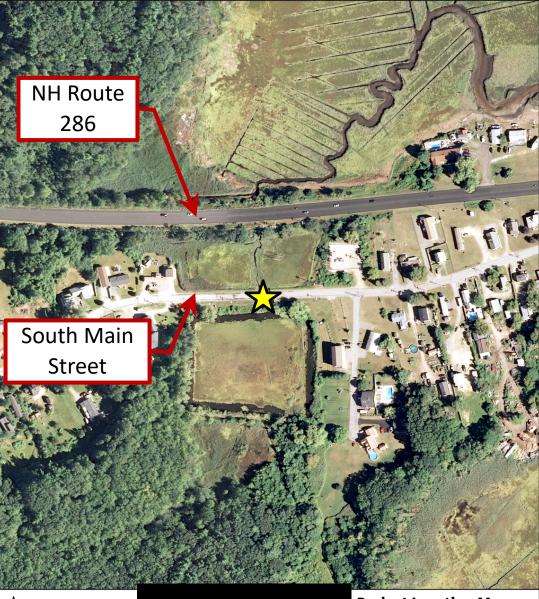
South Main Street Tidal Crossing Project Update

Pete Steckler GIS & Conservation Project Manager The Nature Conservancy

Neal Price Project Engineer and Manager, The Horsley Witten Group







🔆 South Main Street Tidal Cro

University of New Hampshire

School of Marine Science Sand Ocean Engineering

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Project Location Map

South Main Street Tidal Crossing Seabrook, NH

Overview

- Re-introduce the project
- Project Activities To-date
- Next Steps and Questions











Overview: Why This Crossing?



Existing Flood Hazard

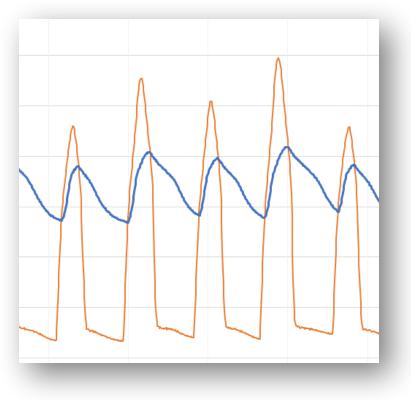
Projected to flood more regularly with sea level rise and storms



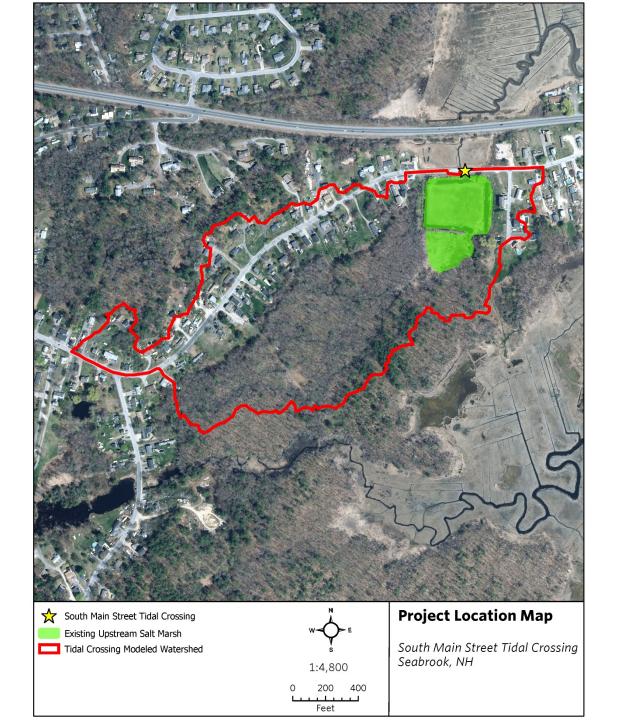
Photo by Selectman Aboul Khan on January 4, 2018. Map from the NH Coastal Viewer.

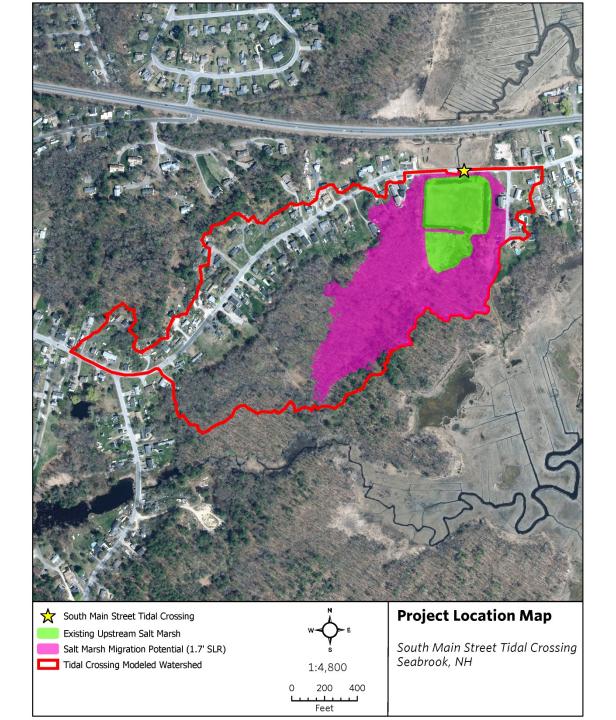
Overview: Why This Crossing?

Existing Upstream and Downstream Water Elevations



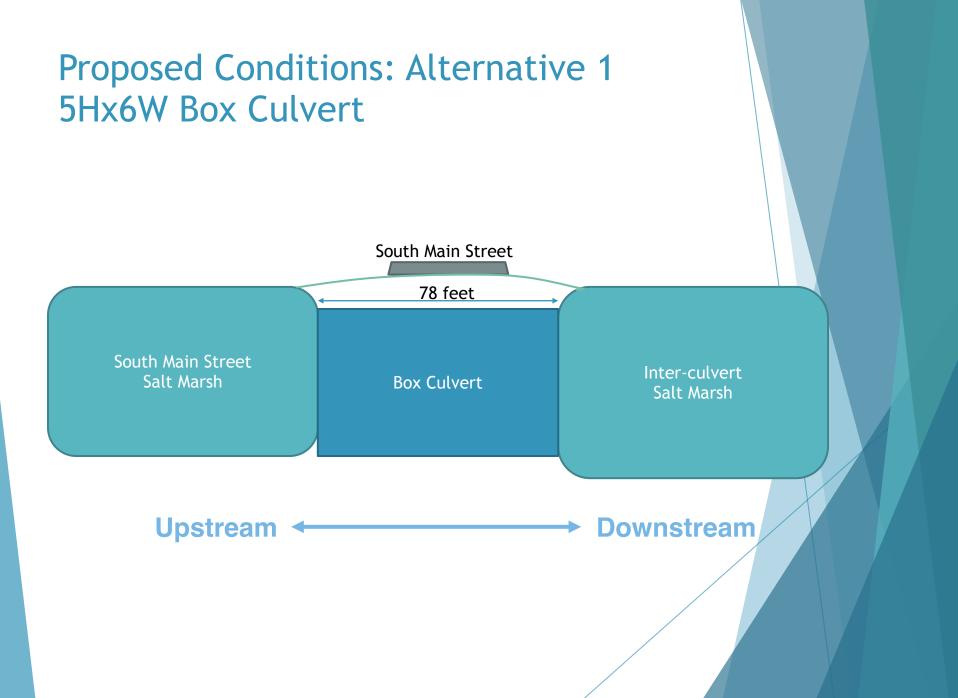
- Severe Tidal Restriction
- Barrier to Fish Passage
- Salt Marsh Migration Potential



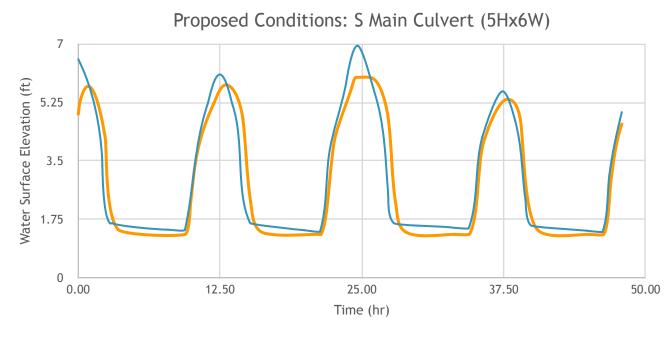


Activities To-date

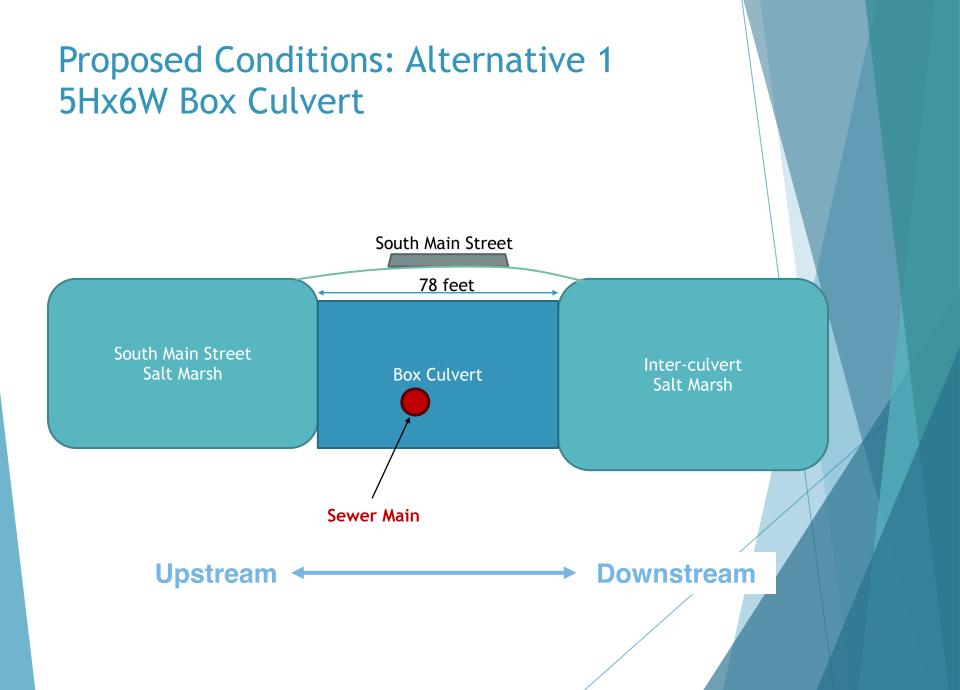
- Released an Engineering RFP in November 2019
- Horsley Witten Group Selected and under contract, Winter 2020
- Baseline Conditions (survey, water elevation monitoring, borings), Spring/Summer 2020
- Hydrology and Hydraulics Analysis, Summer 2020
- Evaluate Performance of Replacement Structure Alternatives, Summer/Fall 2020
- Select a Preferred Alternative

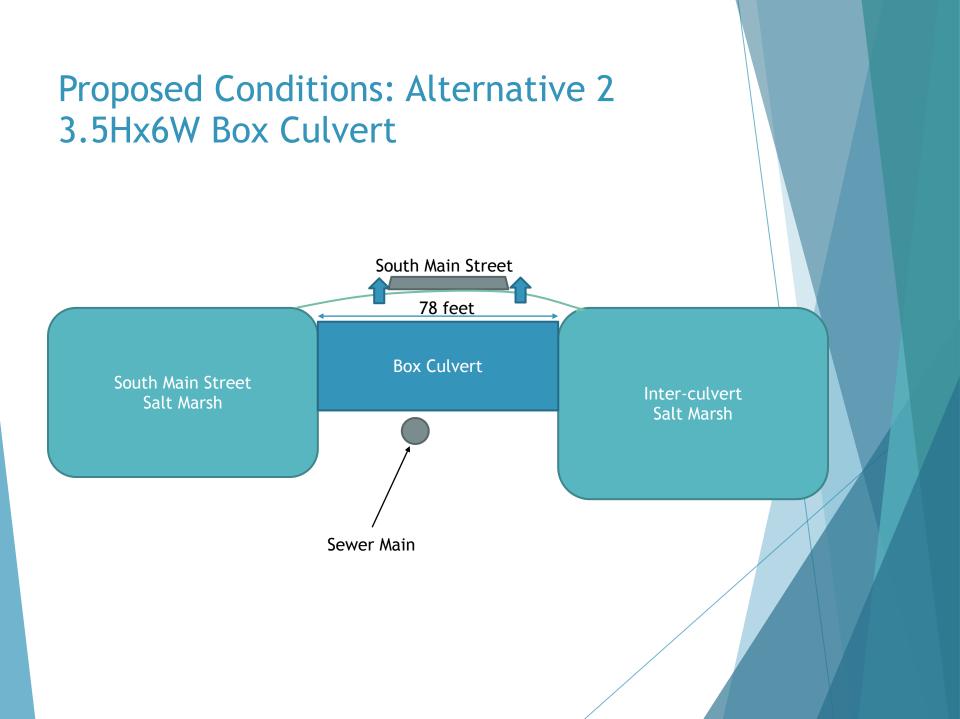


Alternative 1 (5' High X 6' Wide) Results

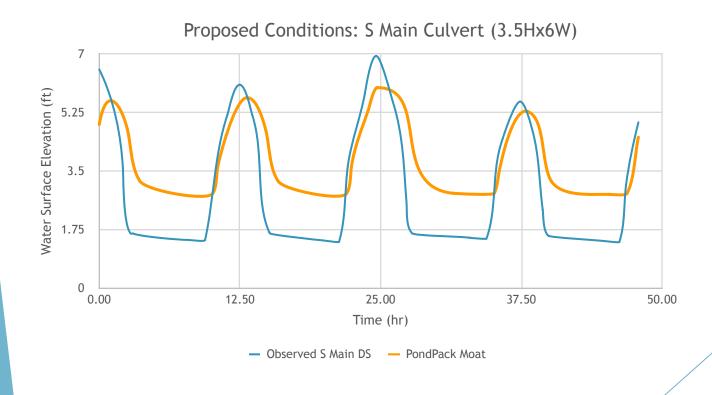


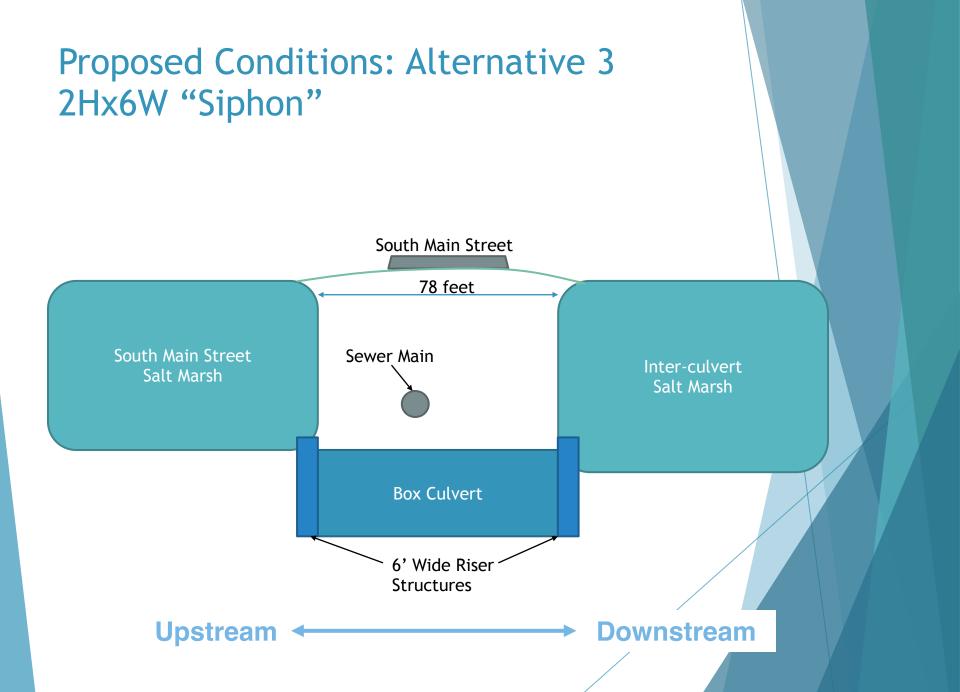
- Observed S Main DS - PondPack Moat



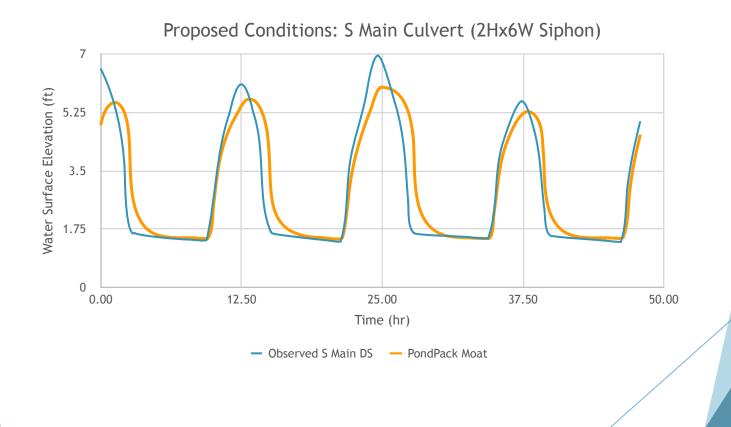


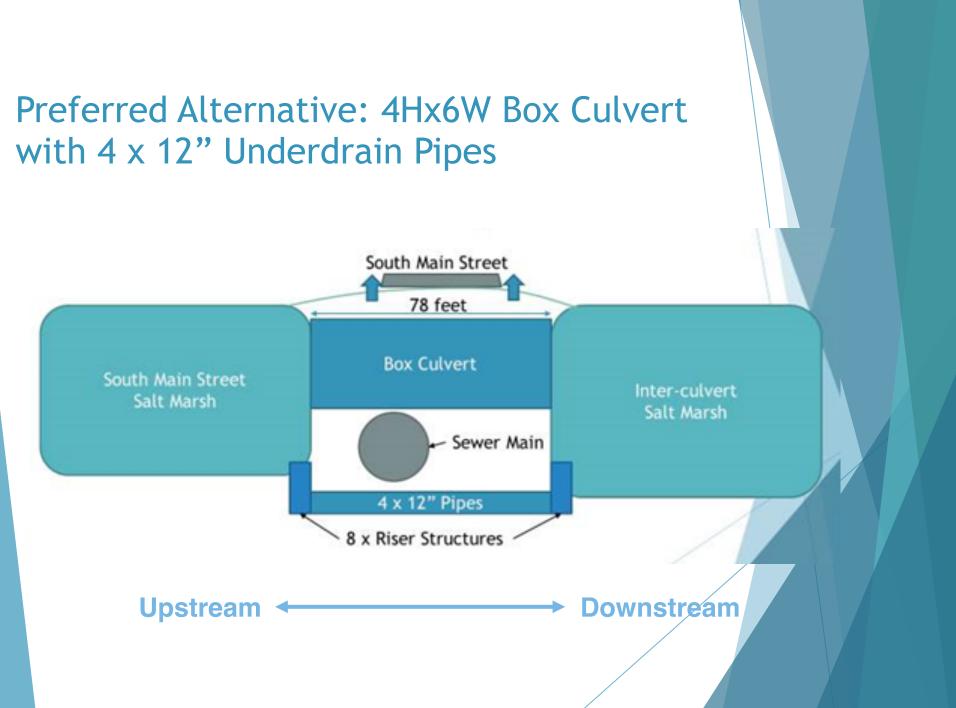
Alternative 2 (3.5' High X 6' Wide) Results



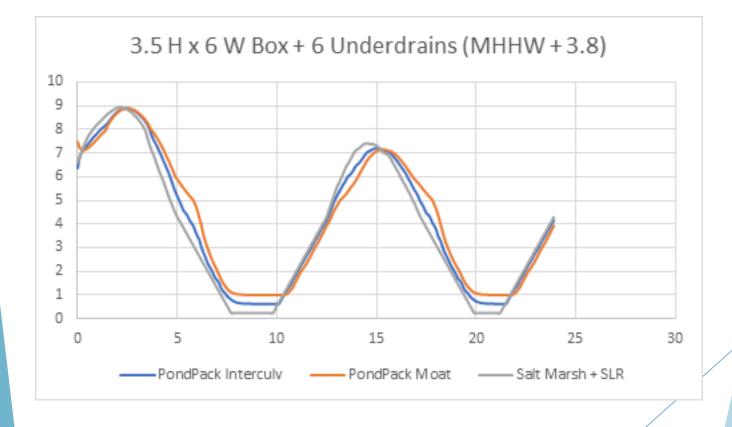


Alternative 3 (2'High X 6' Wide Siphon) Results





Preferred Alternative: 4Hx6W Box Culvert with 4 x 12" Underdrain Pipes Results:



Next Steps & Questions?

- 1. Preliminary Design
- 2. Environmental Permitting
- 3. Final Design
- 4. Seek grant funding for construction

Questions?