

Overview of North Dakota's TMDL Program

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GOALS FOR TODAY

- Dispel TMDL myths and misconceptions
- Provide an understanding of how the program works in North Dakota
- Describe and encourage an active role for local stakeholders

TOTAL MAXIMUM DAILY LOADS

- “the amount of a pollutant that a waterbody can receive and still meet **water quality standards**”
- Clean Water Act Section 303(d) requirements
 - List impaired waters every two years
 - Develop TMDLs for impaired waters

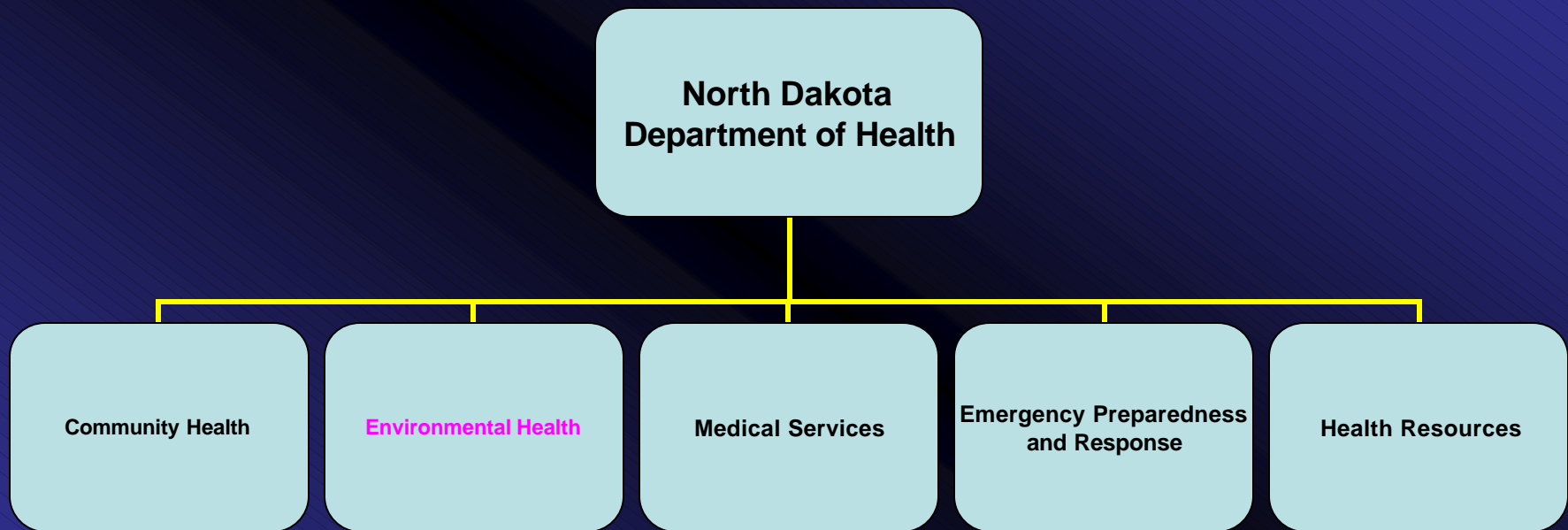
WHAT TMDLs ARE AND ARE NOT

- TMDLs are a plan for water quality improvement
- TMDLs are a process that requires stakeholder involvement
- TMDLs are **not** regulatory
- TMDLs do **not** prescribe implementation strategies

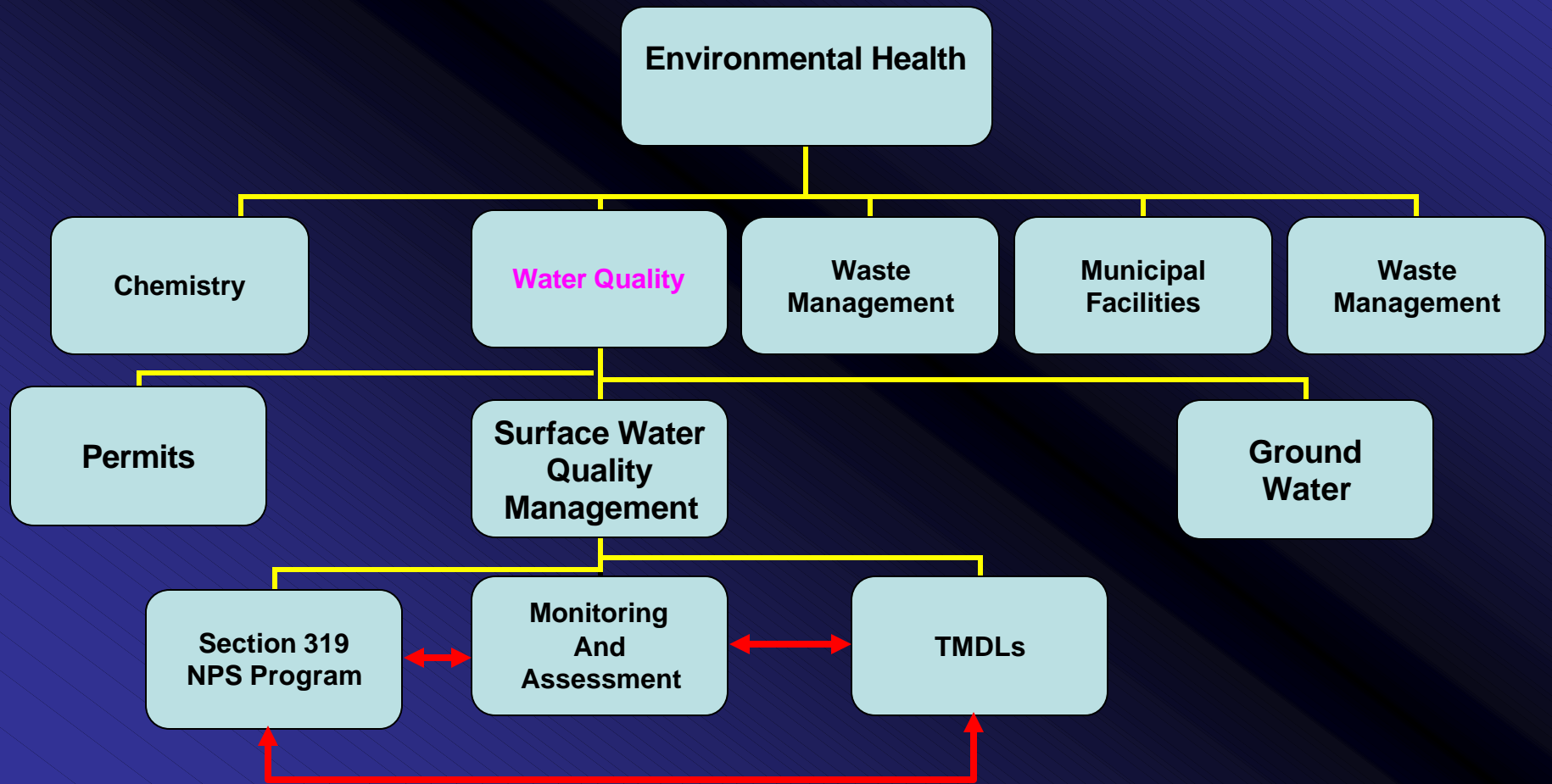
ELEMENTS OF A TMDL

- Introduction/Background
- Water quality standards impairment
- Water quality standards target
- Identification of all potential sources
- Technical analysis
- Margin of safety
- $TMDL = LA + WLA + MOS$
- Allocation
- Public participation

TMDL PROGRAM ORGANIZATION



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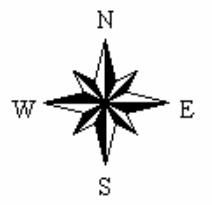
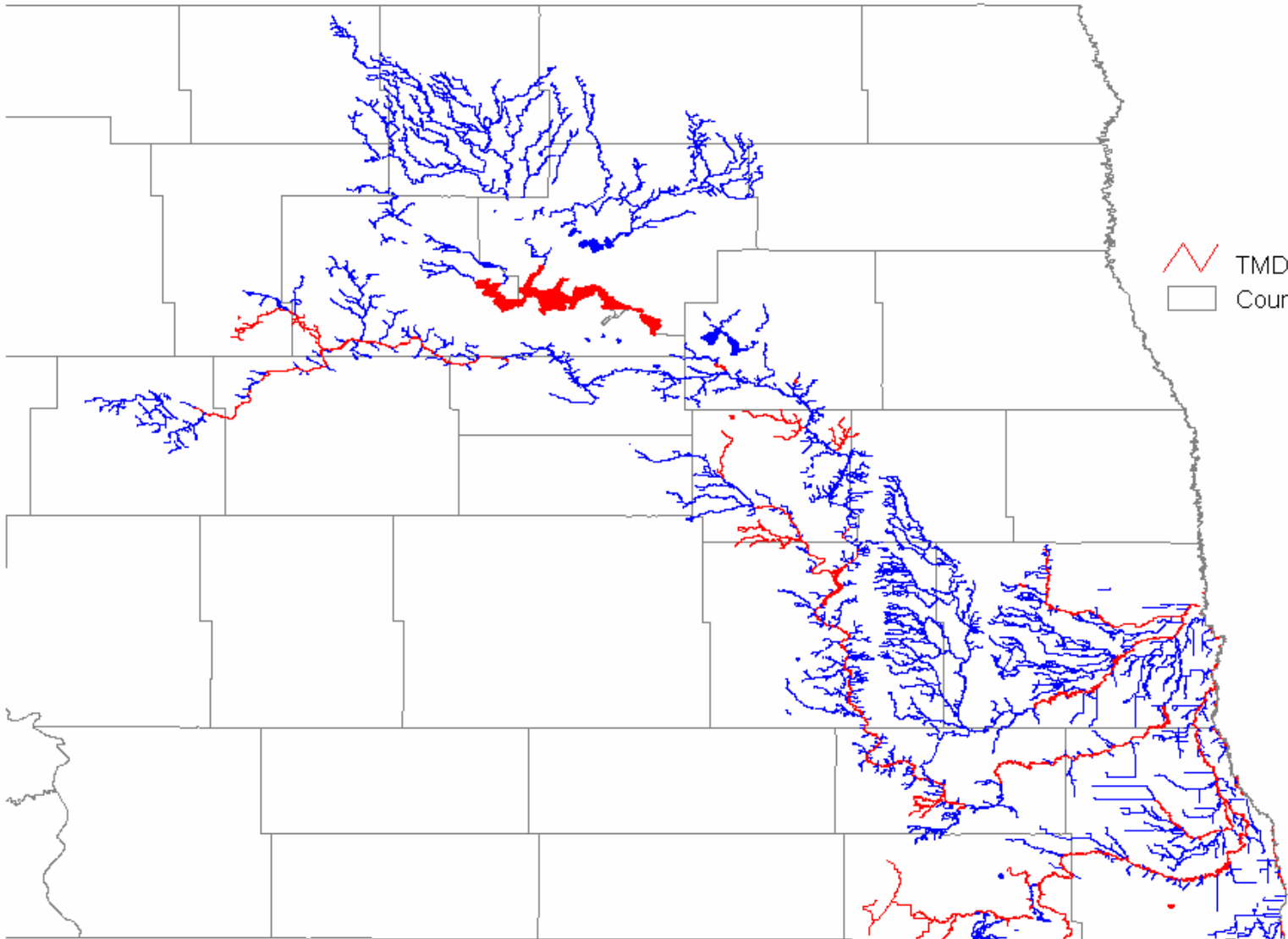




CWA Section 303(d) Requirements

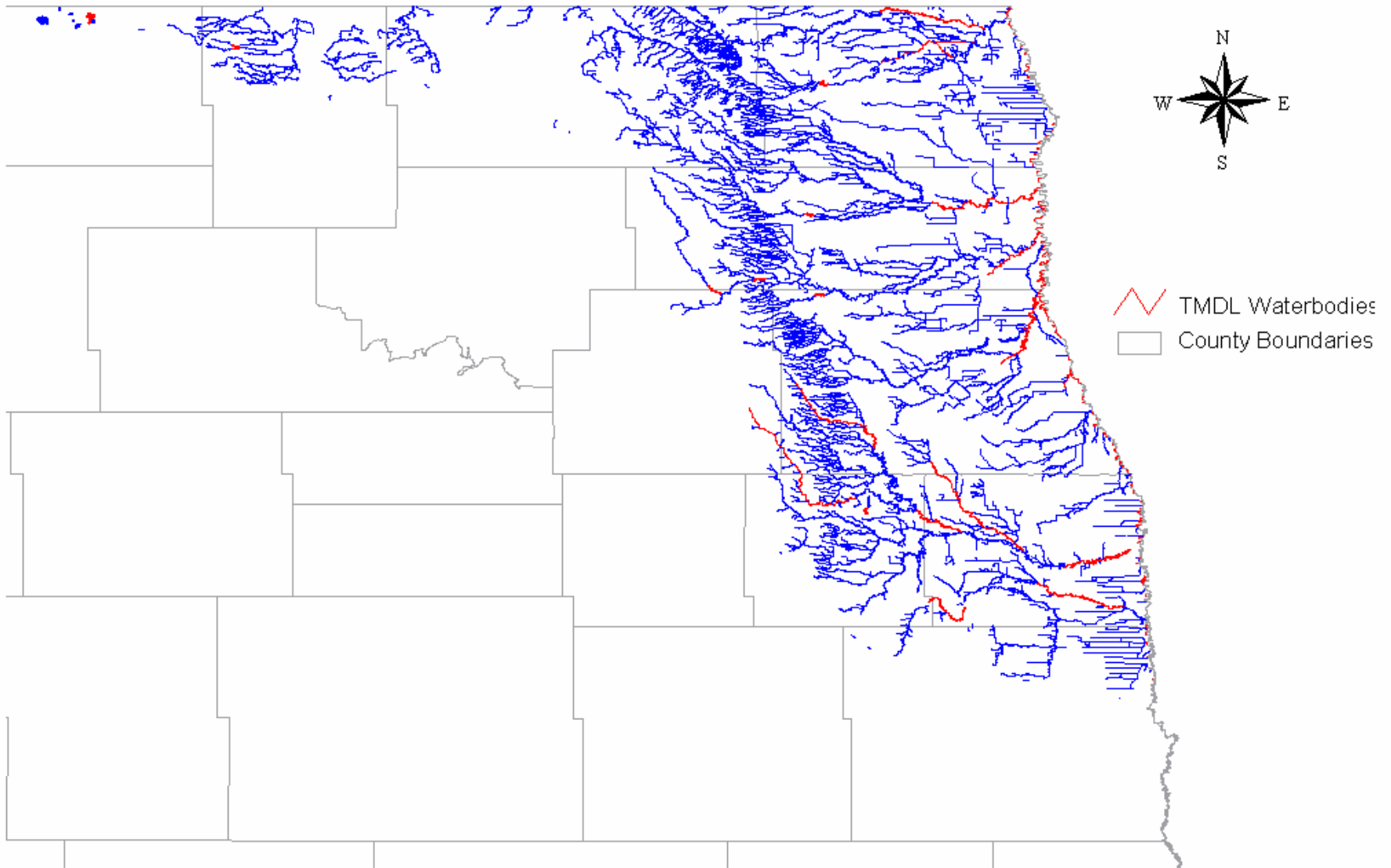
- List of impaired waters submitted every two years
- Develop TMDLs for impaired waters

2004 Section 303(d) List of Impaired Waters

- Submitted March 31st and approved August 17th, 2004
- Represented by:
 - 47 lakes and reservoirs
 - 18 in the Red River basin
 - 164 river and stream segments
 - 71 in the Red River basin
 - 363 waterbody/pollutant combinations
 - 65 waterbodies targeted for completion by 2006



 TMDL Waterbodies
 County Boundaries



CWA Section 303(d) Requirements

- List of impaired waters submitted every two years
- Develop TMDLs for impaired waters

TMDL PROGRAM DEVELOPMENT GOALS

- Cost effective
- Technically sound
- Results in implementation
- Local participation and involvement

CURRENT TMDL DEVELOPMENT ACTIVITIES IN THE RED RIVER BASIN

- Upper Wild River River
- Lower Wild Rice River, including Antelope Creek
- Sheyenne River
 - Upper Sheyenne River/Sheridan and Wells County
 - Griggs County
 - Barnes County
 - Ransom County
 - Cass County

CURRENT TMDL DEVELOPMENT ACTIVITIES IN THE RED RIVER BASIN

- Lower Maple/Rush Rivers
- Brewer Lake
- Goose River
 - Spring Creek
 - Beaver Creek
 - Middle and South Branches
- Tongue River/Renwick Dam
- Armourdale Dam
- Red River/Fargo-Moorhead

TMDL PROJECT DEVELOPMENT TEMPLATE

- Local sponsorship
 - Soil conservation districts, water resource boards, cities
- Funding
 - Section 319 NPS grants
 - TMDL grants
 - Other EPA grants
- Project workplan
 - Chemical monitoring
 - Biological monitoring
 - Riparian/stream assessment
 - Landuse assessment/watershed model
- Data analysis and report
 - Provided by SWQMP staff
- Results in project implementation plan

TMDL DEVELOPMENT PROGRAM GOALS FOR THE FUTURE

- Increase available funding for projects
- Continue to work with local sponsors and stakeholders
- Provide adequate technical resources to local stakeholders
- Continue to take TMDLs to implementation

Thank you

