



UTILITY ADVISORY COMMITTEE

Sea Level Rise – Response Plan Update
February 2, 2017
5:40 pm

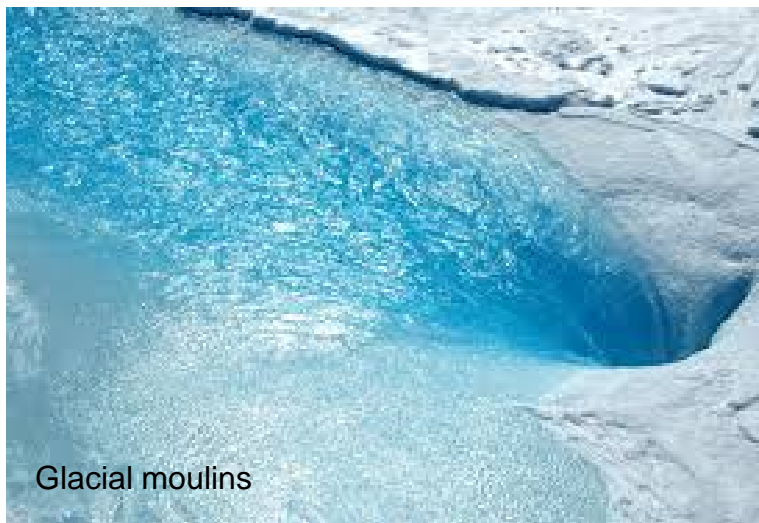
Sea Level Rise Update



- National Research Council
 - Plan for 24 inches of sea level rise by 2050
 - Plan for 55 inches of sea level rise by 2100
- <1% chance of 72 inches of sea level rise (Kopp 2015)
- <0.1% chance of 96 inches of sea level rise (NOAA 2017)

Land Ice (glaciers, ice caps, ice sheets)

- Land ice melt is accelerating
- Greatest unknown for sea level rise
- Modeling is improving



Utility Bill Insert



four Rising Sea Levels Concern for Olympia

Sea Level Rise Maps

Visit olympiawa.gov/sealevelrise to view maps that depict the affects sea level rise will have on Olympia.



Rising sea levels are becoming a major concern for Olympia.

Sea levels are rising and will likely continue to do so for years to come. Human activities such as burning fossil fuels and cutting down forests are warming the planet. Ocean waters expand as they warm. In addition, glaciers, ice caps and ice sheets are melting and contributing to sea level rise. Scientists estimate that sea levels could rise 20 to 55 inches by the year 2100. A sea level rise of one foot would flood extensive portions of downtown Olympia.

In early 2017, the City of Olympia will start working with the community to develop a formal Sea Level Response Plan. The Plan's goal is to protect downtown social, economic and environmental values and identify funding needs and timelines. Visit olympiawa.gov/sealevelrise to track our progress and provide input.



Questions?
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Community Update



Responding to Sea Level Rise

Sea level rise and changing weather patterns pose a prominent flood risk to our downtown. Join us for an informational meeting.

Community Meeting

Wednesday, February 8, 2017

6:30 - 8:00 p.m.

Olympia Center, Multipurpose Room A

Sea Level Rise Story Map



City of Olympia



Rising Sea Levels

Two Feet

Low Projected Year: 2100 / Projection: 2083 / High Projected Year: 2058



Olympia's Farmers Market

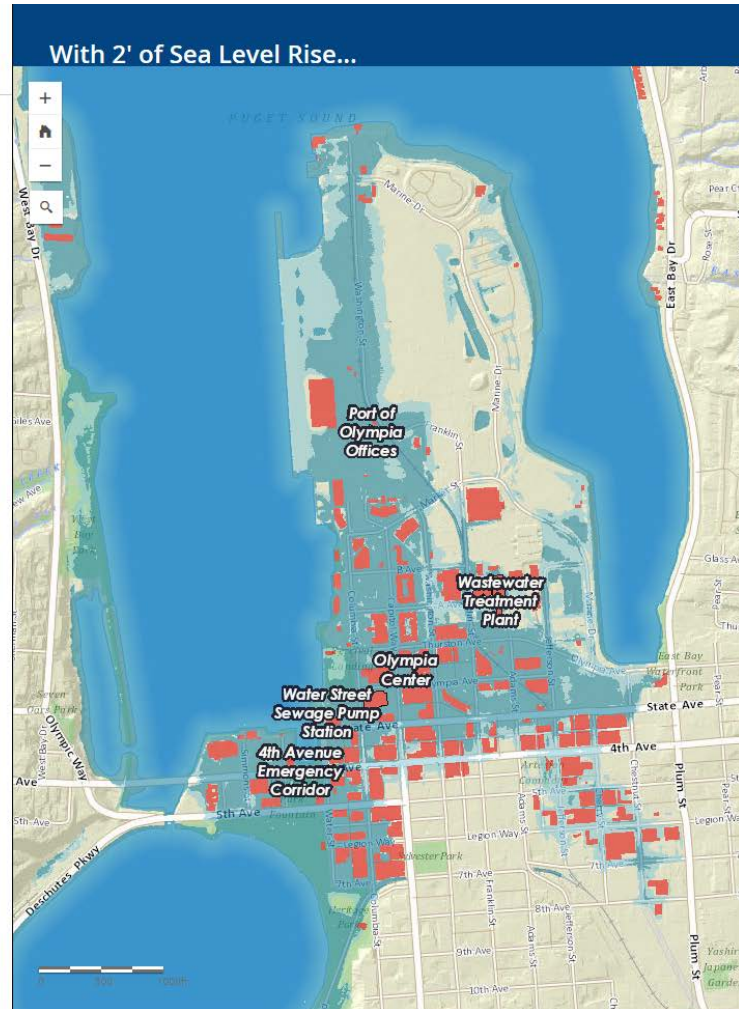
- Key Public Structures Affected
- Buildings Affected

in an Annual Flood
Elevation is 15 feet NAVD88 / 19 feet MLLW

Parcels Affected: 188
Acres Inundated: 163
Value of Buildings Affected: \$172,445,818
Value of Properties Inundated: \$86,588,400
Miles of Road Inundated: 5.9

in a 100-year Flood
Elevation is 16 feet NAVD88 / 20 feet MLLW

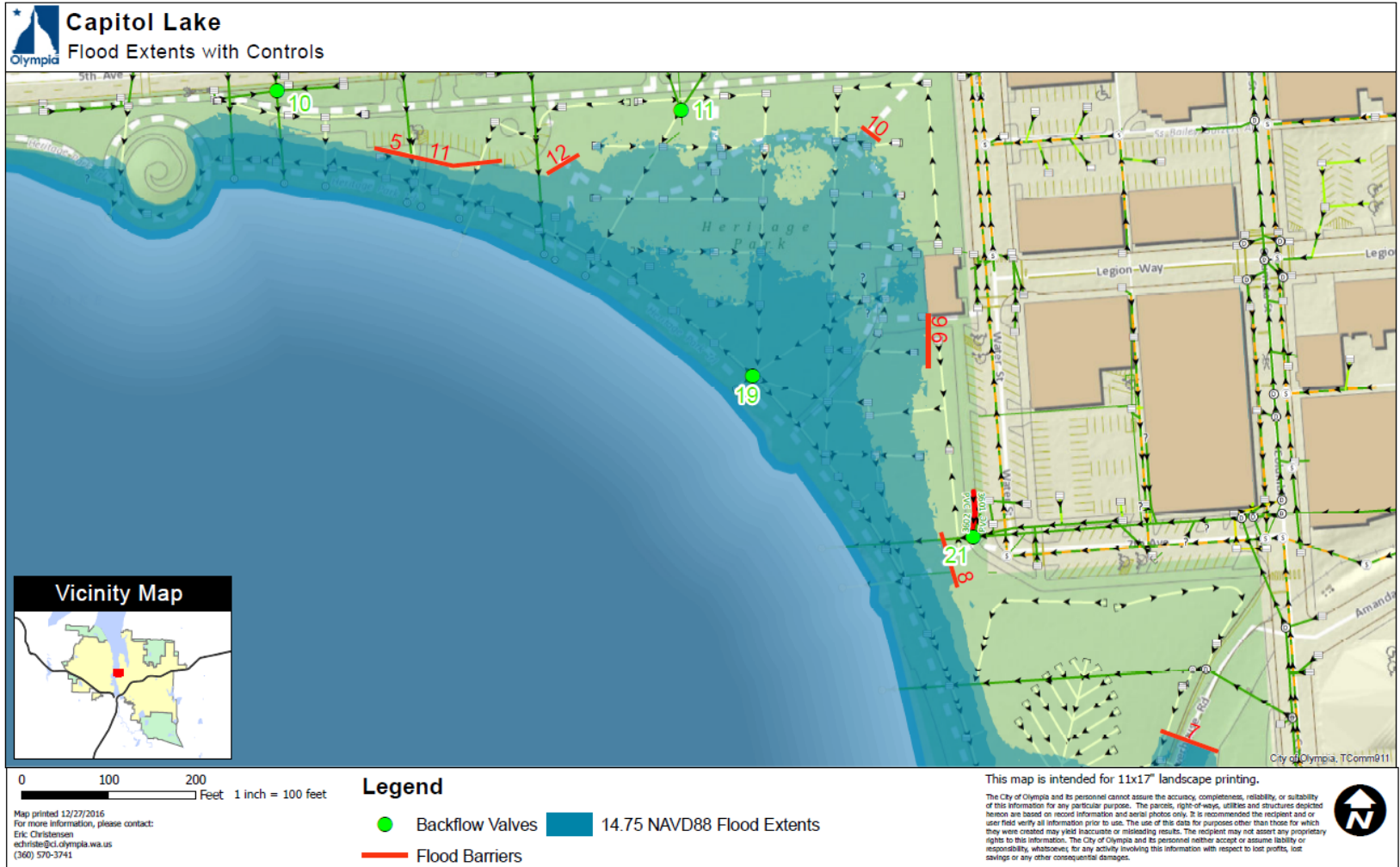
Parcels Affected: 290
Acres Inundated: 252
Value of Buildings Affected: \$237,585,557
Value of Properties Inundated: \$142,389,900
Miles of Road Inundated: 8.9



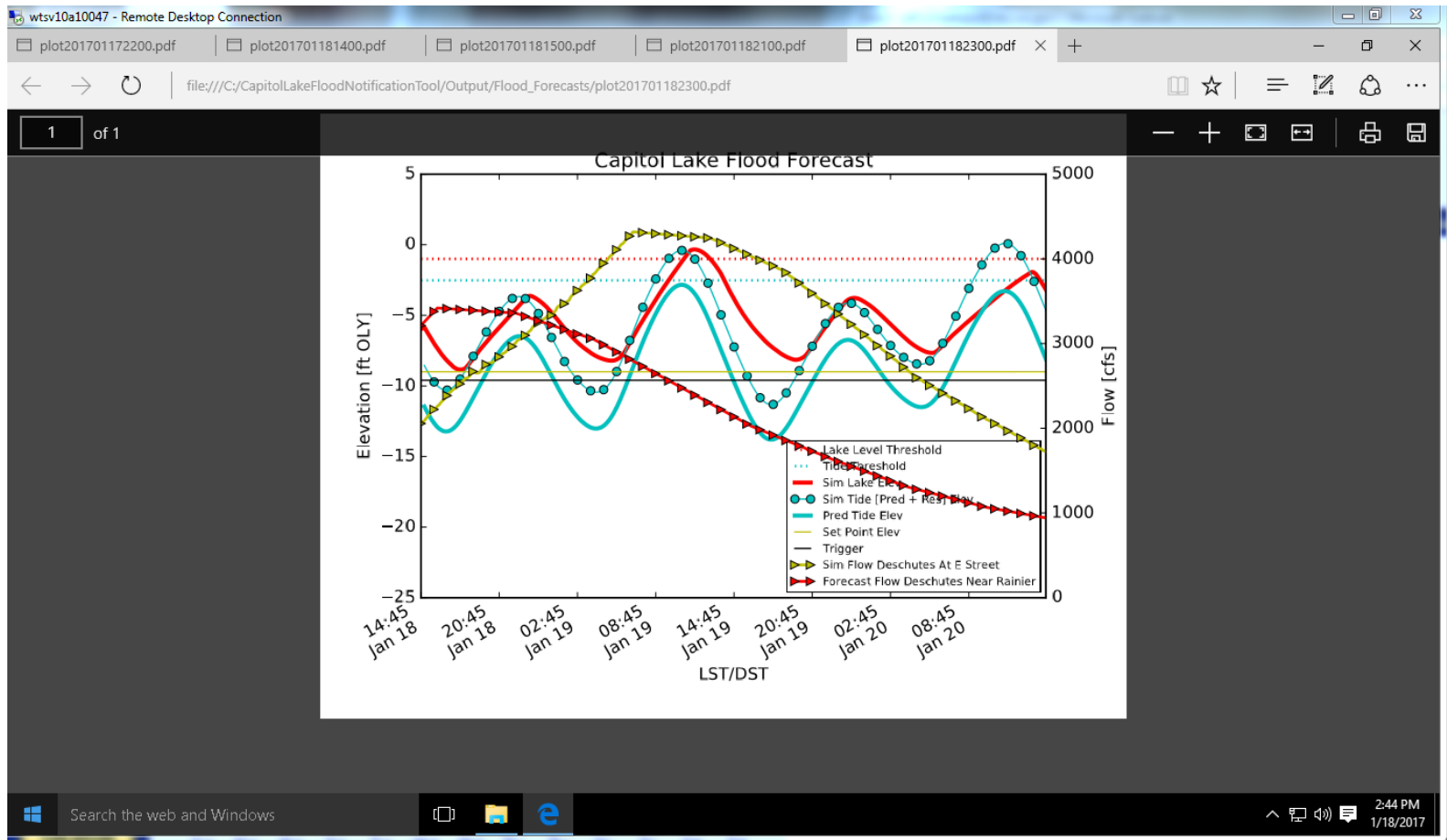
Request for Qualifications



Emergency Response



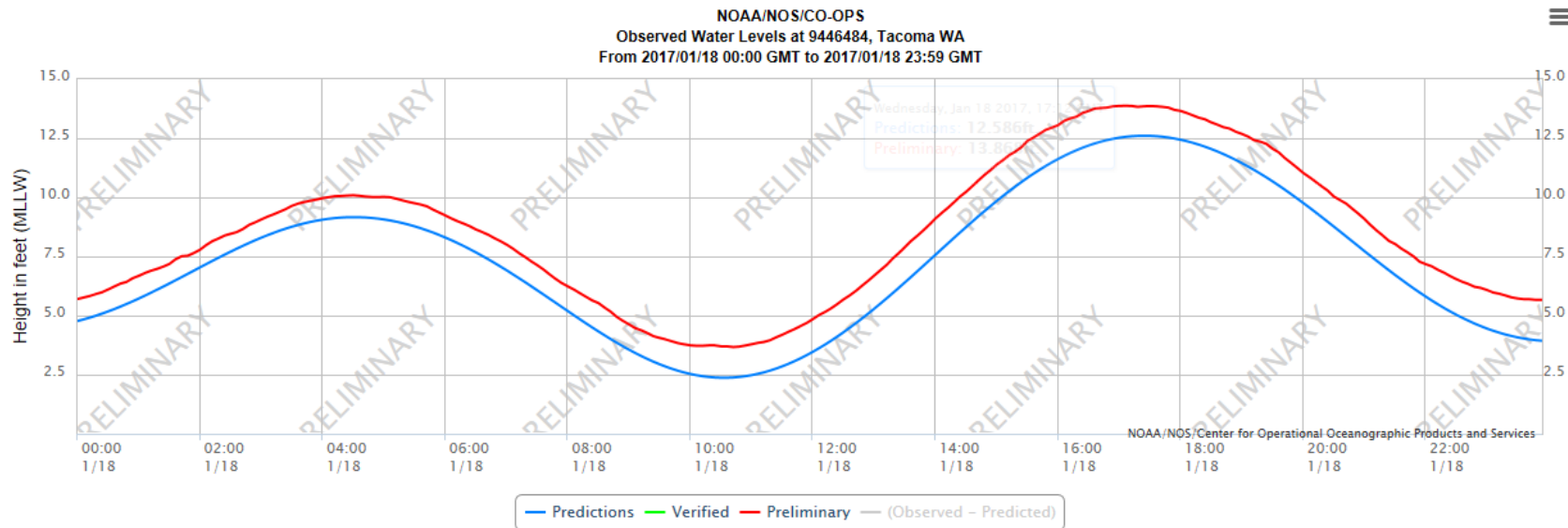
Capitol Lake Flood Tool



January 18th Tide



- **Low Atmospheric Pressure: 29.3 inches**
- **Predicted Tide: 15.6 feet**
- **Actual Tide: 17.1 feet (Tacoma)**













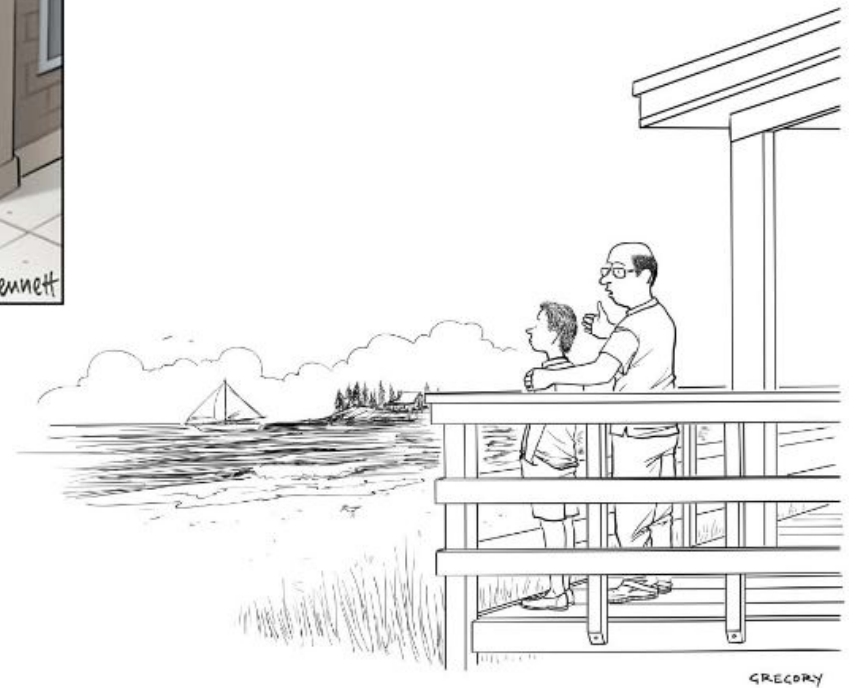
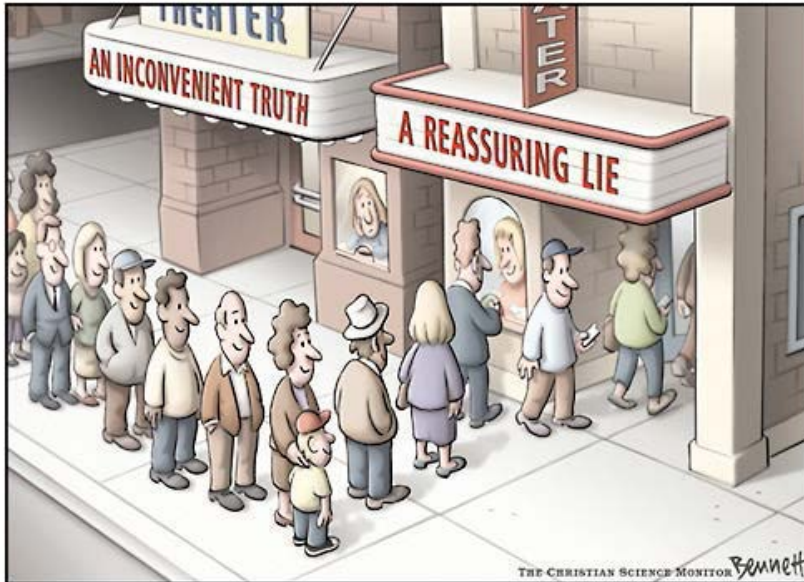


Atmospheric Pressure



- In the short-term, The increased frequency and severity of low pressure events may play a bigger role in flooding than sea level rise.

Sea Level Rise Update



"Someday, son, this will all be yours—and underwater."