

A topographic map of the Albany area, showing a floodplain highlighted in shades of blue and purple. The map includes a grid and a road. The word "Albany" is written in a small, light-colored font on the right side of the map.

# Albany Area Floodplain Habitat and Stream Assessment - Stakeholder Team Meeting

**Troy Brandt**  
**Peter Gruendike**



# Presentation Outline

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- Introductions
- Objectives of Meeting
- Willamette River Inundation Mapping
- Data Collection, Analysis and Maps
- Stakeholder Review
- Project Identification/Prioritization Framework
- Next Steps

# CWC and City of Albany Goals

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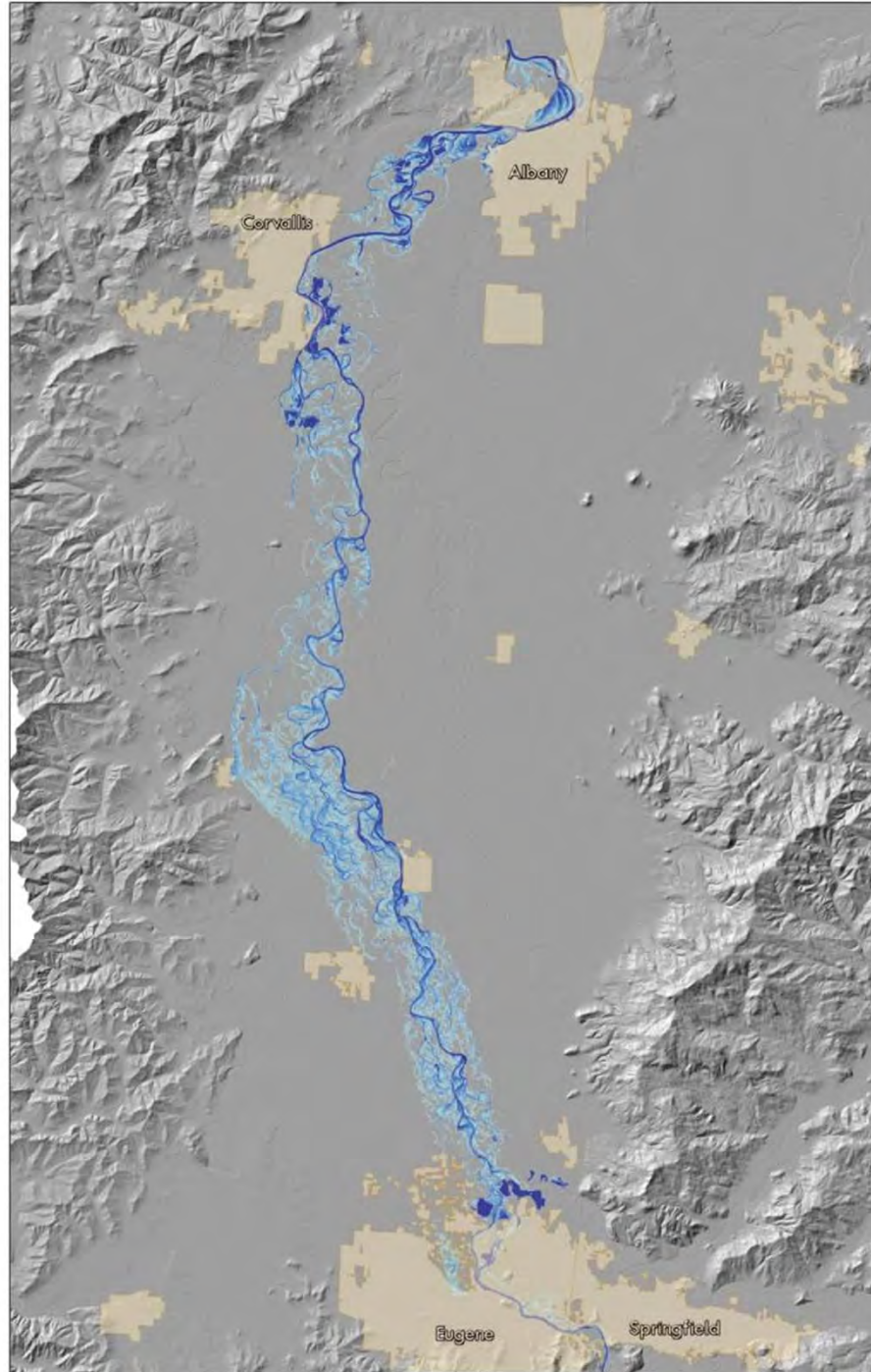
- Enhance river corridor habitats for anadromous species
- Restore riparian function
- Involve local landowners in data collection, project prioritization

# Willamette River Modeling

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- RDG working with stakeholder group to provide flood inundation maps
- Tool for restoration planning
- Application to Albany reach
  - Inundation of floodplain habitats
  - Assist in prioritizing conservation/restoration opps.

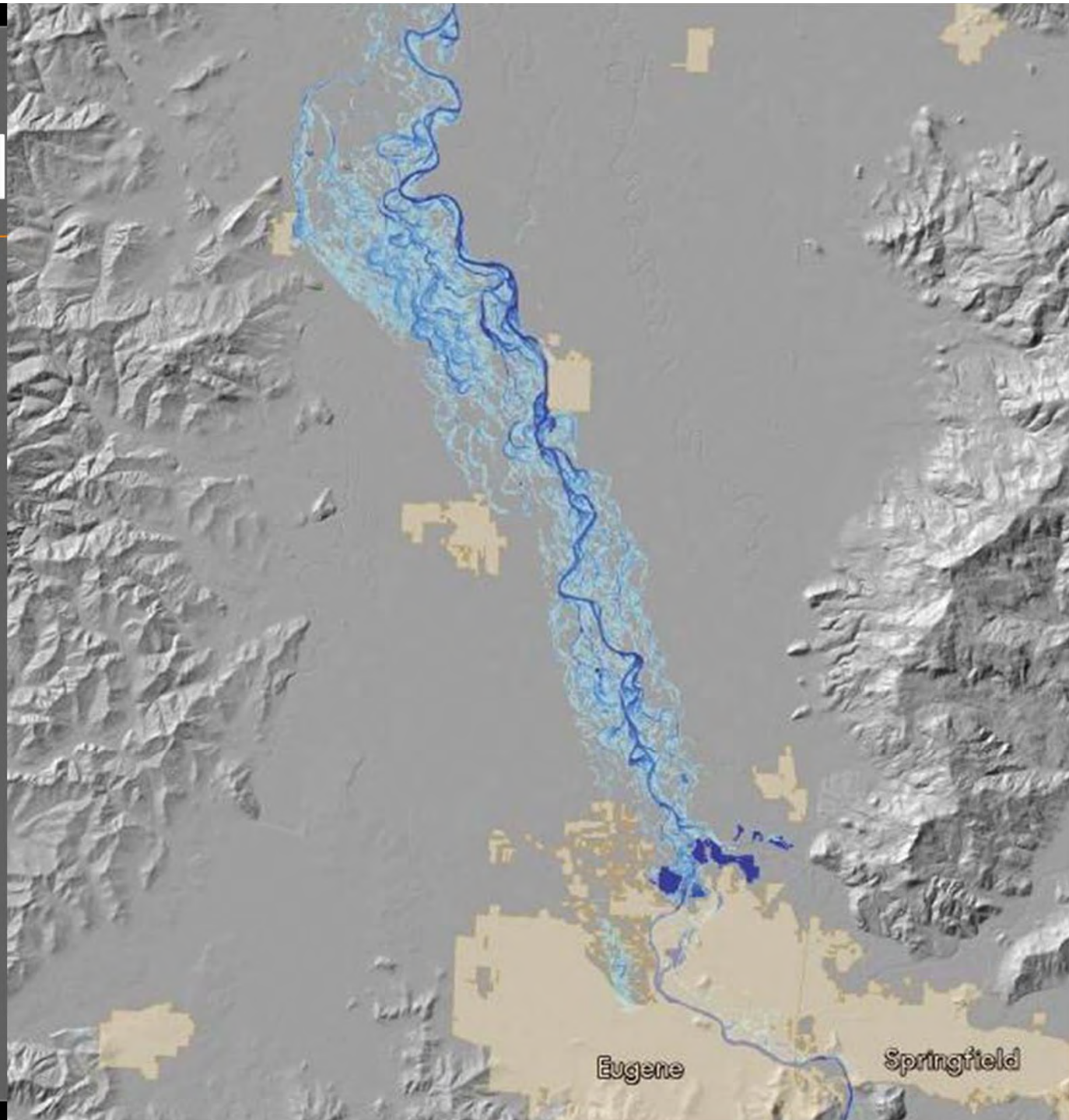
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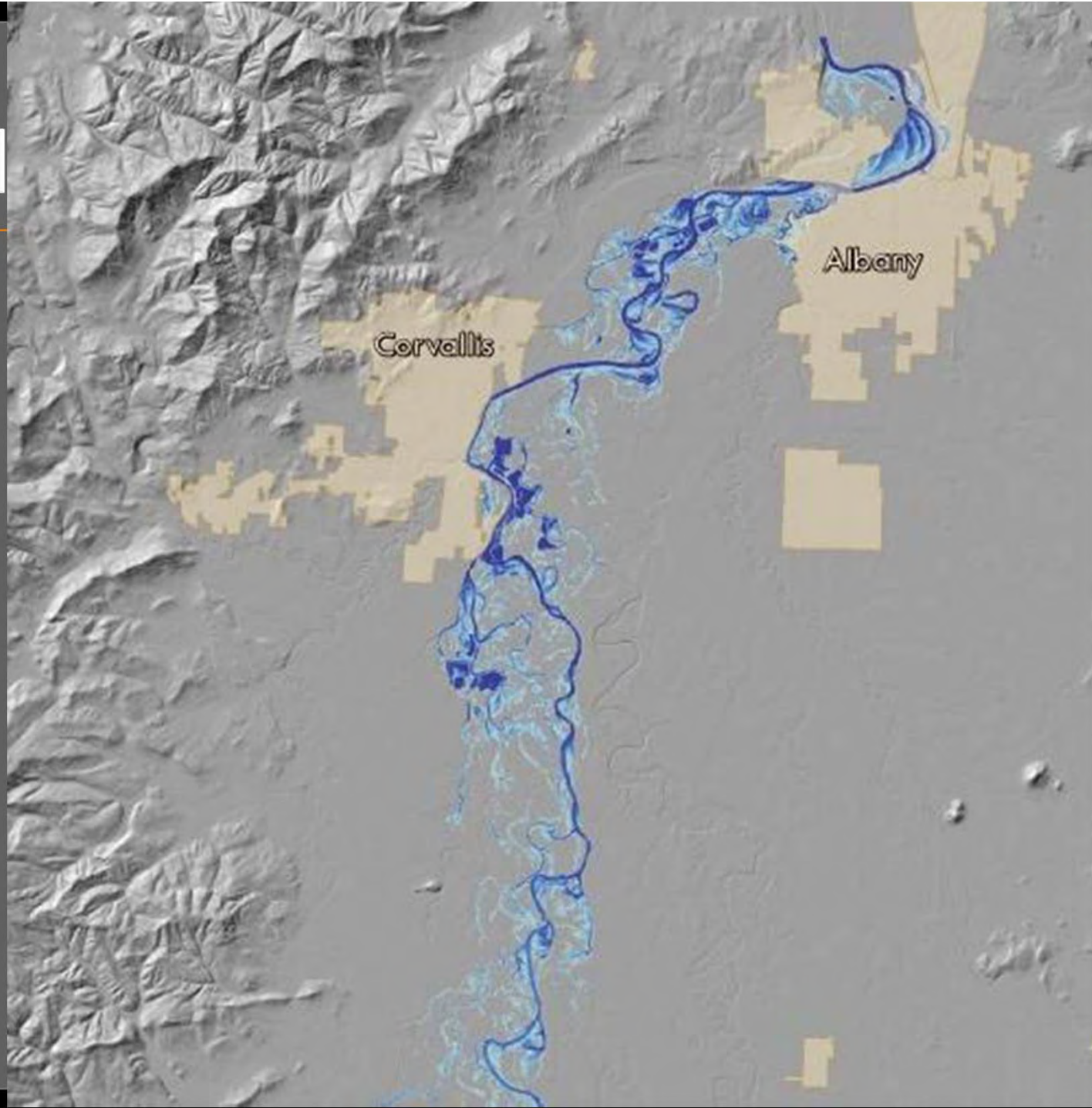
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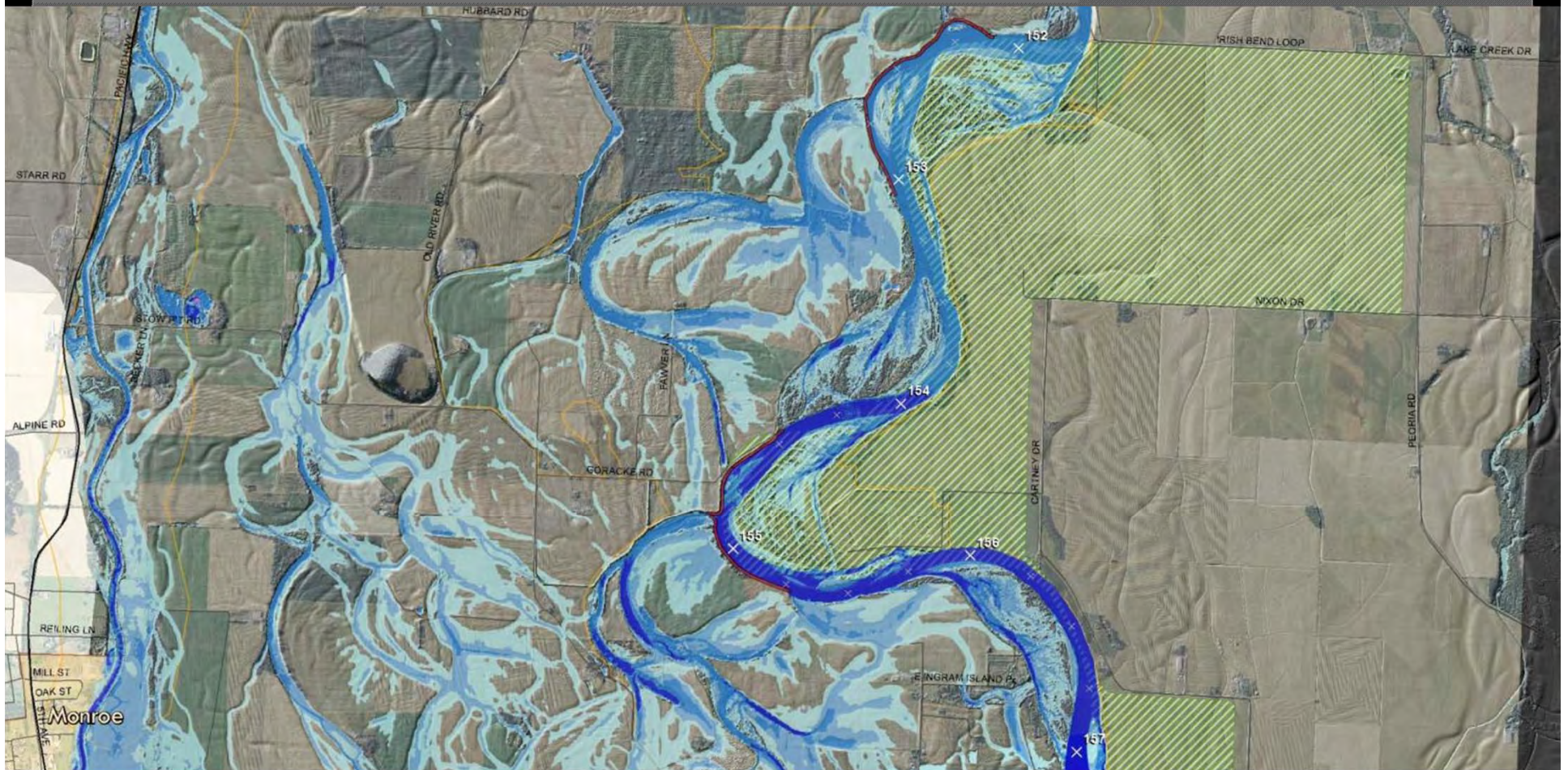
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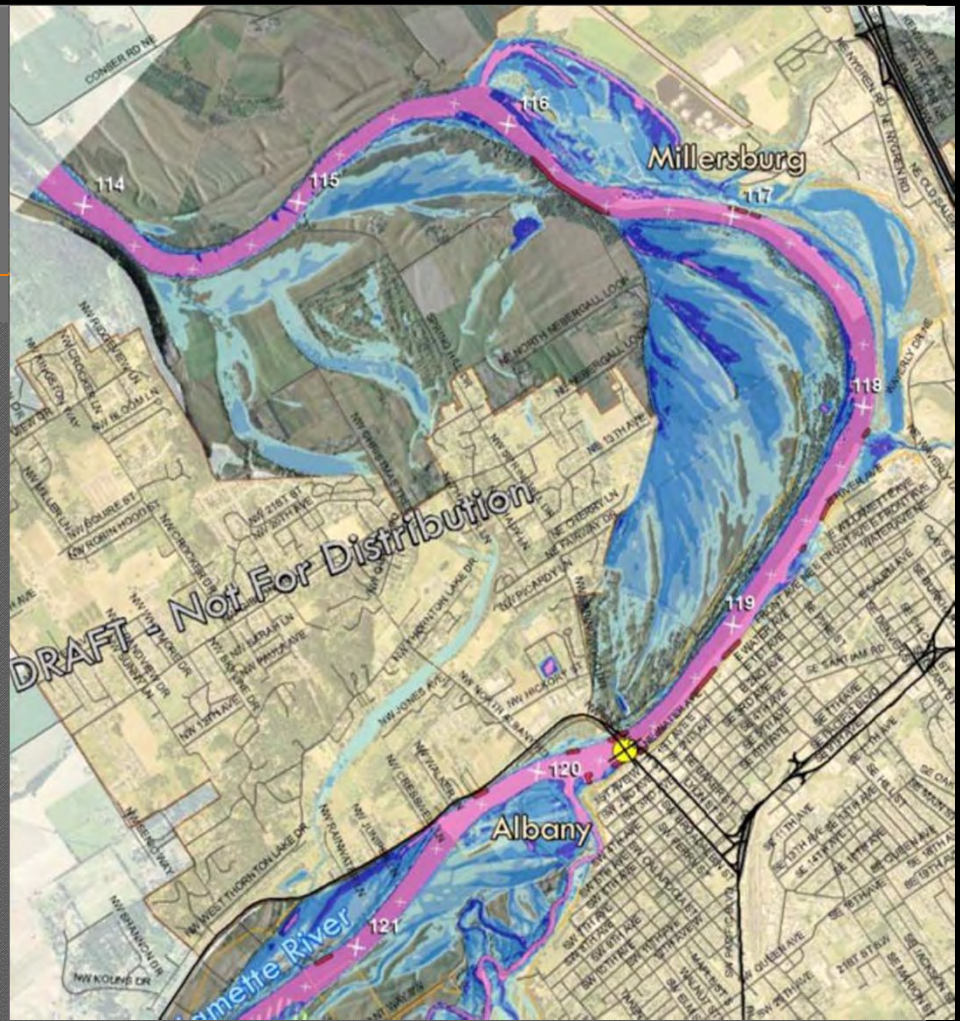
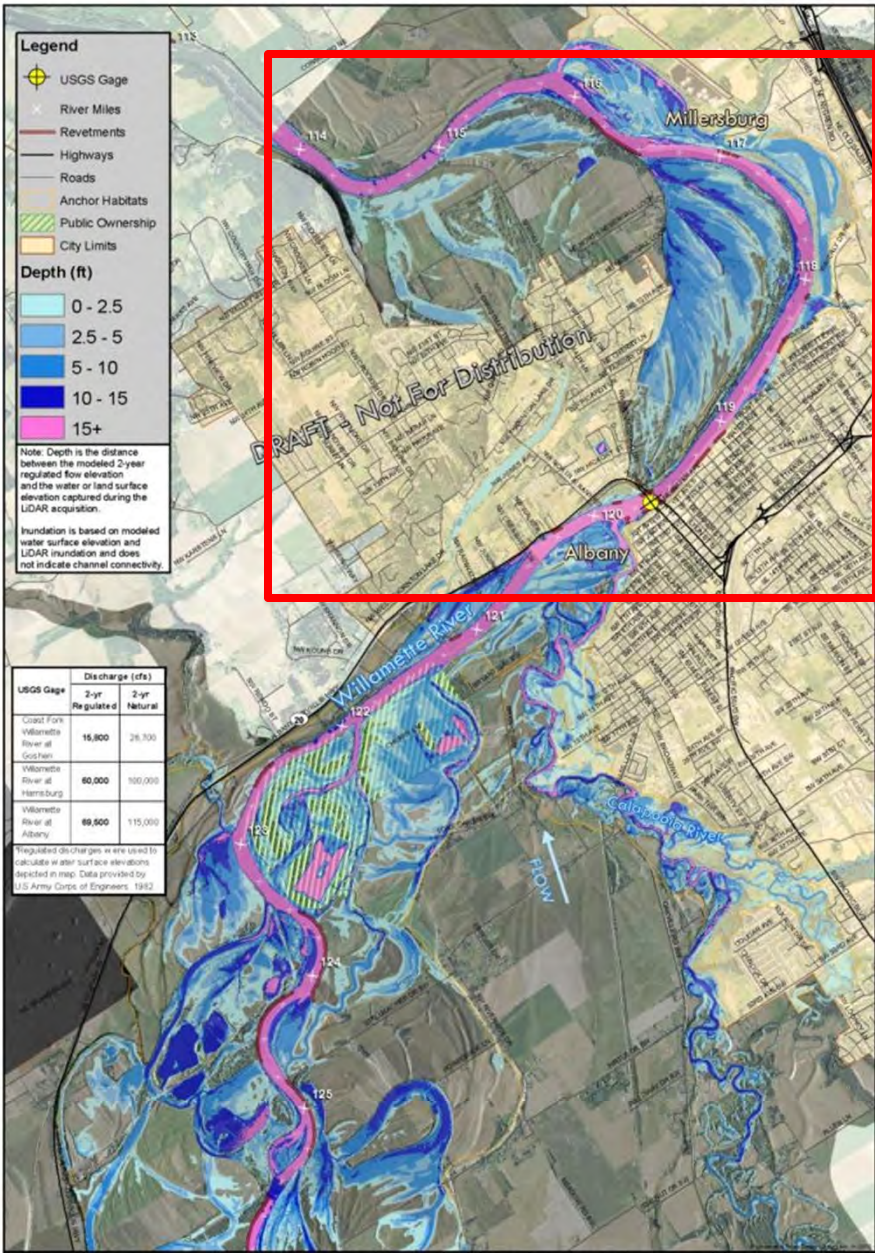


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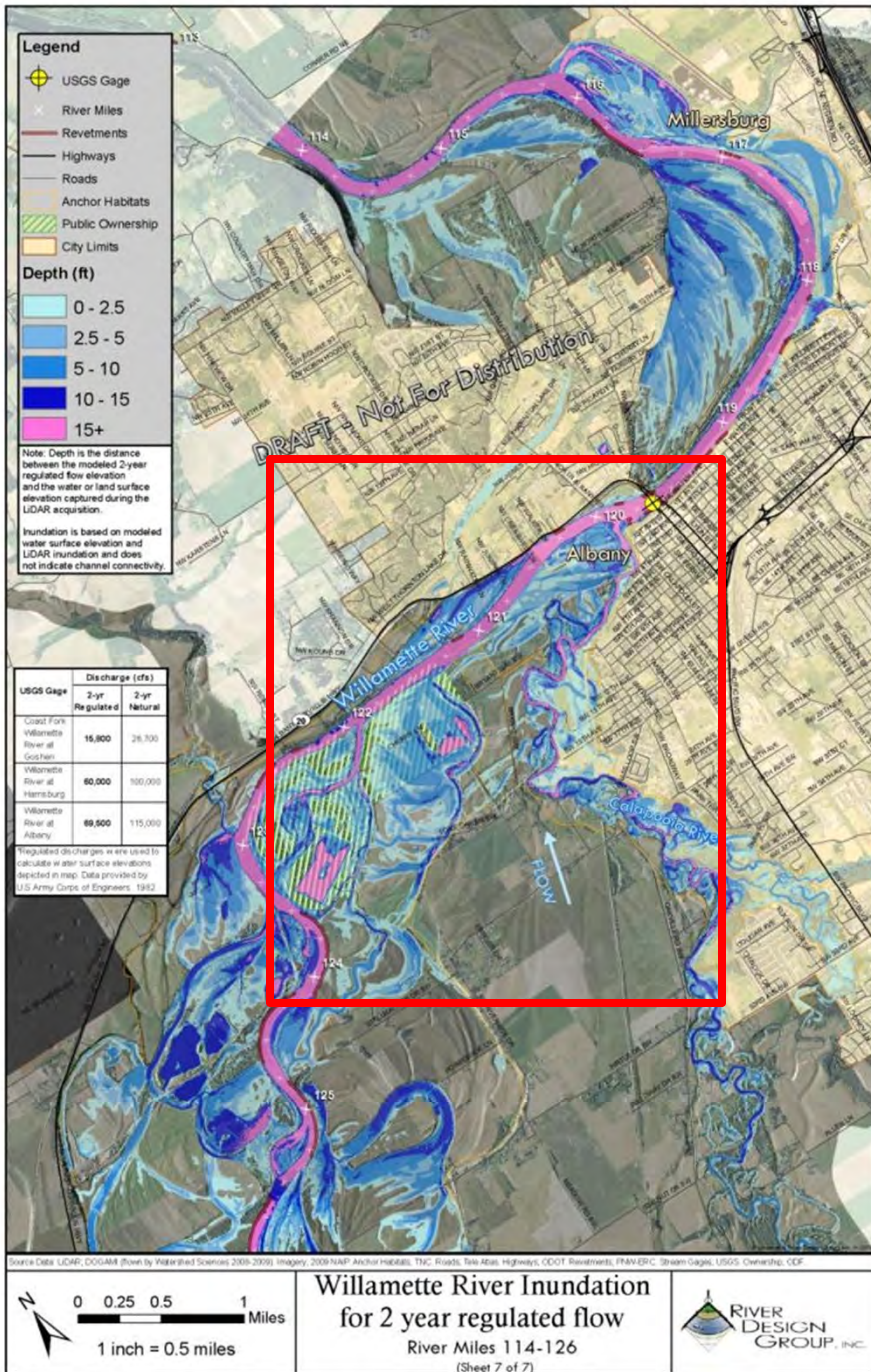
# Channel-Floodplain Interaction







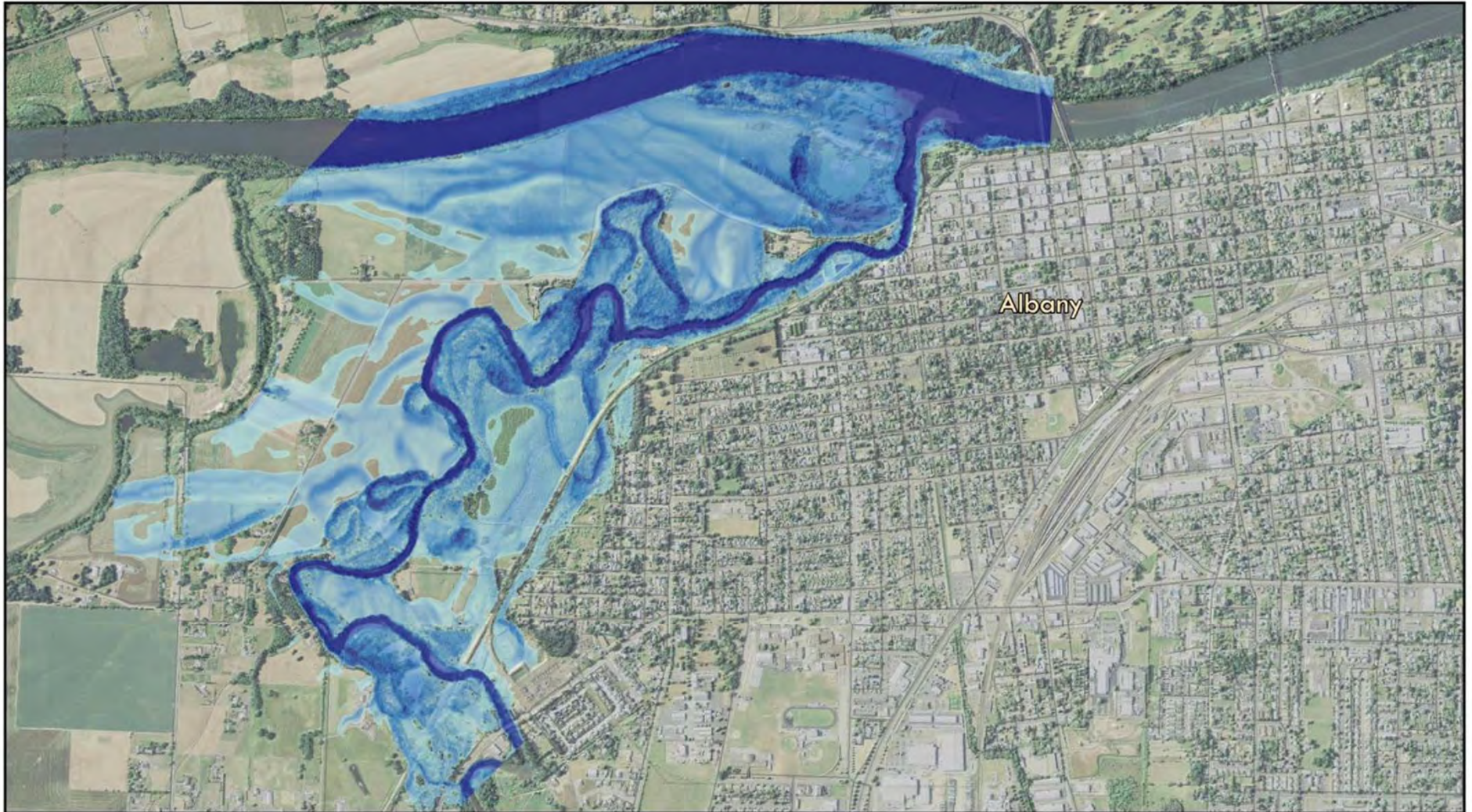
# Albany Panel



# Calapooia River

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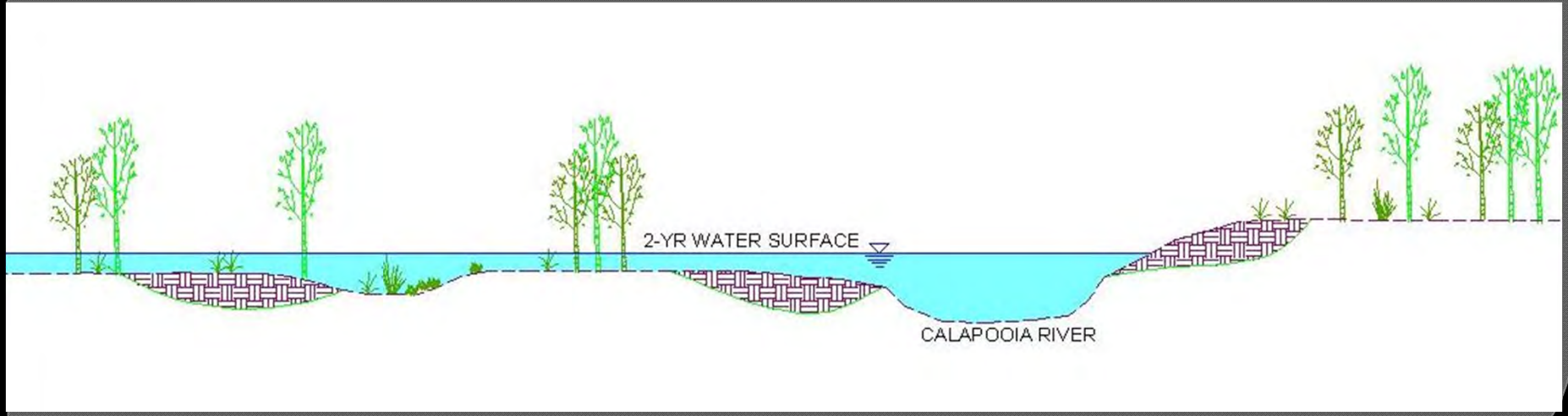
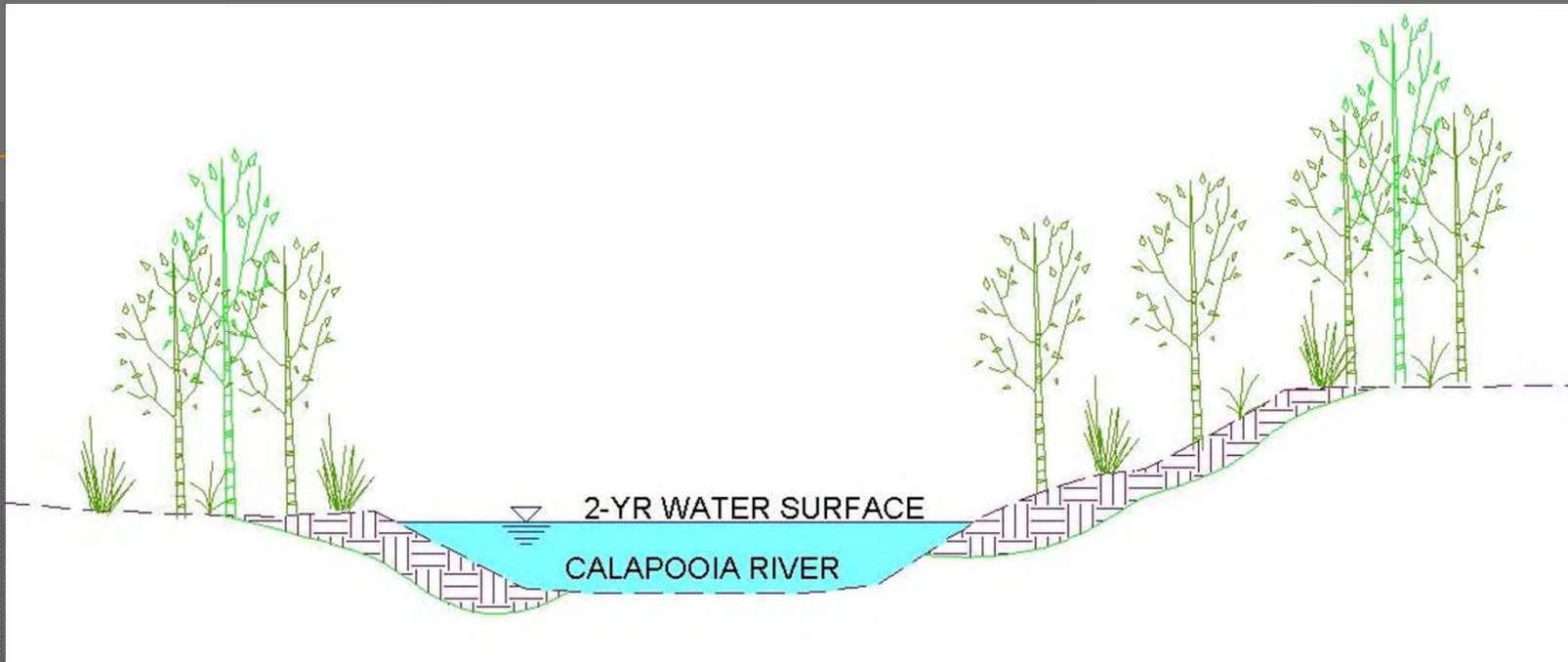
- Inundation mapping for 2-year event
- Historical air photo analysis



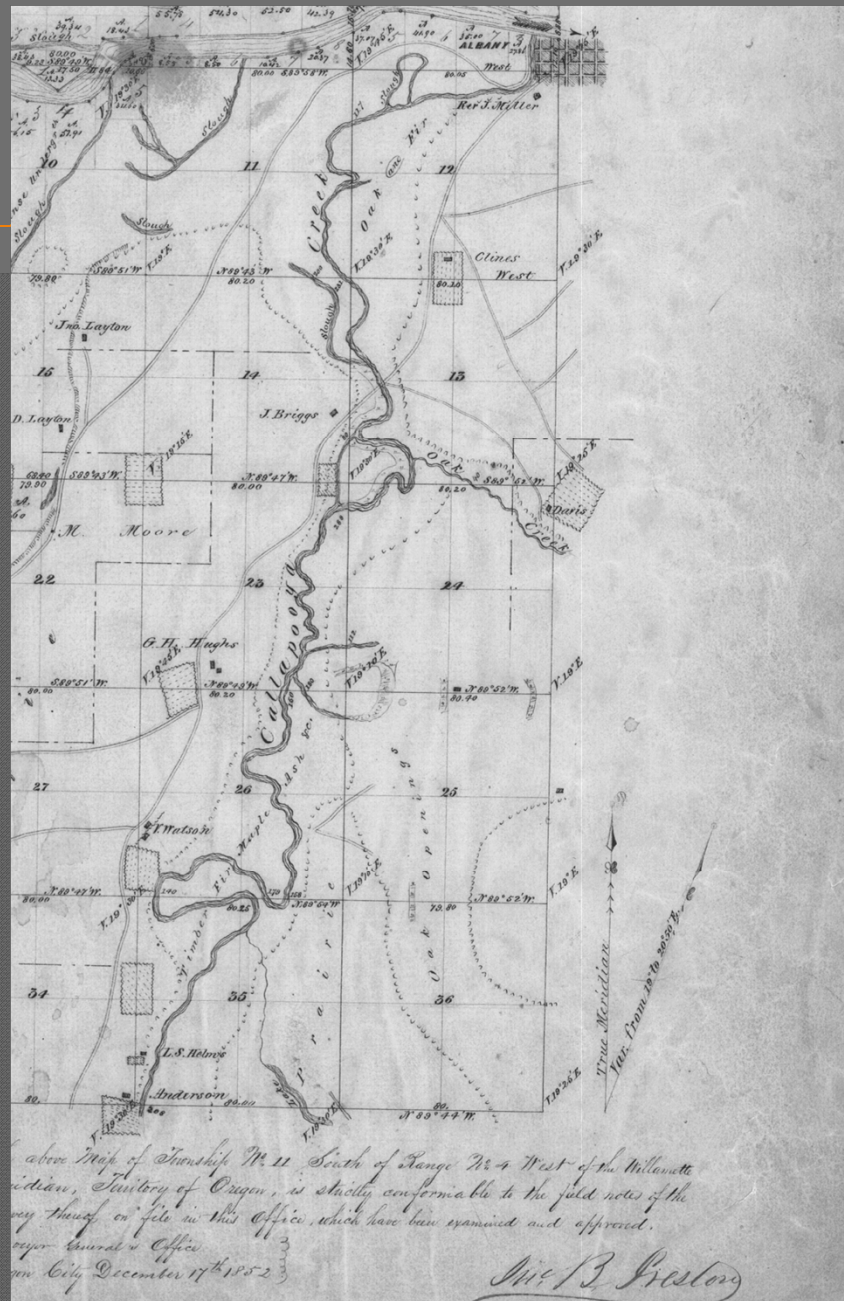
Albany

**Depth at 12,500 cfs**  
Calapooia River near Albany, Oregon





# Photos



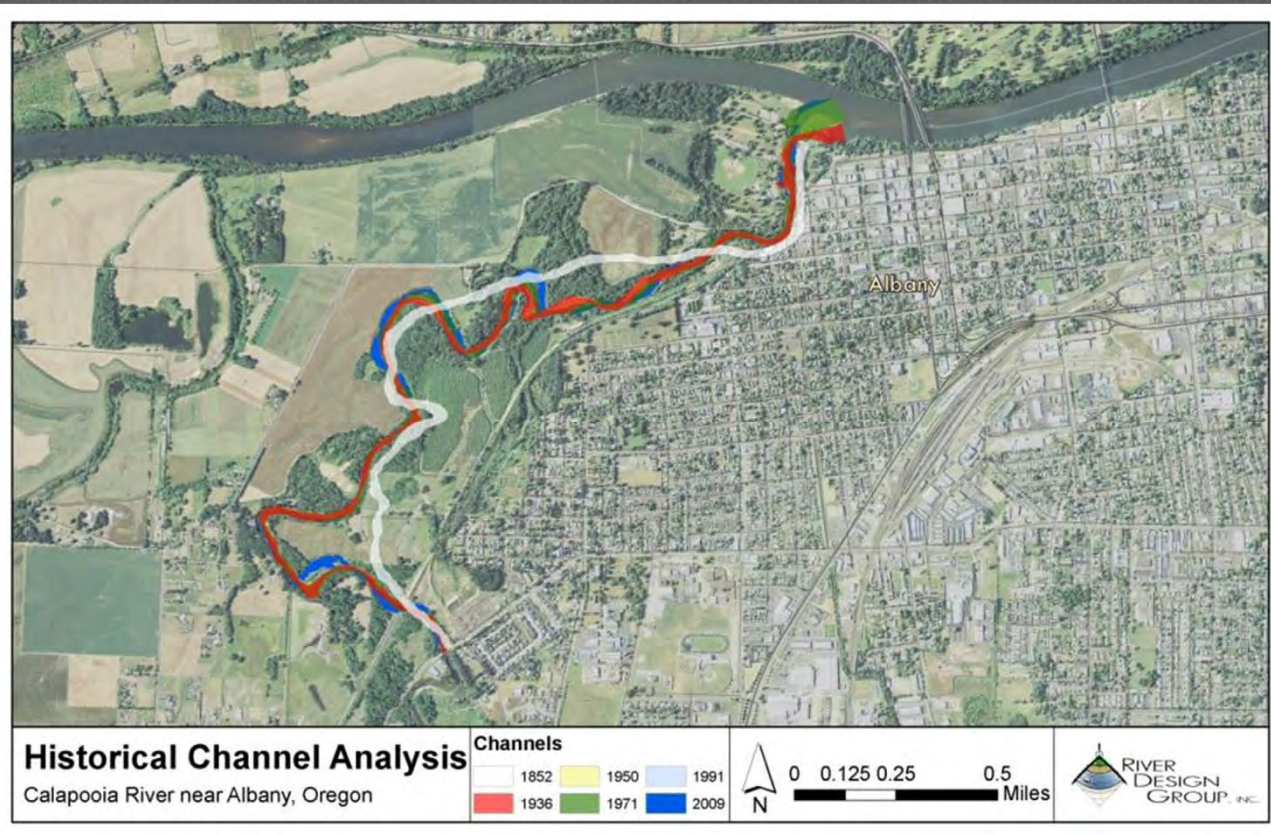
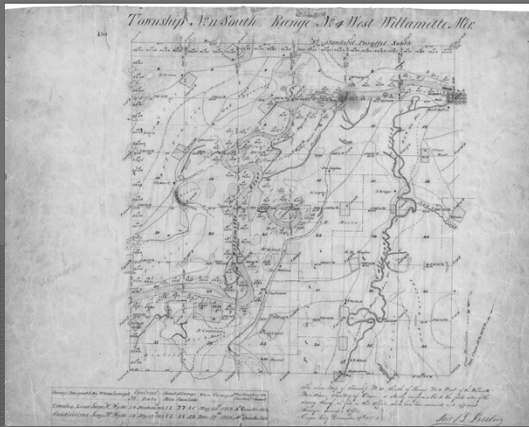


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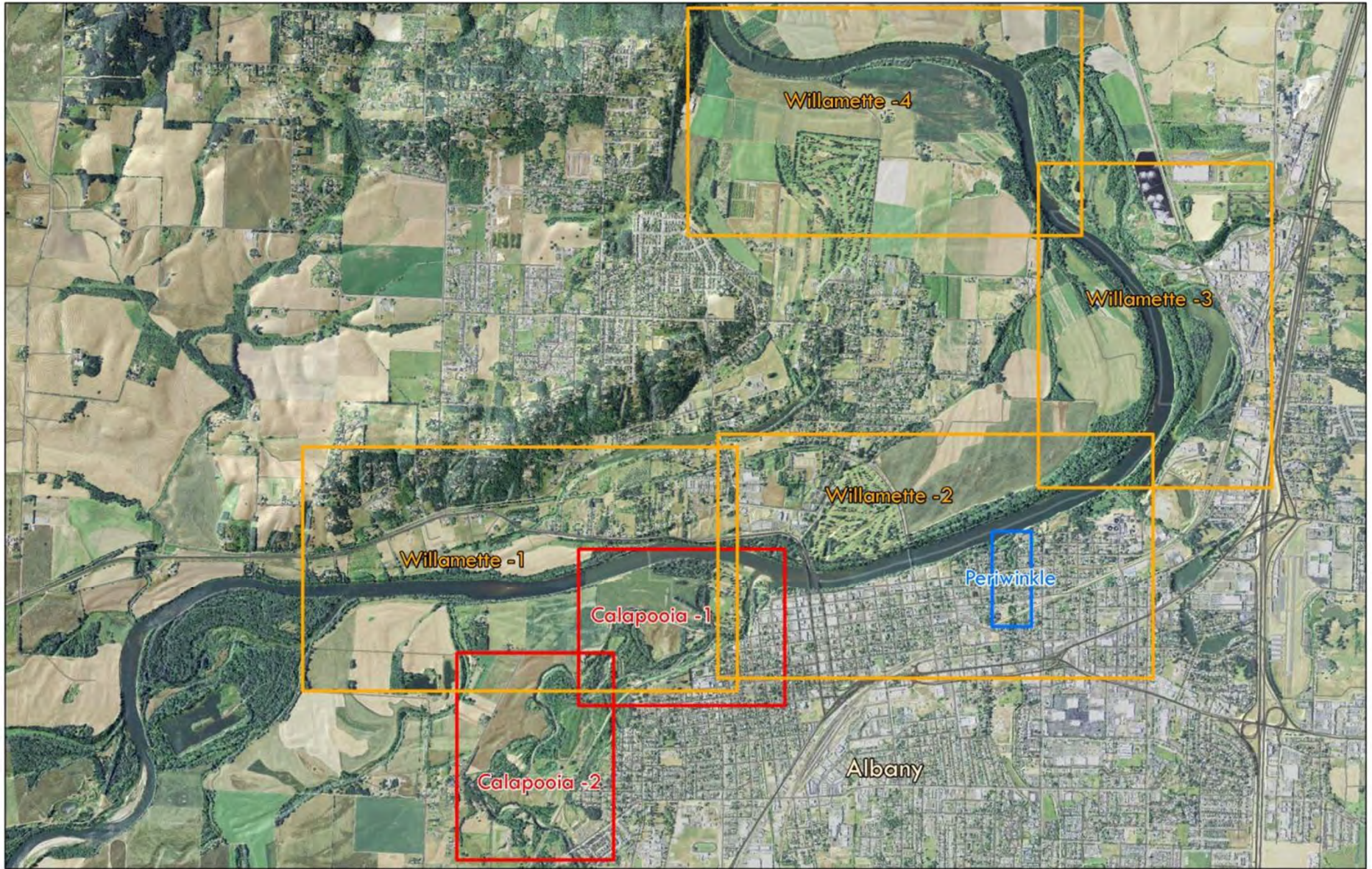




# Field Assessment

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- Lower Calapooia River (~3 miles)
- Calapooia-Willamette confluence
- Periwinkle Creek confluence
- North Albany side channels and the Thornton Lake Natural Area
- Albany waste water treatment wetlands



# Field Data Collection

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- ◉ CWC and City of Albany led effort
- ◉ Teams assessed conditions
- ◉ Provided field data and photos to RDG
- ◉ RDG completed float during high water
- ◉ Transfer to GIS platform for visualization

# Field Photos







# Data Synthesis

Pt_Number	Waterbody	Date	Note_Taker	Observer	Site_Type	Start_Sta	End_Sta	Waypoint	Location	Start_Photo	End_Photo
E1	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	165	165		RR	1256	1251
E2	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	160	155		RL	1252	1251
E3	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	151	145		RR	1249	1245
E4	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	133	133		RL	1233	
E5	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	126	120		RR	1229	1223
E6	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	120	117		RR	1224	
E7	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	114	114		RL	1222	
E8	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	103	103		RR	1219	
E9	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	101	101		RR	1217	
E10	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	96	93		RL	1213	
E11	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	87	87		RL	1207	
E12	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	84	84		RL	1205	
E13	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	74	74		RR	1203	
E14	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	61	60		RL	1199	
E15	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	59	54		RL	1198	
E16	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	52	0			1194	
E17	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	48	48		RR	1193	
E18	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	45	45		RR	1191	
E19	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	42	34		RR	1190	1189
E20	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	35	32		RL	1187	
E21	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	19	17		RR	1177	1176
E22	Calapooia	8/3/2010	Pam Archer	Tara Davis	E	11	9		RR	1175	
H1	Calapooia	8/3/2010	Alex Farrand	Karen Hans	H	168		100	RR	863	
H2	Calapooia	8/3/2010	Alex Farrand	Karen Hans	H	161		101	RL	864	
H3	Calapooia	8/3/2010	Alex Farrand	Karen Hans	H	159		102	RL	865	
H4	Calapooia	8/3/2010	Alex Farrand	Karen Hans	H	161		103	RR	866	
H5	Calapooia	8/3/2010	Alex Farrand	Karen Hans	H	156		104	RL	867	
H6	Calapooia	8/3/2010	Alex Farrand	Karen Hans	H	156		105	RC	868	
H7	Calapooia	8/3/2010	Alex Farrand	Karen Hans	H	151		106	RL	869	



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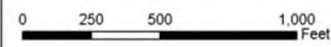




**Legend**

- \* Habitat
- Infrastructure
- Erosion
- ▲ Stabilization

Calapooia River, Field Panel 1







- Legend**
- taxlots
  - Bank
  - Wetland
  - Riparian
  - Off Channel

Calapooia River, Field Panel 2



# Project Prioritization Framework

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- Prioritize projects based on big picture goals
  - Channel-floodplain connectivity
  - Off-channel habitat access
  - Flood storage
  - Determine cost – benefit of project categories

# Calapooia Summary

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- Large wood complexes and side channel habitat
- Intact riparian corridor
- Dynamic floodplain habitats
- Eroding banks at perimeter of CMZ
- Opportunities
  - Expand riparian zone
  - Enhance off-channel habitats
  - Stabilize banks for utility protection

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# Periwinkle Conclusions

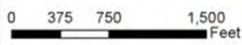
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- Urbanized stream with likely limited upstream habitat potential
- Confluence area beneficial for juveniles and adults
- Clean up and education greatest opportunities
- Fish ladder appears to be operational

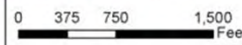




Willamette River, Field Panel 3



Willamette River, Field Panel 4



# Willamette River Conclusions

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- Quality channel margin habitat – LWD & veg
- Invasive species, old stabilization projects
- Assessment on North Albany Ponds and Thornton Lake Area yet to be completed