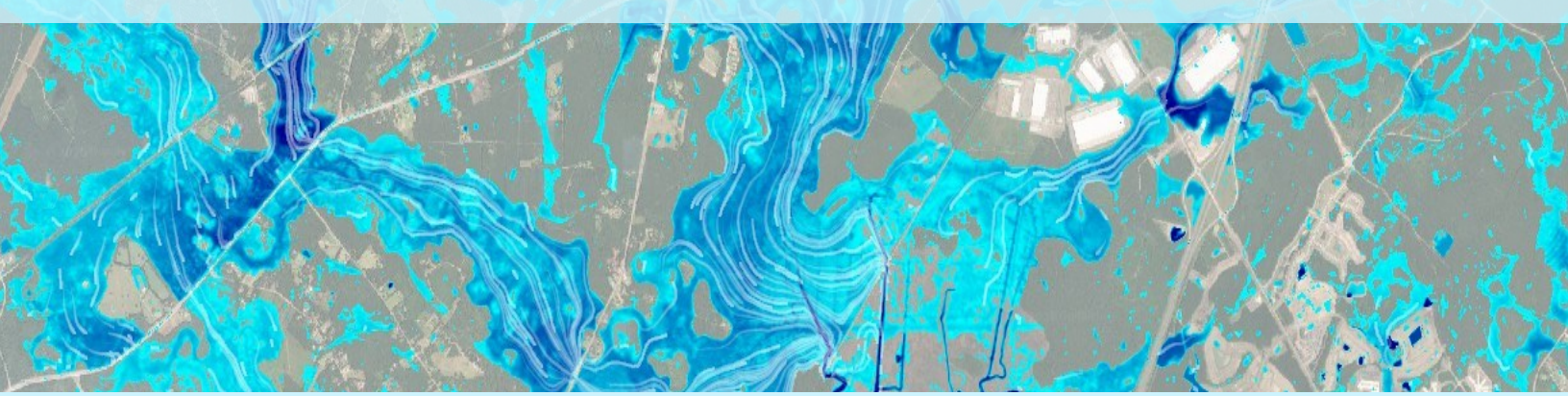
Hydrologic and Hydraulic Modeling

WEC helps clients navigate H&H challenges to move projects forward!

Floodplains play a critical role in conveying and storing stormwater, and protecting their function is essential to responsible and resilient development. At the same time, projects within the floodplain can face unique hurdles including regulatory and permitting requirements, site constraints, outdated flood studies, and data uncertainty.



WEC helps clients navigate these challenges to move projects forward! We do so with the combination of our advanced numerical modeling expertise and understanding of federal and local permitting. The result is a defensible, permit-ready model, thorough documentation, and fewer agency comments.

Capabilities

- Coastal & Riverine Flood Studies
- 2D Hydrologic & Hydraulic (H&H) Modeling
- LOMRs & CLOMRs
- Base Flood Elevation (BFE) Determination
- No-Rise / No-Impact Assessments
- FEMA Flood Hazard Modeling and Mapping
- Bridge and Culvert Hydraulics
- Permitting & Design Support
- Wetland Restoration Studies

Qualifications

- Technical experts with years of numerical modeling experience
- Strong understanding of watershed dynamics and floodplain mapping
- Proficient in coastal and riverine processes
- Well versed in local permitting and FEMA procedures
- Former FEMA contractor experience

Whether a site is located in the coastal or riverine environment, WEC has the expertise to deliver accurate analyses that support efficient permitting and resilient design.

For project examples, representative clients and to learn more, visit us at: **www.water-ec.com**

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Contact WEC to discuss your next project:
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