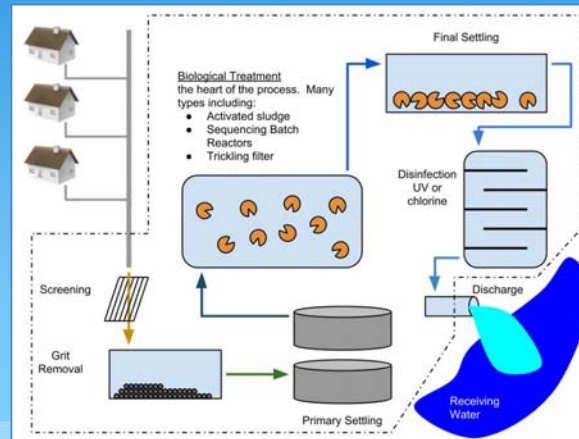


Discussion of Engineering Evaluation RFP



Delaware River Basin Commission

DELAWARE • NEW JERSEY
PENNSYLVANIA • NEW YORK
UNITED STATES OF AMERICA

Water Quality Advisory Committee

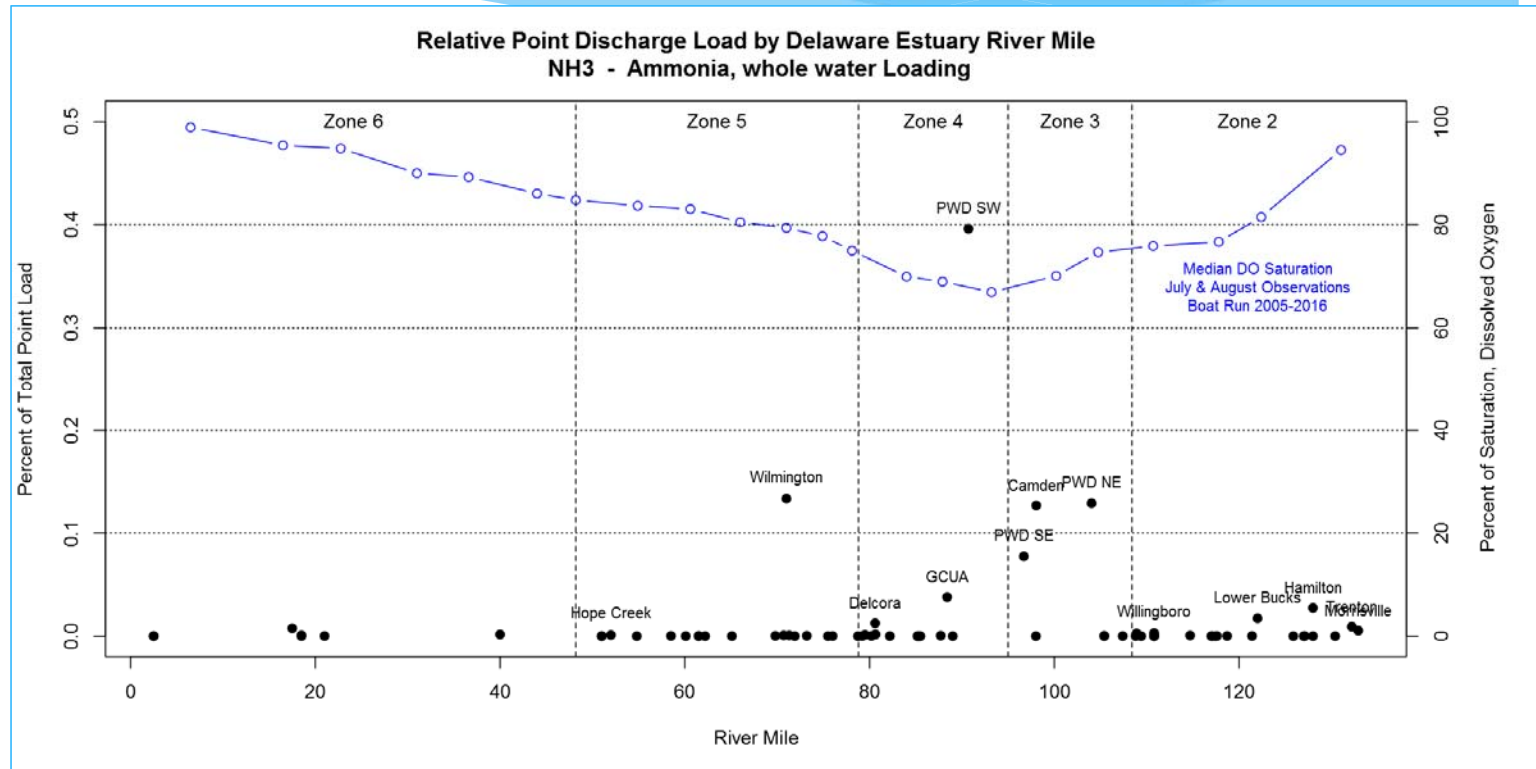
March 29, 2018

Presented to an advisory committee of the DRBC on March 29, 2018.
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Engineering Evaluation RFP

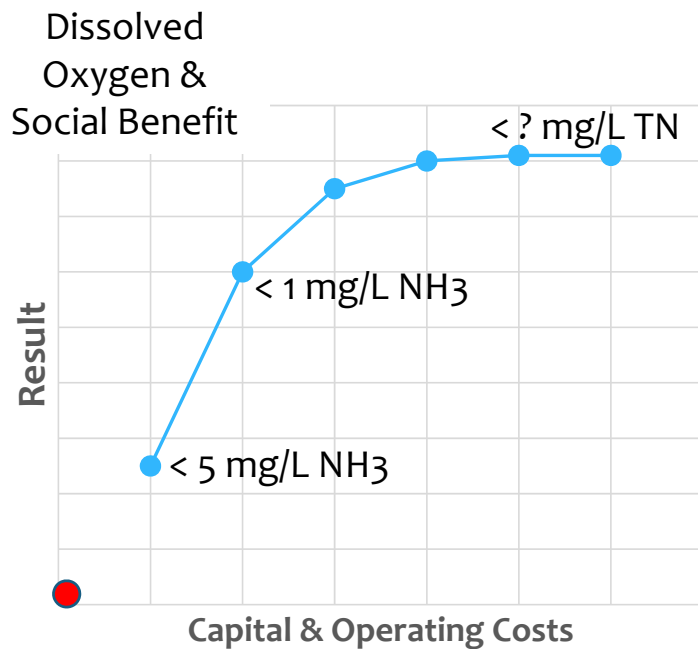
- * In response to Actions required before rulemaking in Resolution 2017-4
- * DRBC issued a Request for Proposals (RFP) for Professional Engineering Services for Evaluation and Cost Estimating of Nutrient Treatment Practices and Technologies

DO sag and Percentage of Ammonia Load from Treatment Plant by River Mile



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Define Expected Results from Thresholds & Expenditures



1. Engineering consultant will help define breakpoints for effluent nitrogen reductions on a gradient from ammonia through total Nitrogen
2. Engineering consultant will estimate costs for achieving each break point
3. Model will tell us estuary dissolved oxygen response
4. Identify options for funding improvements and economic benefits resulting from improvements

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Funding & Timeline

- * Funding from WPF Delaware Watershed Research Fund & PA Coastal Zone Management grant
 - Firm fixed-price contract \$232,750

- * Pre-RFP meeting with Engineering Consulting firms on February 1, 2018
 - Feedback on proposed approach
- * RFP issued February 28, 2018
- * E-mailed point dischargers March 6, 2018
- * Proposals due March 30, 2018 (Friday)
 - Two year contract

http://www.nj.gov/drbc/library/documents/RFP_engineering-services022818.pdf

RFP Conceptual Goal

“The goal of this contract is to develop information on the relationship between various levels of wastewater effluent ammonia and total nitrogen concentration targets, and the estimated expenditures needed to achieve those targets. This information will be considered by decision makers in assessing effluent load reductions in support of the development of new dissolved oxygen criteria in the Delaware Estuary. The information developed under this contract will support aggregate, planning-level evaluation only, and is not intended to replace site-specific engineering design for individual wastewater treatment facilities to achieve specific effluent limits.”

RFP Other Details

- * The selected firm will:
 1. Define wastewater effluent quality breakpoints for nitrogen reductions on a gradient from ammonia through total Nitrogen and
 2. Estimate capital, operation, and maintenance costs for achieving each effluent quality break point

- * Default approach: estimate the capital, operation, and maintenance costs for achieving each effluent quality concentration at each of the tier 1 (top 12) wastewater treatment facilities

- * Alternative approaches may be proposed along with justification

Next Steps

- * Select firm and award the contract
- * Regular 6-month progress reports
- * Report out to WQAC at future meeting

- * Questions & Discussion?