



COUNCIL STUDY SESSION

2019 Comprehensive Solid Waste Management Plan

**Andy Rheaume, Operations Manager
Pat McLaughlin, KC Solid Waste Director
June 25, 2019**

Purpose

Provide overview of the 2019 Solid Waste Comp Plan.

- The plan sets the direction for the King County solid waste system through 2040.

Overview

- Presentation covers recycling goals, transfer stations, garbage disposal.
- City Council has until its September 10, 2019 meeting to consider adoption

What we are asking Council to do tonight

- Receive King County presentation
- Ask questions



King County

Department of
Natural Resources and Parks
Solid Waste Division

Waste
Prevention

Resource
Recovery

Waste
Disposal

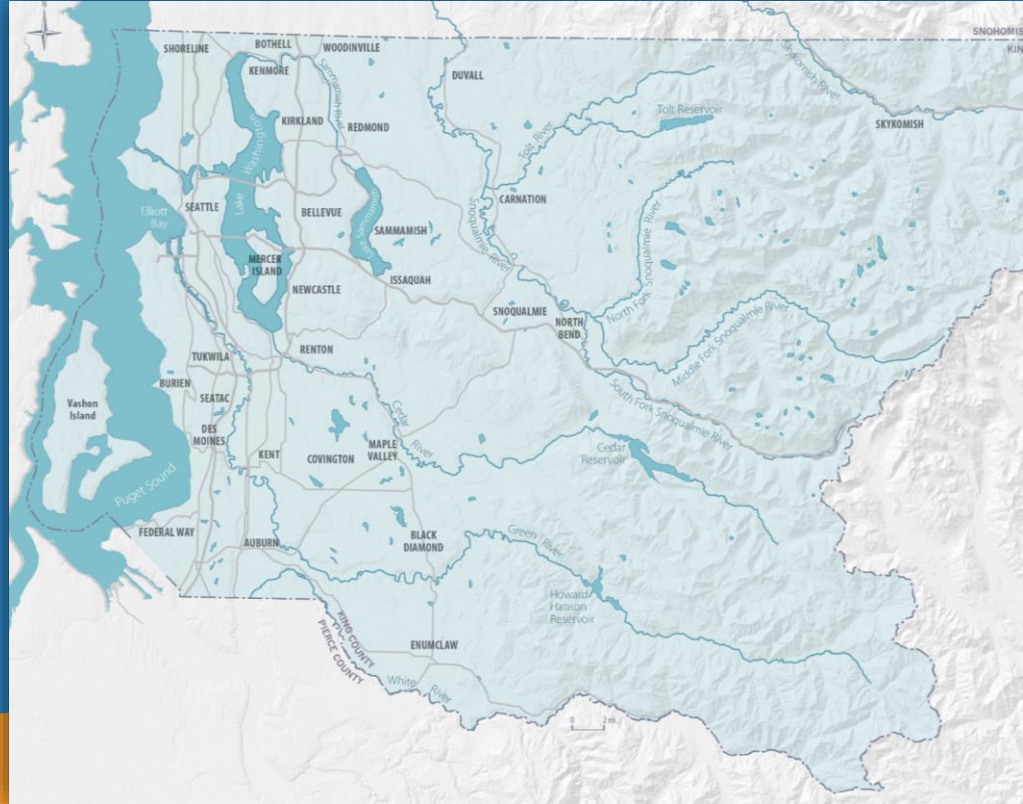
2019 Comprehensive Solid Waste Management Plan

June 25, 2019

A Plan for King County's Regional System

- 2,132 square miles
- King County and 37 cities
- 1.5 million residents*
- 931,000 tons of garbage*

*2017



King County

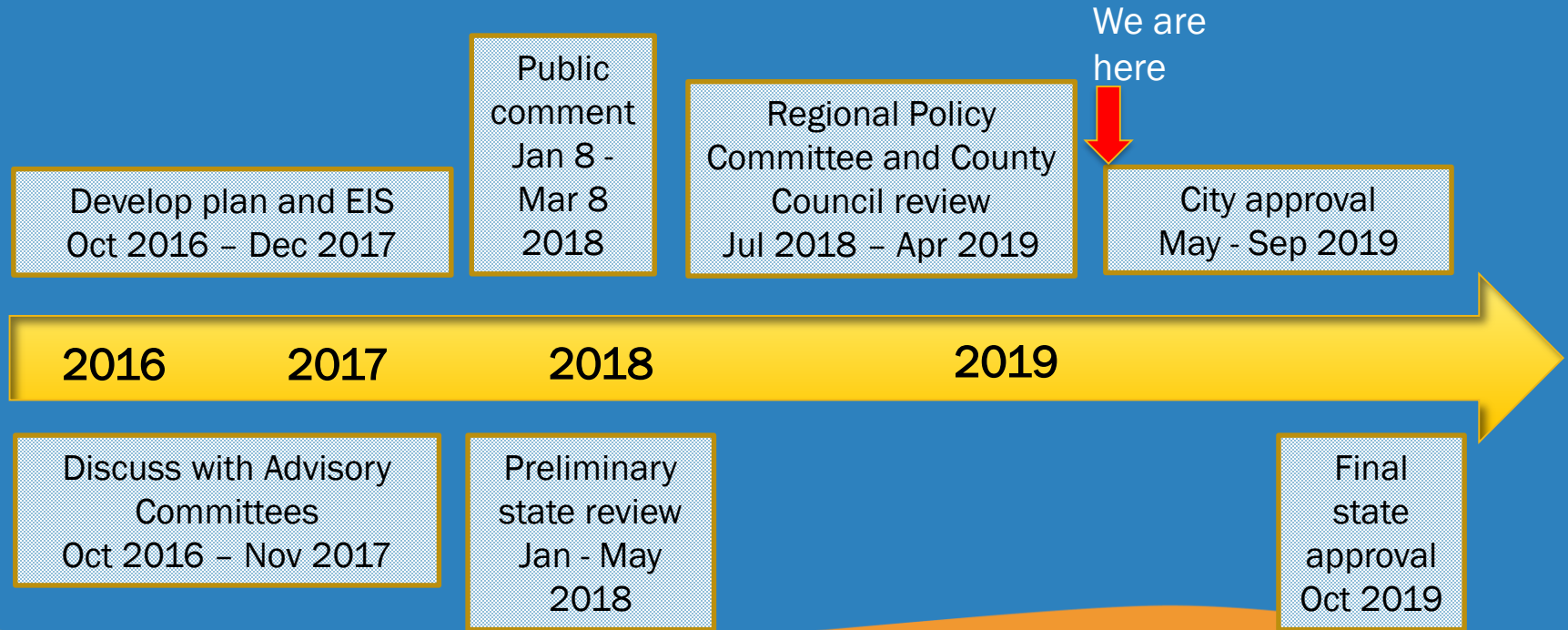
Department of
Natural Resources and Parks
Solid Waste Division

Public/Private Partnership

- **King County**
 - Transfer stations
 - Landfill
- **Cities**
 - Provide/contract for curbside collection
- **Private Companies**
 - Curbside collection
 - Materials recovery facilities (MRFs)
- **County/Cities/Private**
 - Promote recycling and sustainability



Steps in Plan Approval



Six Major Planning Elements



Existing Solid
Waste System



Forecasting &
Data



Sustainable
Materials
Management
(Recycling)



Transfer &
Processing



Disposal &
Landfill
Management



Finance

Key Policy Recommendations



Disposal

Transfer
Services

Recycling



King County

Department of
Natural Resources and Parks
Solid Waste Division



Sustainable Materials Management



King County

Department of
Natural Resources and Parks
Solid Waste Division

Waste
Prevention

Resource
Recovery

Waste
Disposal

Plan: Menu of Actions to Reach 70% Recycling

- Aspirational goal of moving recycling from 54% to 70%
- Menu of actions lets cities tailor approaches to their needs while working toward more unified regional approaches





King County

Department of
Natural Resources and Parks
Solid Waste Division

Waste
Prevention

Resource
Recovery

Waste
Disposal

Transfer and Processing

King County Waste Transfer System

- 8 urban stations
 - Modernization complete or underway for all except NE service area
- 2 rural drop boxes



Plan: Continue Modernizing Facilities

- Finish station modernization including a new NE facility
- Benefits
 - Improved customer convenience
 - Faster unloading
 - Expanded recycling services
 - Garbage compaction
 - Sustainable building design and operation
 - Equitable service levels



King County

Department of
Natural Resources and Parks
Solid Waste Division



King County

Department of
Natural Resources and Parks
Solid Waste Division

Waste
Prevention

Resource
Recovery

Waste
Disposal

Disposal

Plan: Further Develop Cedar Hills Landfill

- Maximize capacity within existing landfill footprint
- **Benefits**
 - Lowest cost per ton
 - Lowest greenhouse gases
 - Manages waste locally
 - Provides time to plan for next disposal option after Cedar Hills is full
- **Work must begin this year to have new capacity ready in time**



King County

Department of
Natural Resources and Parks
Solid Waste Division

Protecting Employees, Public, and Environment is a Top Priority

- SWD is accountable for the quality of air, groundwater, leachate, and stormwater
 - Over 600 gas and 70 water wells are regularly monitored for compliance
- Cedar Hills accounts for less than 10% of reported odor complaints to the Puget Sound Clean Air Agency
 - Cedar Hills is staffed 24/7 with highly skilled and trained professionals who do around-the-clock odor checks six times a day.
- Active landfill areas are covered daily to control odors and reduce potential for wildlife to carry away garbage

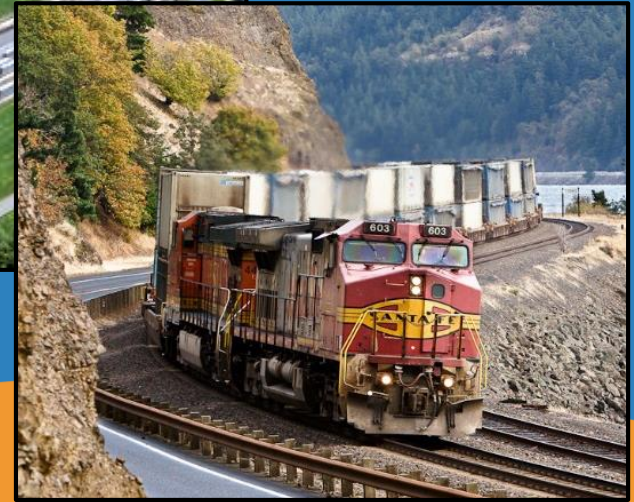


King County

Department of
Natural Resources and Parks
Solid Waste Division

Next Plan Update Will Identify Post-Cedar Hills Disposal Method

- Start discussion well before the 5-year update cycle
- Options
 - Waste-to-Energy (mass burn)
 - Waste Export by Rail
 - Other emerging technologies



King County

Department of
Natural Resources and Parks
Solid Waste Division

City Approval of the Plan

- Governed by interlocal agreements
- City legislation in a 120 day period
- Plan is approved if approved by cities representing $\geq 75\%$ of the population of cities that act within 120 days
- After city approval, Department of Ecology gives final approval within 45 days





King County

Department of
Natural Resources and Parks
Solid Waste Division

Waste
Prevention

Resource
Recovery

Waste
Disposal

King Street Center
201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
206-477-4466
711 TTY Relay
your.kingcounty.gov/solidwaste



King County

Department of
Natural Resources and Parks
Solid Waste Division

Next Steps

- Council to consider adoption of the 2019 Comp Plan July 2, 2019.

Recommendation

- Staff recommends council approve the 2019 Comp Plan
 - Cost savings in extending the life of Cedar Hills landfill to 2040
 - Increased diversion of recyclables and compostables from landfill



Thank you. Any Questions?

Andy Rheume, Operations Manager

You can reach me at ajrheume@Redmond.gov or x2741