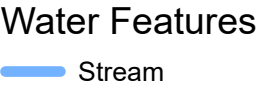
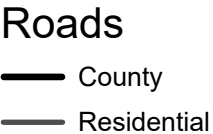
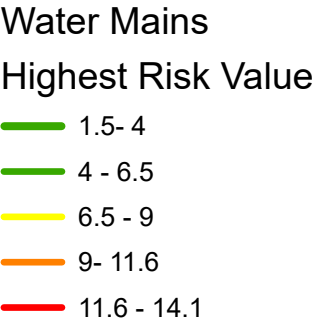
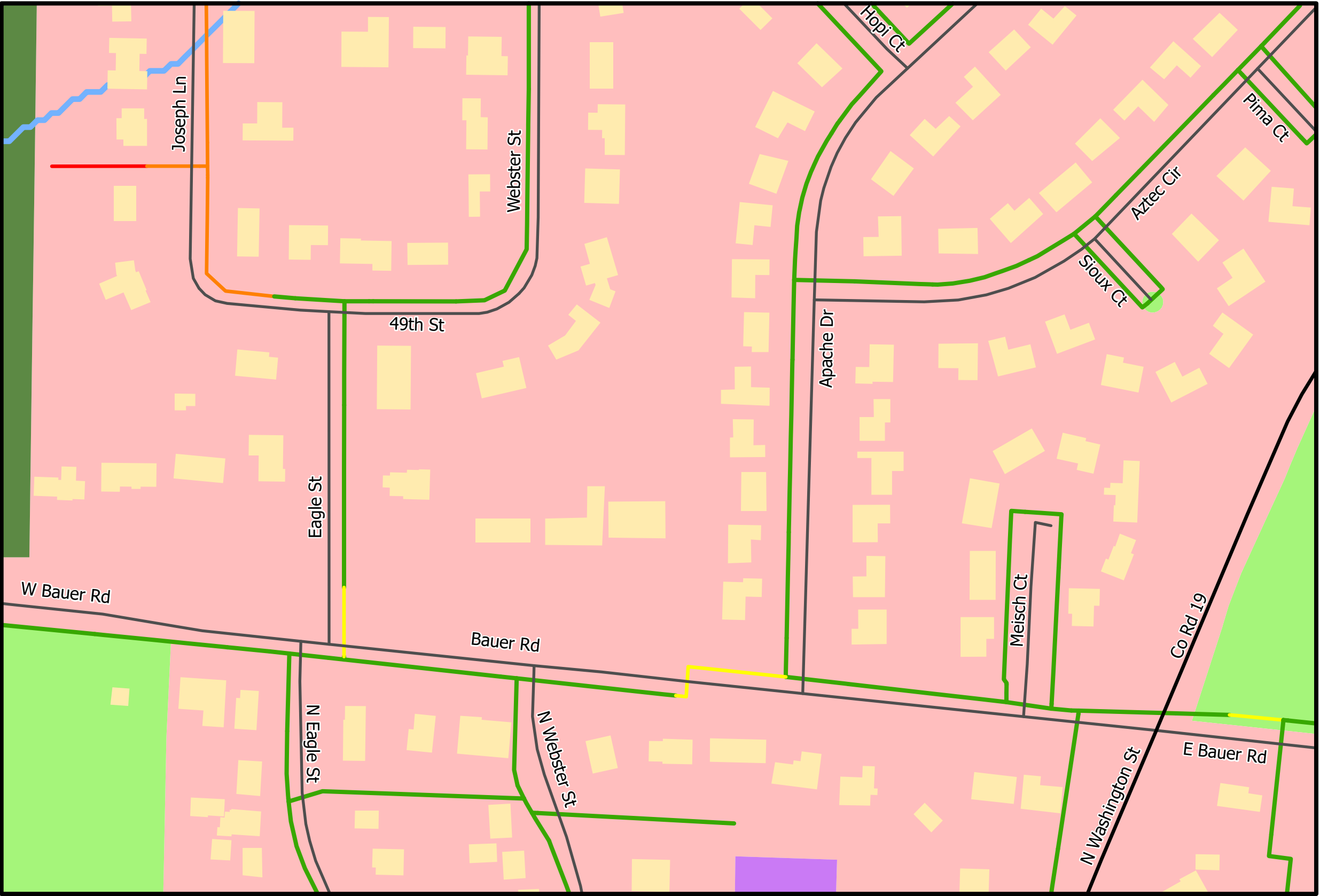


Water System Risk Analysis

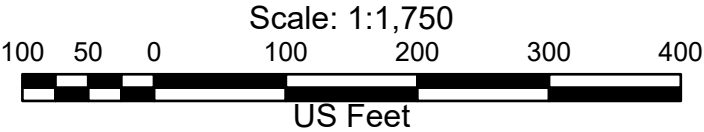
Sample Study Area,
Naperville, IL



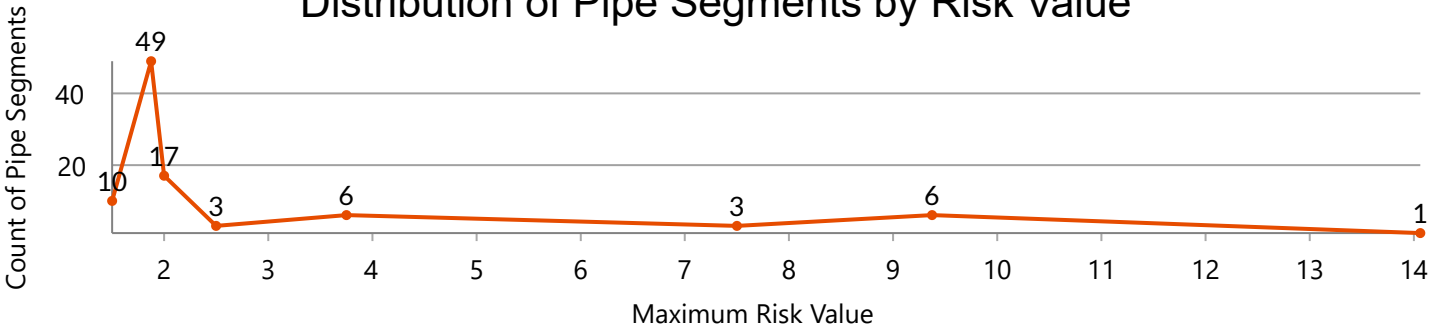
Highest Risk Value for each pipe segment calculated via risk analysis focused on four discrete threat events:

- Natural Disaster (Flooding)
- Third Party Damage (Proximity to trafficked roads)
- Unstable Environment (Soil composition)
- Physical Pipe Break (Pipe material type & age)

Pipe segments symbolized based on the highest risk value calculated across the above four threat categories.



Distribution of Pipe Segments by Risk Value



Land Use and Building Footprints: Open Street Map (OSM)/2021
Population Density Source: USA Census Block Data/2014
Water Mains: Naperville Illinois/2015
Watercourses: Illinois Clearinghouse Statewide GIS Data and Metadata/2015
Road Data: US Census Bureau TIGER files/2015
Reference Data: USDA: NAIP Aerial Photo/2014, USGS: Topographic Map/1998