NUTRIENT ASSESSMENT REDUCTION PLAN

BIG MUDDY/SALINE RIVER WATERSHEDS

April 16, 2025



AGENDA

- Welcome and Introductions
- NARP Planning Process
- Sampling Plan Overview
- Remaining Components
- Discussion

NARP PLAN REQUIREMENTS

1. Developed and sent to the agency by December 31, 2025. Participation in an existing group or creating a new group. The NARP shall be supported by data and sound scientific rationale.

SPECIAL CONDITION 19: The Agency has determined that the Permittee's treatment plant effluent is located upstream of a waterbody or stream segment that has been determined to be at risk of eutrophication due to phosphorus levels in the waterbody. This determination was made upon reviewing available information concerning the characteristics of the relevant waterbody/segment and the relevant facility (such as quantity of discharge flow and nutrient load relative to the stream flow).

A waterbody or segment is at risk of eutrophication if there is available information that plant, algal or cyanobacterial growth is causing or will cause violation of a water quality standard.

The Agency recommends the Permittee be a part of a watershed group that forms or group that develops a Nutrient Assessment Peduction Plan (NARP).

reductions of other medsores would not be necessary.

- 5. Shall include a schedule for implementation of the phosphorus inputs and other measures. Shall be implemented as soon as possible and identify specific timelines.
- 6. Can provide provisions for water quality trading to address the phosphorus related risk of eutrophication characteristics in the watershed. Phosphorus, Nutrient trading cannot result in violations of water quality standards or applicable antidegredation requirements.
- 7. Permittee shall require modification of their permit within 90 days after the NARP has been competed to include necessary phosphorus input reductions identified within the NARP.
- 8. If the Permittee does not develop or assist in developing the NARP and such a NARP is developed for the watershed, the Permittee will become subject to effluent limitations necessary to address the risk of eutrophication.

NARP PLANNING PROCESS

Phase I - Data Review

- Previous locations of water samples
- Data review of IEPA data
- Notice to IEPA

Phase II - Monitoring

- Create Sampling Schedule
- Submit to IEPA for Approval

Phase III – Modeling

Choose model ((SWAT, HFVS, instream, etc.)

Developing the Planning Document

- Current sample data and analysis
- Historic data (if available)
- Narrative

NARP Timeline	Planning Phase in Months																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Work Plan																	
Sampling Plan																	
Committee Review																	
Data Review																	
Organize Resources																	
Data Tabulation																	
GIS Analysis								_									
Monitoring																	
POTW Monitoring																	
Data Analysis																	
Modeling																	
Model Selection																	
Input/Outputs																	
Management																	
Recommendations																	
Review																	
Committee Review																	
IEPA Review																	
Deliverables																	
Tabulated Data																	
Geospatial Data																	
NARP Plan																	

NARP PLAN DOCUMENT

- 1. Introduction
- 2. Watershed Geography and Climate
- 3. Water Quality and Sampling Plan
- 4. Best Management Practices
- 5. Technical and Financial Assistance
- 6. Outreach and Education
- 7. Implementation and Milestones
- 8. Evaluation and Monitoring

SAMPLING PLAN - 2025

- 1st and 3rd Tuesday, 10:00 AM
- CHL-A
- Special Conditions
 - Weather, flooding, etc.
- Location Review
 - Murph Up/Carb Down Location

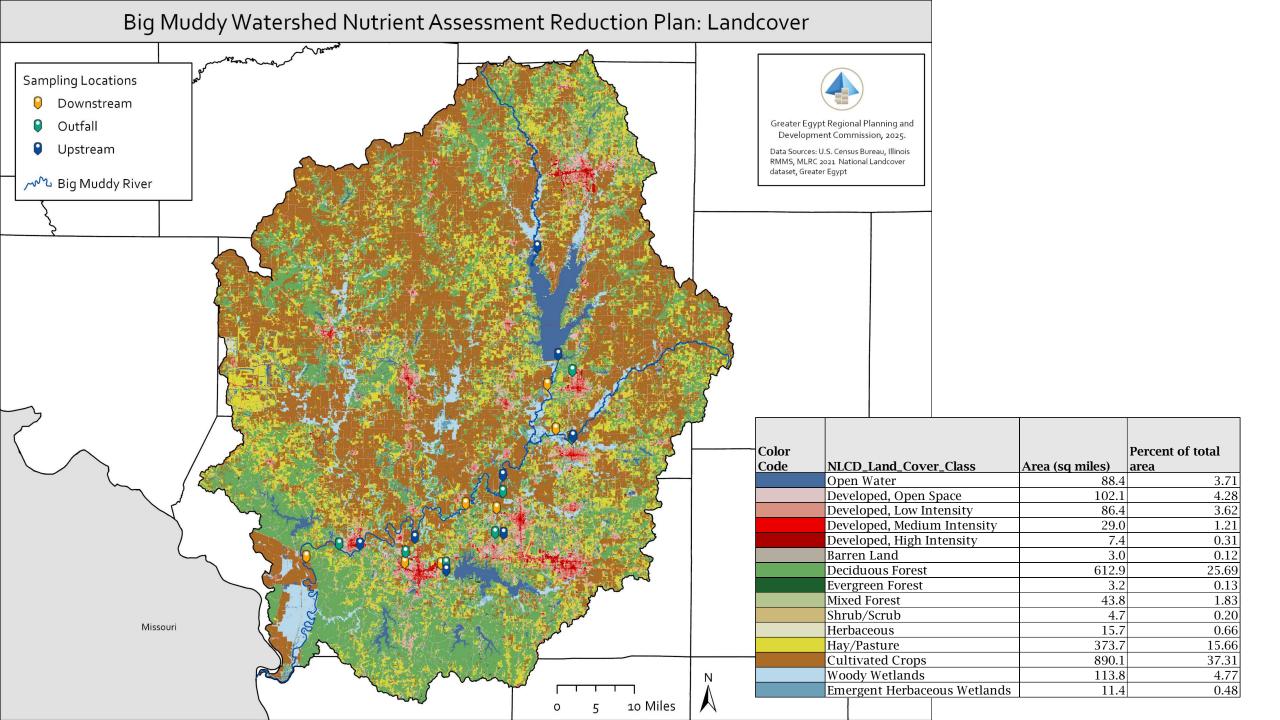
Sampling Components

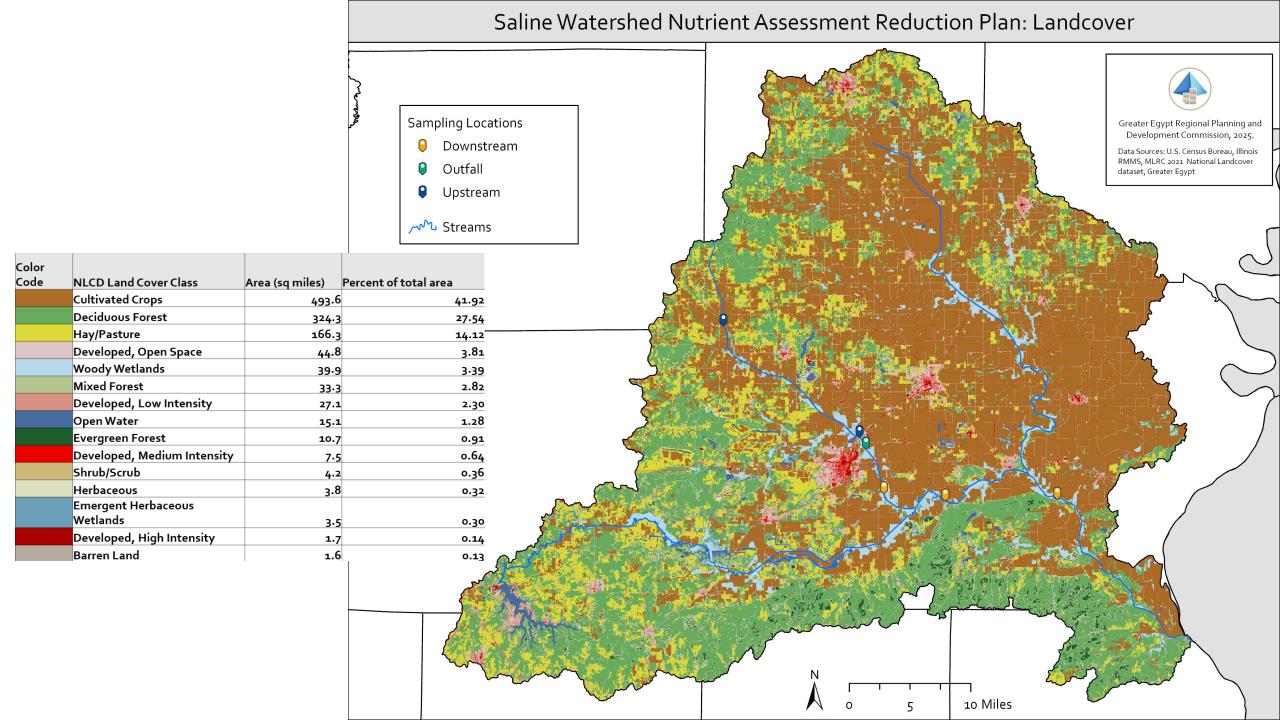
- Temp
- pH
- F
- D.O
- Visual Report

NARP Sampling Map

RESULTS SUBMISSIONS

- planning@greateregypt.org
- 2023-present Sample Data





DISCUSSION