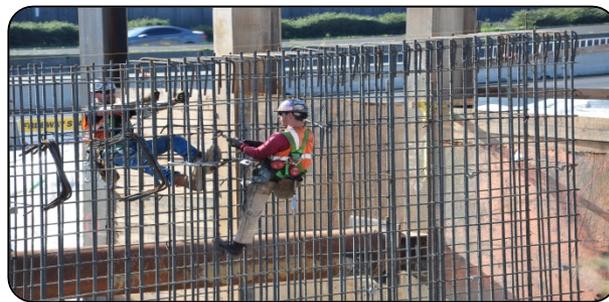


# SR 520 Program

## Floating Bridge and Landings

June 9, 2016



**Julie Meredith**  
SR 520 Program  
Administrator

**Greg Meadows**  
SR 520 Program  
Construction Manager

**Josh Baldi**  
Department of Ecology  
NW Region Director

**Jeff Ellis**  
Kiewit  
Executive Area Manager

**Lake Washington Mayors  
Monthly Meeting**  
June 9, 2016

# Speakers

**Julie Meredith** SR 520 Program Administrator  
Program overview

**Josh Baldi** Department of Ecology, NW Region Director  
Permitting process

**Jeff Ellis** Kiewit Executive Area Manager  
Decommissioning activities and project limits

**Greg Meadows** SR 520 Program Construction Manager  
WSDOT's role in construction and decommissioning activities

# Presentation overview

- SR 520 Program Overview
- Spring updates
- Permits
- Decommissioning updates
- WSDOT's role in the process
- Questions

# SR 520 Program overview and timeline



## Program schedule

- Eastside Transit and HOV Project: Opened 2014
- Pontoon Construction Project (Aberdeen): Completed 2015
- New floating bridge: Opened April 2016
- **Decommissioning of old bridge: Expected through end of 2016**
- West Approach Bridge North: Construction began fall 2014; opening summer 2017
- I-5 to Lake Washington elements: Fully funded

# SR 520 bridge is vulnerable to windstorms and earthquakes

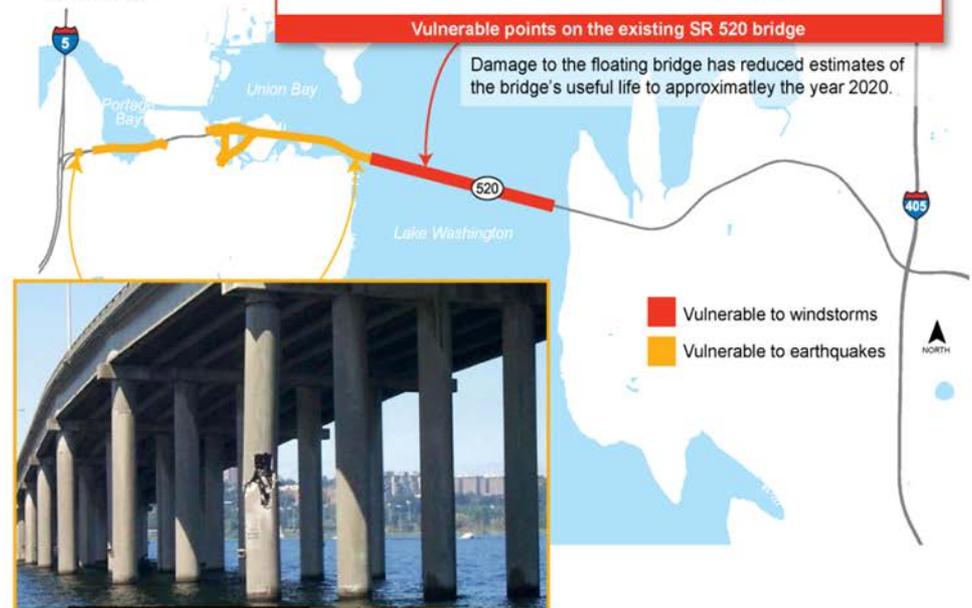
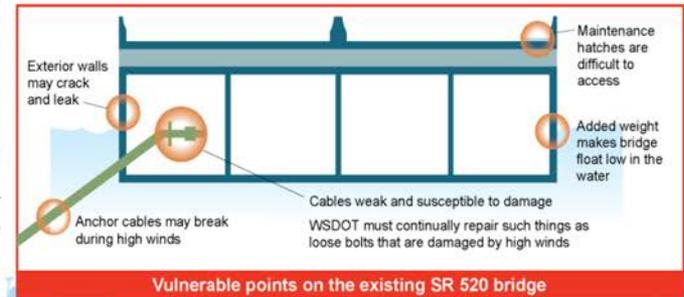


Waves batter the SR 520 bridge.

## Current vulnerabilities



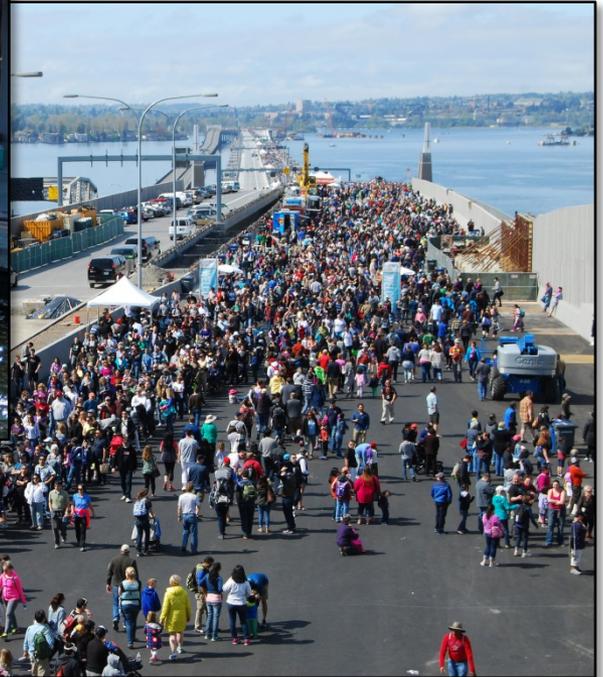
A torn cable joint found during a routine inspection in February 2006. The cables connect the floating bridge pontoons to their underwater lakebed anchors.



# Grand Opening celebration on April 2-3



**GO LONG**  
SR 520 BRIDGE



# April 2016 traffic shifts

- Westbound switch:
  - April 11, with westbound traffic traveling on new bridge and eastbound traveling on old bridge
  
- Eastbound switch:
  - April 25, with both directions of traffic traveling on new bridge



# Permitting and NEPA/SEPA analysis

- City of Seattle
- City of Medina
- Sound Transit
- Corps of Engineers, Seattle District
- WA State Department of Fish and Wildlife
- U.S. Coast Guard
- Department of Ecology
- U.S. Fish and Wildlife Service
- National Marine Fisheries Service
- Federal Highway Administration (FHWA)

# Department of Ecology

# Decommissioning details



Not to scale. For illustrative purposes only.

## Key:

### Dismantled on Lake Washington on barges

#### West Approach

The West Approach will be dismantled on barges and removed from the lake through Kenmore. Columns below the black dashed line will remain in the soil.

#### West approach girders

These girders will be dismantled from the bridge to be broken up on barges on the lake for transportable size and removed from the lake through Kenmore.

#### East and west transition span truss

The transition trusses will be lifted by crane and dismantled on the lake on barges. They will then be removed from the lake through the Hiram M. Chittenden Locks in Ballard.

### Dismantled on old pontoon deck

#### WSDOT towers and lift span

The towers and the lift span will be dismantled in place on the old pontoons and removed from the lake through Kenmore.

#### Barriers

Removal of the barrier on the roadway deck has already begun. Barriers are being dismantled in place on the old pontoons and removed from the lake by barge through Kenmore.

#### High-rise roadway deck

Removal of the high-rise roadway deck, including asphalt, has already begun. Material is removed from the lake by barge.

#### Girders above pontoon high-rise

These girders above the pontoons will be broken down within the project limits then barged and removed from the lake.

#### Columns

These columns above the pontoons will be broken down within the project limits then barged and removed from the lake.

### Removed from Lake Washington intact

#### Pontoons

All pontoons from the old floating bridge have been sold and will be floated off the lake by the end of 2016.

#### Low-rise roadway deck

The low-rise roadway deck will remain on the pontoons when they are removed from the lake.

### Dismantled on land

#### East Approach

The first three East Approach spans and columns in the water will be dismantled on barges. The remaining east end will be lifted to an upland area for processing and removed by truck through approved haul routes through Medina. Columns below the black dashed line will remain in the soil.

## Notes

- Less than 25% of all materials from the old floating bridge will be placed onto barges to be demolished and removed from the lake. This removal will occur via truck primarily through Kenmore.
- KGM is contracted to maintain the existing floating bridge pontoons as watertight and seaworthy until they leave Lake Washington. Hazardous materials in the old floating bridge were identified in the construction documents and required the contractor to dispose of them properly after crews demolish the structures for transport. These include:
  - Lead paint on the steel structures
  - Oil, fuel, and hydraulic oil in the drawspan machinery
  - Asbestos in the pontoons, pipes in the drawspan machinery, and control tower
  - Zinc in all galvanized metal, including drain pipes, catwalks, and ladders
  - Sewage in the drawspan facility

# Transition span barges and screening



# Transition span deck removal



# Transition span removal and disassembly on barge



# Girder removal



# Containment



# Fencing and materials for transport



# Rebar removal



# Tanks for process water



# Pontoon removal



# WSDOT's role in construction and decommissioning

- Ensure KGM is following plans and permits
- Actively monitor construction sites with:
  - Inspectors in field
  - Environmental and safety walks



# Questions?

For more information and construction updates:

**Visit the SR 520 Orange Page:**

[www.wsdot.wa.gov/Projects/SR520Bridge/520orange/](http://www.wsdot.wa.gov/Projects/SR520Bridge/520orange/)

**Floating Bridge and Landings project information:**

<http://www.wsdot.wa.gov/Projects/SR520Bridge/BridgeAndLandings/>

**E-mail:**

[SR520Bridge@wsdot.wa.gov](mailto:SR520Bridge@wsdot.wa.gov)

**24-hour Construction hotline:**

206-708-4657