Summary of Bear River Floodplain Analysis: Cheese Factory Bridge to Oneida Narrows Reservoir

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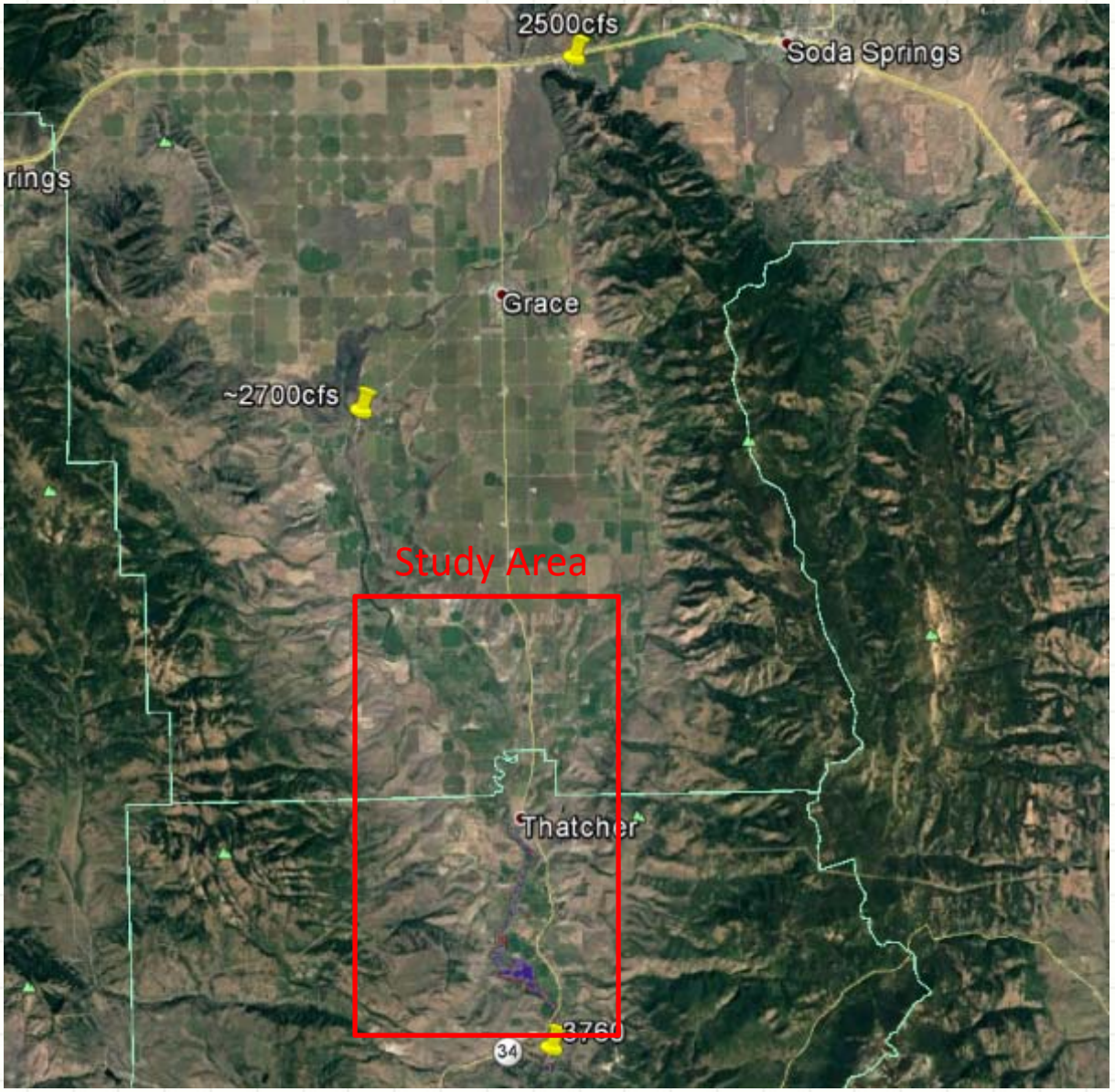
Grace, Idaho

Presented on behalf of PacifiCorp

Primary Project Objectives

1. Develop a hydraulic computer model and associated floodplain maps that can be used to define areas that will be inundated by a 2,500 cfs release from the Soda Power Plant (3,000 cfs within the study reach).
2. Evaluate the potential effects that dredging sediment deposits in the Bear River near the Cottonwood Creek confluence would have on the river water surface elevation and associated floodplain.

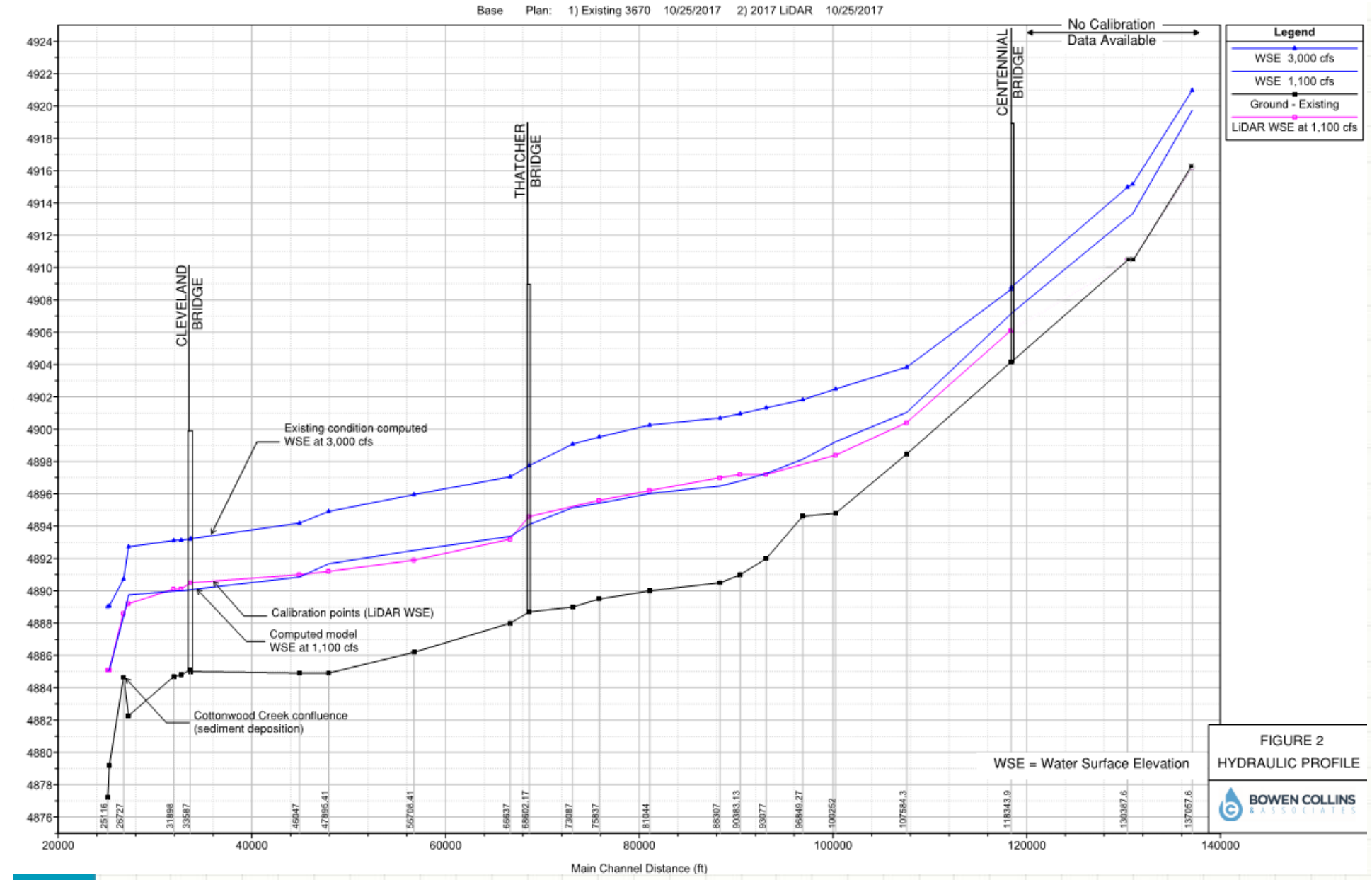


Basis of Study Flows

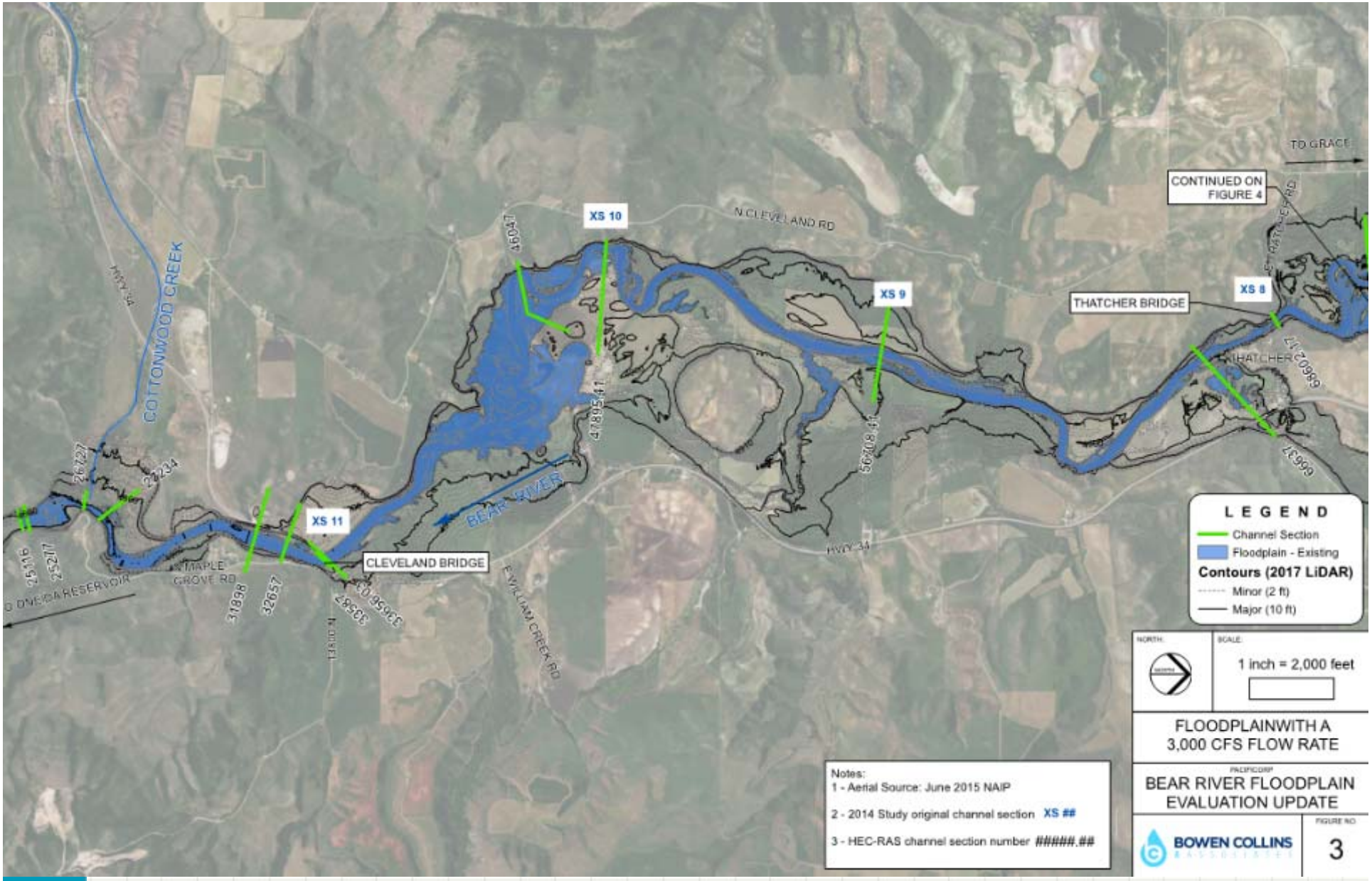
Hydraulic Computer Model Key Elements

- Channel/floodplain geometry (topographic data)
- Flow data (magnitude, dynamic or static)
- Geometric data on key hydraulic structures
- Channel/floodplain roughness coefficients
- Model boundary conditions (starting conditions)

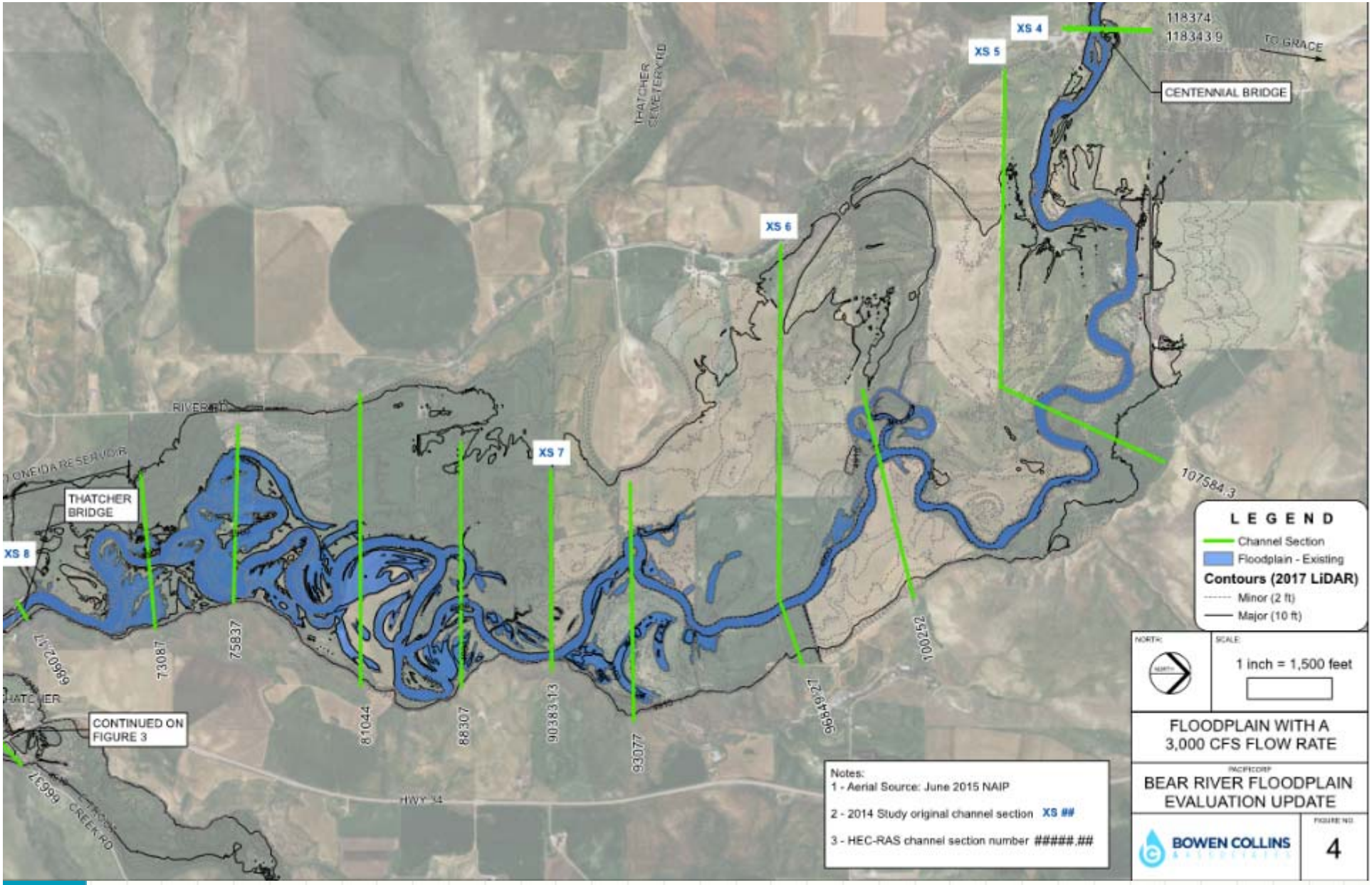
Calibration – model reasonably simulates observed field conditions



Hydraulic Profile of Study Reach



Floodplain with 3,000 cfs Discharge



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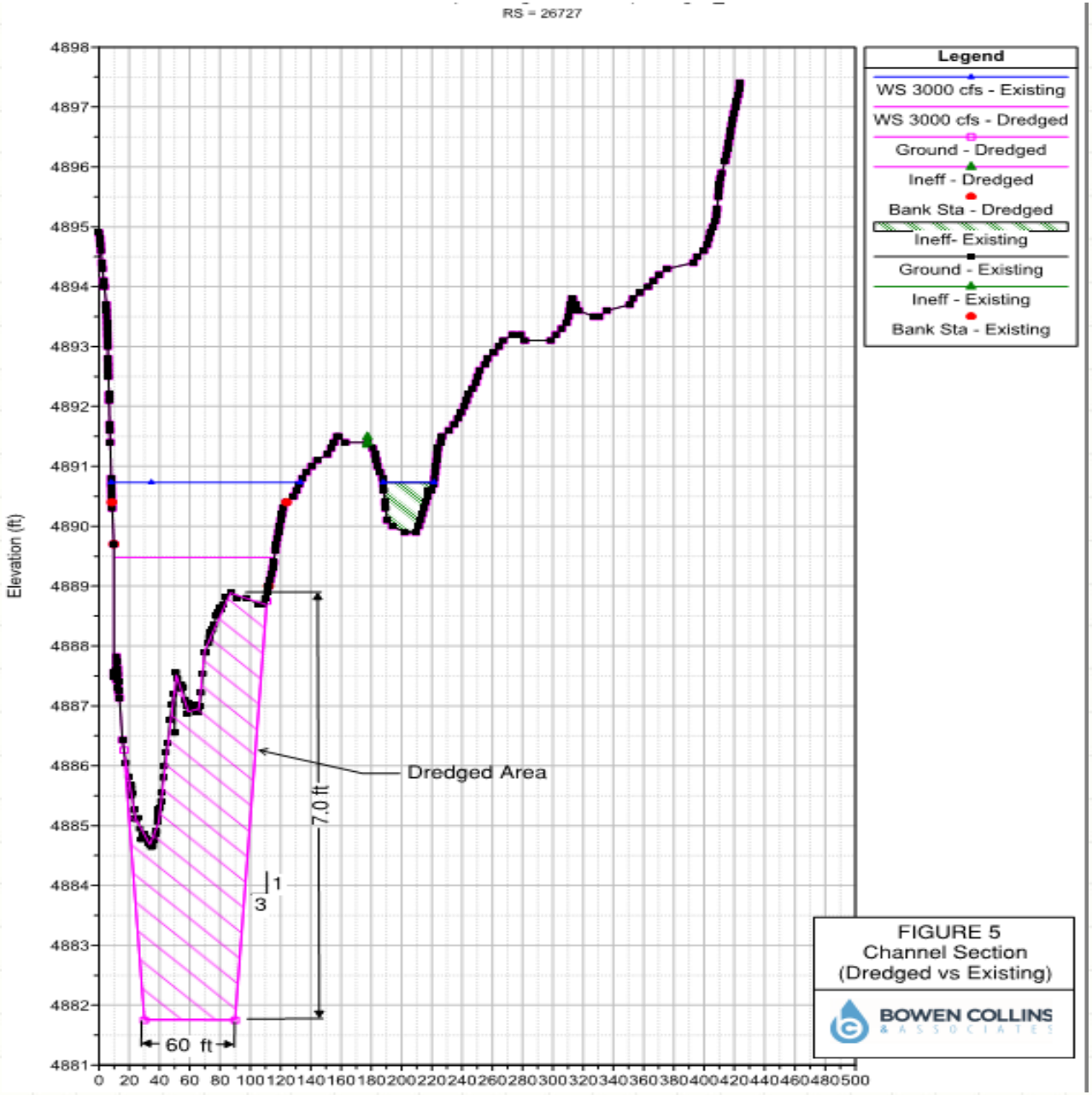
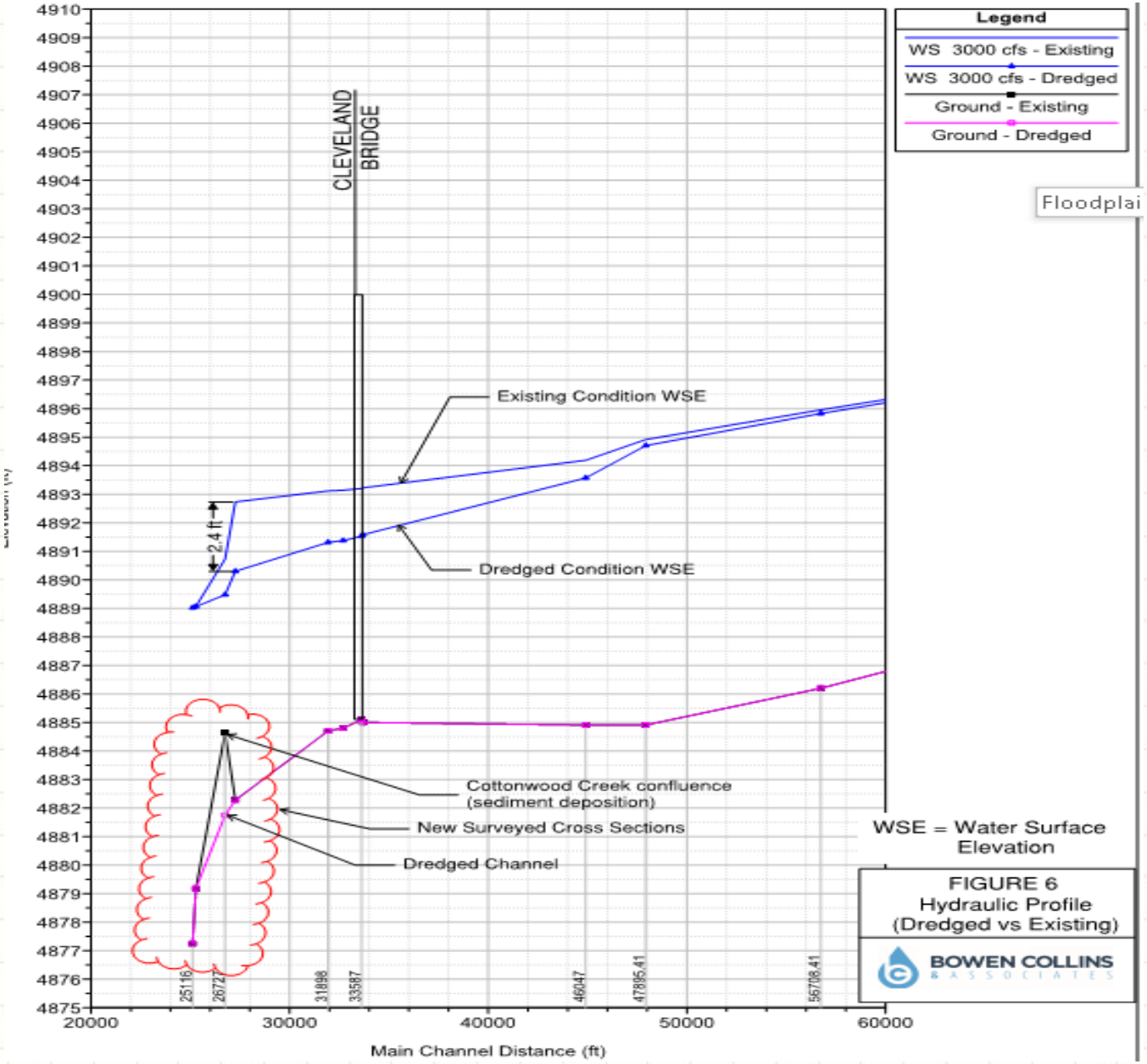
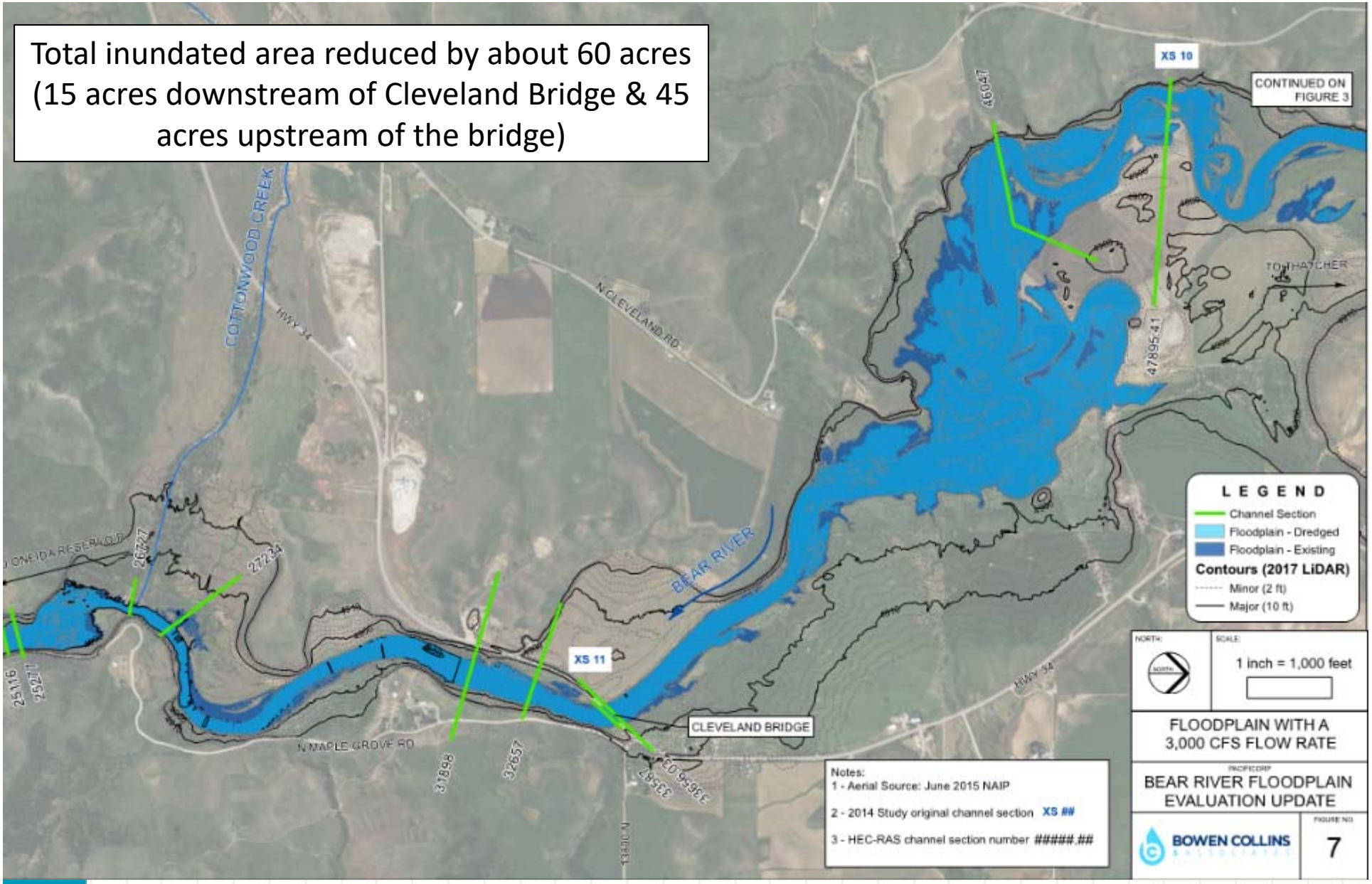


Proposed Dredging at Cottonwood Creek



Potential Impacts of Dredging on Profile



Predicted Dredging Impacts on Floodplain

QUESTIONS?