

A photograph of a white and blue Sound Transit train. The train is viewed from a low angle, looking up at the side. A large graphic of a landslide is overlaid on the train's side, showing a white and blue wave-like shape. The train's windows and doors are visible. The background shows a station platform with a glass roof.

Landslide Mitigation Action Plan Update

Operations and Administration Committee Meeting

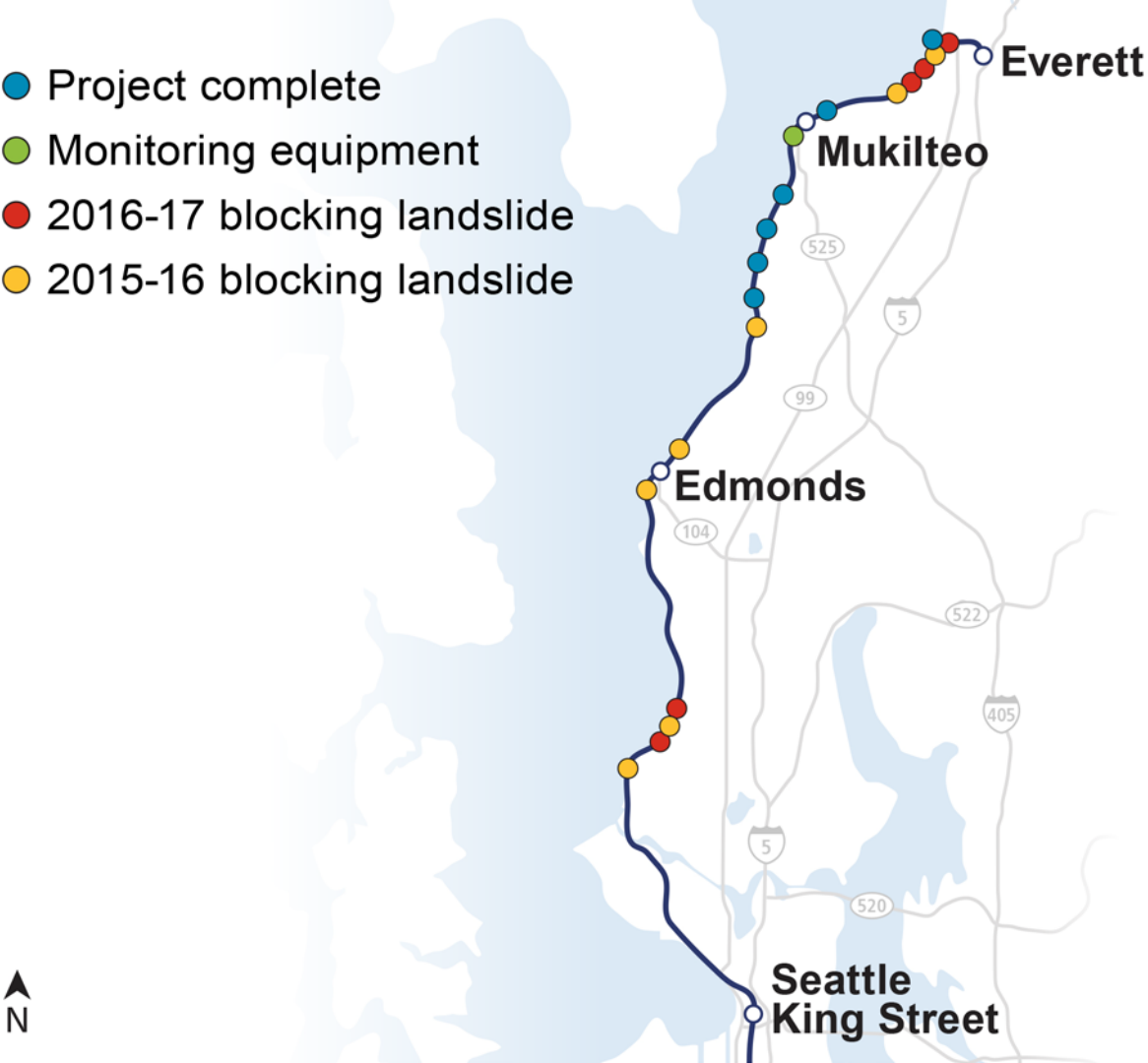
June 1, 2017

SOUND TRANSIT

Landslide Mitigation Work Group

- BNSF Railway Company
- Sound Transit
- Amtrak
- National Oceanic Atmospheric Administration (NOAA)
- Governor's Office of Regulatory Innovation and Assistance (ORIA)
- Washington State Department of Ecology
- Washington State Department of Natural Resources
- United States Geological Survey
- Snohomish County
- City of Everett
- City of Mukilteo
- City of Shoreline
- City of Seattle
- City of Edmonds
- Town of Woodway
- Port of Everett

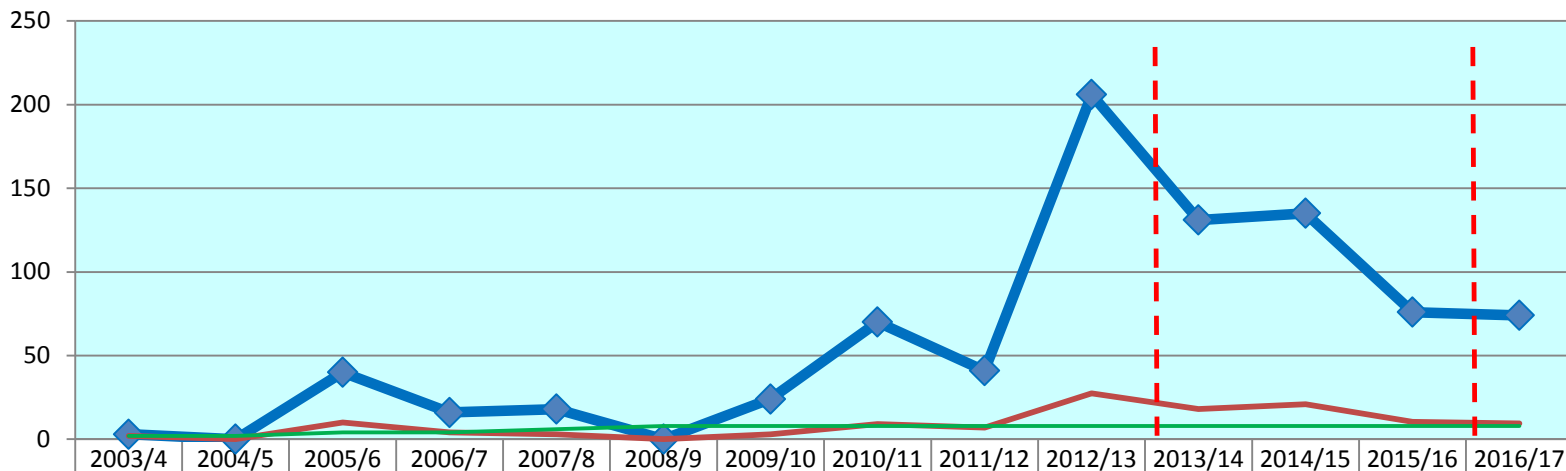
- Project complete
- Monitoring equipment
- 2016-17 blocking landslide
- 2015-16 blocking landslide



Landslide Activity Impacting Sounder Service

Service Impacts - Cancelled Trips

Cancelled Trips per Season



	2003/4	2004/5	2005/6	2006/7	2007/8	2008/9	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17
Total Trains Cancelled	3	0	40	16	18	0	24	70	41	206	131	135	76	74
Total Days Impacted	2	0	10	4	3	0	3	9	7	27.5	18	21	10.5	9.5
Daily Train Trips Scheduled	2	2	4	4	6	8	8	8	8	8	8	8	8	8

◆ Total Trains Cancelled
 — Total Days Impacted
 — Daily Train Trips Scheduled
 - - - BNSF Projects started and finished

Landslide Mitigation Status Update

- New Grant funding: \$33 million through 2030
- On-going:
 - Public outreach and education
 - ROW maintenance -- remove debris, restore slopes, maintain containment structures, evaluate effectiveness

