

UPPER GREEN MEADOW PROJECT TEAM

Ist Meeting

December IIth, 2013

Wild Rice Watershed District Offices

AGENDA

- Introductions
- ▶ Goal
 - ► Timeline/# of Anticipated Meetings
- ► Ist Meeting Objective
- ► MN Mediation Agreement
- Process
 - Ground Rules
 - Expectations
- Watershed Description
- Problems
- ▶ Public/Audience Comments
- Project Team Discussion

GOAL

Develop viable strategy option(s) to solve known problem(s) within Upper Green Meadow Subwatershed for Wild Rice River Watershed District Board of Managers consideration

- ► Completion: Spring 2014
- Anticipate I- 6 Meetings

IST MEETING OBJECTIVES

- I. Provide Background Information
 - MN Mediation Agreement and Process
- 2. Establish Project Team Process/Ground Rules
- 3. Identify and Prioritize Water Resource Problems in the Upper Green Meadow Watershed
- 4. Determine if there is Agreement Among Project Team Representatives that the Problem(s) is/are Severe Enough to Warrant Action by the Wild Rice Watershed District
- 5. Develop Green Meadow Watershed Problem Statement

RED RIVER BASIN MEDIATION PROCESS OVERVIEW

CHALLENGES / OPPORTUNITIES

- Historic battles over water management and environmental permitting resulted in an joint Federal-State Environmental Impact Statement (EIS) on flood control projects.
- Disagreement over the EIS resulted in a legislative directive and funding to mediate the conflict.
- ▶ 12 months of meetings resulted in the Red River Mediation Agreement
- Consensus-based process; no votes!

MEDIATION AGREEMENT MEMBERS

- MN Dept. of Natural Resources
- MN Board of Water and Soil Resources
- MN Pollution Control Agency
- ▶ Red River Watershed Management Board
- MN Center for Environmental Advocacy
- National Audubon Society
- ▶ U.S. Fish and Wildlife Service
- ► Local residents
- ▶ Red Lake Band of Chippewa
- ▶ U.S. Army Corps of Engineers*

RED RIVER MEDIATION AGREEMENT

- Signed by 20+ parties in December, 1998.
- Outlined a watershed based approach to flood damage reduction (FDR) and natural resource enhancement (NRE).
- Recommended a "problem solving" approach to develop comprehensive solutions.
- Directed work to watershed based multidisciplinary "project teams".

FLOOD DAMAGE REDUCTION GOALS

- Prevent loss of human life
- Prevent damage to structures, homes, communities (100 yr.)
- Reduce damage to farm land (10 yr summer storm event, more if at minimal cost)
- Reduce damage to transportation, water quality, social and economic factors

FDR STRATEGIES

- Full range of methods for reducing flood damages and control flood volumes
- All strategies have their proper and improper uses and locations
- Included controversial methods such as wetland restoration, channelization, drainage ditches, overtopping levees

TP I I STRATEGIES

Reduce Flood Volume

 Construction or Restoration of Depressional Wetlands, Cropland BMPs, Conversion of Cropland to Perennial Grassland, Conversion of Land Use to Forest, Other Beneficial Uses of Stored Water

Increase Conveyance Capacity

Channelization, Agricultural Drainage, Diversions, Setting Back Existing Levees, Increasing Road Crossing Capacity

Increase Temporary Flood Storage

On Channel Impoundments, Off Channel Impoundments, Restored or Created Wetlands, Drainage, Culvert Sizing, Setting Back Existing Levees, Overtopping Levees

Protection / Avoidance

Urban Levees, Farmstead Levees, Agricultural Levees, Evacuation of the Floodplain, Floodproofing, Flood Warning and Emergency Response Planning

NATURAL RESOURCE GOALS

- Manage streams for natural characteristics
- Enhance flow regimes in streams for water supply, water quality, recreation.
- Provide recreational opportunities
- Improve water quality
- Protect groundwater
- Manage lakes for natural characteristics

COMPREHENSIVE WATERSHED DISTRICT MANAGEMENT PLANS

- WD plans pre-mediation had lists of projects built and proposed
- ▶ 2nd Generation plans are more comprehensive
- Incorporate both FDR and NRE goals from Agreement



- Project Development Planning Steps
- ► Roles and Responsibilities
 - Watershed Board
 - Project Team
 - Additional Resources
- ► Ground Rules
 - Meeting Discussion
 - Communication
 - Participation
 - Minority Report

PROCESS ...SOME RELEVANT QUOTES

"Never mistake activity for accomplishment" (John Wooden, 1910-2001)

"The key to failure is trying to please everybody" (Bill Cosby, 1937 -)

...PROJECT DEVELOPMENT STEPS

- I. Problem Identification
- 2. Existing Watershed Condition
- 3. Goal(s), Purpose, and Need
- 4. Range of Alternatives/Alternatives

 Evaluation
- 5. Selection of Preferred Alternative(s)

Step 1 Problem Identification

Step 2
Assess Watershed Conditions

Step 3
Establish Project Purpose, Goals and Identify Appropriate Strategies

Step 4 **Evaluate Alternative Strategies**

Step 5
Select and Site Alternative(s)

....ROLES AND RESPONSIBILITIES

WATERSHED DISTRICT (Statutory Authority)

- Identify Areas of Concern
- Invite Stakeholders to Serve on PT
- Coordinate Meetings
- Arrange for Facilitator
- Record Keeping
- Communication with PT Members

BOARD MEMBERS

- ▶ PT Direction, Focus, Support
- Considering Alternatives
- ► Taking Action (DECISION-MAKING BODY)

...ROLES AND RESPONSIBILITIES

► UPPER GREAN MEADOW PROJECT TEAM

- ► Represent Stakeholder Constituency
- ▶ Identify Problems and Opportunities for FDR/NRE
- ► Formulate and Evaluate Alternative to Address Problems and Opportunities
- Recommend Preferred Alternative to Wild Rice Watershed District Board
- ► Identify and Clarify Regulatory Requirements and Permitting
- Review/Comment on Key Project Documents
- Assist if the Formulation of Operating/Monitoring Plans
- DECISION-MAKING...

- ...PROJECT TEAM DECISION-MAKING
- Consensus Individuals *collectively* make a choice





- ...PROJECT TEAM DECISION-MAKING
- "I CAN LIVE WITH IT"

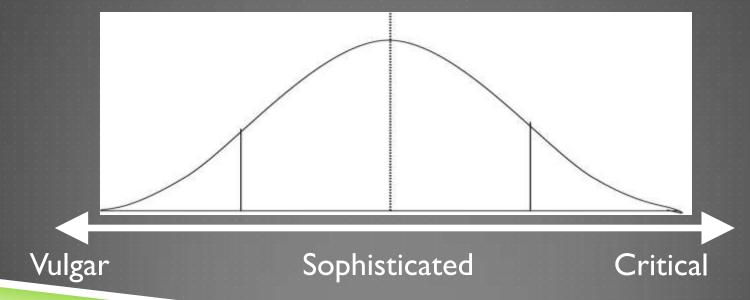






PROCESS – FINAL WORD

- ...PROJECT TEAM DECISION-MAKING
- ► Consensus Individuals <u>collectively</u> make a choice
 - "I can live with it"
- ► Three Kinds of Believers (C.Wright Mills)



...ROLES AND RESPONSIBILITIES

- ► Facilitator/Watershed Administrator/Consulting Engineer/FDRWG Coordinator
 - ▶ NOT PT Member no participation in developing alternatives
 - ► Guide PT FDRWG Mediation Agreement
 - Monitor Ground Rules, PT Dynamics
 - Ask Questions
 - Clarify Issues
 - Worker Bee
 - Provide Information
 - Manage Process
 - Create Products (notes, reports, etc.)

GROUND RULES

...PROJECT TEAM MEETING/DISCUSSION

- Everyone Participates
- ► No Single "Right" Answer
- Keep an Open Mind (Sophisticated Thinker)
- Listen to Others
- ► Keep Discussion on Track
- Try to Understand the Views with Whom you Disagree
- Ask Questions
- Disagreements OK
- Strive for "I can Live with it"

GROUND RULES

...PROJECT TEAM COMMUNICATION

- Constituency Communication Lead
 - Watershed District Board WD Administrator
 - Press Media WD Administrator
 - Stakeholders Project Team Members
- If consensus cannot be reached, the Project Team member(s) with a minority opposing opinion, shall work with the "Additional Resources" to prepare a minority report for the Wild Rice Watershed District Board

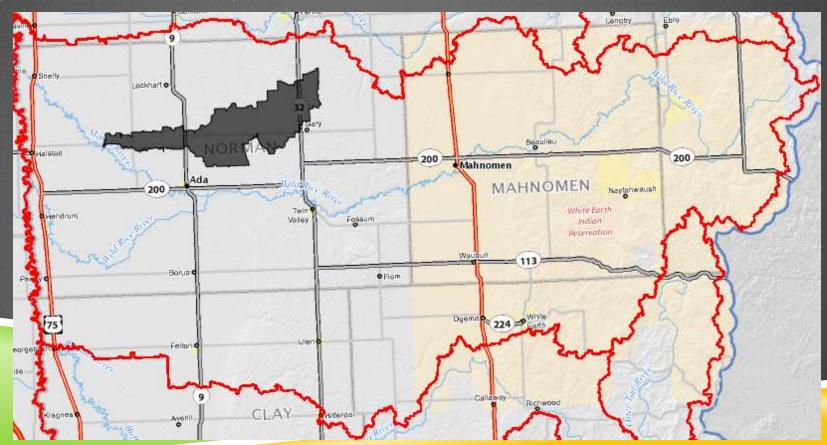
GROUND RULES ...PROJECT TEAM PARTICIPATION

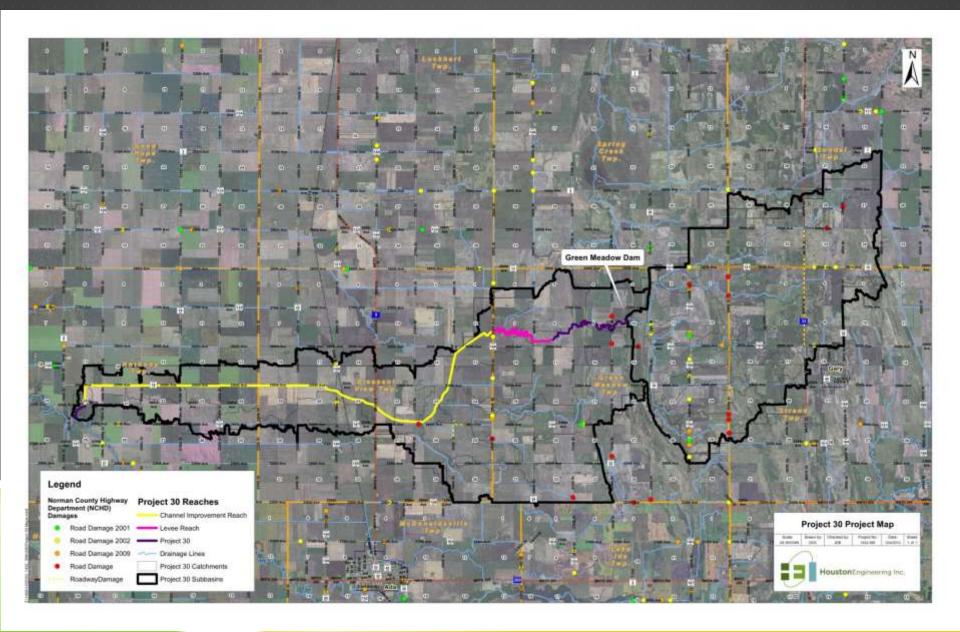
"Snooze you Loose" Rule

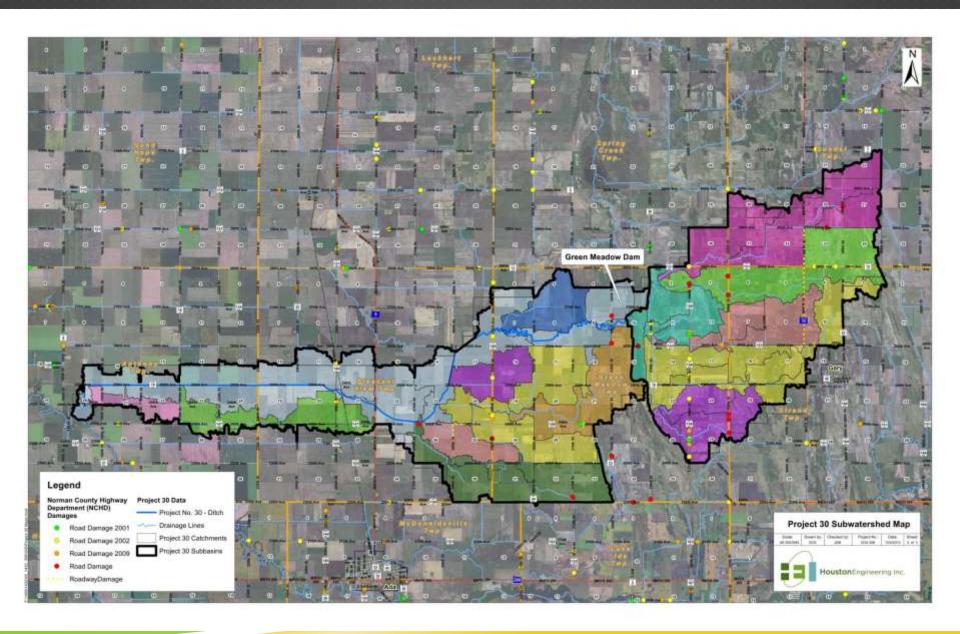
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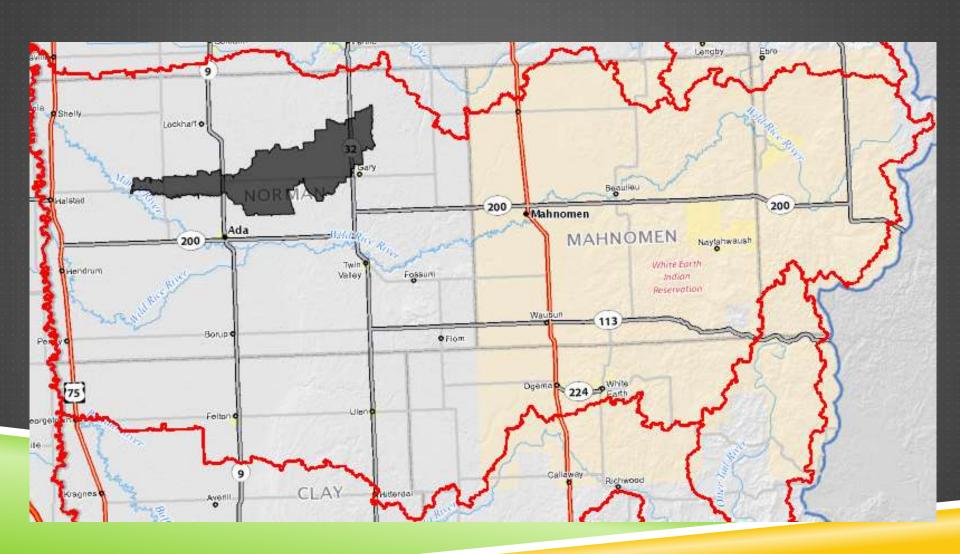
- Marsh River Subwatershed
- Approximately 69 Square Miles
- Contains Upper Green Meadow Dam
- ▶ Project 30 WRWD Project







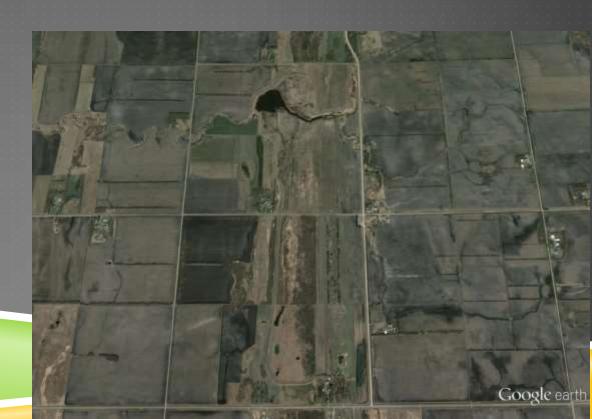
► Google Earth Fly Though



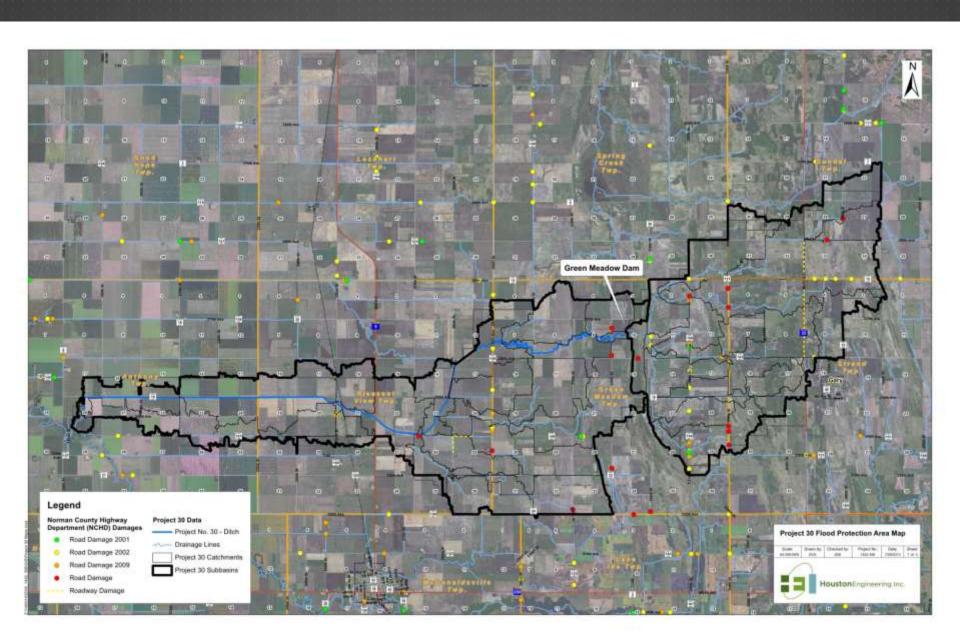
- Green Meadow Dam
 - Location
 - Sections 10 and 15 of Green Meadow Township (Norman County). West of Gary, MN
 - History
 - ▶ The dam was constructed in approximately 1973 by the Soil Conservation Service.
 - It was later added to become part of the downstream ditch system as part of WRWD Project No. 30.



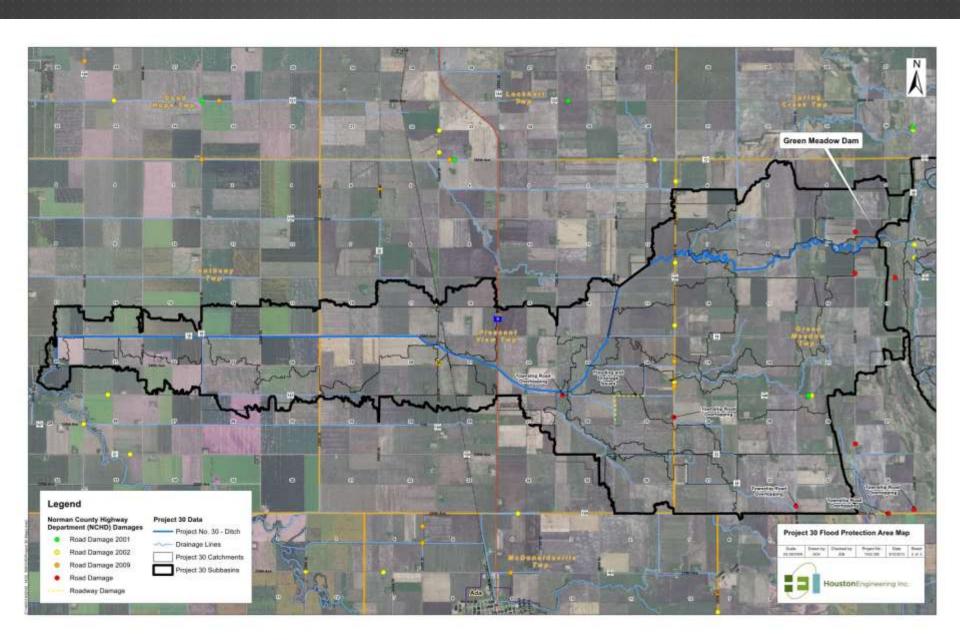
- ► Green Meadow Dam
 - Drainage Area
 - ▶ 29.6 SM±
 - Storage
 - > 2,200 AC-FT (1.4")
 - Soils
 - Poor / Granular



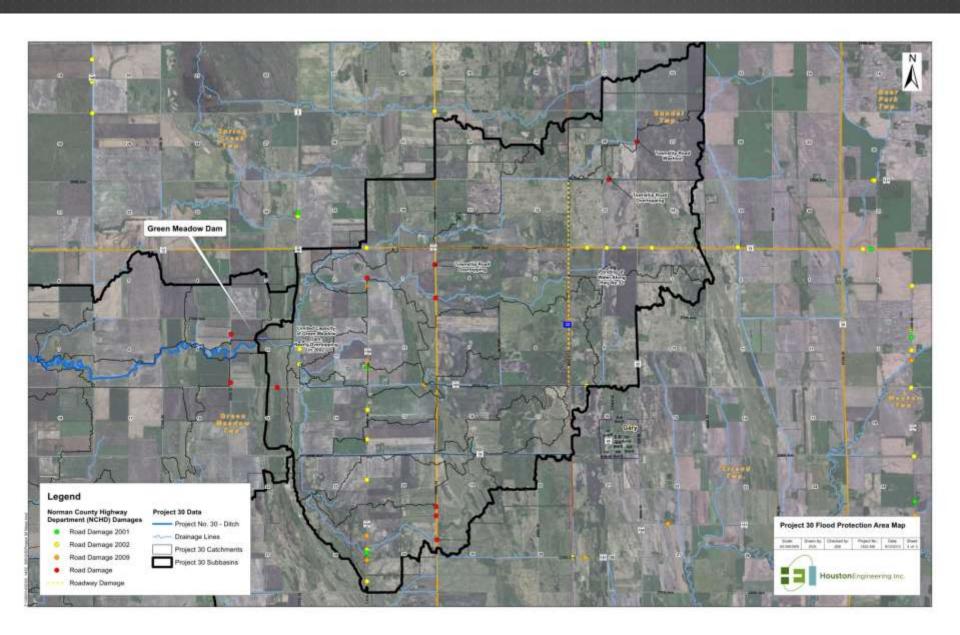
UGM PROBLEMS - INFRASTRUCTURE DAMAGES



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- ► Green Meadow Dam
 - ► Substantial Repair (2006)
 - Erosion Repairs
 - ▶ Clay Liner Partial



- ► Channel Erosion
 - ► Middle Reach Erosion on Setback Levees
 - Riprap and Levee Setbacks



- ► Lower Reach Channel 2011 Repair
 - ► Substantial Repair (2011)
 - Section 20-24 (Anthony Township) and Section 19 (Pleasant View Township)

► FEMA Funding Assistance



- ► Lower Reach Channel 2011 Repair
 - ► FEMA Approved Repair Method
 - ▶ Backslope at 5:1

