

# Swift Coulee/Marshall County Ditch #3 Project Work Team Meeting Middle-Snake-Tamarac Rivers Watershed District



Google Earth 2015 Imagery

Hwy 75 Swift Coulee

**August 10, 2016  
Warren, MN**

# Agenda

**Purpose of Today's Meeting**

**Project Work Team Purpose, Roles & Responsibilities**

**Recap of Swift Coulee/MCD #3 Previous Meetings**

**Watershed Setting & Resource Concerns**

**Public Comment**



# Purpose of Today's Meeting

- **Objectives:**
  - *Decision on Whether to Continue with Project Work Team Approach*
  - *Need Local Representation for Project Work Team (Volunteers??)  
MSTRWD Board to Pick from Candidates*
  - *Decision on Whether to Survey Swift Coulee (Portions or all??) and  
make that recommendation to the MSTRWD Board*



# Project Work Team Members and Roles

- **Project Lead - Planning**
  - Define Meeting Objectives
  - Coordination with other Team Members between Meetings
  - Provide Documentation of meeting Outcomes
  - Draft Deliverables for Team Review
- **Watershed Stakeholders**
  - *Represent Local Interests*
  - Provide Local Perspective on Suggested Alternatives brought forth by the Team
  - Evaluate all Information Provided by Technical Resources
- **Advisory Group (Local/State/Federal Agencies)**
  - *Represent Agency Concerns*
  - *Assist in Scoping the Affected Environments for Proposed Alternatives*
  - *Provide Input on Alternative Screening*
  - *Provide Input on Potential Resource Impacts*



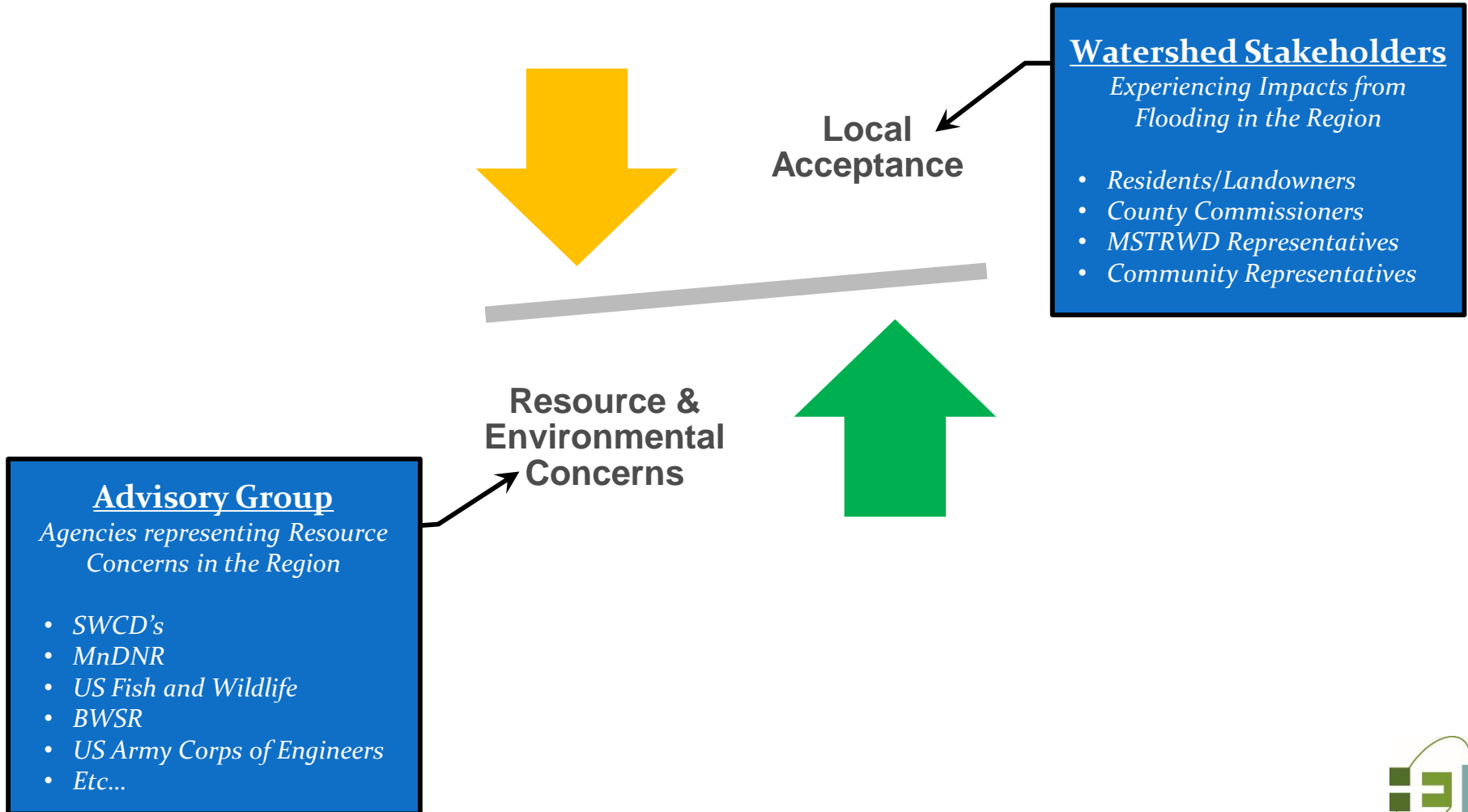
# Project Work Team Responsibilities

- **Project Work Team Guidance (Stay on Track!!)**
  - *Define Purpose and Need of water problems within the sub-watershed*
  - *Define Array of Alternatives and Evaluate Alternatives to Carry Forward*
  - *Selection of Alternative for Implementation*
  - *Make Recommendations to the Watershed District Board*
- **Project Work Team Goals**
  - Obtain USACE Section 404 permit for Selected Project
  - *Move forward with Design/Implementation of Project*



# Watershed Stakeholders & Advisory Group

**Goal:** Consider technically feasible alternatives to determine the reasonable locally preferred alternative.



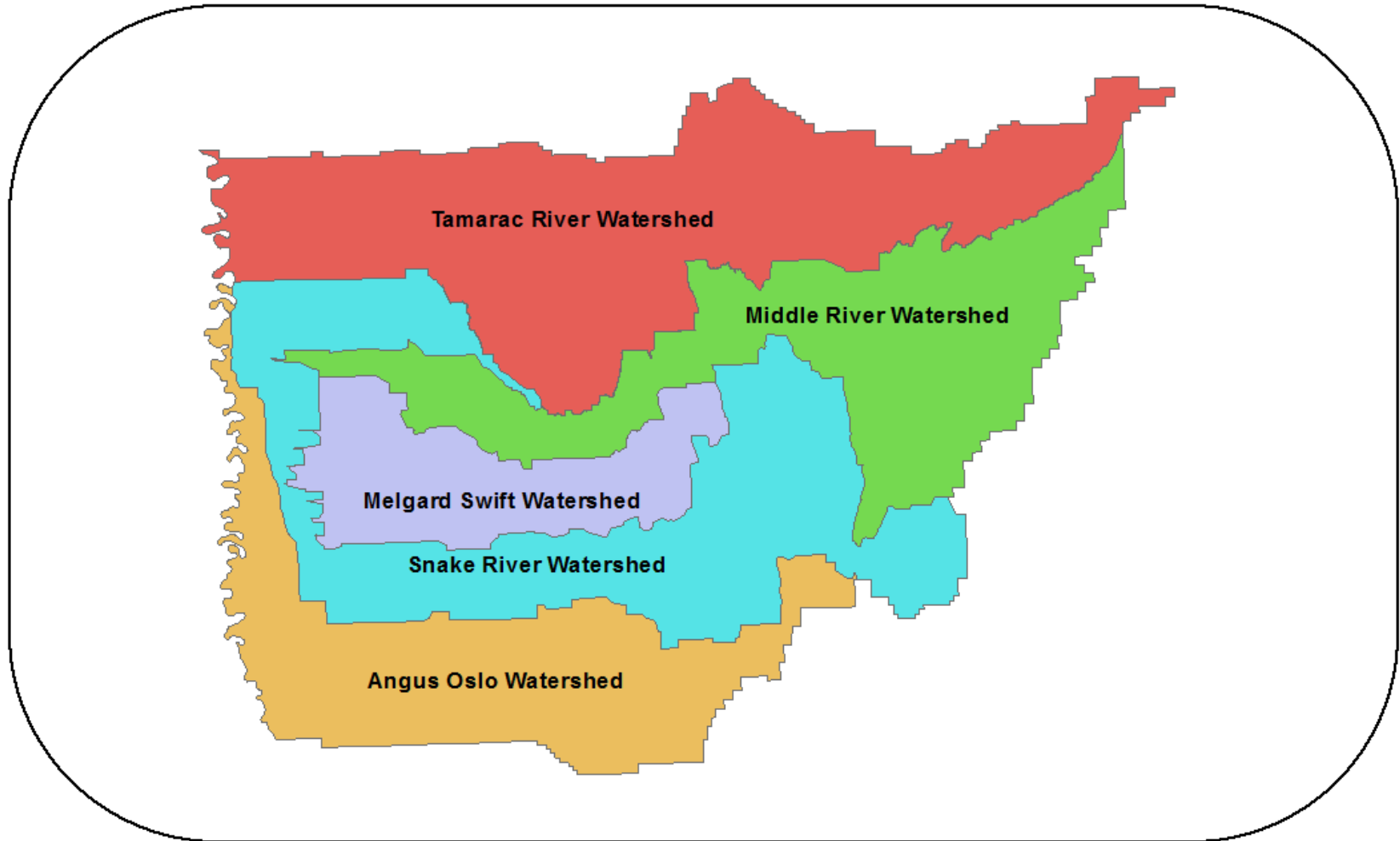
# Recap of Swift Coulee/CD #3 Previous Meetings

## Timeline:

- **Last PWT meeting was February 26, 2009**
  - *Discussions*
    - *PWT purpose*
    - *Any Proposed Project would be a Watershed District Project*
    - *Known problems*
    - *Minnesota DNR Protected Water*
- **Informational Meeting was held on February 18, 2016**
  - *Public Interest*

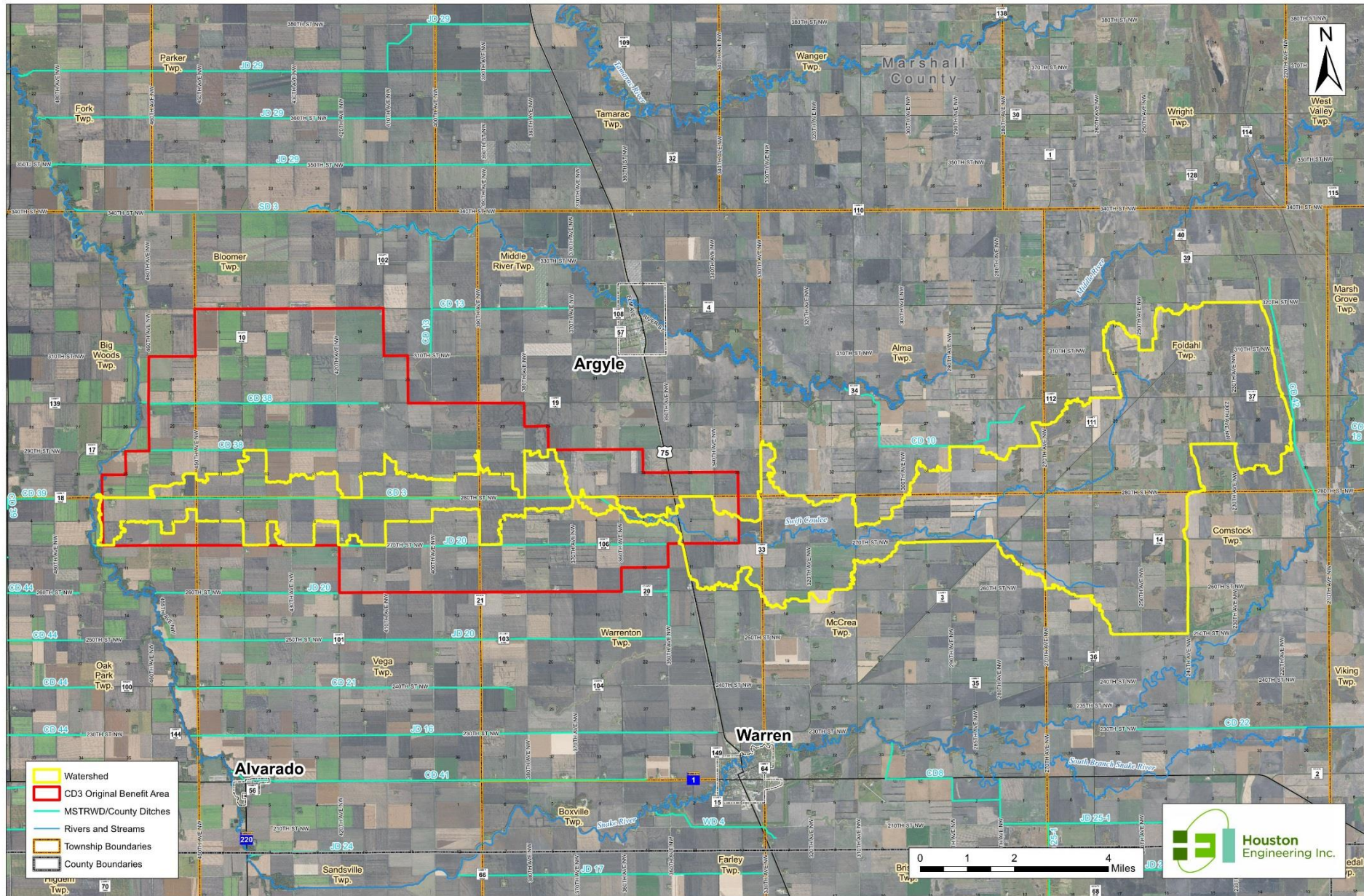


# Watershed Setting & Resource Concerns

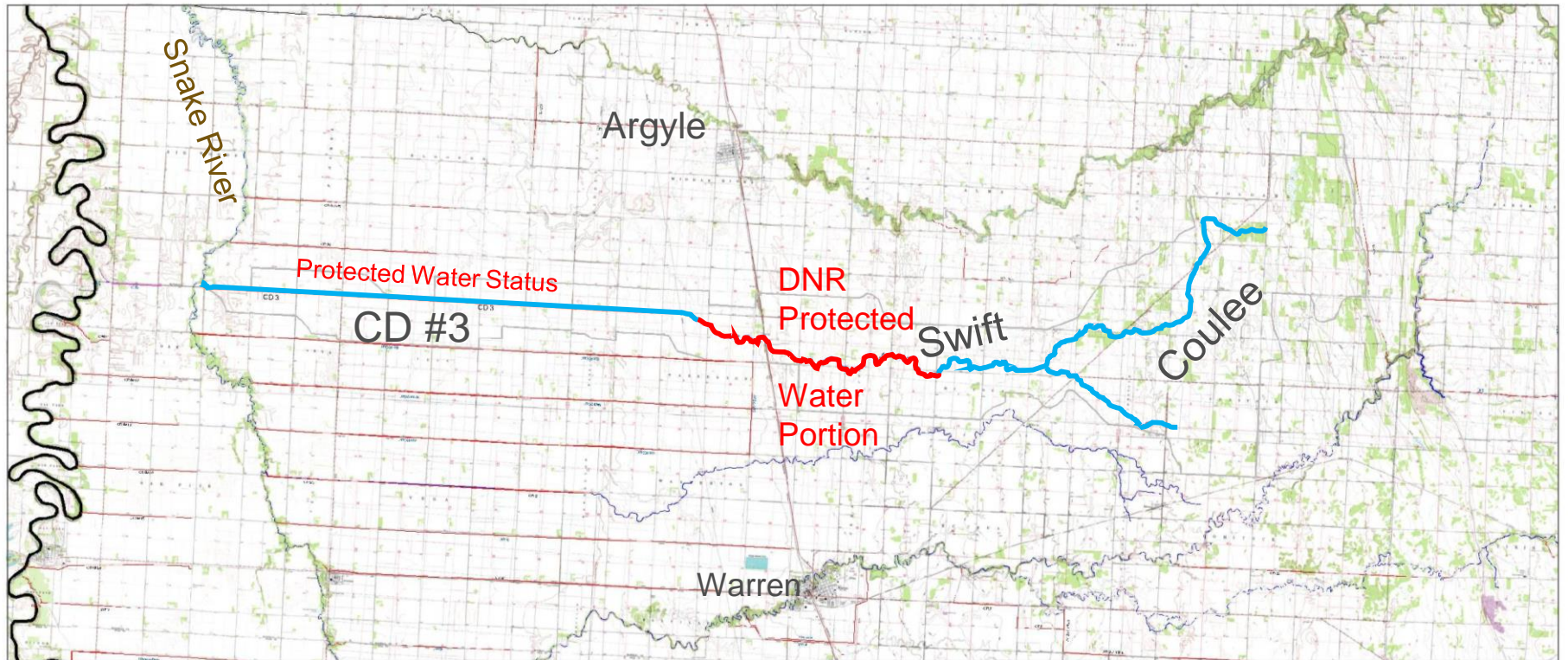




# Watershed Setting – Swift Coulee Region



# Course of Swift Coulee & County Ditch #3



# Flood Impacts

SPRING RUNOFF 2008 CD #3



# Flood Impacts

SPRING RUNOFF 2008 CD #3



# Flood Impacts - Agriculture

**JUNE 2007 RAIN EVENT LOOKING WEST AT EASTERN EDGE OF CD #3**



# Flood Impacts - Infrastructure

JUNE 2007 RAIN EVENT LOOKING EAST AT EASTERN EDGE OF CD #3



**(2) 6' x 12' Box culverts flowing full**



# Flood Impacts

Swift Coulee/CD #3 Juncture NW4 Section 3 Warrenton Twp

End of Swift Coulee NW4 section 3 Warrenton Twp



# Resource Concerns for Consideration

## Potential Resource Concerns

- National Economic Development (NED)
- Cultural Resources
- Ecologically critical areas
- Endangered and threatened species
- Environmental justice and civil rights
- Essential fish habitat
- Fish and wildlife (including coordination requirements)
- Floodplain management
- Forest resources
- Land use
- Migratory birds
- Natural areas
- Prime and unique farmland, and farmland of statewide significance
- Public health and safety
- Regional water resource plans (including coastal zone plans)
- Riparian areas
- Social issues
- Soil resources
- Water quality
- Water resources
- Waters of the United States, including special aquatic sites
- Wetlands

## Concerns Addressed to the MSTRWD During 10-Year Watershed Management Plan (May 2011)

- Benefited area disproportioned to Drainage area
- Overland Flooding
- Channel Instability/Capacity
- Buffer strip needed on coulee/ditch
- Fish Habitat
- Field erosion/deposition
- Breakout flows to Snake River
- Inadequate Outlet/Snake River
- Culvert Sizing
- Increased Problem over past 10-yr near TH#75
- Runoff/timing issues with eastern planning region
- Channel/coulee filled with sediment
- Wind Erosion
- TSS, DO, & Bio (IBI) problems in streams

*Any additional concerns???*





# Conceptual Strategy Evaluation

## Flood Damage Reduction Strategies to Consider:

- **Increase Temporary Flood Storage**
  - *Dams and Impoundments*
  - *Create or Restore Wetlands*
  - *Alter ground water through drainage*
  - *Culvert sizing to meter runoff*
- **Increase Conveyance Capacity**
  - *Channelization of existing water courses*
  - *Drainage*
  - *Diversions*
  - *Set-back levees*
  - *Increasing road crossing capacity*
- **Reduce Flood Volume**
  - *Create or restore wetlands*
  - *Cropland BMPs*
  - *Cropland Conversion*
  - *Other Beneficial Uses*
- **Protection/Avoidance**
  - *Urban/Farmstead/Ag Levees*
  - *Floodplain Evacuation*
  - *Flood proofing*
  - *Advanced Flood Warning Systems*



# Public Comments

## Middle-Snake-Tamarac Rivers Watershed District Swift Coulee/Marshall CD #3 Project Work Team Meeting

August 10, 2016  
 10:00 p.m.

Public/Agency participation

To make the District more aware of what needs to be achieved we ask that known problems with the Swift Coulee and Marshall CD #3 be described here. Please write about the problems you know of.

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