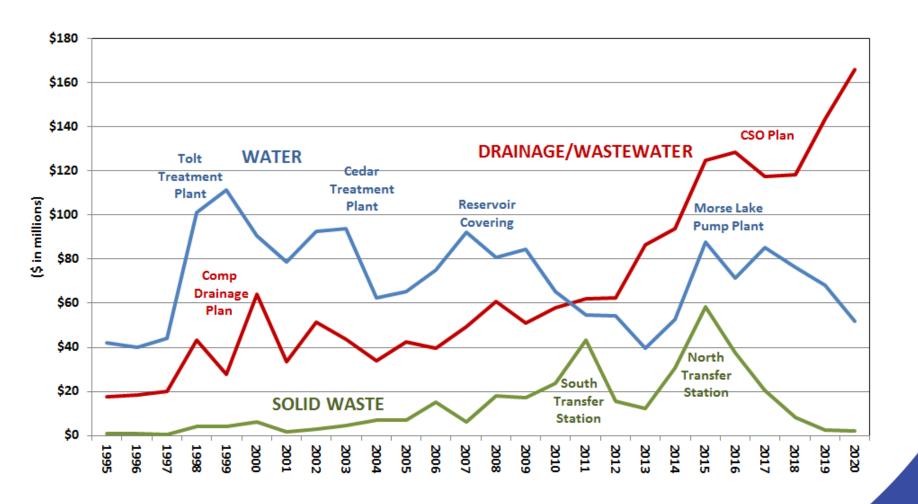
Seattle Public Utilities 2015 Capital Improvement Plan

Presentation to Seattle Public Utilities and Neighborhoods Committee



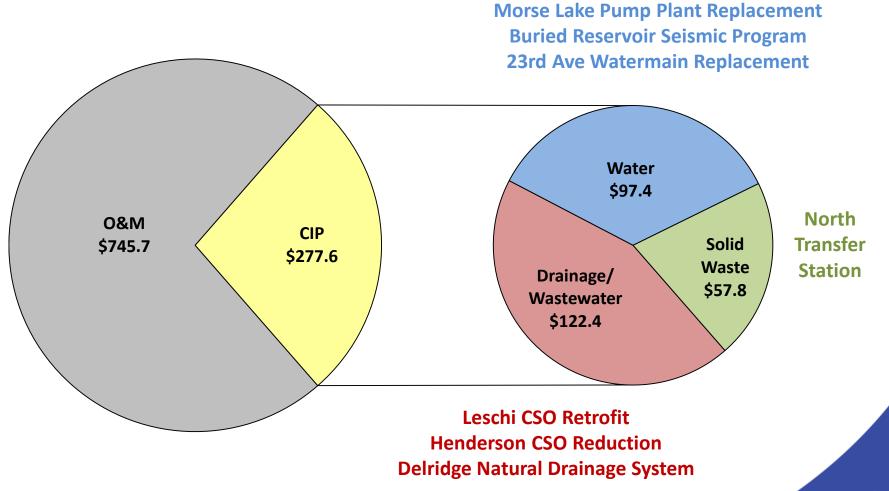
August 11, 2015

SPU Capital Improvement Program – 1995 to 2020





2015 Spending Plan (\$ in millions)





North Transfer Rebuild

- Former facility was too small, outdated and inflexible for current and future needs
- Complaints from the community regarding noise, odor, dust and traffic congestion
- New state of the art facility will address community concerns and allow flexibility to meet current and future needs





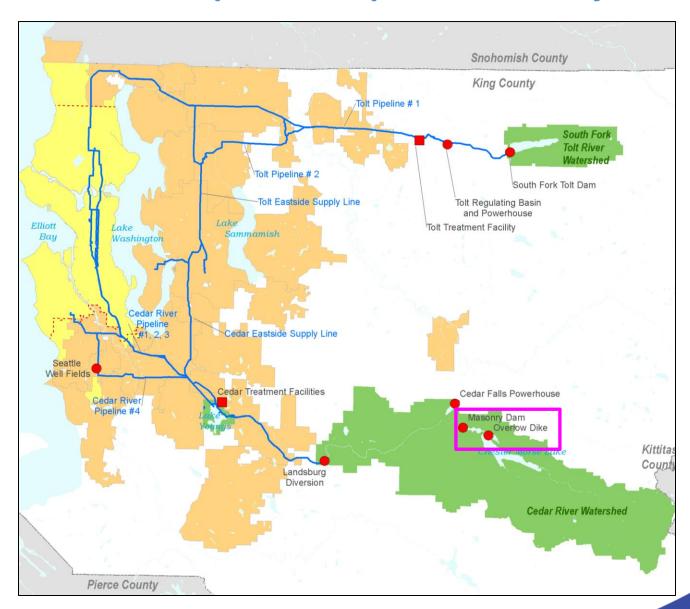
North Transfer Rebuild

- Fully enclosed building will control noise, dust, and odors and maintain sanitary conditions
- Separate entrance and drop-off areas for residents and garbage trucks improves safety and efficiency
- Separate Recycling/Reuse Building
- Community use area
- Solar panels on top of tipping building
- Project Status:
 - 2014 Mar Start of construction
 - 2016 Feb Anticipated substantial completion
 - 2016 Jun Opening of new station
- Total Projected Cost: \$105.8M



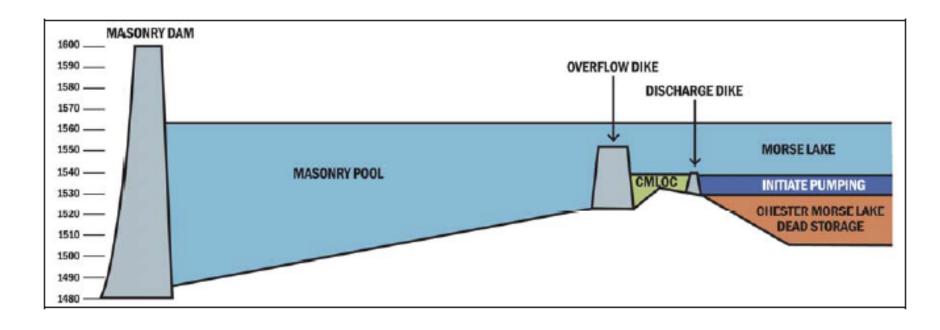


Morse Lake Pump Plant Replacement Project





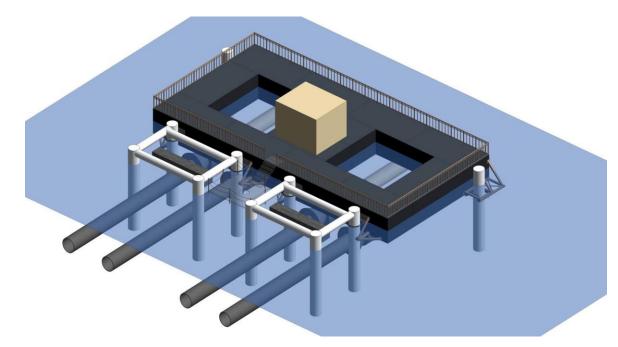
Morse Lake Pump Plant Replacement Project



With low water levels, pumps allow access to water stored below the discharge dike to meet instream flow commitments (fish) and demand (people)



Morse Lake Pump Plant Replacement Project



New Floating Pumps

- Existing pump plants are beyond useful life
- New pumps provide a safer and more reliable way to access water below the discharge dike
- Project Status:
 - 2015 Jun 10 to Sep 30 In-water work (pile installation and dredging)
 - 2015 Nov Testing and commissioning
 - 2016 1Q Project substantial completion
- Total Projected Cost: \$40M



Buried Reservoir Seismic Program



Improve seismic performance of four buried concrete reservoirs to reduce impacts to drinking water and firefighting supply following major earthquakes.

West Seattle Reservoir (30 MG)

Maple Leaf Reservoir (60 MG)

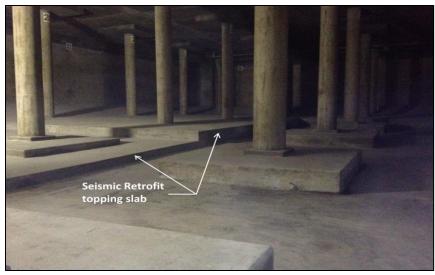
Myrtle Reservoir (5 MG)

Beacon Reservoir (50 MG)



Buried Reservoir Seismic Program





Addition of reinforced steel with concrete topping slab and wall liner

West Seattle Reservoir

 Complete and reservoir is back in service

Maple Leaf Reservoir

Construction 2015-mid 2016

Myrtle Reservoir

Construction 2015-mid 2016

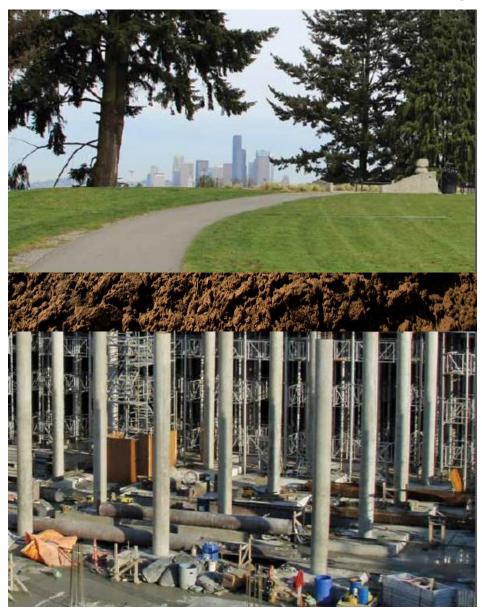
Beacon Reservoir

 Currently in design with construction projected to be completed in 2017

Total Projected Cost: \$25M



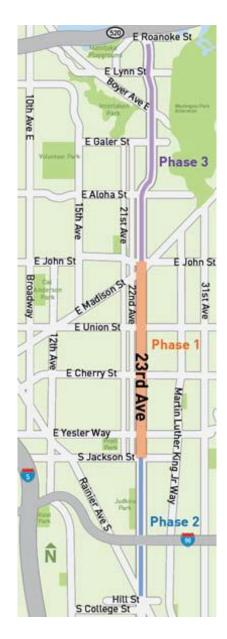
Buried Reservoirs – Invisible Systems/Visible Benefits



- Partnership with Seattle Parks Department
- Reservoirs covered with grass and other low-maintenance plants so that communities can use the new area
- Provides 76 acres of new open space



23rd Avenue Watermain Replacement



- Existing watermain unable to withstand roadway construction
- Reconstruction of 23rd Ave from 4 lanes to 3 lanes from S. Jackson St. to E. John St.
- Replace 90 year old watermain with new watermain meeting current standards
- Increased capacity and fire flow

Project Status:

- Began in Spring 2015
- Construction completion mid 2017
- Total Projected Cost: \$5M



Drainage/Wastewater System



Fully Separated System

354 total pipe miles

Partially Separated System

976 total pipe miles 553 combined pipe miles

Combined System

425 total pipe miles
350 combined pipe miles



Combined Sewer Overflows

SPU has invested \$130M in Combined Sewer Overflow (CSO) reduction since 2010

- 2 Green Infrastructure projects
- 8 Sewer System Improvements
- 6 CSO Storage projects
- 1 Flow Transfer project



2013 Consent Decree – Integrated Approach

CSO Projects

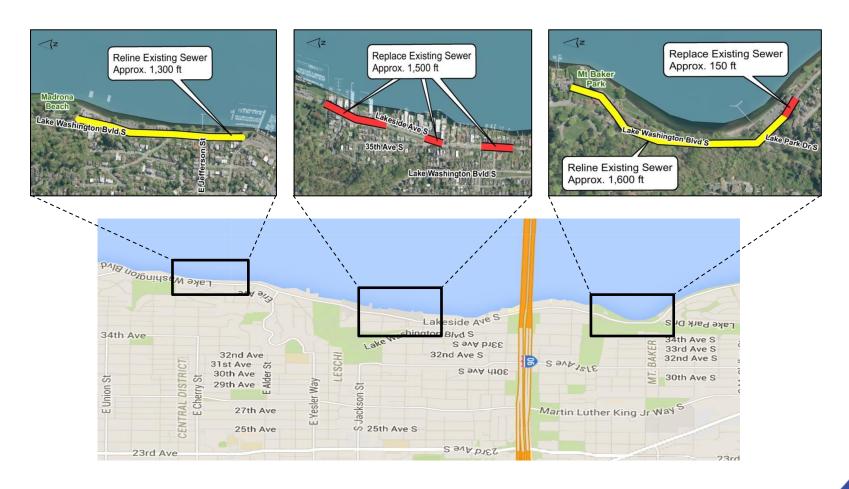
- Sewer system improvements by 2020
- West Ship Canal Tunnel project with King County by 2025
- 5 storage projects by 2025
- 5 storage projects by 2030

Stormwater Projects

- Natural Drainage Partnering
- Street Sweeping
- South Park Water Quality
 Treatment



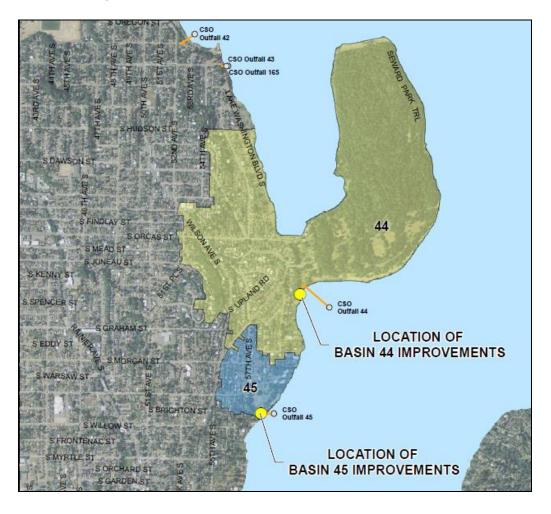
Leschi CSO Retrofit



- Pipe replacement/relining in lieu of future storage facilities
- Project Status: Construction 2015 Aug to 2016 Jan
- Total Projected Cost: \$5.9M



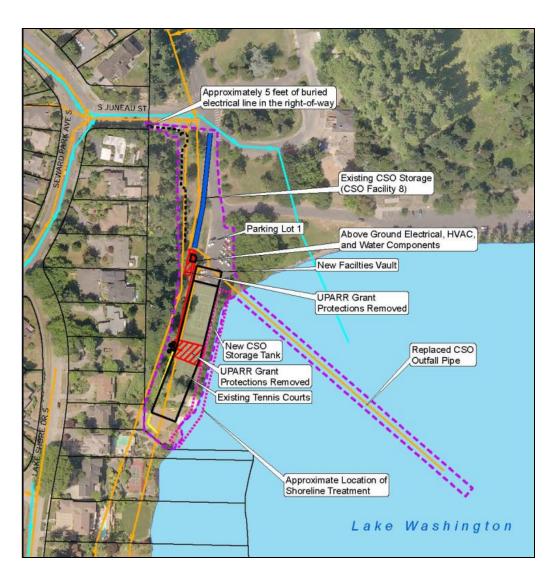
Henderson North/Seward Park CSO Reduction



Reduce overflows from two combined sewer basins to achieve regulatory compliance.



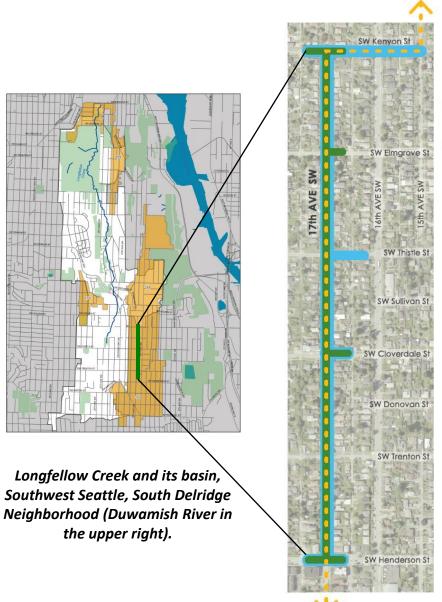
Henderson North/Seward Park CSO Reduction



- 2.65M gallon storage tank
- Replaced outfall
- Improved Shoreline and underused portion of the park
- Partnering with SCL to improve service to Park
- Project Status: Construction
 2015 2017
- Total Projected Cost: \$66.6M



Delridge Natural Drainage System (NDS)



- Neighborhood Greenway Route

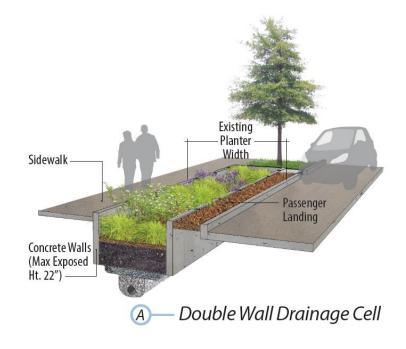
 NDS Project Area

 NDS Project
 Tree Planting
 - Reduce CSO overflows into Longfellow Creek
 - Partner with SDOT on outreach, site selection and design
 - Historically underserved and ethnically diverse community



Delridge Natural Drainage System (NDS)





- Challenge: Locate roadside raingardens within a completely developed street
- Project Status: Construction 2015 Fall to 2016 Spring
- Total Projected Cost: \$6.1M



SPU's Improved Project Delivery

CIP Accomplishment Rate

2010	2011	2012	2013	2014	Projected 2015
72%	85%	74%	81%	91%	96%

SPU continues to improve ability to keep projects moving and spend according to plan.

