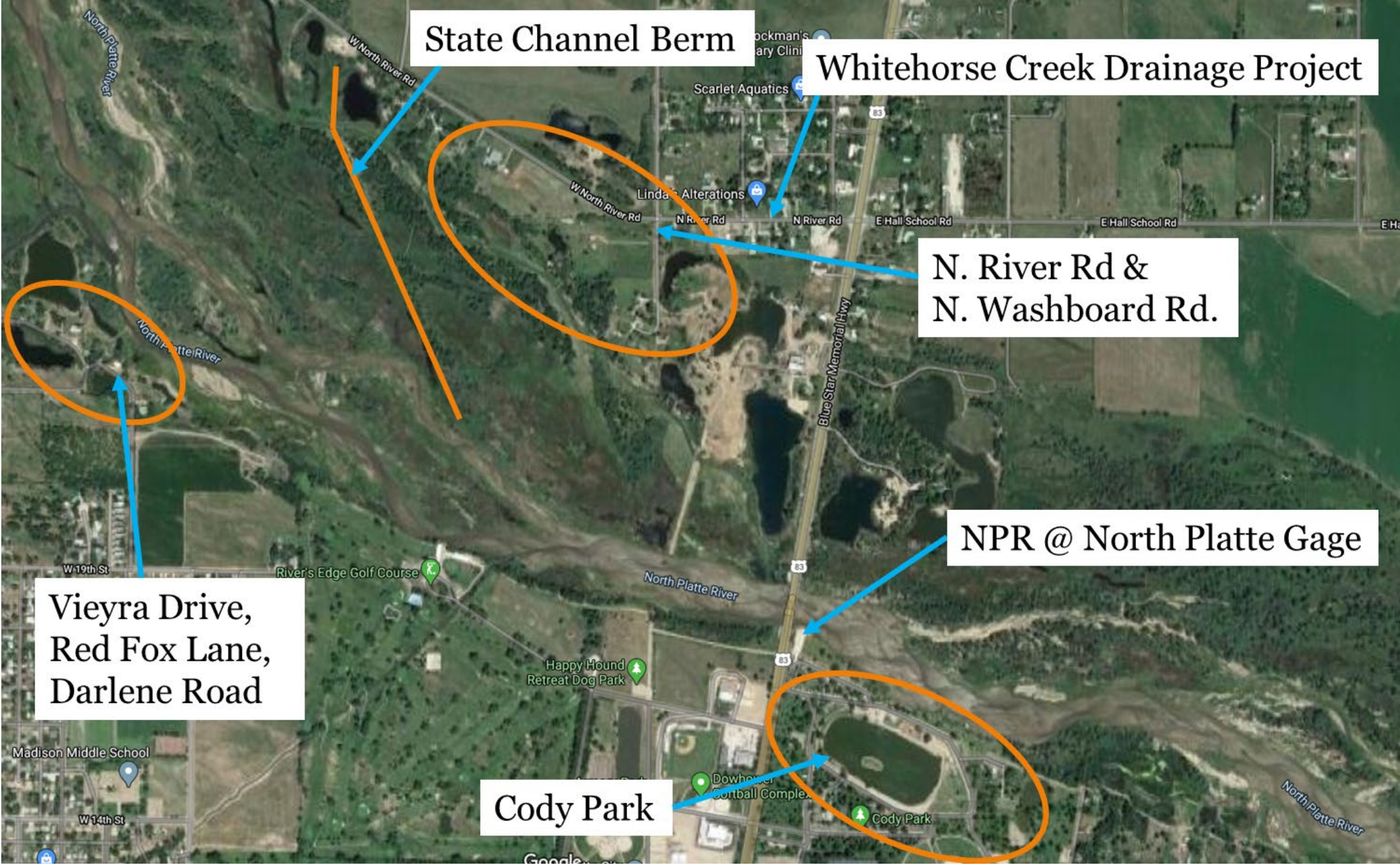


North Platte Chokepoint 2021 and Future Activities

North Platte Chokepoint Planning Workgroup
October 19, 2021

North
Platte
Chokepoint



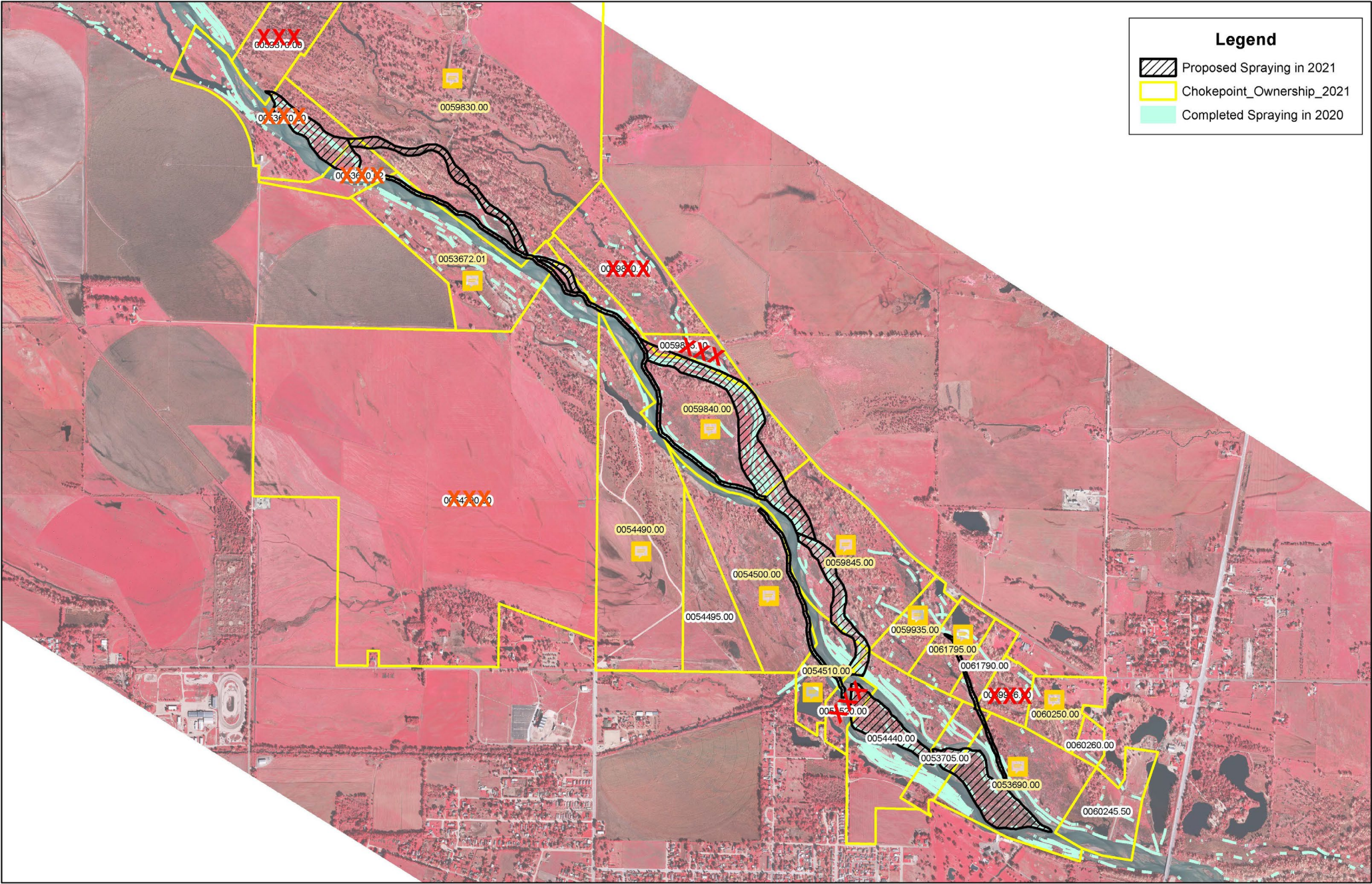
April 2021 Meeting

- Review of past studies, modeling, projects, etc
 - Flood-proofing projects (2014, 2018)
 - Vegetation treatment (2007-present)
 - Flow test (2020)
- Other issues
 - Violating flood stage seen as non-starter with GC
 - Program lacks tools needed for big projects (e.g., condemnation)
- Anderson (2015-2016) Recommended Construction Alternative
 - Channel widening, dredging, jetties/bendway weirs
 - Underestimated cost, permitting, landowner permission hurdles
- EDO committed to developing vegetation treatment plan upstream of Hwy 83 bridge for 2021

2021 Vegetation Treatment Plan

- Reach extending ~3.5 miles upstream of Hwy 83 bridge
- Focus on stretch of narrow, single channel
 - 50 ft strip along banks
 - 100 ft strip through north side dry, overgrown channels
 - Perimeter of large mid-channel islands
- Spray all vegetation, not just phragmites
- Coordination and landowner permission
 - Rich Walters (TNC, PVWMA)
 - Todd Herndon (Lincoln County Weed Superintendent)
- Helicopter spraying completed week of October 4

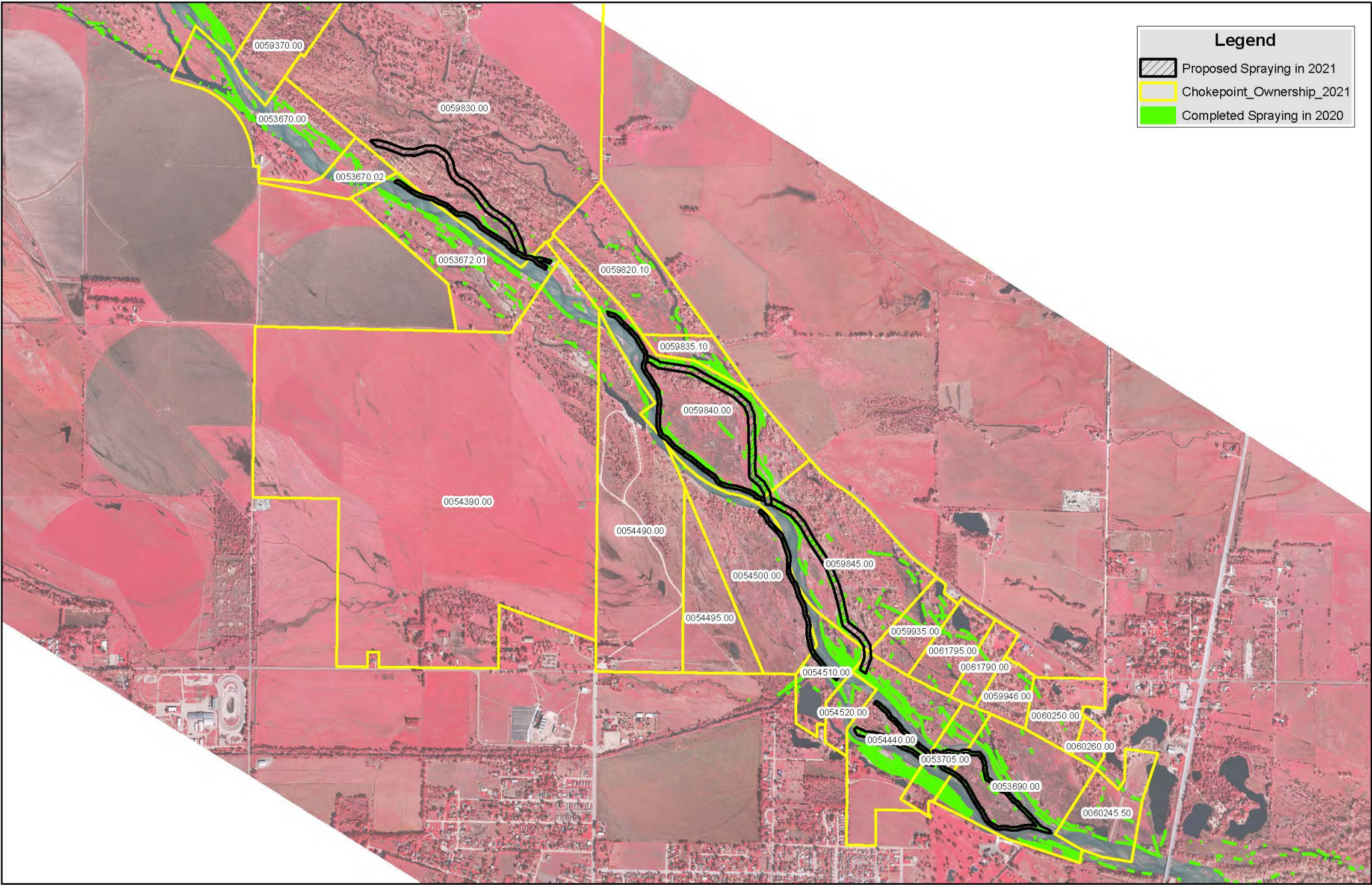
Preliminary
2021
Vegetation
Treatment
Map



Legend

- Proposed Spraying in 2021
- Chokepoint_Ownership_2021
- Completed Spraying in 2020

Final
2021
Vegetation
Treatment
Map

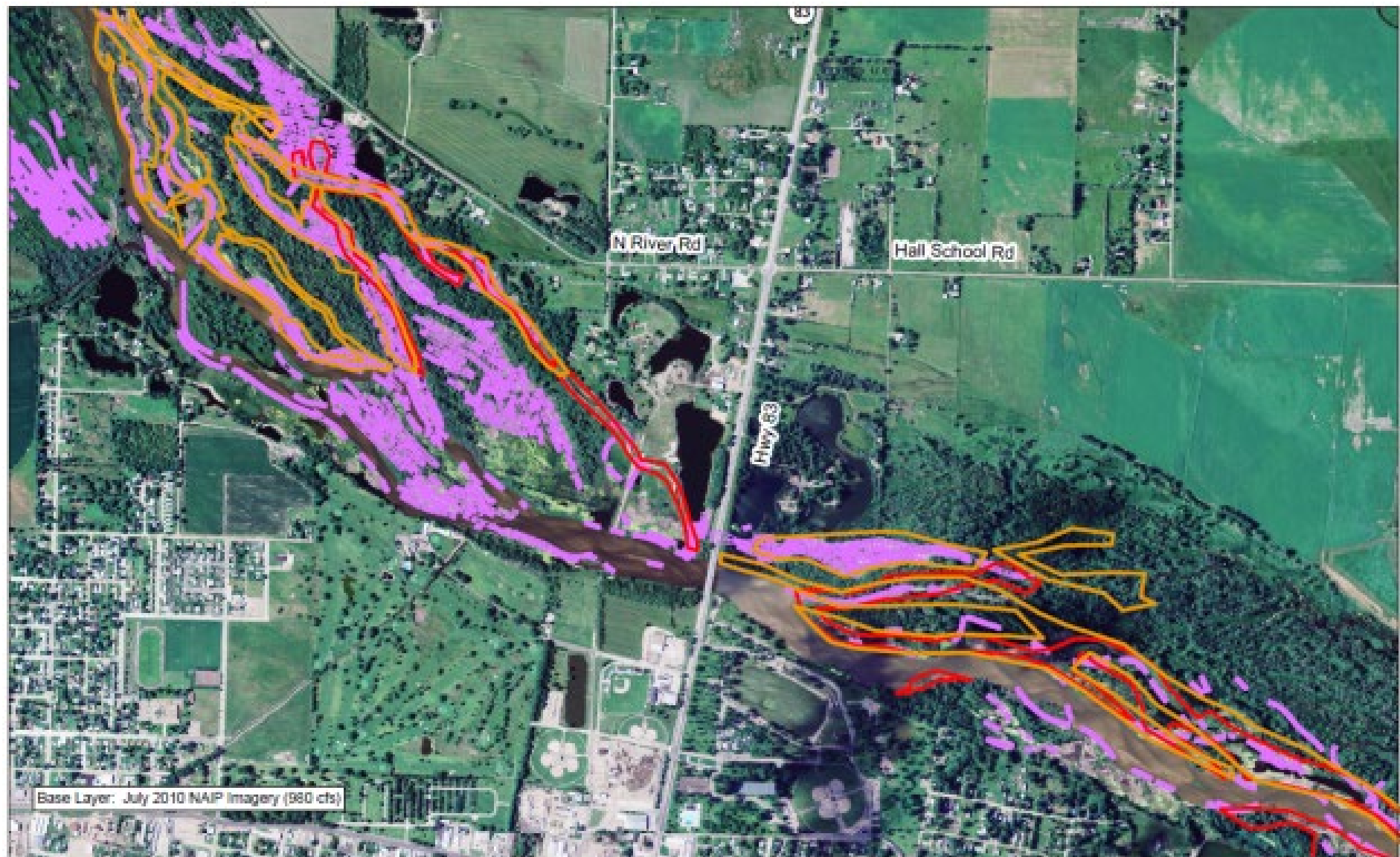


Possible Actions (2022 and Beyond)

- Action #1: Disking or other mechanical removal of vegetation
- Action #2: Remove old concrete headwalls in south channel and/or e-re-route drain outlet
- Action #3:
- Action #4:

Possible Action #1

Vegetation Treatment 2007-2012



-  Disked
-  Shredded/Mowed
-  Sprayed



Choke Point Vegetation Treatment
2007-2012

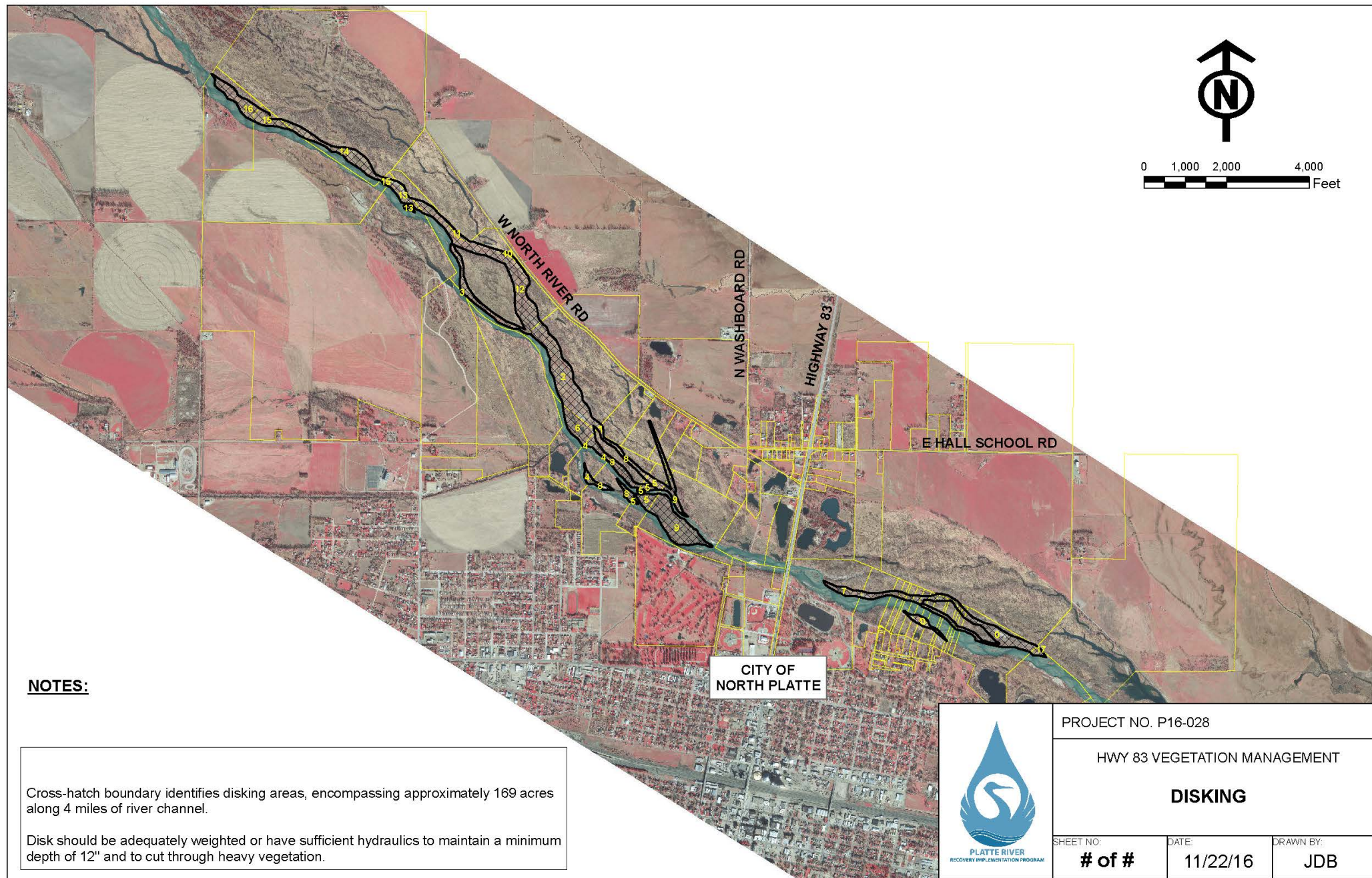
Date: 9/7/2012
By: S Smith



PLATTE RIVER
RECOVERY IMPLEMENTATION PROGRAM

Possible Action #1

Proposed Disking 2016



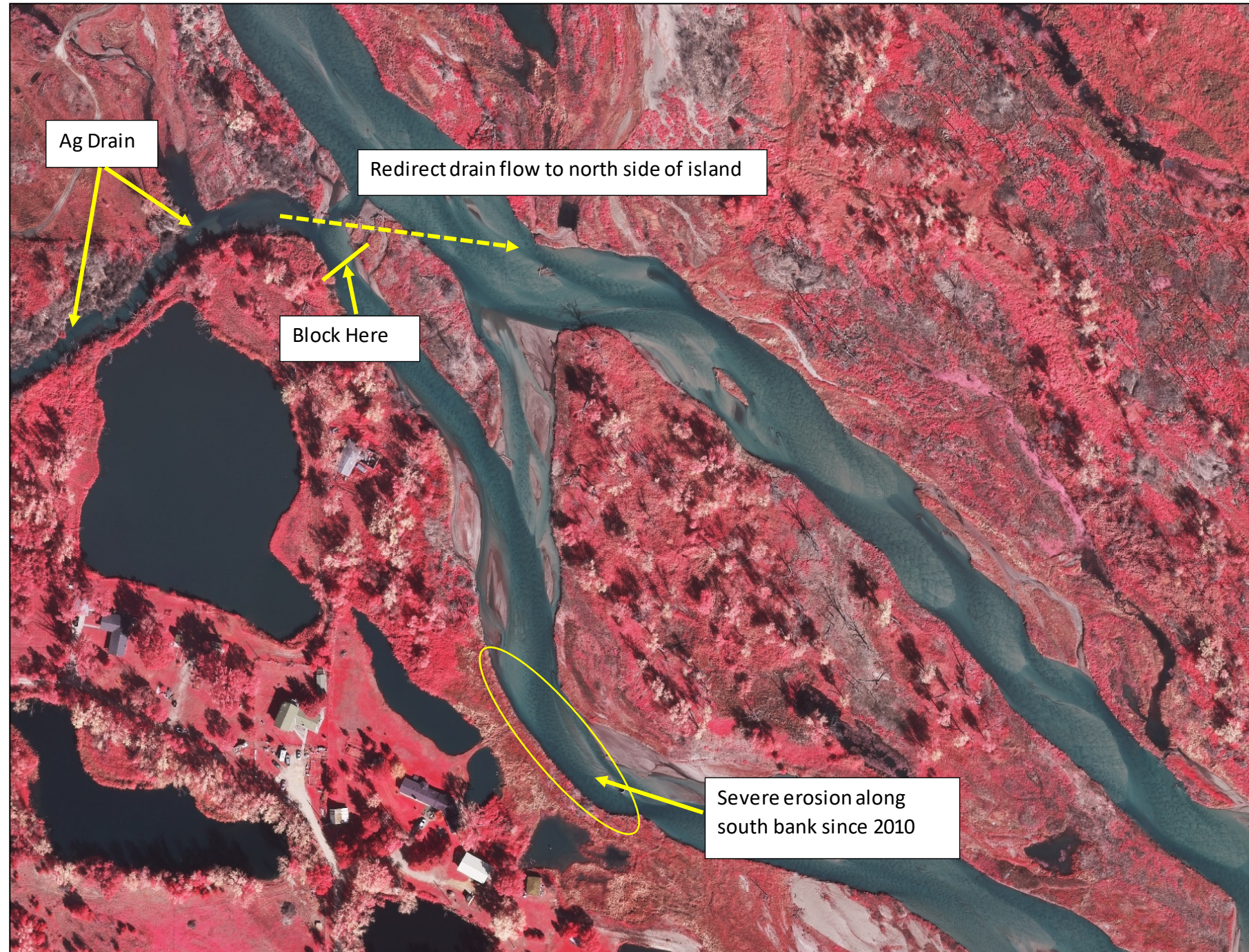
Possible Action #2: Old Concrete Headwalls

- South bank landowner raised issue
- Old concrete headwalls from abandoned drain outlet
- Headwalls are ~13 ft across, ~50 ft apart
- ~50-60 ft of bank erosion in 10 years



Possible Action #2

Re-route Drain Outlet



Possible Action #2

- Permitting considerations
 - Purpose & Need
 - Nationwide vs 404
 - Alternatives to proposed action
 - Impacts analysis
- Benefits
 - Program
 - Landowners



Other Possible Actions

Wait and See Approach

- Continue limited annual vegetation treatment to maintain flow capacity
- Science plan
 - Germination suppression releases (within existing capacity)
 - Phragmites investigation