

Agricultural Chemical Reduction Effort (ACRE)

Dakota County Planning Commission

Jill V. Trescott & Valerie Grover Environmental Resources May 27, 2021



1

Overview



- Introduction
- Need
- Draft Concept
- Plan Development Next Steps
 - > Technical Research
 - > Stakeholder Engagement
- Questions





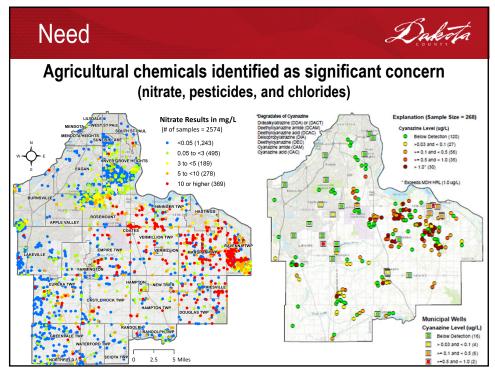
Groundwater Plan Goals, Strategies, and Tactics

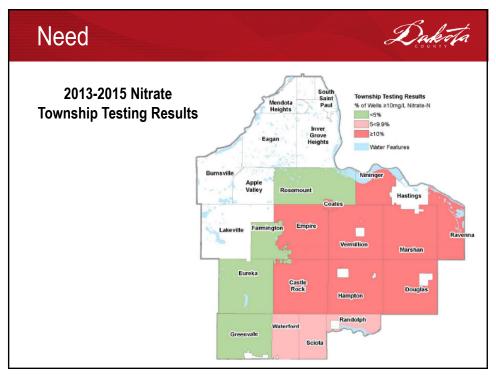
Goal 1: Water Quality

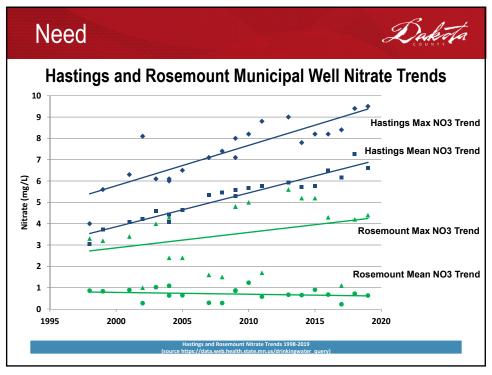
Strategy 1B1: Reduce agricultural chemical contamination

HIGH
PRIORITY

Tactic 1B1B: Develop, adopt, and implement a Dakota County Groundwater Agricultural Chemical Reduction Effort (ACRE)







Draft Concept

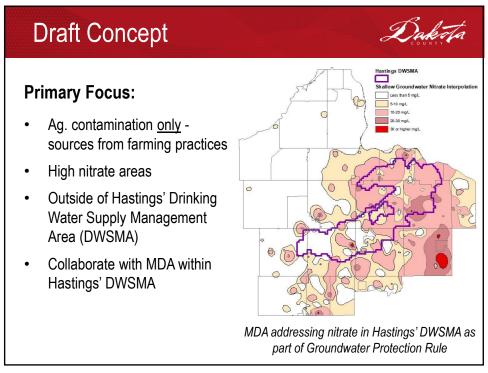


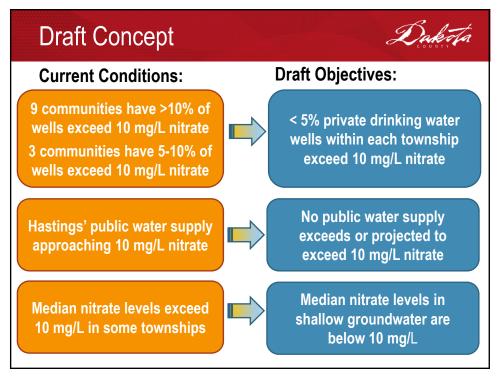
Purpose:

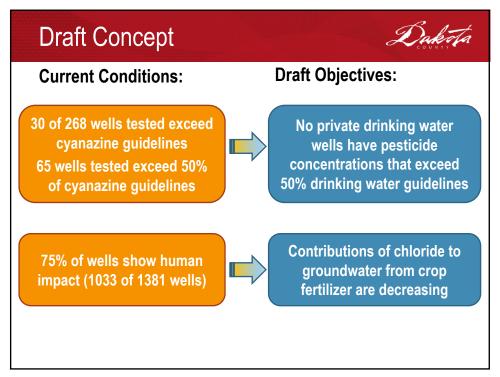
- Reduce ag. chemicals in groundwater to levels that no longer pose a threat to human or ecological health
- Develop stronger ag. chemical drinking water protection goals (compared to current MDA Plans and Rules)
- Partner with farmers, SWCD, state, regional, and local agencies and non-governmental organizations
- · Develop prioritized, targeted, and measurable strategies











Question 1 - Discussion



Does the Planning Commission have any recommendations for the draft plan concepts?

Plan Development – Next Steps					Dakota		
Task	2021 Q2	2021 Q3	2021 Q4	2022 O1	2022 O2	2022 Q3	
Technical Research			Α,		~-		
Review available data, regs., precedent							
Develop and install monitoring well network							
Conduct baseline well monitoring							
Hire contractor and complete nitrate modelling							
Stakeholder Engagement:							
Award Engagement Contract (Environmental Initiatives)							
Partner with SWCD to establish Ag. Advisory Group							
Finalize Engagement Plan							
Round 1 Stakeholder Engagement							
Round 2 Stakeholder Engagement							
Plan Finalization, Review, Adoption							
Develop Draft Plan							
Update Planning Commission and County Board							
Review/ Refine Plan							
Finalize Plan (includes 60-day public review)							

Technical Research



Long-Term Monitoring Well Network

- Install 30-40 shallow wells in high nitrate areas
- Sample for nitrate and chloride in spring, summer, fall
- Use data to establish baseline conditions evaluate progress against goals

Nitrate Modelling

- Determine nitrate model losses from cropland
- Use data to set nitrate reduction goals at local level to decrease nitrate below 10 mg/L



Stakeholder Engagement



Key Engagement Objectives:

- Effectively engage ag. agencies and operators
- Consult MDA, other state agencies, and technical experts
- Ensure plan reflects ag. needs and interests, and is realistic
- · Ensure general public is informed and engaged
- Ensure elected officials are aware and engaged
- Include under-represented populations to ensure diverse perspectives

15

Stakeholder Engagement 11 participants recruited to date Ag. Advisory Group: **Organizations** Working with SWCD with outreach Vermillion River Watershed Planning Commission Obtain a diverse perspectives Cattle and Crop Farmer from farmers and ag. Minnesota Agricultural Water Resource Center professionals from different Sorg Acres backgrounds and organizations Farmers Mill and Elevator Forever Green Initiative **CFS-Central Farm Service Tomato Grower River Country Coop** The Nature Conservancy Farmer

Stakeholder Engagement



Key Discussion Topics:

- Farming Practices
 - What practices are currently being implemented?
 - What practices <u>could or should</u> be adopted?



Practices for Agricultural Lands

- Barriers to Implementation
 - Is education needed to assist with practice implementation?
 - What incentives are needed to assist with implementation?
 - What regulations would be reasonable if voluntary efforts are ineffective?

17

Question 2 - Discussion



Based on Attachment B, does the Planning Commission have any suggestions for the Draft Public Engagement Plan?

How would the Planning Commission like to be involved in the stakeholder/public engagement process?

