

Maintain Wetland and Floodplain Flood Storage in Calculating, Routing, and Accommodating Flood Flows



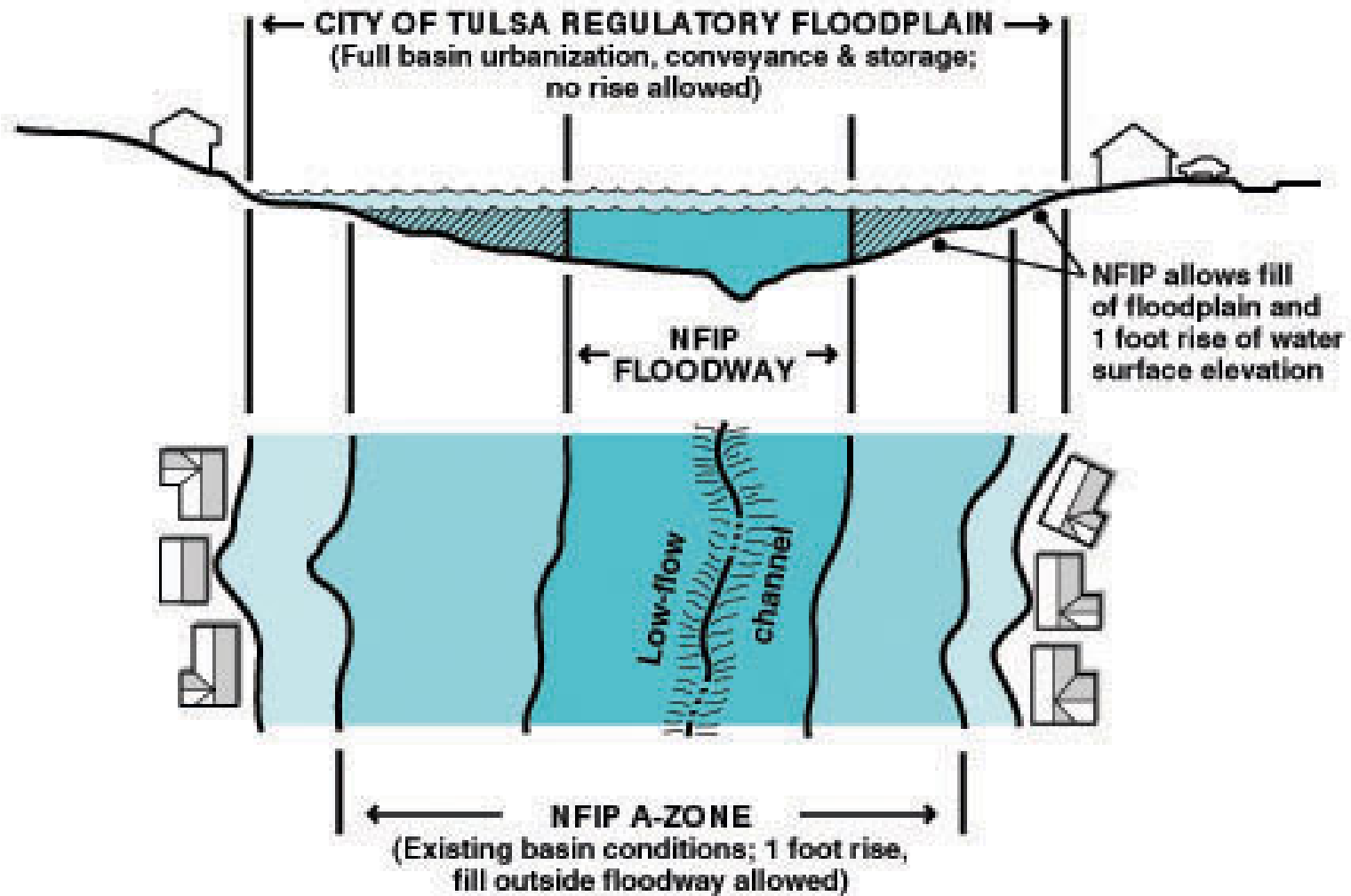


Floodplain marsh in non-flooded conditions....



... and the same marsh in flooded conditions.

Adopt Zero Rise Floodways



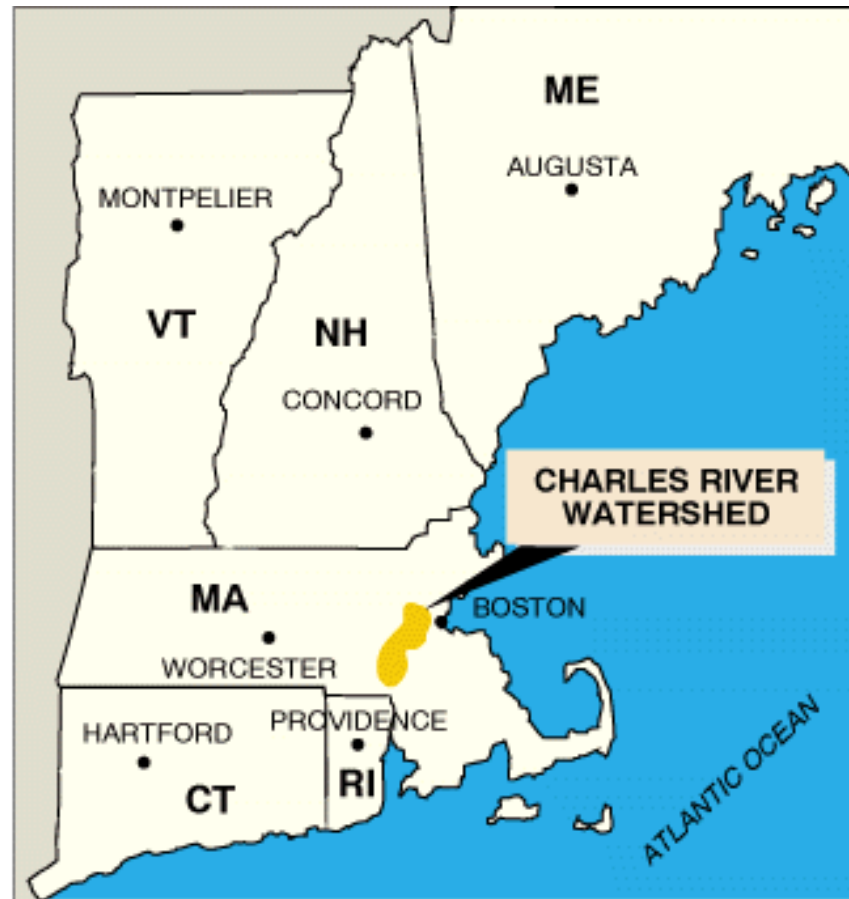
Strengthen Wetland and Floodplain Regulations

- Strengthen the hazard element of wetland regulatory permitting (federal, state, local) and the ecological element of floodplain regulatory permitting
 - Tightly regulate fills
 - Regulate to the 200-year flood or add freeboard
 - Designate areas behind levees as subject to flooding consistent with residual risk
 - Protect wetlands

Provide Updated Floodplain Maps to Wetland Managers, Updated Wetland Maps to Floodplain Managers



Acquire Wetlands and Floodplains as Flood Storage and Conveyance Areas: Example: Charles River Wetland Acquisition





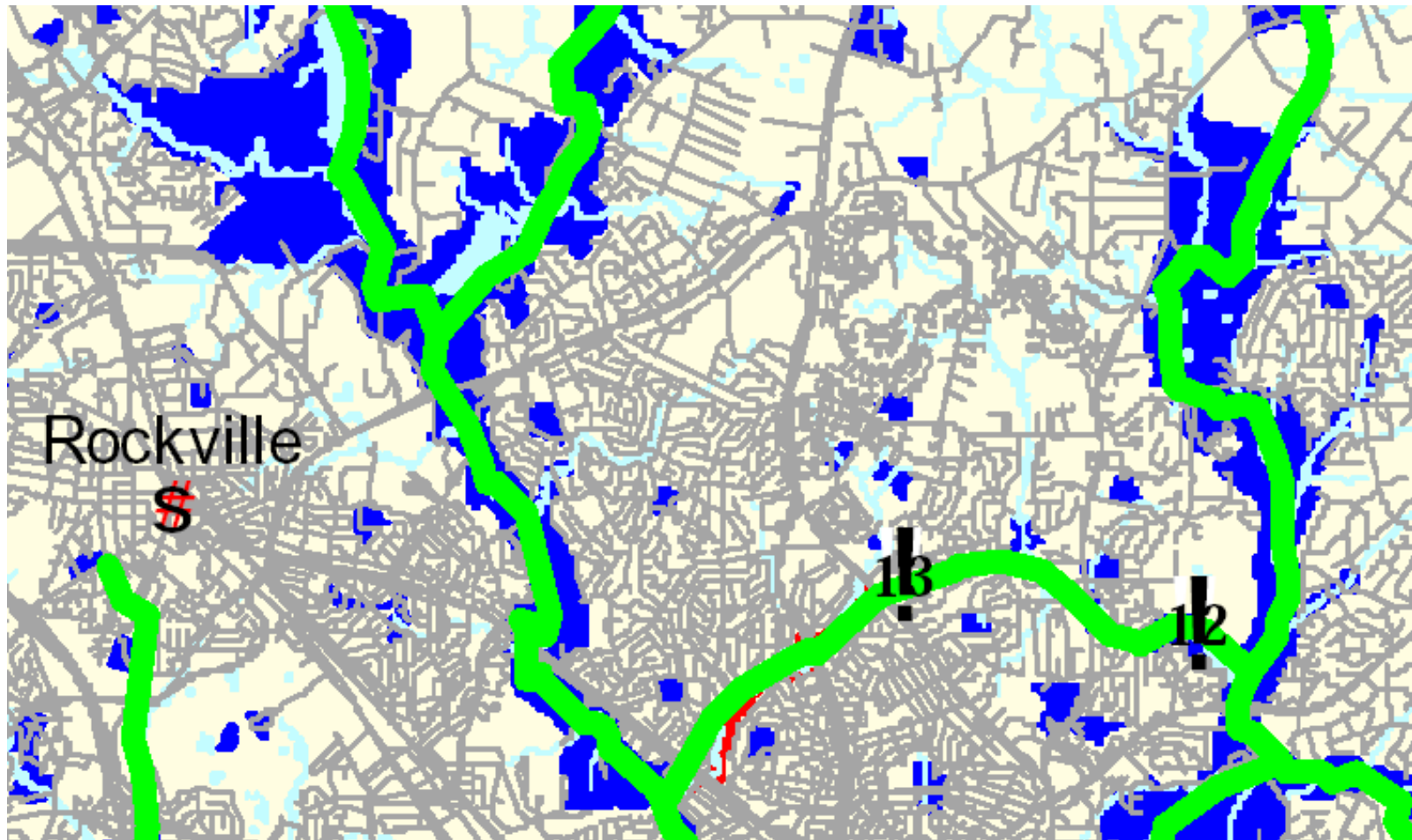
Clear Structures in Floodways, Floodplains



Integrate Wetlands Into Flood Control Projects



Create Multiobjective Greenways for Floodplain, Wetland, Riparian Areas



Restore or Create Wetlands In New Stormwater Management Facilities; Retrofit Existing Stormwater Management Facilities

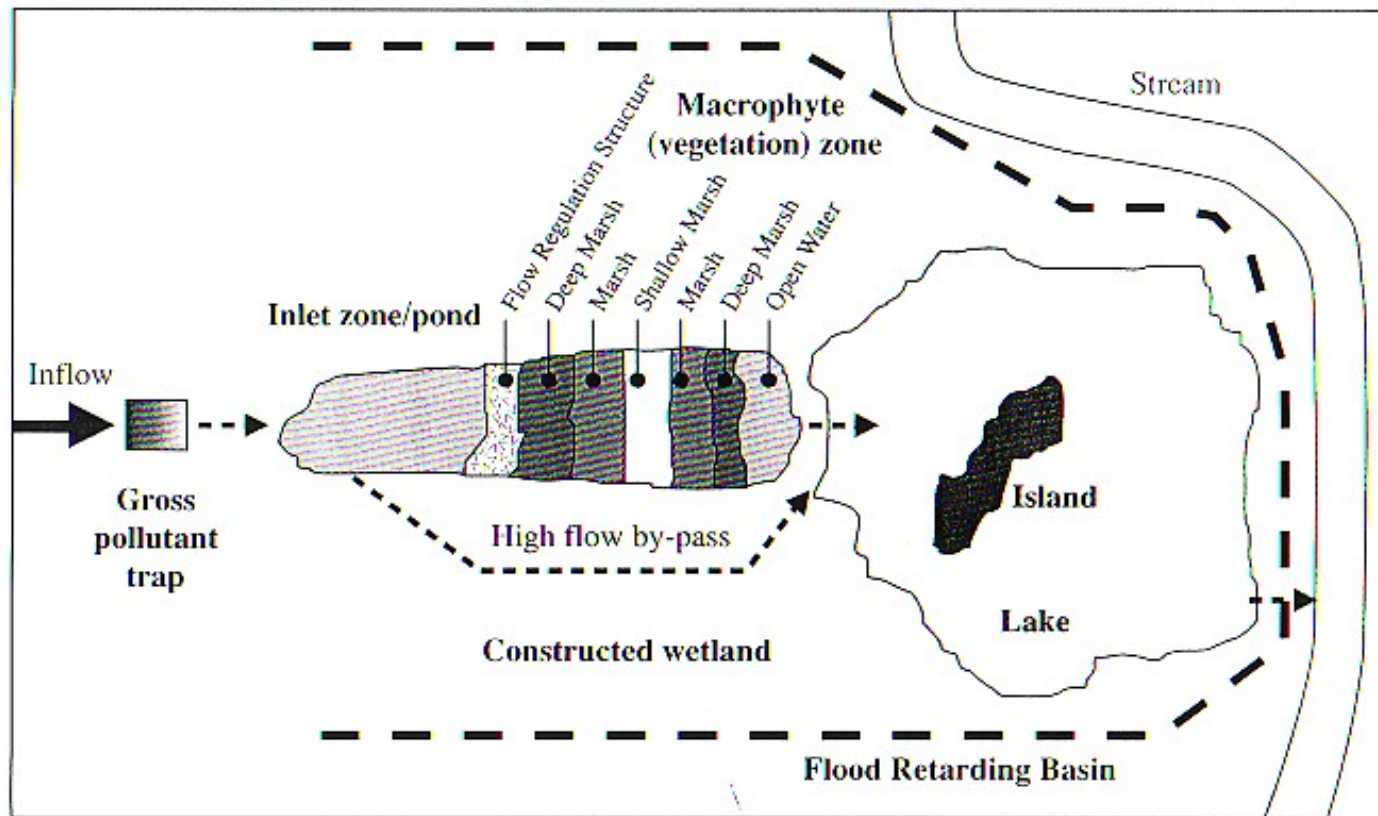
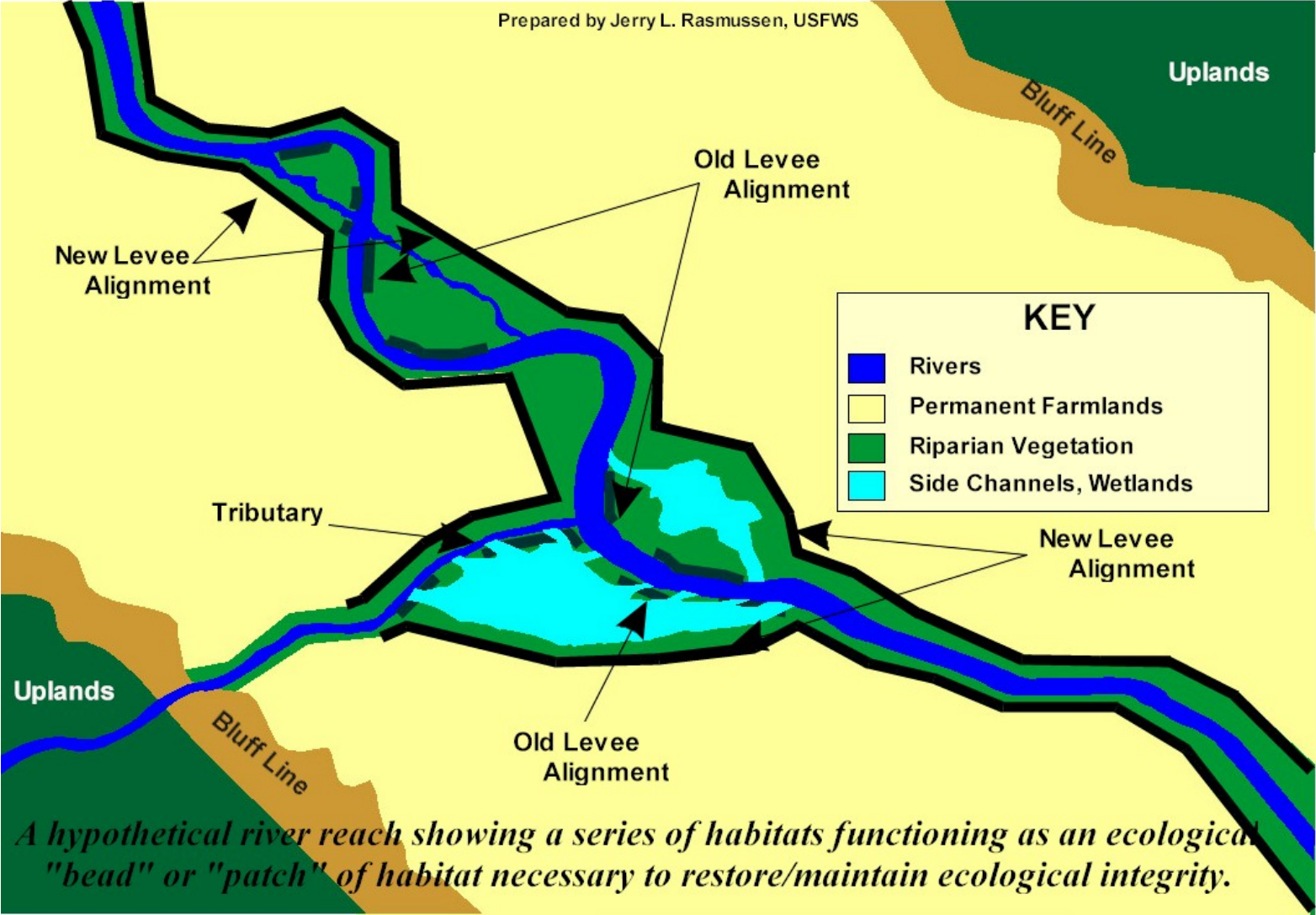


Figure 1: Modular elements in an integrated stormwater management system

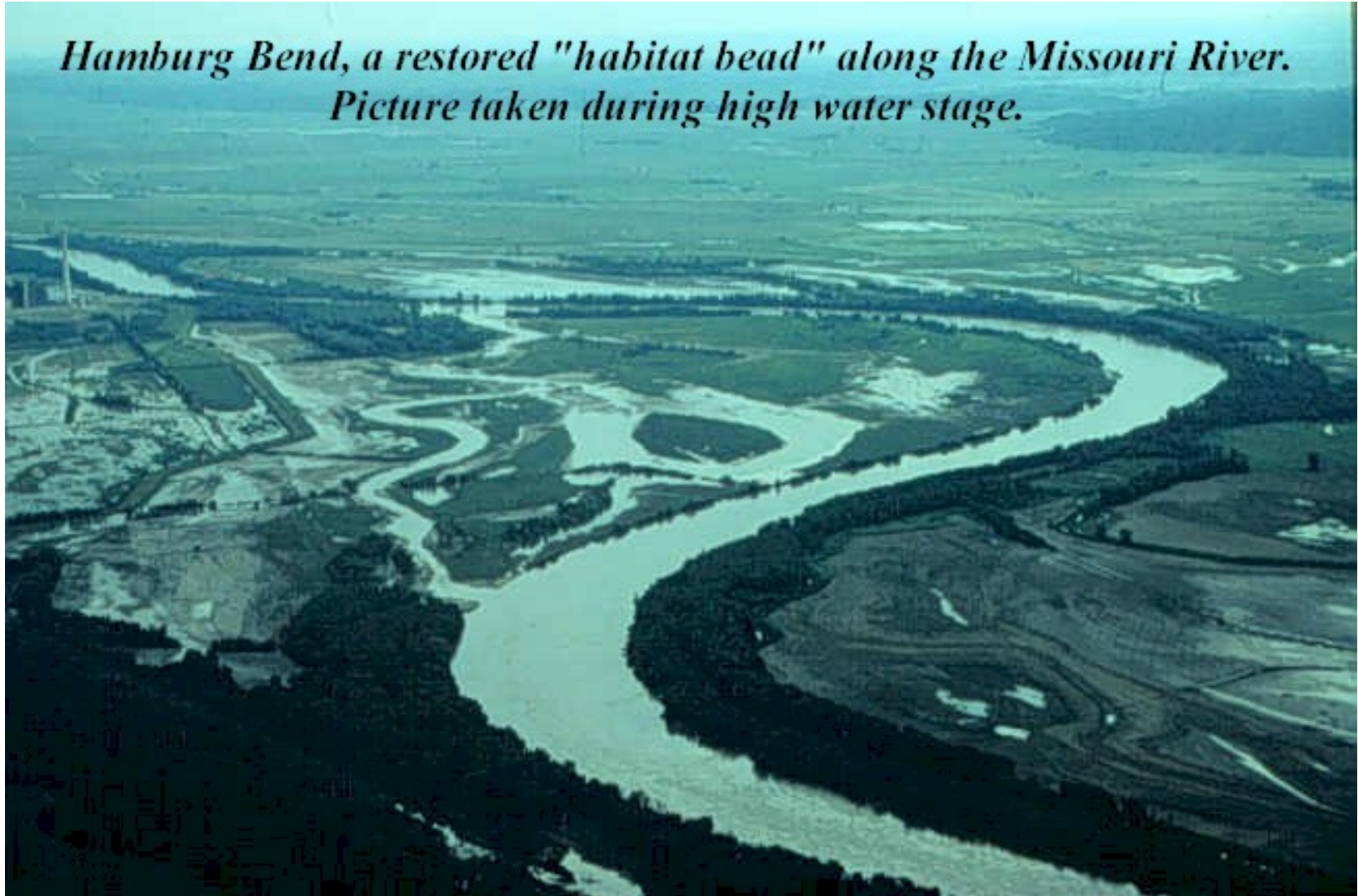
Do Not Repair or Breach Levees: Louisa 8



Construct Setback Levees



*Hamburg Bend, a restored "habitat bead" along the Missouri River.
Picture taken during high water stage.*



Create/Restore Wetlands With Dredge Spoil



Implement Sediment and Floodwater Diversions



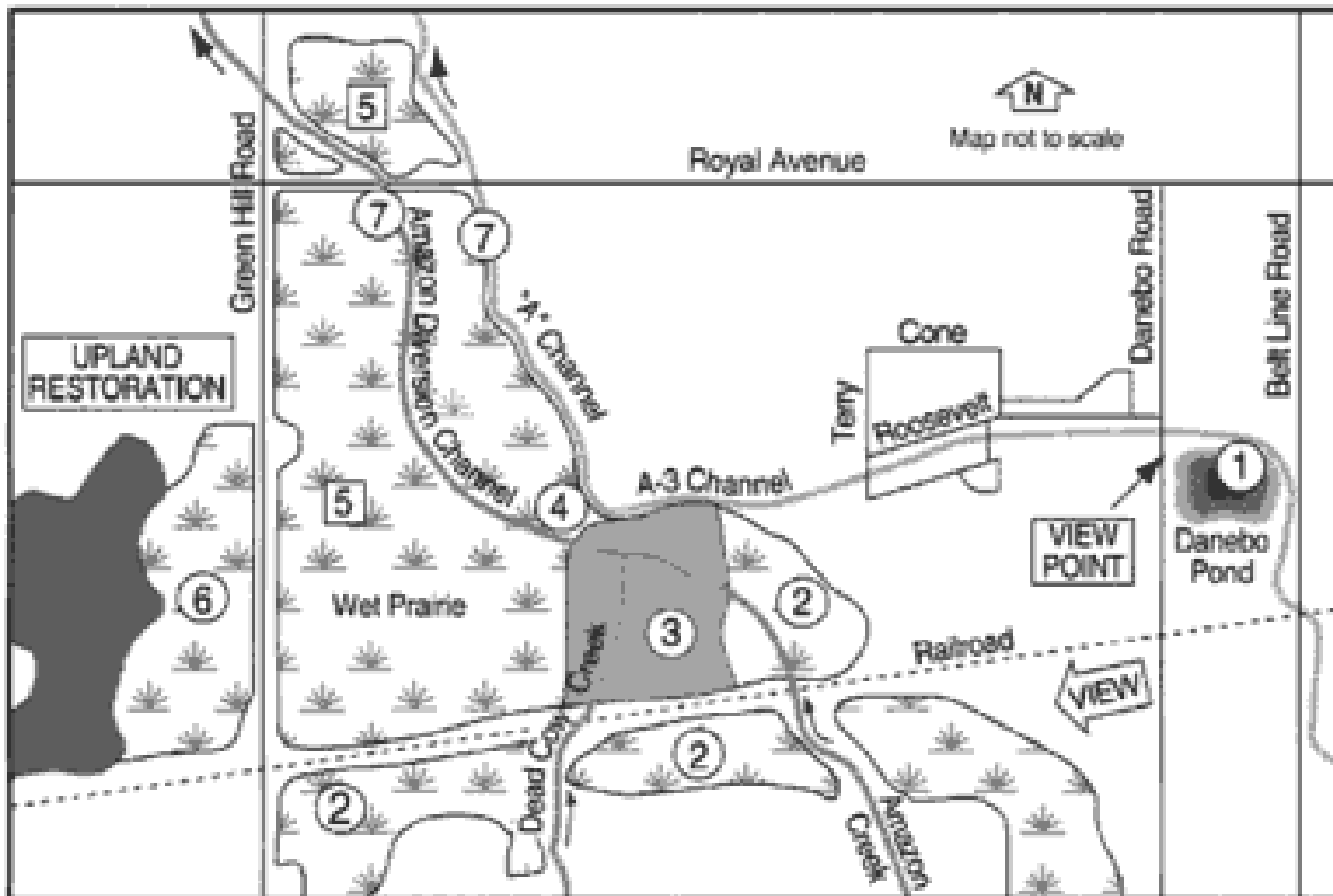
After Restoration



Restore Floodplains, Wetlands and Riparian Areas to Reduce Flood/Erosion Losses While Restoring Natural and Beneficial Functions



Protect Floodplains and Wetlands While Reducing Flood Losses as Part of Community Comprehensive Planning, Smart Growth, Green Infrastructure Initiatives



CONCLUSIONS: INTEGRATED APPROACHES HAVE MUCH TO OFFER

To implement integrated approaches, communities need

- Creative “out of the box” thinking
- Willingness to go beyond FEMA minimum standards
- A “vision” for community floodplains
- Multiobjective planning and management
- Building upon and utilizing floodplain and wetland natural and beneficial functions
- Multi-agency and multi-group involvement
- Communication and cooperation

LEGISLATIVE ACTIONS FOR NEW YORK

To encourage integrated approaches, the N.Y. legislature should :

- Help better fund community and state floodplain and wetland mapping, floodplain monitoring, technical assistance,
- Establish clear multiobjective goals for floodplain management.
- Provide DEC with the power to review of all permits within designated floodway areas and the power to take over floodplain development permitting from local communities which fail to enforce the requirements of the National Flood Insurance Program.
- Require variable stream buffers for rivers and streams.
- Better protect wetlands. Fill the gap created by the 12.4 limit acre limit on state regulation.

THANKS!

