

# North Seattle Lateral Upgrade Project



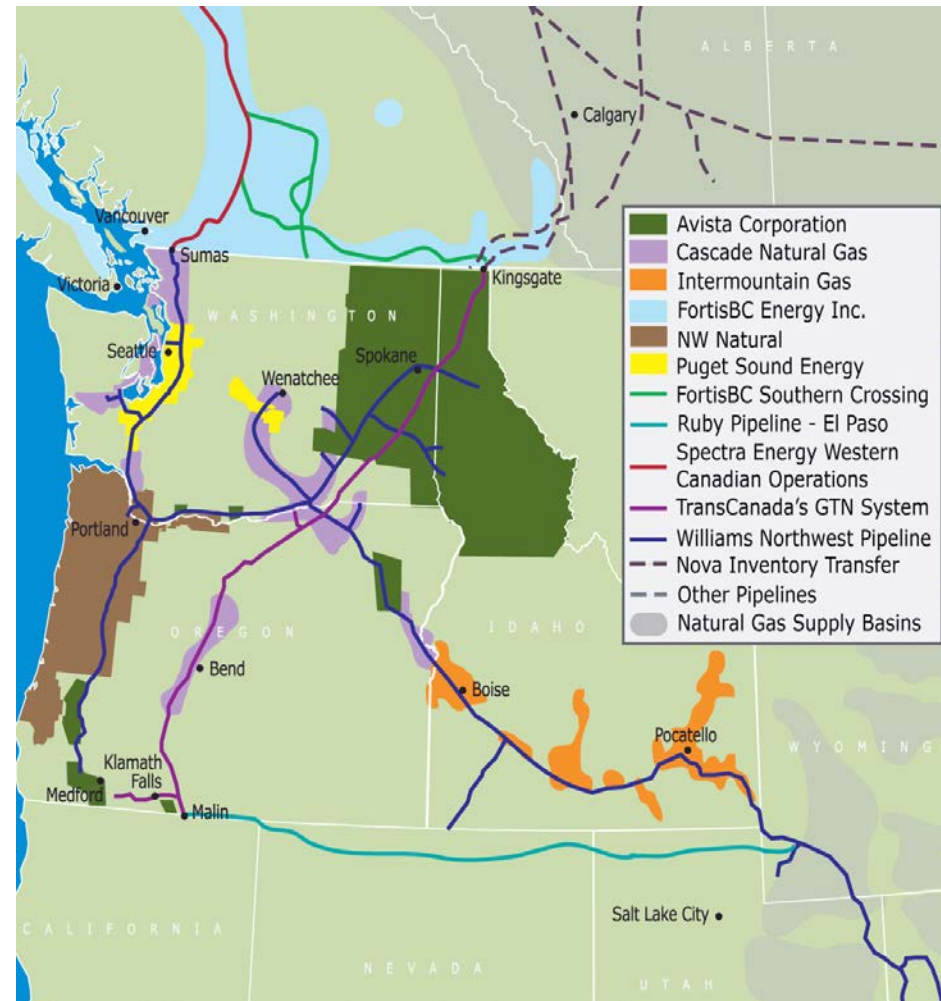
November 15, 2018

Citizens Committee on Pipeline Safety



# Northwest Pipeline (NWP) Backbone of the Pacific Northwest

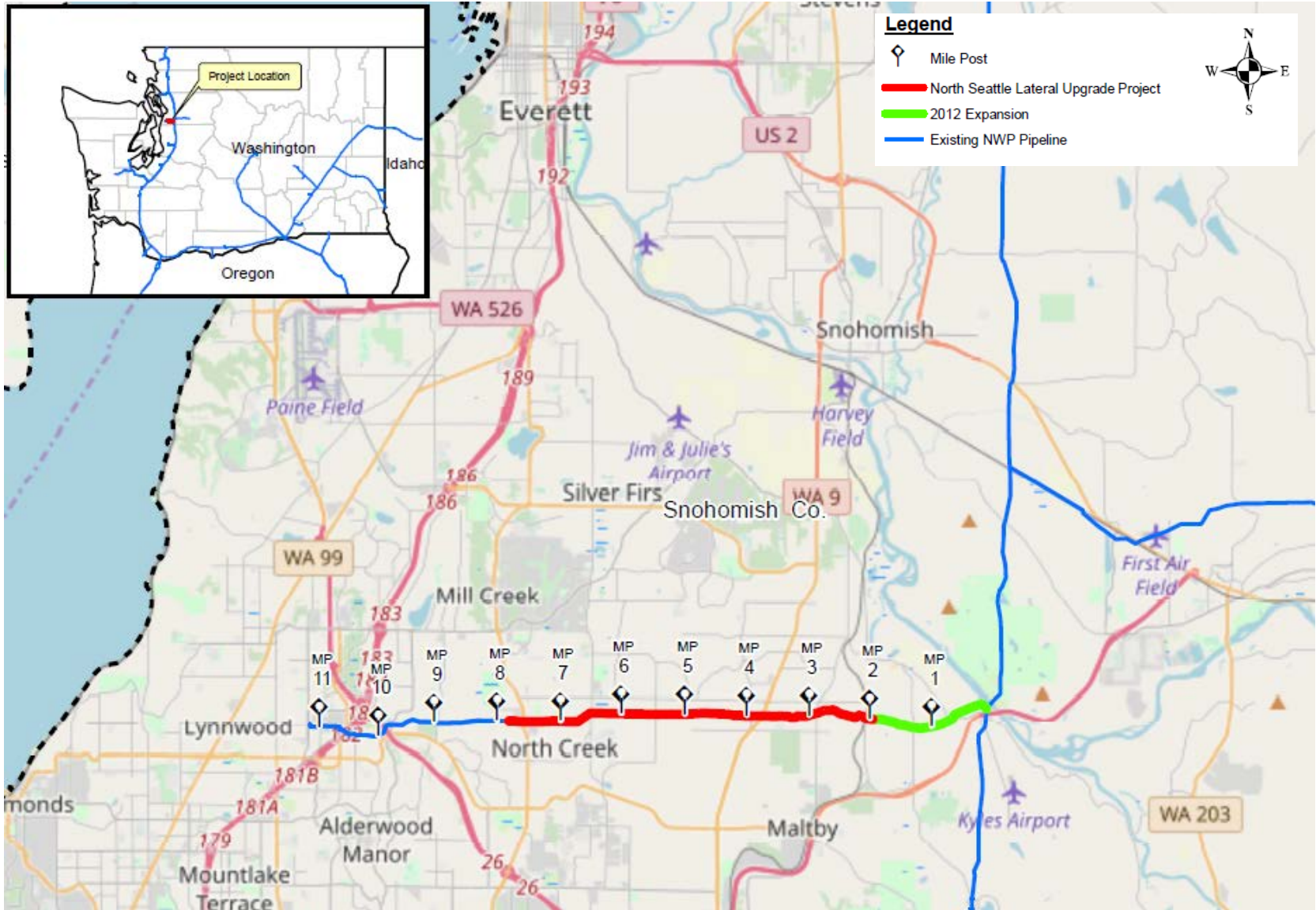
- **Open-access transporter of natural gas**
  - 3,900 mile system
  - 62 years of continuous, reliable service
- **Multiple supply sources**
  - Bi-directional capability
- **Low-cost, primary service provider in the Pacific Northwest**
  - NWP transported 90% of all natural gas consumed in Washington in 2017
- **Transmission capacity north – south from Canada on Williams main line is completely subscribed and has not been increased since October 2003**



# Project Scope

- Focused on increasing local distribution capacity for a lateral line in the south Snohomish-North Seattle area only, and does not include increasing any transmission capacity north-south from Canada
- Replace up to ~5.85 miles of an existing 8-inch natural gas pipeline lateral with 20-inch pipeline, mostly within current alignment
- Provides additional local capacity to meet customer's peak demand in south Snohomish and north King counties
- Target in-service – November 2019

# Project Map



# A Regulated Process

## > Federal Agencies

- FERC (National Environmental Policy Act lead, issues Certificate of Public Convenience and Necessity)
  - Issued July 19, 2018
- USACE (Clean Water Act – Section 404)
- USFWS (Endangered Species Act and Migratory Bird Treaty Act)
- NMFS (Endangered Species Act and Magnuson-Stevens Fishery Conservation and Management Act)
- DOT / PHMSA / WUTC (regulates design, operation, and maintenance)

## > Native American Tribal Consultation

- Consultation on USACE 404 Permit Suquamish Tribe, Muckleshoot Indian Tribe, Upper Skagit Tribe, Snoqualmie Tribe, Sauk-Suiattle Indian Tribe, Stillaguamish Tribe, Tulalip Tribes, Samish Indian Nation, and Swinomish Indian Tribal Community

## > State Agencies

- Ecology (Clean Water Act – Section 401 and 402, Coastal Zone Management Act consistency)
- WDFW (Hydraulic Project Approval)
- WDNR (Forest Practices Act)
- DAHP (National Historic Preservation Act)

## > Local

- Snohomish County: SEPA review; Shoreline, Flood Hazard, and construction permits

# Proposed Timeline

Date	Milestone
July 19, 2018	Receipt of FERC order
1Q 2019	Obtain remaining federal, state and local permits
2Q 2019	Pipeline construction start
4Q 2019	Pipeline facilities placed into service
4Q 2019 – 2Q 2020	Restoration and landscaping of properties

Opportunity for landowner input occurs throughout the entire project

# Committed to Safety

**Leak Prevention and Detection**

1. Regular aerial inspections
2. Written pipeline safety information is distributed annually to neighbors, emergency officials and excavators.
3. Regular patrols
4. Line markers are posted along the rights of way to identify pipeline's presence. Markers are checked annually.
5. Block valves to stop gas flow
6. Valves are inspected annually.
7. Williams participates in local One-Call line locating service.
8. Leak surveys conducted annually.
9. Cathodic protection, a low-voltage electrical system that prevents corrosion
10. Anodes
11. Meter to measure volume
12. Temperature sensor
13. Pressure sensor
14. Pipeline personnel monitor pipeline systems 24 hours a day, 7 days a week.
15. Pipe is pressure tested with water before being placed into service.
16. Pipe sections replaced through normal maintenance
17. Pressure tested at the mill
18. Extra thickness in populated areas
19. Protective coating
20. High tensile strength steel
21. In-line inspection devices are used to detect any anomalies in the pipe.
22. Cleaning pigs are used to help prevent internal corrosion.
23. All welds linking the pipe joints are x-rayed to ensure integrity.

© 2010 The Williams Companies, Inc. All rights reserved.

# Pipeline Monitoring

## Redmond District

Meter	Station	Pressures		Flows		
		Customer Meter	Pipeline	Thruput	Receipt	Delivery
2 1 5 2 1	Everett Delta	451	779	791		13612
2 1 2 2 8	Lake Stevens	133				0
2 1 4 7 4	Machias	231				1248
2 1 1 5 9	Snohomish	231				600
2 1 0 7 4	Monroe	231				3551
2 1 0 8 8	North Seattle	572	661			49430
2 1 3 6 6	Echo Lake	232				114
Snohomish C/S		North	624			
		South	817	940999		
3 2 3 7	Snohomish Check		623	952014		
2 1 4 8 0	Duvall Cottage Lake	381	812			9191
2 1 5 1 1	Novelty Hill	811				2525
2 1 2 4 4	Redmond	371	801			13986
	Valve 17L-0B		800			
2 1 2 7 6	North Bend		776			6269
2 1 4 9 3	Issaquah Highlands	233	761	761		11489
	Valve 17L-0A		735			
2 1 4 7 5	May Valley	224				976
	Valve 17L-0		711			
	South Seattle Odorizer	599	705	37379		
2 1 4 7 2	Maple Heights	164				0
4 5 1 2 9	Cedar Hills	608	602		5023	
2 1 0 8 6	South Seattle	234	602			45314
2 1 4 4 4	Lake Francis	140				0
2 1 3 4 0	Covington	134				4417
2 1 5 2 2	Black Diamond	671	672			26055
	Valve 16L-9B		654			

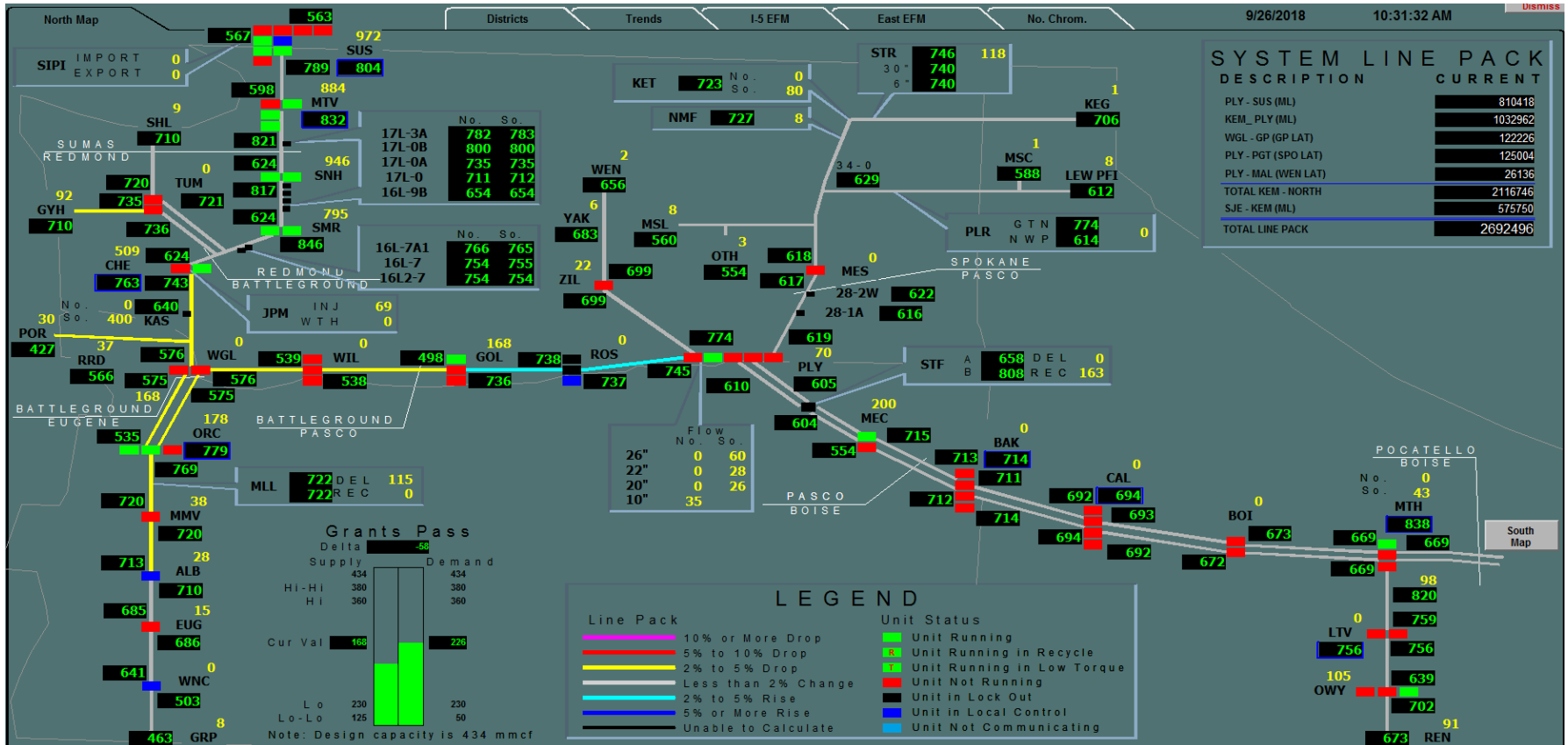
Dismiss

Meter	Station	Pressures		Flows		
		Customer Meter	Pipeline	Thruput	Receipt	Delivery
2 1 0 3 5	Enumclaw	237				1503
2 1 0 8 5	North Tacoma Odorizer	623	625			
2 1 0 8 5	North Tacoma	264	630			25165
Summer C/S		North	624			
		South	846	792999		
2 1 4 7 6	North Puyallup	223				3621
2 1 1 8 8	Rainier Terrace	798				2896
2 1 1 2 7	South Tacoma	46	771			0
2 1 4 5 8	Boeing-Fredrickson	180				609
2 1 5 0 8	Scott	766				38330
2 1 4 6 0	Puget Power	326	769			0
	Valve 16L-7A1		767			
2 1 4 2 8	Fredrickson	768	770			15189
2 1 3 7 8	Bethel	143				1936
	Valve 16L-7		754			
2 1 2 4 9	Yelm	229				1221
2 1 5 1 3	Grays Harbor	709	711			89471
2 1 5 3 5	Keys Road	708				0
2 1 2 1 9	McCleary	713				4665
2 1 2 1 3	Shelton	711				9927
2 1 3 7 0	Evergreen	279				1145
2 1 3 0 1	Little Rock	262				1417
Tumwater C/S		North	720			
		South	720	0		
2 1 0 8 4	Olympia	376	713			10543
2 1 2 5 0	Rainier	232				127





# Pipeline Monitoring



# Contact Us

- Randy Tarter, Operations Manager

Phone: (425) 836-4951

- Rodney Gregory, Land Supervisor

Phone: (425) 836-4953

- Maria Carlota Palacios, Public Outreach

Phone: (713) 215-4127

- Project Email

NorthSeattleLateral@Williams.com

- Project Website

<http://co.williams.com/expansionprojects/north-seattle-lateral-upgrade-project>

# Thank You