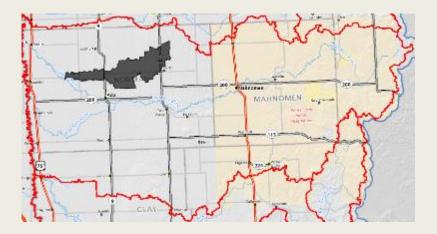
GREEN MEADOW SUBWATERSHED

PL-566 SMALL Watershed Planning



Meeting Objectives:

Inform Interdisciplinary Project Team

- Present Model Results
- Present Without Project Condition
- Public Meeting / Scoping Outcome

Revised Purpose and Need/Goals and Objectives

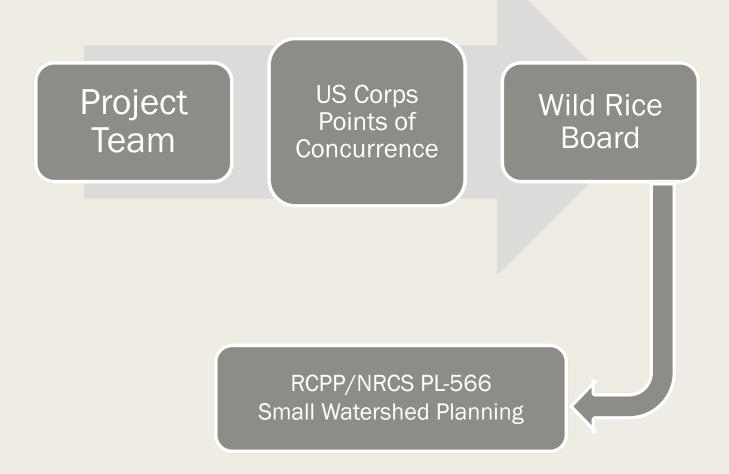
Agenda

- Activity Re-Cap Since April Meeting
- PL83-566 Process Review/Timeline
- Without Project Condition
 - H/H Model Results
 - Water Quality
 - Agriculture
 - Structures/infrastructure
- Scoping
- Review and revise Purpose and Need Goals and Objectives
- Next Steps
- Adjourn

RECAP/REVIEW

PL 566 Planning Process Roles and Responsibilities

GREEN MEADOW Mediation Agreement/Points of Concurrence



Small Watershed Program -Public Law 83-566 (PL-566)

Federal Program – Federal Assistance to Sponsors (\$)

- Watershed Planning
- Project Construction (...maybe)
- To contribute to national economic development (NED) consistent with protecting the nation's environment.
- REQUIRES the development of physically, environmentally and ECONOMICALLY sound plan of improvements

Small Watershed Program -Public Law 83-566 (PL-566)

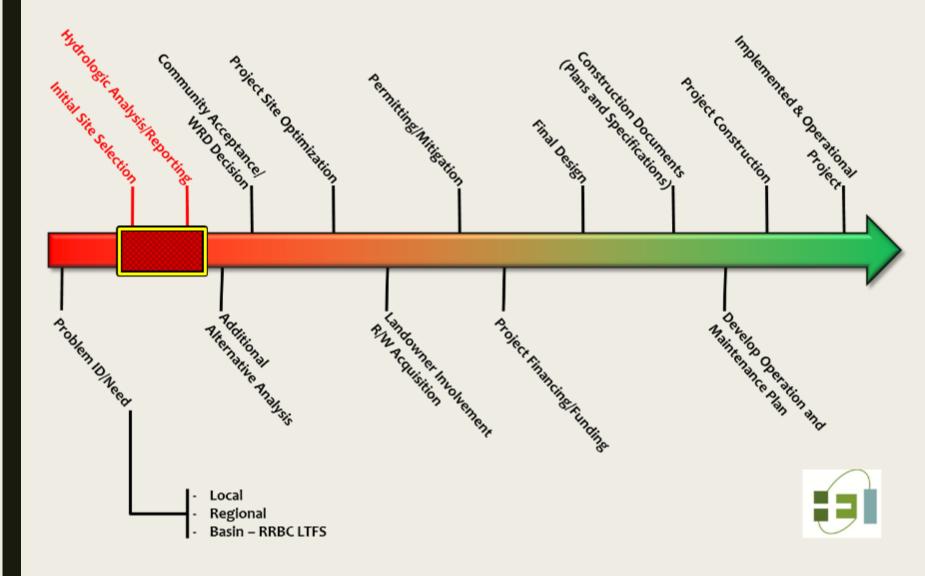
■ "Small" Watershed (</= 250,000 acres)

- Prevent damage from erosion, floodwater and sediment.
- Further conservation, development, utilization and disposal of water.
- Further conservation and proper utilization of land.

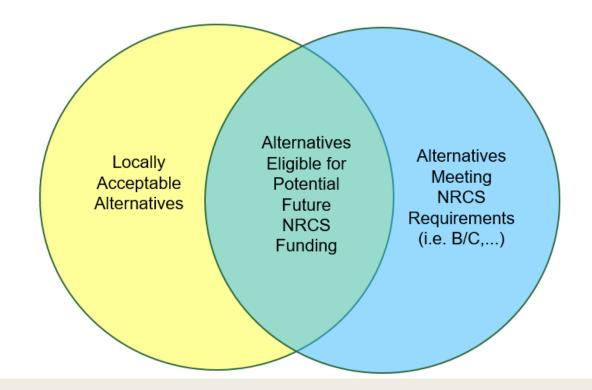
PL-566 Planning Steps

LOCALLY LED PROCESS

- Identify Problems and Concerns
- Determine Objectives (P and N/Scope)
- Inventory Resources
- Analyze Resource Data
- Formulate Alternatives
- Evaluate Alternatives
- Make Decisions



RCPP Study Process



Timeline - Meetings

- Start 3/2016 End 8/2016
- "Interdisciplinary Team"
 - # of Meetings? ... "No more than necessary"
- Public Meetings/Hearings
 - 3 Required

Estimated Study Cost: \$714,000

- NRCS \$500,000 (max)
- Watershed \$214,000



STUDY SCOPING

Public Scoping Meeting

- May 5th 2016
- Solicit public comment to help inform the study scope
 - Flooding/Flood Damages
 - Water Quality/Erosion and Sedimentation
 - Wildlife and Habitat

Summary of public feedback

3 Response Forms Submitted/Returned:

	No Concern	Minimal Concern	Minor Concern	Moderate Concern	Significant Concern	Severe Concern
Flooding/Flood Damages	Х	Х				
WQ/Erosion/Sedimentation	Х		Х			
Wildlife & Habitat	Х	Х				
Others (please describe)					Х	хх

Significant:

- Repair GM Dam/Dam safety

Severe Concern:

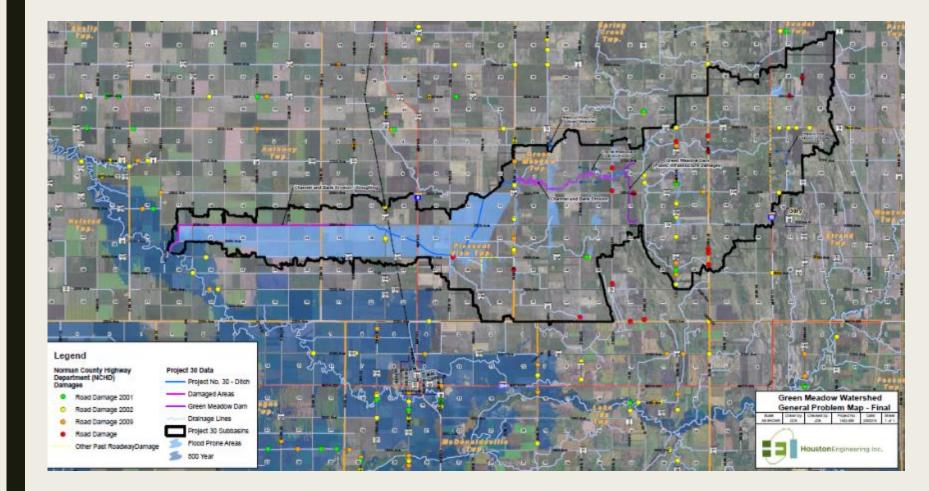
- Local culvert issue / local flooding*
- "...pleased to remain unmolested by government..."

WITHOUT PROJECT CONDITION

Green Meadow Subwatershed

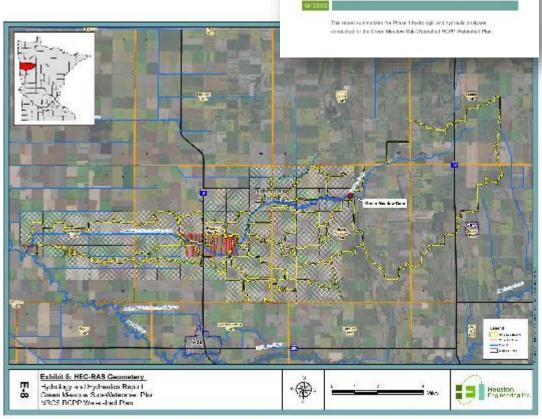
Flood Damages/Flood Prone areas

Inundation map used as reference



Model Results

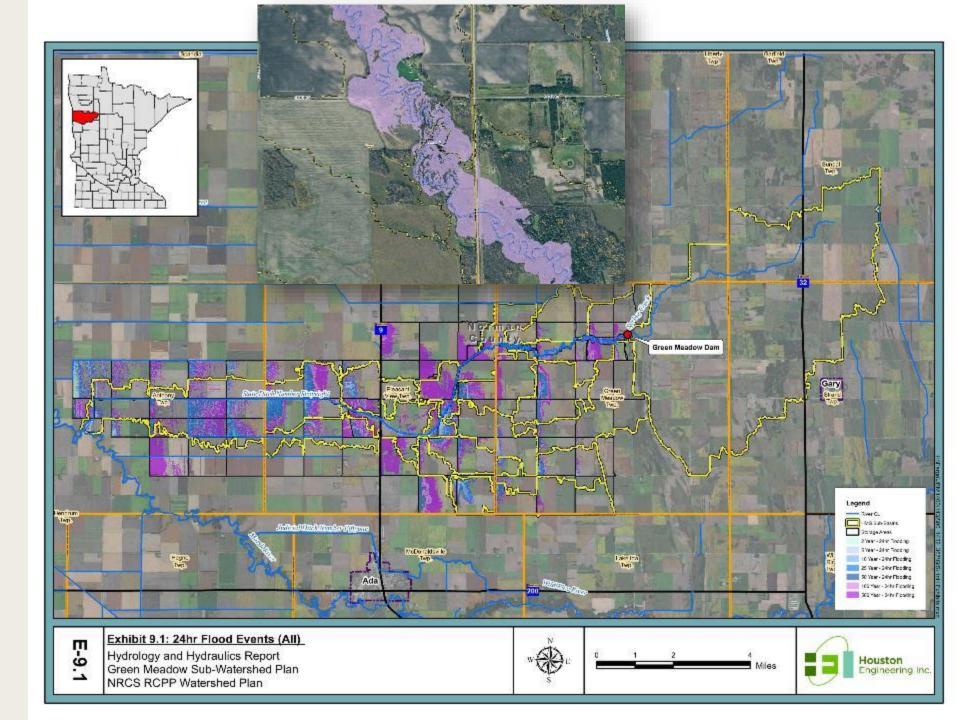
- H/H Report
 - Various Rain and Runoff Events (24hr – 10day)
 - Flows
 - Inundated Areas

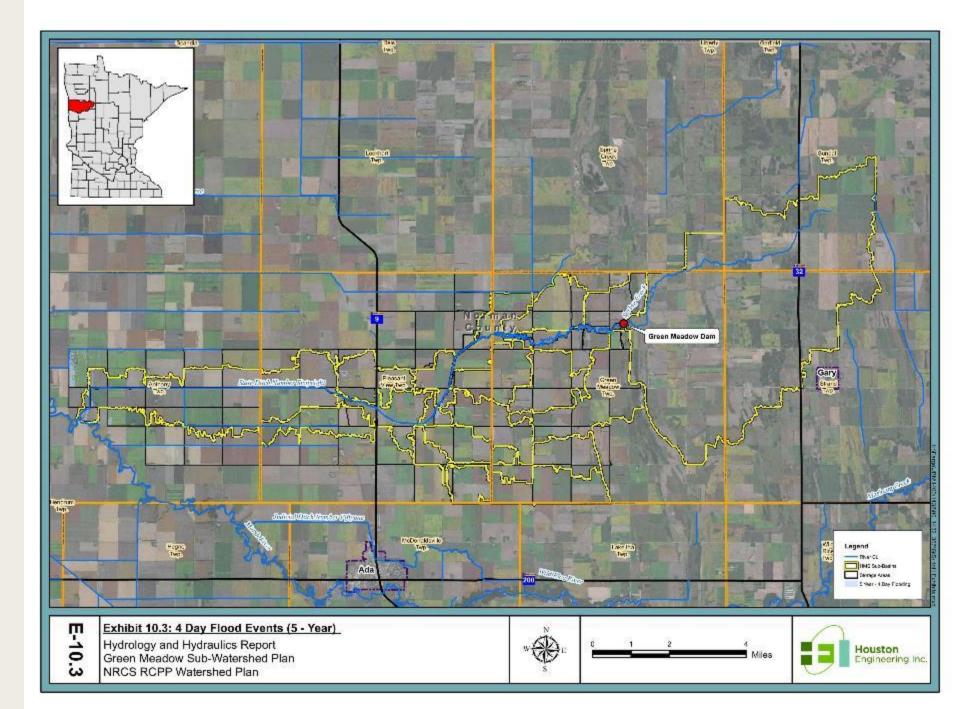


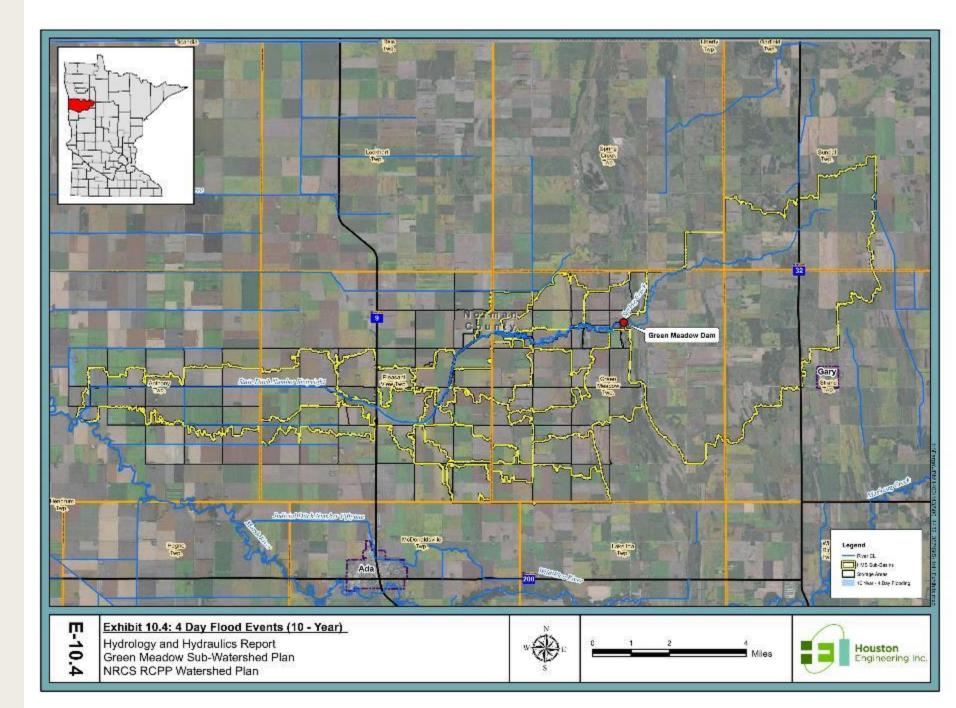
GREEN MEADOW SUB-WATERSHED NRCS RCPP WATERSHED PLAN PHASE 1 HYDROLOGY & HYDRAULICS REPORT

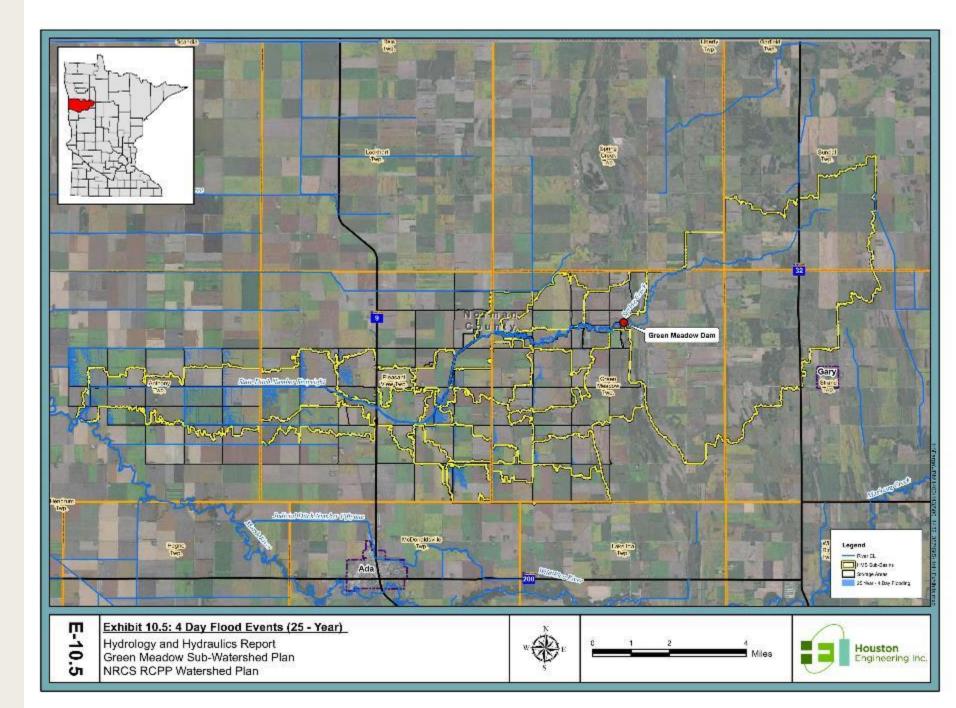
WILD RICE WATERSHED DISTRICT

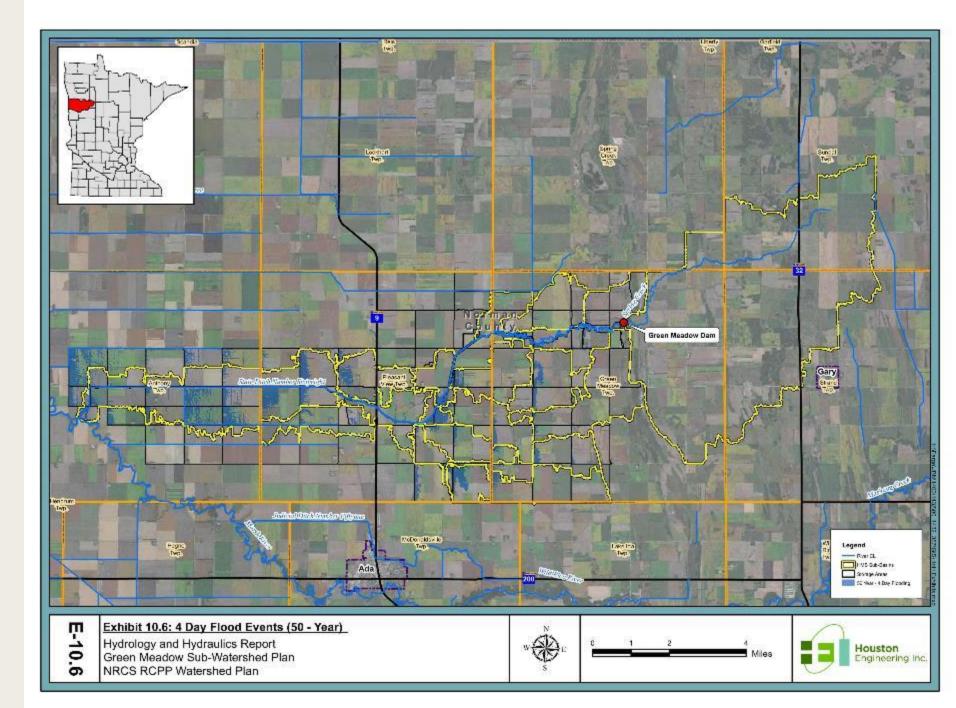


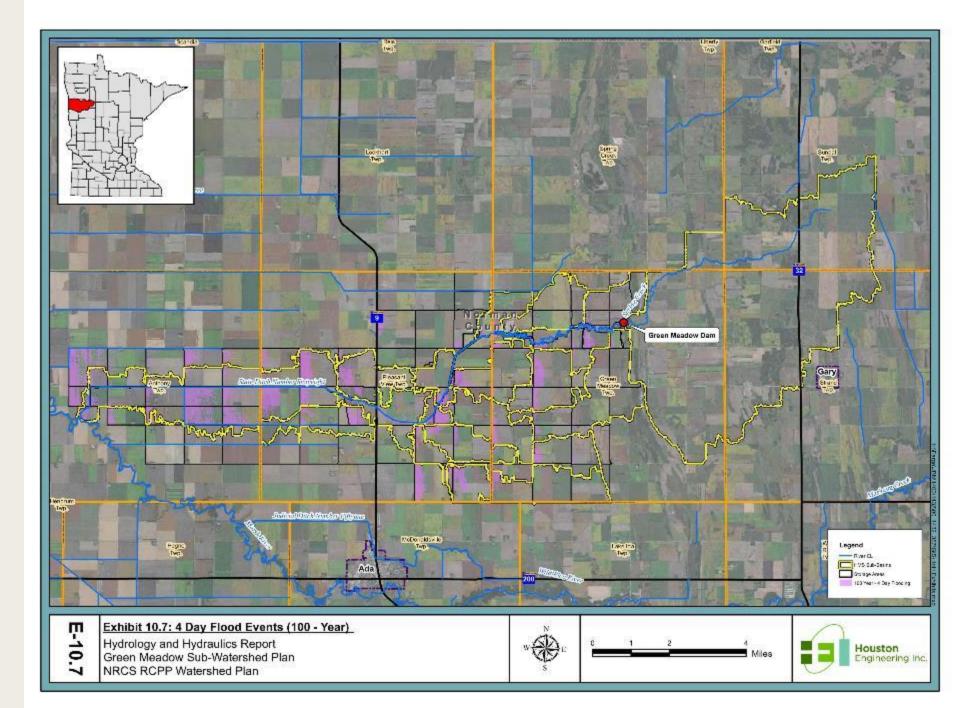


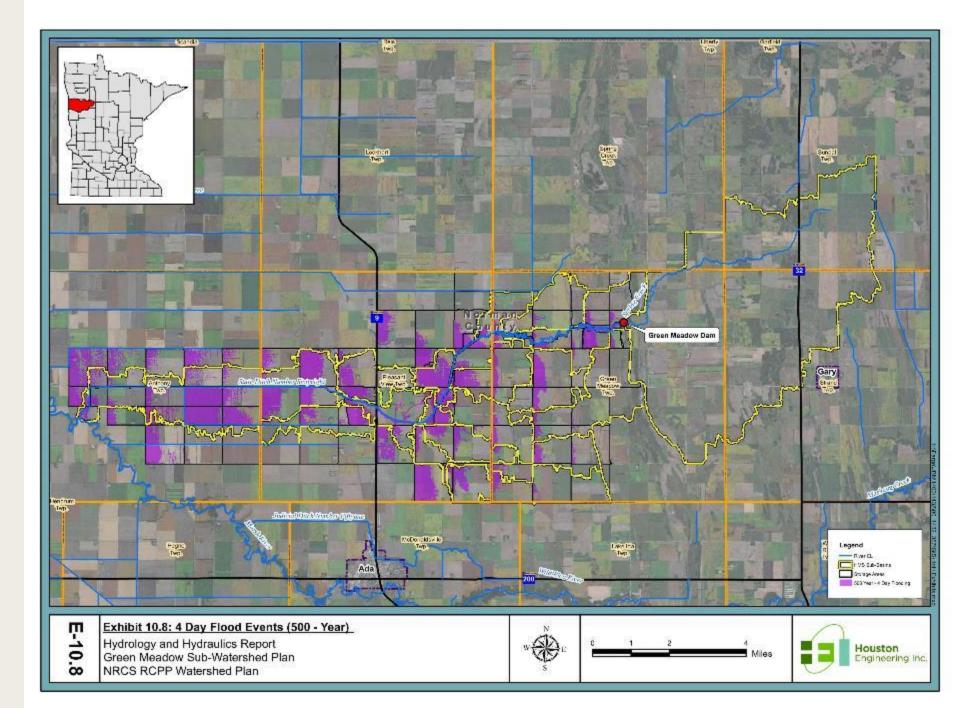


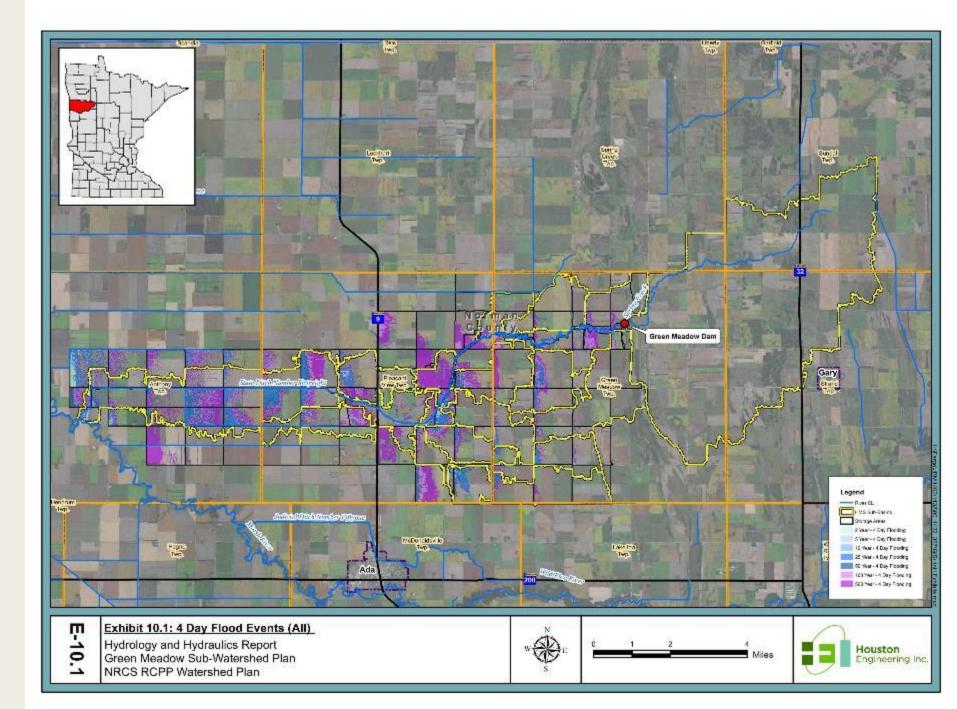












Model Results

- H/H Report
 - Various Rain and Runoff Events (24hr – 10day)
 - Flows
 - Inundated Areas

YR	Duration	Existing Condition (ac)	
2	24HR		210
5	24HR		470
10	24HR		940
25	24HR		2020
50	24HR		3120
100	24HR		4510
500	24HR		8660

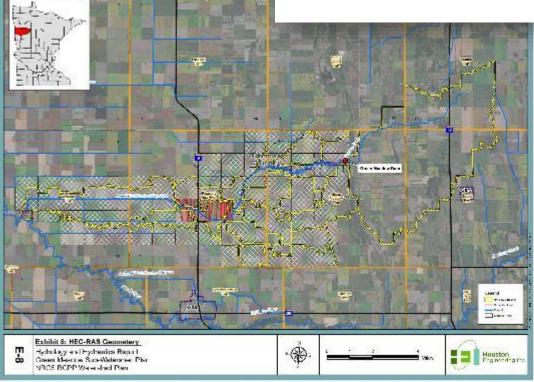
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WILD RICE WATERSHED DISTRICT

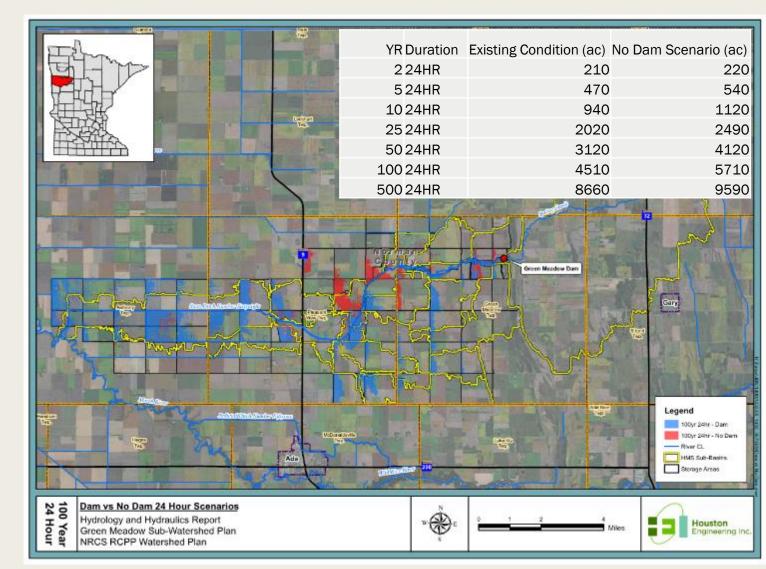


1212/2010

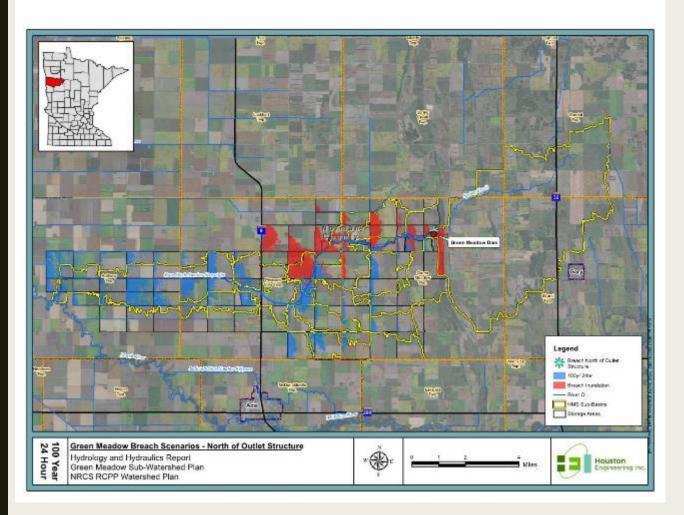
This report summations the Phase 1 hydrologic and typically analyses conducted to the Cross Meadow Solo-Websited HCHP (Networked Plan.



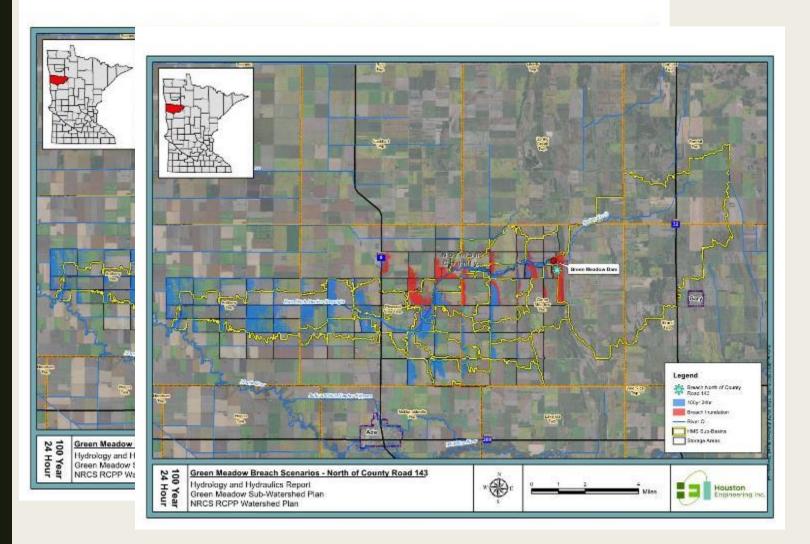
Model Results – Other Scenarios – No Dam



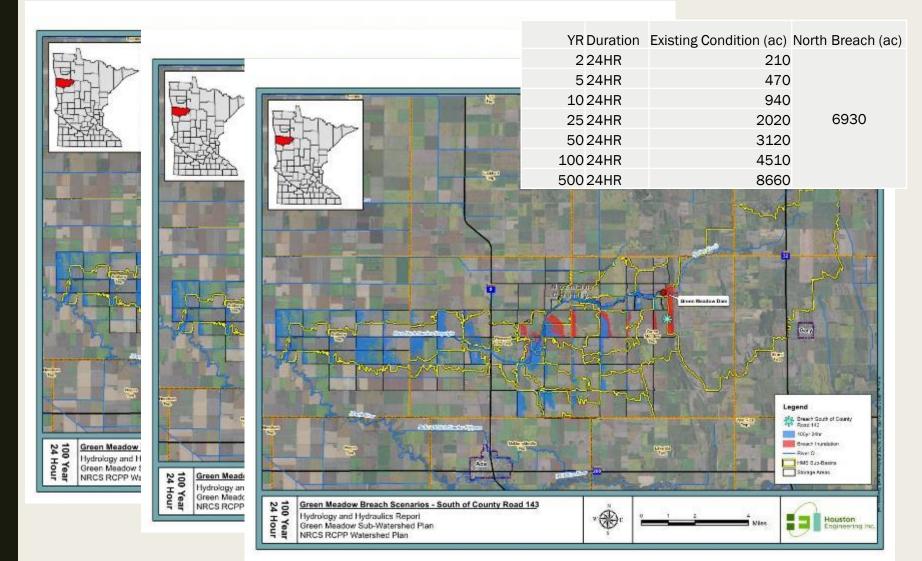
Model Results – Other Scenarios – Approx Breach Analysis



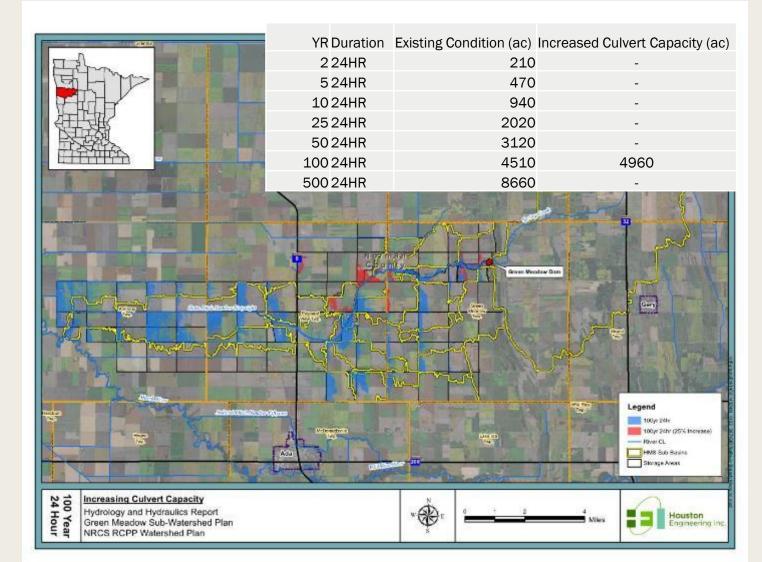
Model Results – Other Scenarios – Approx Breach Analysis



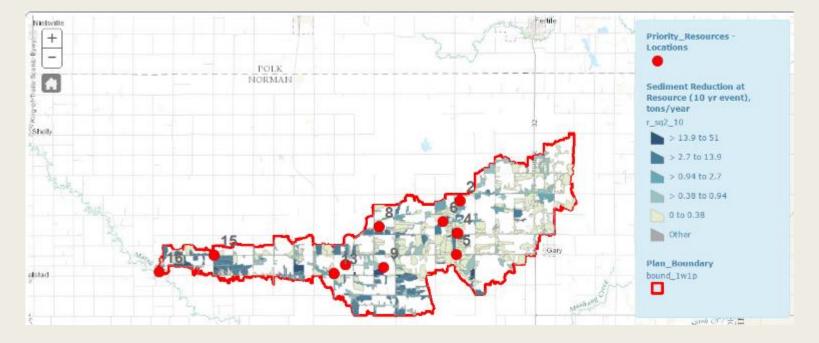
Model Results – Other Scenarios – Approx Breach Analysis



Model Results – Other Scenarios – Increase Drainage Upstream

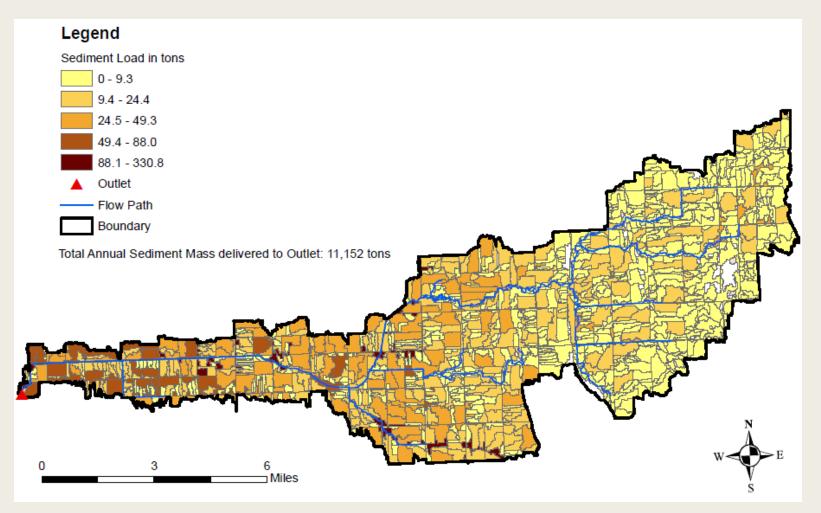


- Load estimates (sediment, total N, total P) at outlet of Spring Creek/Green Meadow Watershed
- Prioritize, Target, and Measure Application (PTMApp)

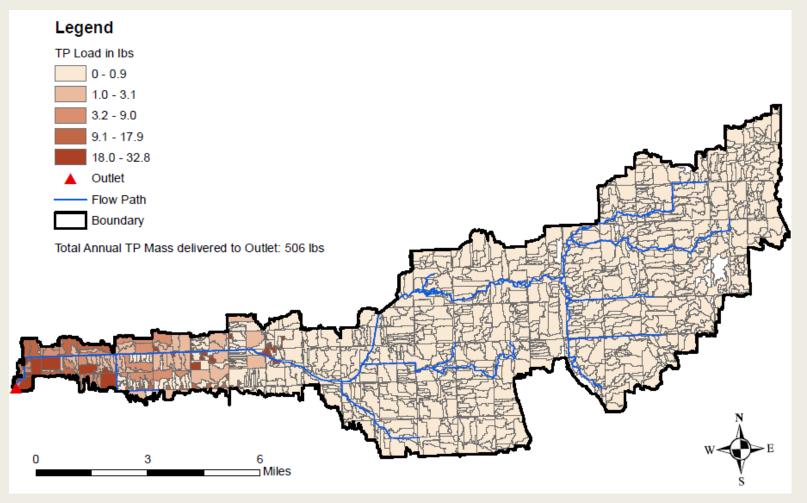


http://ptmapp.rrbdin.org/

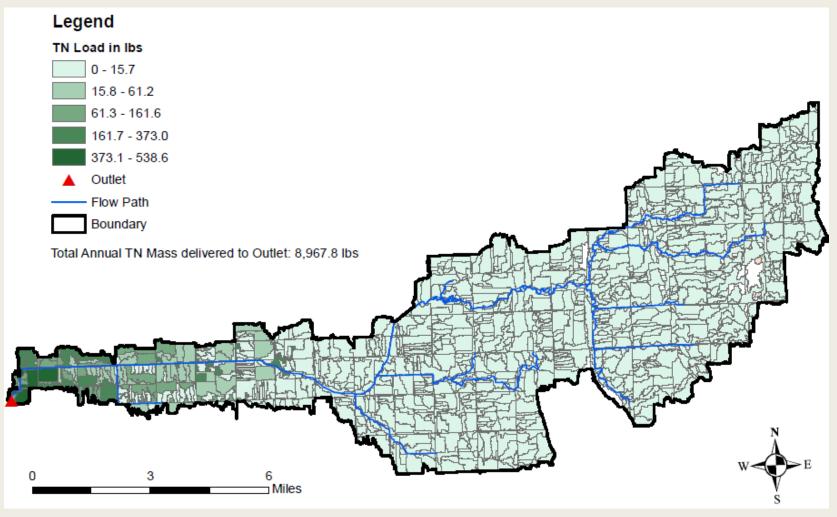
Sediment - 11,152 Tons/Year @ outlet (PMTApp)



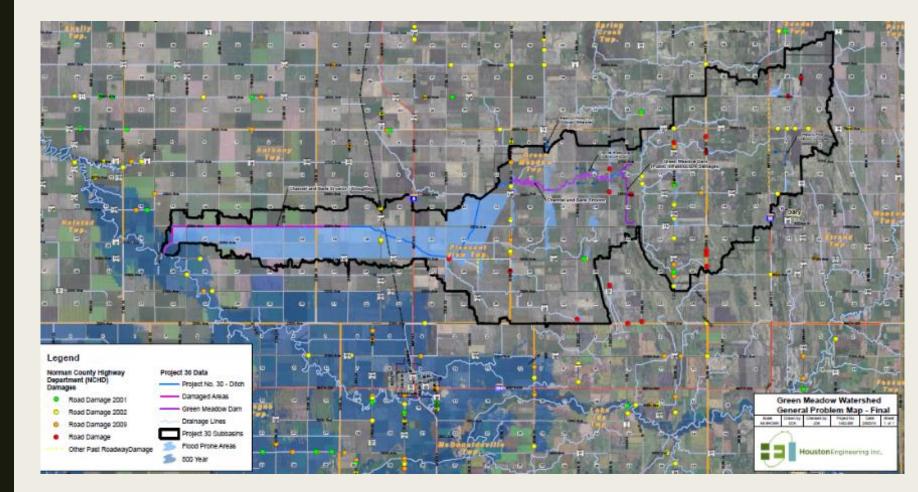
Total Phosphorous - 506 pounds/Year @ outlet (PMTApp)



Total Nitrogen - 8,968 pounds/Year @ outlet (PMTApp)

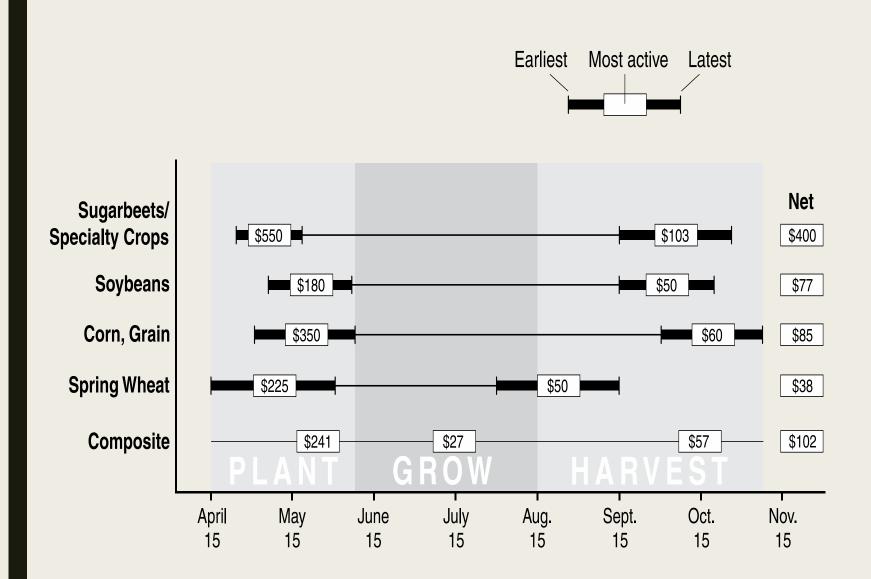


Damages



Damages

- Existing conditions: 2, 5, 10, 25, 50, and 100 year floods. Roughly 7000 acres in the 100-year flood plain, of which about 94% is cropland.
 - Previous flood prone/flood damages map
 - 100% loss
- Agriculture: PVB/D = \$2 to \$5 million (crops); \$365,000 noncrop cropland
- Infrastructure: P/DVB = \$90,000 to \$200,000
- Structures: PVB/D = 130,000



NRCS REVIEW POINT #2

Revised Purpose and Need

Environmental Scoping Document (501.24)

DEATT - Scope of Cryfronmanasi Assessment,

Groen Wardow Watershiel Flan CA

SCOPE OF THE ENVIRONMENTAL ASSESSMENT

System its subming new cost to identify incourse conserve within the waterhoot, and to note their significance. An abbreviated is of conserve was in all presented to the pair during the New S, 2005 pairs in realing in Ada, MM. The meeting channel source is here at the set of the sector state, and above the parend paths to not include of conserve for average arous considerations. The following conserve was emily presentative the solid for conselection.

Identified Resource Concerns

- <u>Heading/Head Damages</u> Lie aplicatural s²exts⁴ on delescoperating presented plant rg, nor flood manifation mod damages extertivitige damages, breakaut flows, Teld envision/inpesition, flood plant management, etc.)
- <u>Water Quality/Finsion and Sedimentation (water quality, water resources, soil resources, field</u> conclusiveposition, charted area on Vieposition, etc.)
- Wildlife and Habitat (Fish and wild fe, workinds, endange of and threatened species, invasive species, migratory bink, forest resources, etc.)

e Other

Following the meeting and activation public command period, his Green Meedow Food Demage Reduction fraged: There revealed the public input and also considered for the leaving measure concerns and shift in Section 2002/40 million (2007-Relicent Watershift) fragment frakes)

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	TREETEN.	21	Stephenia tanàna		denotion
20.	Roods ain managament	21.	Science : inscrumment		
11	Descal sciences	28	Selection acciliant		
	Rustania		Avia ex.		

Each of the concerns was ramed based on their relevance within the study area. The results of this scoper process are listed in the following table:

November 14, 2006

DEXT - Scope of Crylton mental Assessment

Table 38 - Evaluation of ident fied Concerns

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Grass Window Watership Flor-CA

Interne	Reliant need	Comments
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November 14, 2006

DEATT - Scope of Chylton mantal Assaure re-

Group Vandow Watership Far-CA

Revised Purpose and Need

Purpose and Need revisited/review

Next Steps

- Task Provide feedback on Revised PN
 - WD incorporate comments/feedback
- Continue Resource Inventory (fill in the PN "blanks")
- Submit the PN to NRCS

Alternatives