	89.7		26.7		26.7	30%
O	45.4		13.7		13.7	30%
P	60.7		18.2		18.2	30%
Q	27.8		2.3		2.3	8%
R	642.0		14.7		14.7	2%
S	94.2		23.5		23.5	25%
T	110.2		0.0		0.0	0%
U	265.1		2.8		2.8	1%
V	29.3	3.0			3.0	10%
W	8.4	0.0			0.0	0%
X	117.1	2.8			2.8	2%
Y	27.1			17.6	17.6	65%
Z	104.9			24.6	24.6	23%
Totals	1875.4	45.0	127.0	42.2	214.2	11%
State ROW	45.4	36.3				2%

Upcoming Trainings

- Thursday, September 6th, 2018 in Williamsport, MD
- Group meeting (with Washington County and other Municipalities in the County) to work on Notice of Intent(s) (NOIs)
- TBD – Continued discussions on the development of an MOU between Washington County and the Town of Boonsboro regarding the six (6) minimum control measures (MCMs)

- Friday, September 14th, 2018 in Linthicum Heights, MD
- MDE led comprehensive training for local jurisdictions
- ***Emerging Trends in Stormwater Programs***

  This training will include presentations on processes related to fiscal efficiency and increased implementation, streamlined administration, and program improvements, to meet stormwater restoration requirements.

  In the afternoon, participants will choose from one of two breakout sessions highlighting ways to meet restoration requirements and how shared efforts can be leveraged to achieve target implementation goals.

  Finally, the day will end with optional training for new Phase II permittees on how to fill out a notice of intent (NOI).

  Participants will leave with information to help them ramp up the implementation of stormwater restoration projects; leverage new funding mechanisms to support stormwater programs; collaborate with surrounding jurisdictions to gain implementation efficiencies; expand stormwater restoration practice implementation beyond conventional designs; develop MS4 credit proposals for new and innovative stormwater management practices; and identify how nutrient trading can help meet stormwater restoration requirements.

Notice of Intent

- Required to submit NOI by October 31, 2018.
- 1) Name, Telephone #, email of contact person for Parts IV and V (Minimum Control Measures and TMDL)
- 2) Description of the Jurisdiction (could include stormwater map)
- 3) Description of any agreements with other entities (i.e. County MOU)
- 4) Estimate of anticipated expenditures to implement the required programs specified by the permit
- 5) An authorized signature

After Notice of Intent

- First Progress Report is Due on October 31, 2019.
- First Year Report must include: 1) impervious area baseline analysis, 2) impervious area restoration work plan, and 3) restoration activity schedule.
- Urban BMP Database
- Minimum Control Measure Programs: Included in the annual reporting in years 2 and 4 of the permit term.