

PTAP Workshop Series: Non-Structural Controls

July 17, 2024

9:00 AM to 10:00 AM



New PTAP Website

Located on the [NH MS4 Website](#)

PTAP and 2017 NH MS4 Permit

- All permittees can use PTAP to track their structural and non-structural BMP nutrient reductions.
- Permittees with the following TMDLs or impairments are required to track their BMP nutrient reductions:
 - Phosphorus TMDLs
 - Nitrogen impairments
 - Phosphorus impairments

2017 NH MS4 Requirements

Appendix F:

Phosphorus TMDL

Communities with Phosphorus TMDLs Include:

- Amherst
- Bedford
- Derry
- Hollis
- Hudson
- Kingston
- Manchester
- Merrimack
- Newton
- Raymond
- Sandown

2017 NH MS4 Requirements

Appendix F: Phosphorus TMDL

Section III.1.b

- Performance Evaluation
 - Tracking the amount of phosphorus reductions achieved through implemented structural and non-structural BMPs.
 - Tracking the amount of phosphorus increases resulting from new development in the LPCP Area.

Performance Evaluation – The permittee shall evaluate the effectiveness of the LPCP by tracking the phosphorus reductions achieved through implementation of structural and non-structural BMPs³ and tracking increases in phosphorus loading from the LPCP Area beginning six years after the effective date of the permit. Phosphorus reductions shall be calculated consistent with Attachment 2 (non-structural BMP performance), Attachment 3 (structural BMP performance) and Attachment 1 (reductions through land use change), to Appendix F for all BMPs implemented to date.⁴ Phosphorus load increases resulting from development shall be calculated consistent with Attachment 1 to Appendix F. Phosphorus loading increases and reductions in units of mass/yr shall be added or subtracted from the calculated Baseline Phosphorus Load to estimate the yearly phosphorous export rate from the LPCP Area in mass/yr. The permittee shall also include all information required in Part III.1.c. of this Appendix in each performance evaluation.

2017 NH MS4 Requirements

Appendix F: Phosphorus TMDL

Section III.1.c

- Annual Calculations Reporting
 - Non-Structural BMPs Reductions
 - Structural BMPs Reductions
 - New Development Increases
 - Yearly Phosphorus Export Rate

- c. Reporting. Beginning 6 years after the permit effective date, the permittee shall include the following in each annual report submitted pursuant to Part 4.4 of the Permit:
 - i. All non-structural control measures implemented during the reporting year along with the phosphorus reduction in mass/yr (P_{NSred}) calculated consistent with Attachment 2 to Appendix F
 - ii. Structural controls implemented during the reporting year and all previous years including:
 1. Location information of structural BMPs (GPS coordinates or street address)
 2. Phosphorus reduction from all structural BMPs implemented to date in mass/yr (P_{Sred}) calculated consistent with Attachment 3 to Appendix F
 3. Date of last completed maintenance for each Structural control
 - iii. Phosphorus load increases due to development over the previous reporting period and incurred to date (P_{DEVinc}) calculated consistent with Attachment 1 to Appendix F.
 - iv. Estimated yearly phosphorus export rate (P_{exp}) from the LPCP Area calculated using Equation 1. Equation 1 calculates the yearly phosphorus export rate by subtracting yearly phosphorus reductions through implemented nonstructural controls and structural controls to date from the Baseline Phosphorus Load and adding loading increases incurred through development to date. This equation shall be used to demonstrate compliance with applicable phosphorus reduction milestones.

2017 NH MS4 Requirements

Appendix F: Phosphorus TMDL

Requirements for Year 6:

- Track phosphorus reductions from selected non-structural BMPs as outlined in the permittee's Lake Phosphorus Control Plan (LPCP).

Nutrient Reductions (Phosphorus) Tracking:

- PTAP
 - Recommended tracking system by the New Hampshire Stormwater Coalitions.
 - *Deadline to enter data into PTAP: **August 12***
- Other tracking system.

2017 NH MS4 Requirements

Appendix F: Phosphorus TMDL

Year 6 Nutrient Reduction Tracking Recommendations:

- Enter implemented non-structural controls listed in Attachment 2 of Appendix F.
 - Enhanced Street/Pavement Cleaning Program
 - Catch Basin Cleaning
 - Turf Grass Fertilizer Management with No Applications of Fertilizers that Contain Phosphorus
 - Enhanced Organic Waste and Leaf Litter Collection Program
- Recommended to at least enter street sweeping and catch basin cleaning data.
- If you have implemented additional non-structural controls, feel free to enter that additional data into PTAP as time allows.
- *Deadline to enter data into PTAP: **August 12***

2017 NH MS4 Requirements

Appendix F: Phosphorus TMDL

Year 7+ Nutrient Reduction Tracking :

- Enter additional implemented non-structural controls.
 - Jamie will cover this later on in the presentation.
- Enter implemented (constructed) structural controls.
 - See [June 27, 2024 Introduction to PTAP and Structural Controls Workshop Recording](#)

2017 NH MS4 Requirements

Appendix H:

Nitrogen/Phosphorus Impairments

Communities with Nitrogen Impairments Include:

- *Danville*
- ***Dover***
- *Durham*
- *Exeter*
- *Greenland*
- ***Hampstead***
- *Hampton*
- ***Kingston***
- *Milton*
- *New Castle*
- *Newmarket*
- *North Hampton*
- *Portsmouth*
- ***Raymond***
- *Rochester*
- ***Rollinsford***
- *Rye*
- ***Sandown***
- ***Somersworth***
- *Stratham*

Communities with Phosphorus Impairments Include:

- *Atkinson*
- *Derry*
- ***Dover***
- *Goffstown*
- ***Hampstead***
- ***Kingston***
- *Litchfield*
- *Manchester*
- *Newton*
- *Pelham*
- ***Raymond***
- ***Rollinsford***
- *Salem*
- ***Sandown***
- ***Somersworth***
- *Windham*

Note: Bolded communities have both nitrogen and phosphorus impairments

2017 NH MS4 Requirements

Appendix H:

Nitrogen/Phosphorus Impairments

Section I.1.c.iii

- Any structural BMPs listed in Attachment 3 to Appendix F installed in the regulated area by the permittee or its agents shall be tracked and the permittee shall estimate the nitrogen/phosphorus removal by the BMP consistent with Attachment 3 to Appendix F. The permittee shall document the BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated nitrogen/phosphorus removed in mass per year by the BMP in each annual report.

2017 NH MS4 Requirements

Appendix H:

Nitrogen/Phosphorus Impairments

Requirements for Year 6:

- Track nitrogen/phosphorus reductions from implemented (constructed) structural BMPs.

Nutrient Reductions (Nitrogen and Phosphorus) Tracking:

- PTAP
 - Recommended tracking system by the New Hampshire Stormwater Coalitions.
 - *Deadline to enter data into PTAP: **August 12***
- Other tracking system.

2017 NH MS4 Requirements

Appendix H:

Nitrogen/Phosphorus Impairments

Year 6 Nutrient Reduction Tracking

Recommendations:

- Enter at least **one** implemented (constructed) structural BMP
- If you have implemented additional structural BMPs, feel free to enter that additional data into PTAP as time allows.
- *Deadline to enter data into PTAP: **August 12***

2017 NH MS4 Requirements

Appendix H:

Nitrogen/Phosphorus Impairments

Year 7+ Nutrient Reduction Tracking:

- Enter additional implemented (constructed) structural BMPs.
 - See [June 27, 2024 Introduction to PTAP and Structural Controls Workshop Recording](#)
- Enter implemented non-structural controls.

2017 NH MS4 Requirements

Communities without nutrient impairments or TMDLs

Requirements for Year 6:

- None

Nutrient Reductions Tracking:

- PTAP
 - Recommended tracking system by the New Hampshire Stormwater Coalitions.
- Other tracking system.

Year 6 Nutrient Reduction Tracking Recommendations:

- Enter implemented non-structural controls into PTAP as time allows.
- Enter implemented (constructed) structural controls into PTAP as time allows.

2017 NH MS4 Requirements

Communities without nutrient impairments or TMDLs

Year 7+ Nutrient Reduction Tracking :

- Enter implemented non-structural controls.
- Enter implemented (constructed) structural controls.
 - See [June 27, 2024 Introduction to PTAP and Structural Controls Workshop Recording](#)

2017 NH MS4 Requirements

Appendix F: Phosphorus TMDL

Year 6 Nutrient Reduction Tracking Recommendations:

- Enter implemented non-structural controls listed in Attachment 2 of Appendix F.
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 - Catch Basin Cleaning
 - Turf Grass Fertilizer Management with No Applications of Fertilizers that Contain Phosphorus
 - Enhanced Organic Waste and Leaf Litter Collection Program
- Recommended to at least enter street sweeping and catch basin cleaning data.
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2017 NH MS4 Requirements

Appendix H:

Nitrogen/Phosphorus Impairments

Year 6 Nutrient Reduction Tracking

Recommendations:

- Enter at least **one** implemented (constructed) structural BMP
- If you have implemented additional structural BMPs, feel free to enter that additional data into PTAP as time allows.
- *Deadline to enter data into PTAP: **August 12***

2017 NH MS4 Requirements

Communities without nutrient impairments or TMDLs

Requirements for Year 6:

- None

Nutrient Reductions Tracking:

- PTAP
 - Recommended tracking system by the New Hampshire Stormwater Coalitions.
- Other tracking system.

Year 6 Nutrient Reduction Tracking Recommendations:

- Enter implemented non-structural controls into PTAP as time allows.
- Enter implemented (constructed) structural controls into PTAP as time allows.

Contact Information

PTAP Registration Questions:

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Thank you all for coming and
participating!!

PTAP Advanced Features Workshop

October 10, 2024

9:00 AM to 10:00 AM