

Missouri River BSNP Project Maintenance Omaha District

Missouri River Navigators Meeting
February 10, 2015

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US Army Corps of Engineers
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MRPO Budget Summary

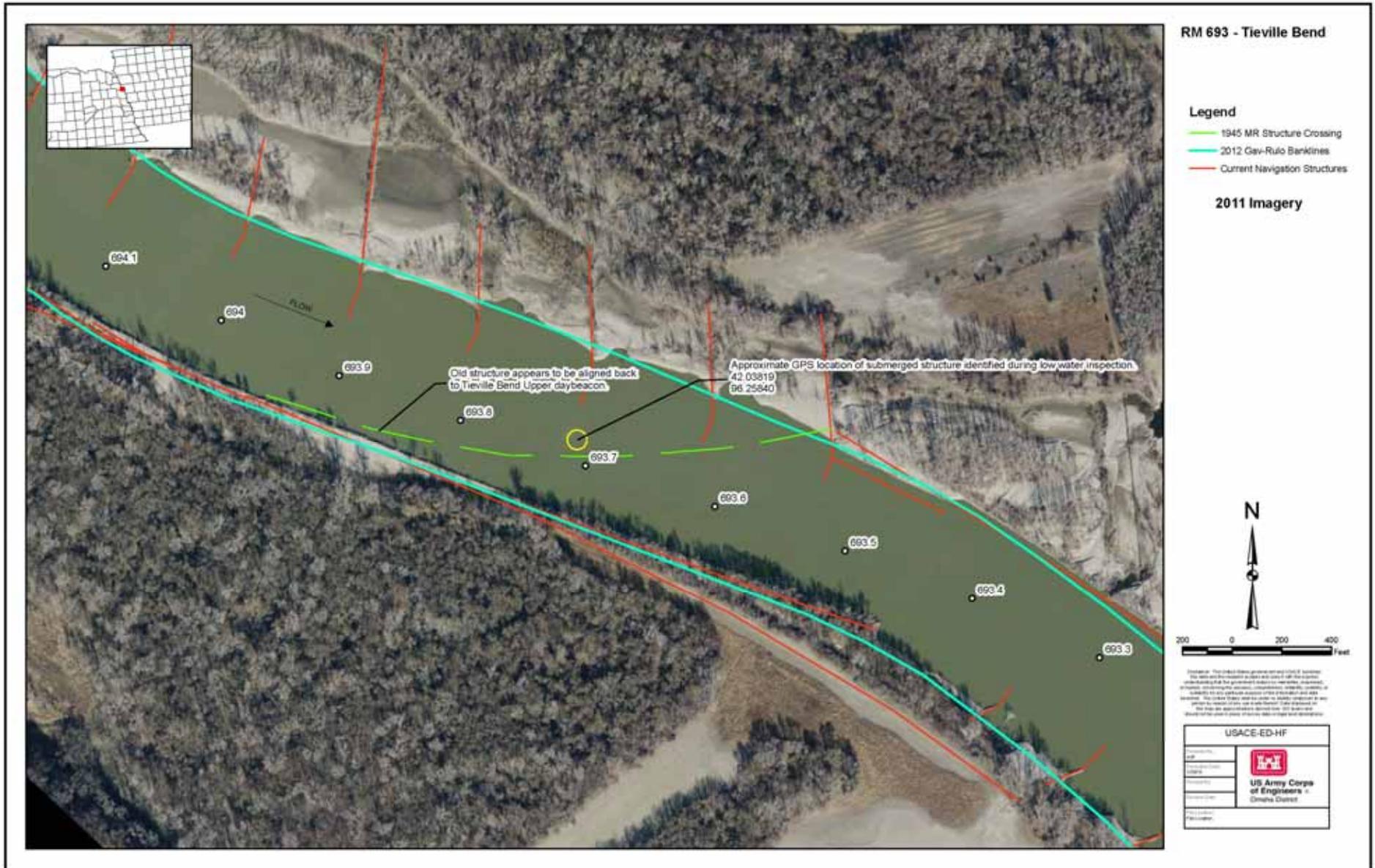


Historic Structures

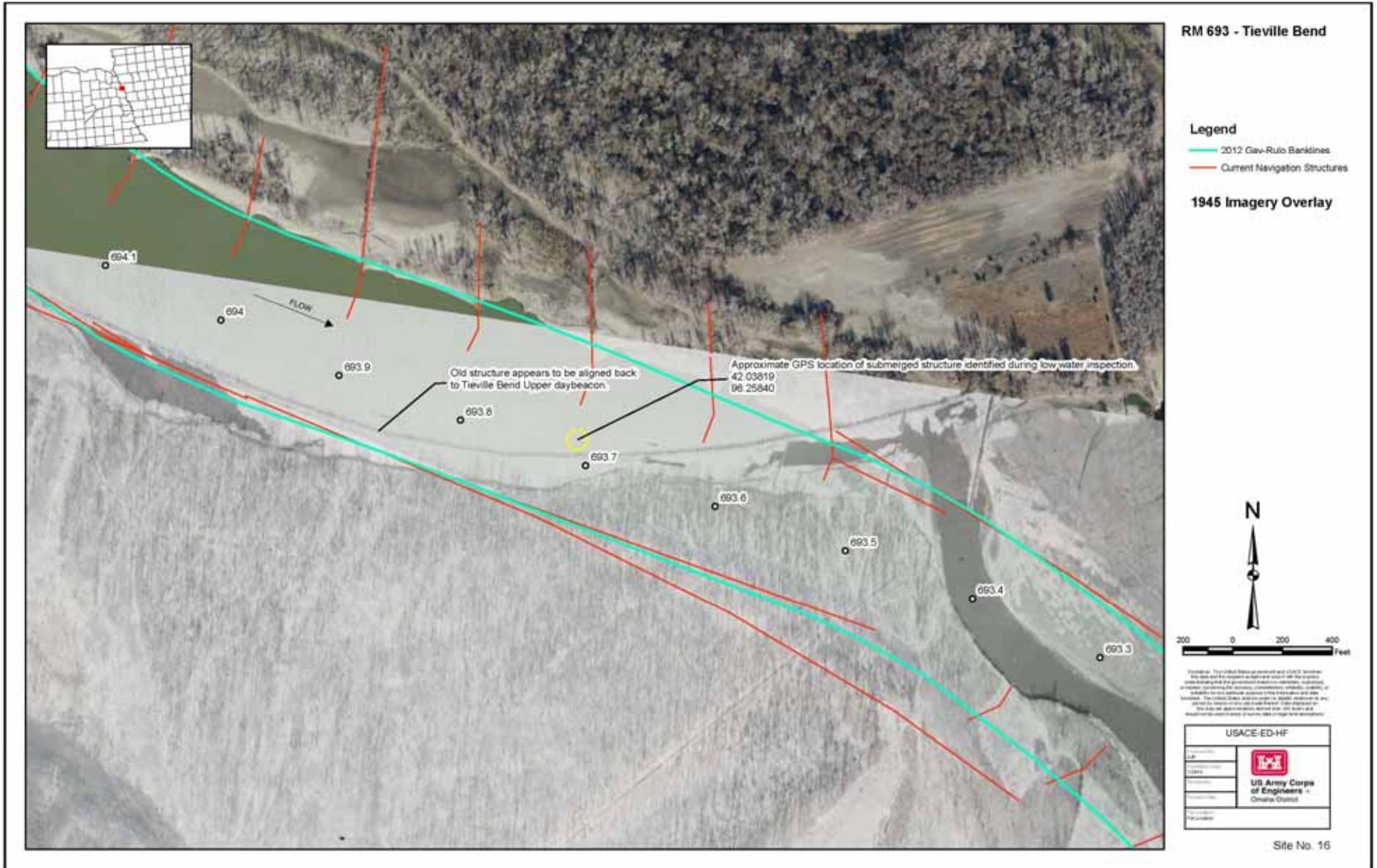
- Missouri River channelization took place over many decades. Final alignment from the Boyer River (RM 635) upstream to Sioux City (RM 735) not in place until after World War II.
- Structures along earlier alignment(s) were manually degraded when the final alignment was established in the 1950's. Continued river degradation may expose the historic structures.
- Minimal records on location/depth of historic structures
- Two spots of insufficient channel depth noted in the navigation channel near Decatur during the Dec 2013 low water inspection.



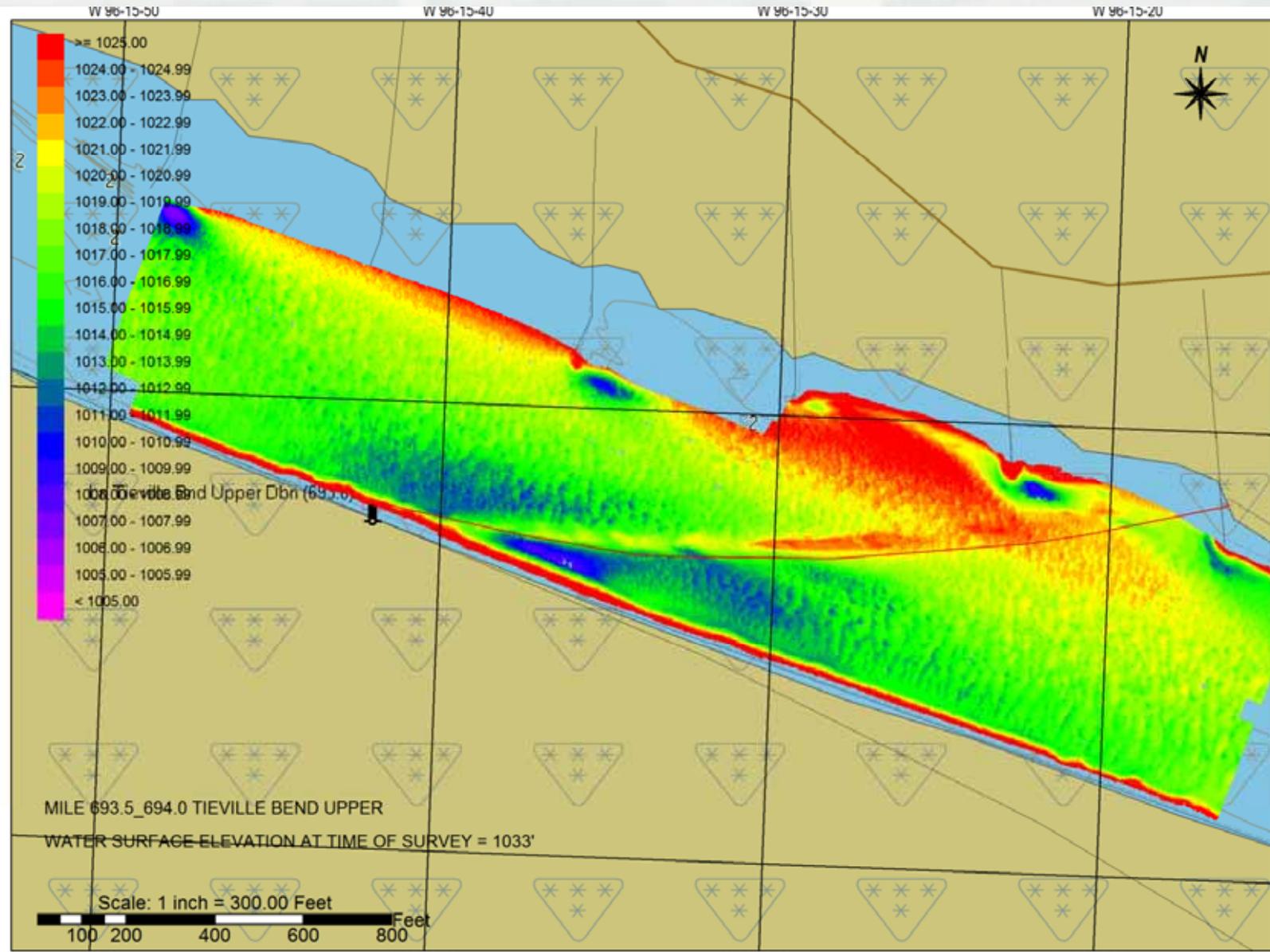
Example Near Decatur



Site with 1945 Image



ERDC Survey Results



Decommissioned Structure Summary

- Reviewed old plans, identified about 30 possible sites
- ERDC conducted multibeam and sonar survey in early spring 2014
- Structures found in survey degraded by Project Office work crew in 2014
- Work in five bends and about 2250 tons stone, piling removed, 2 months effort



Material Removed From Decommissioned Structures



July 2014



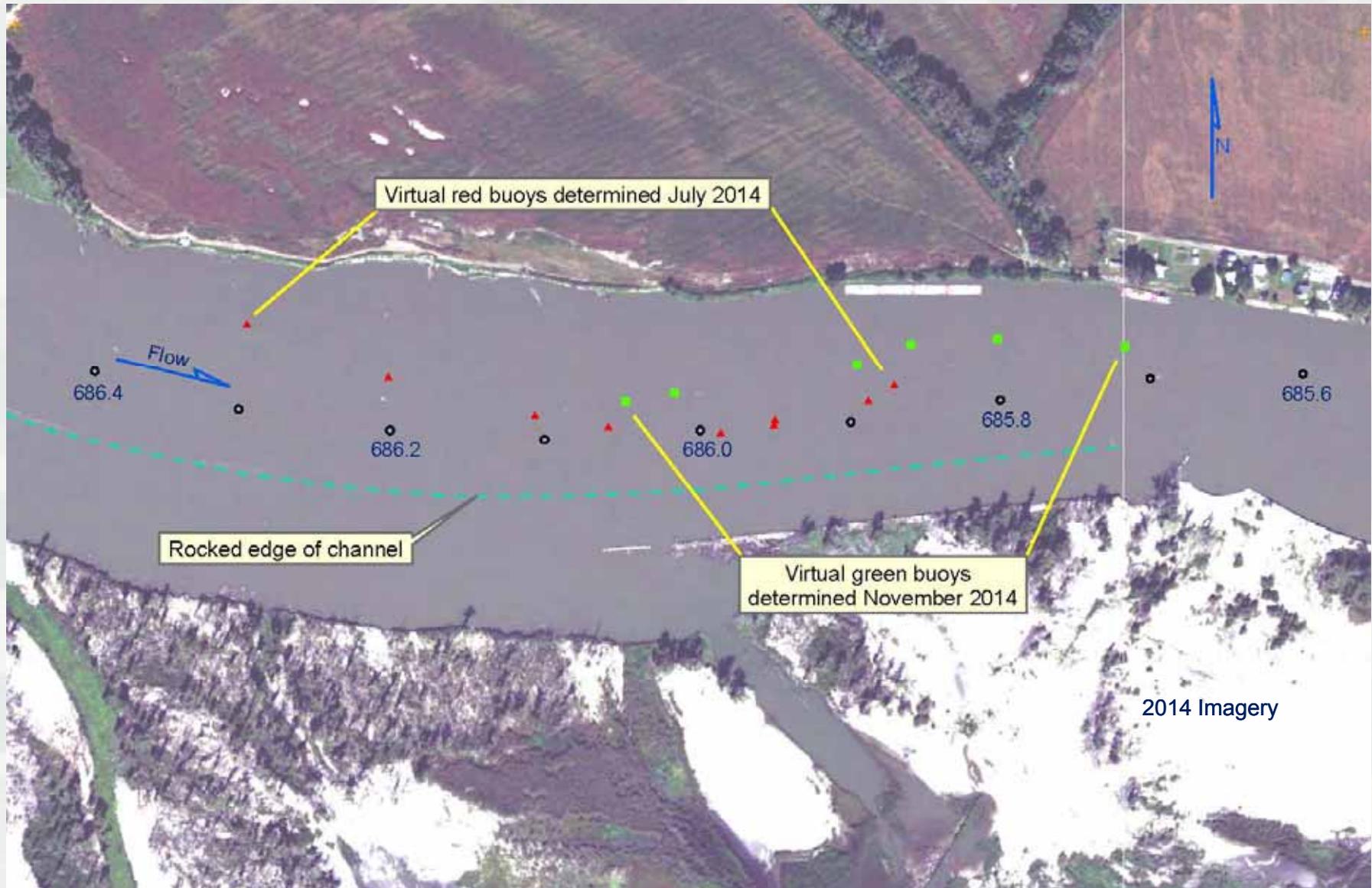
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2014 Work Summary

- Decommissioned structure degrades
- Lower Decatur Bend placed 10,800 tons to address shoal. Also conducted several channel recon missions, defined virtual buoys, conducting modeling to refine design, more work anticipated in 2015
- Total rock placed about 15,000 tons by MRPO
- By Contract (Approximate Totals)
 - ▶ High Priority post-flood repairs below Boyer Bend: 68,000 tons. Focused on Deroin Bend.
 - ▶ Remaining Sites: 71,000 tons.



Lower Decatur Bend Channel Efforts



Significant Channel Work Planned for 2015

- USACE

- ▶ Developing work plan from Dec low water inspection notes
- ▶ Anticipate placement of 30,000 to 40,000 tons of maintenance rock
- ▶ Lower Decatur bend priority

- By Contract

- ▶ Continuation of post-flood task orders about 200,000 tons remain to be placed.



Removing Old Timber Pile from Decommissioned Structure



July 2014



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M/V Missouri Historic Structure Degradation



July 2014



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Unloading Equipment Sioux City Fertilizer Complex



M/V G. F. Engemann – October 2014



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BSNP Contract Repair



Glovers Point Bend – October 2014



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BSNP Contract Repair



Florence Bend – September 2014



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Upbound Loads – Middle Little Sioux Reach



M/V Allison Marie – October 2014



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Off-channel Project Support Vessel



Deer Island – December 2013



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M/V Sondra Rene Pushing Rock for Revetment Repairs in Manawa Bend



November 2014
Mile 607



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Material Transfer at Nebraska City



M/V G.F. Engemann - October 2014



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Questions



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