EPA Update on Watershed-based Permitting and Water Quality Trading

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Why use Trading and WBP for Nutrients

- Effects vary from Site to Site
- Near and Far-Field Effects
- Point and non-point source contributions
- Complexity of the problem leading to consider different implementation solutions
- Watershed approaches and water quality trading go well together to provide wholistic approach often necessary to address nutrients



- Overview of the Watershed-based permitting and Water quality trading programs
- Current activity
- Available resources
- Contact information

Watershed-based Permitting



An approach to NPDES permitting that results in permits:

- Issued on a watershed basis
- Focused on multiple pollutant sources
- Targeted to achieve watershed goals
- Integrate permit development among monitoring, water quality standards, TMDL, nonpoint sources, source water protection and other programs

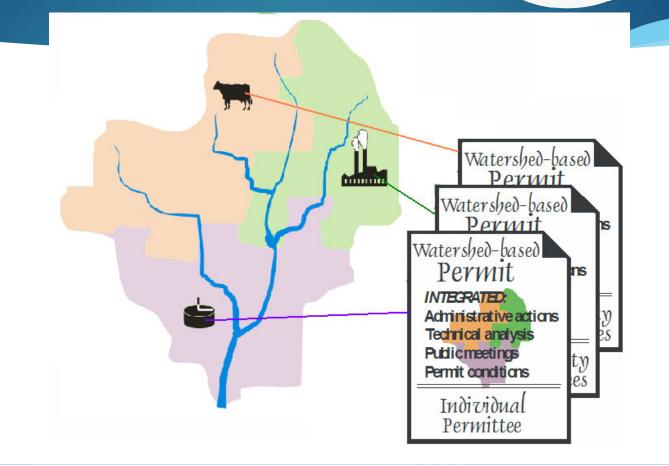
Watershed-based Permits

Types of Permits

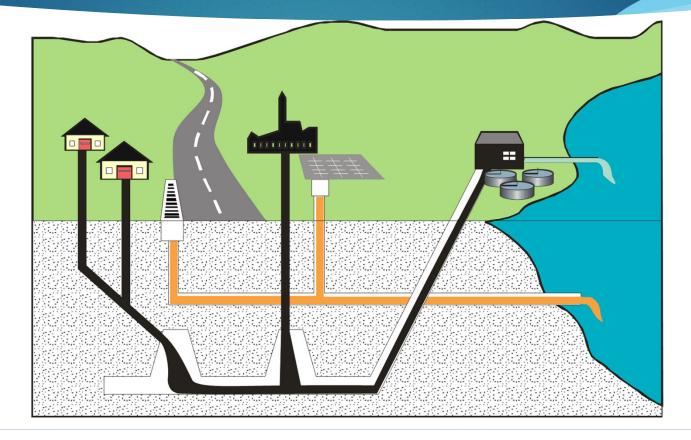
- Coordinated individual permits
- Integrated municipal permits
- Multisource watershed-based permits



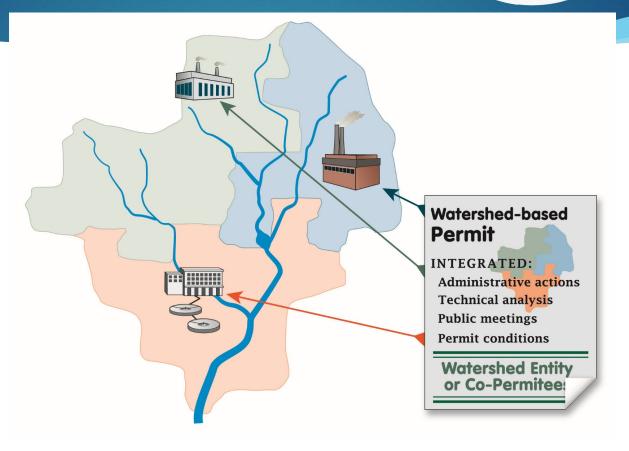
Coordinated Individual Permits



Integrated Municipal Permits



Multisource Watershed-based Permit



New Activities in Watershed-based permitting

Case Studies

- Update existing case studies
- Develop new case studies
- will be working with States to develop the case studies

Nutrient Compendium (coming soon!)

Nutrient specific overview of WBP in each state that provided us with information

Water Quality Trading

What is Water Quality Trading?



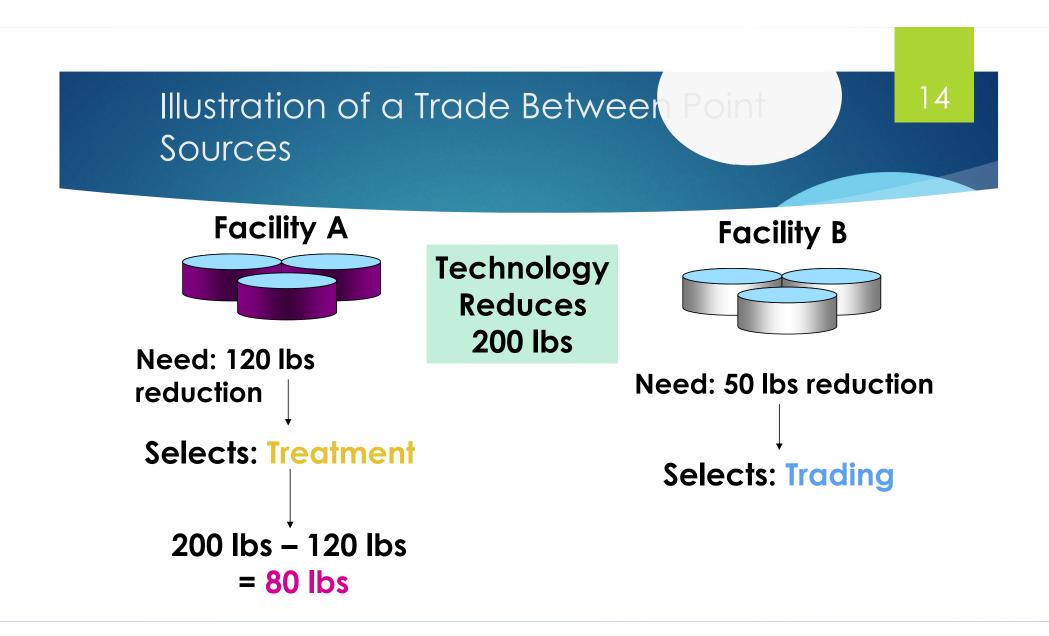
Water quality trading is a voluntary exchange of water quality credits generated through pollutant reductions

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Sources with higher pollutant control costs may purchase pollutant credits from sources with lower control costs

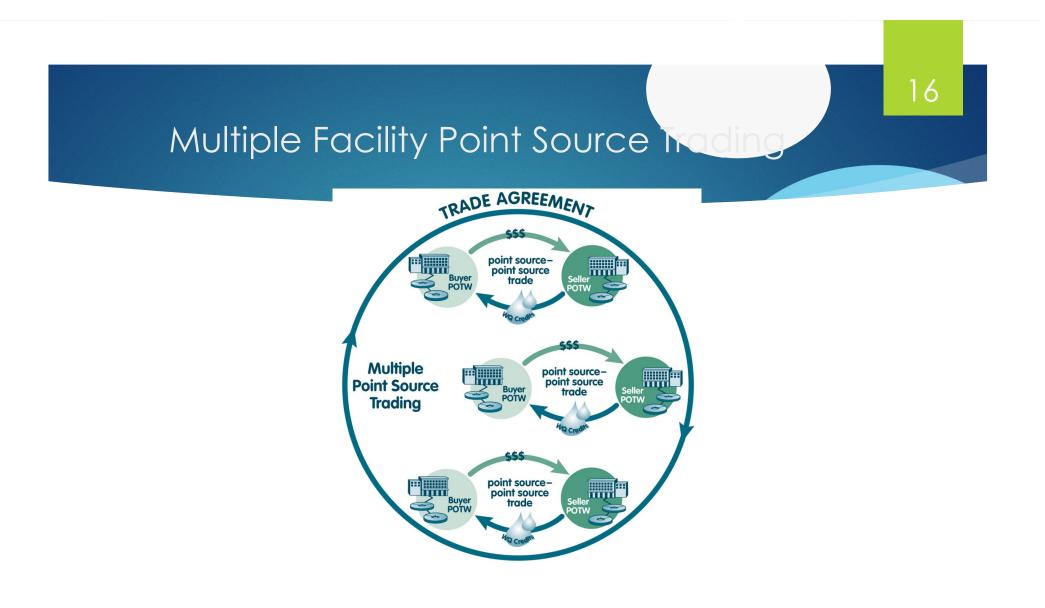
What is a Credit?

- A water quality credit is a unit of pollutant reduction needed by a buyer (usually measured in pounds equivalent)
 - Generated by a point source controlling its discharge beyond what is needed to meet its effluent limitations
 - Generated by a nonpoint source from the installation of best management practices provided there are reasonable assurances that the overall load allocation will be met over time.



Simple Trading Between Two Sources







<u>February 6, 2019</u> <u>Memorandum</u>

Established a new vision for market-based approaches

Takes precedence over existing policy

- EPA's 2003 Water Quality Trading Policy and
- EPA's 2009 Water Quality
 Trading Toolkit for Permit Writers



Recent Water Quality Trading Activities

Baselines Federal Register Notice

- Addresses Implementation of the February 6 Memo principle on baselines.
- Public comment on the specific policy changes and clarifications
 - Public comment was completed on November 18, 2019
 - Expect finalization soon.

Market-Based Approaches Proposed Rule

- the proposed regulation would clarify that water quality trading and other market-based approaches may be used in permits to meet applicable effluent limitations provided the permit conditions are set at a level necessary to meet local and downstream water quality standards.
- Planning to have NPRM published by end of 2020.
- While the proposed regulatory language will be narrow in scope, we are planning on using the notice and comment process to start a discussion on a broader set of issues, such as trade ratios, watershed size, and use of models.

Recent Water Quality Trading Activities

- In the near future, EPA will be issuing a technical paper entitled "Water Quality Trading on a Watershed Scale"
 - The paper describes factors to consider when evaluating the appropriate scale for a trading area
- EPA financing available to support market-based water quality improvement programs Memorandum
 - Transmit information about EPA's financing opportunities
 - Water Finance Center available for technical assistance
 - <u>https://www.epa.gov/ms-htf/epa-financing-available-support-market-based-water-quality-improvement-programs</u>
- Nutrient Compendium (Coming Soon!)
 - Includes write up of 15 state trading programs

Available EPA Resources

- Watershed-based permitting
 - www.epa.gov/npdes/watershed-based-permitting
- Water Quality Trading
 - https://www.epa.gov/npdes/water-quality-trading
- Nutrient Permitting Website
 - https://www.epa.gov/npdes/permit-limits-nutrient-permitting

For More Information on Watershedbased Permitting

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