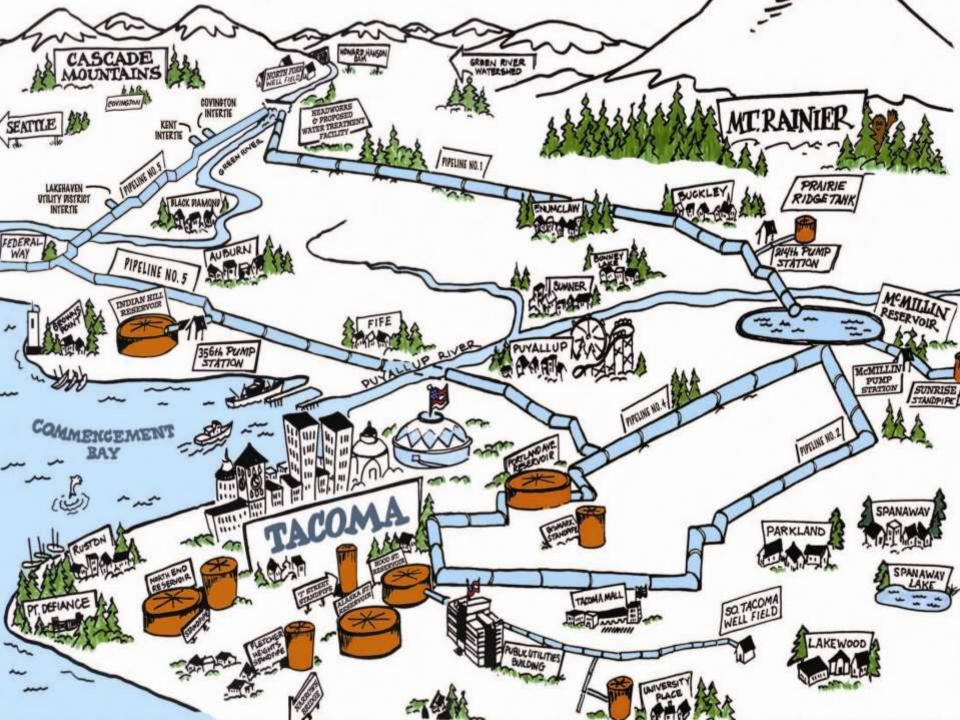


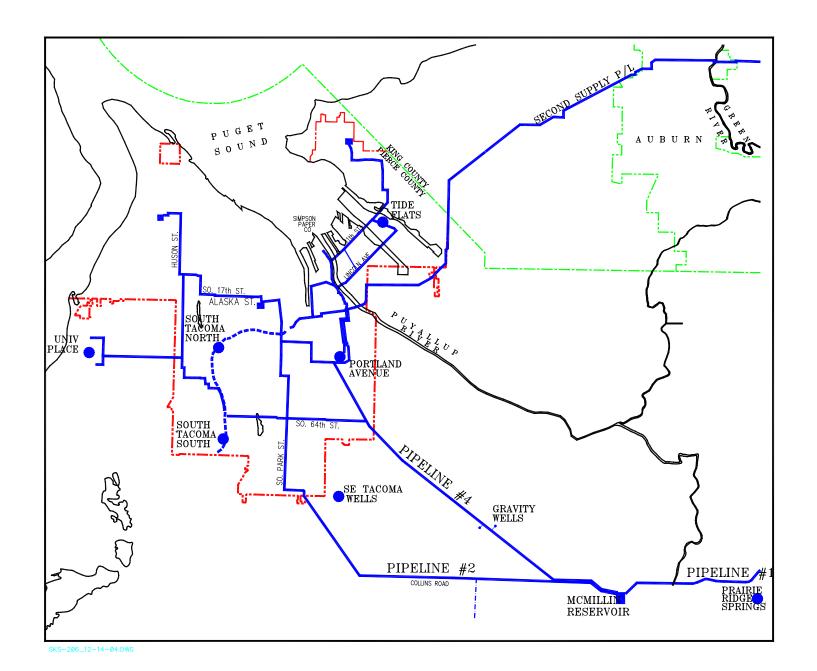
### Our Mission:

- Protect public health by providing high quality water service.
- Make home life more enjoyable and economic development possible through quality and reliability of service.
- Act in a socially and environmentally responsible manner.
- Make Tacoma a better place in which to live and work.

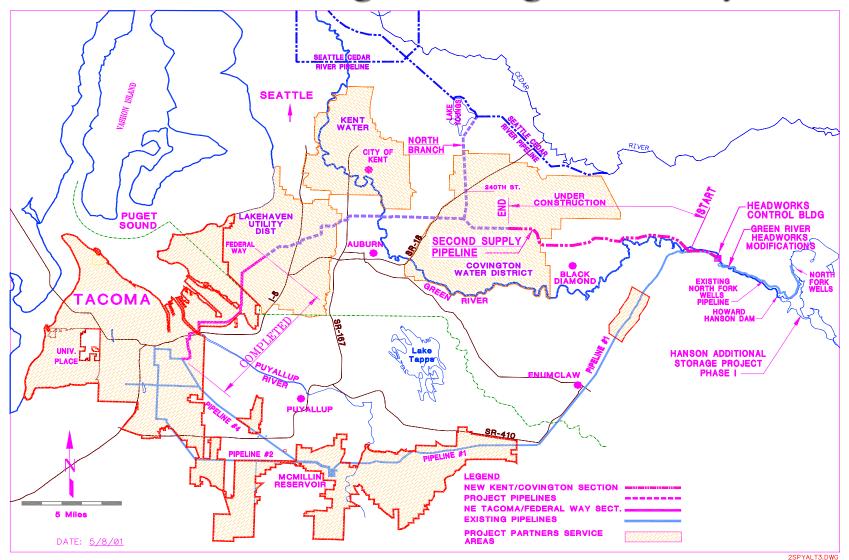


## Tacoma's System

- Tacoma Water Facts
  - 105,000 Service Connections
  - Over 1400 Miles of Main
    - > 2" to 96" Diameter
  - 11,000+ Hydrants
  - Max available supply of 168 MGD.
  - 256 Employees



#### How did Tacoma get such a good water system?

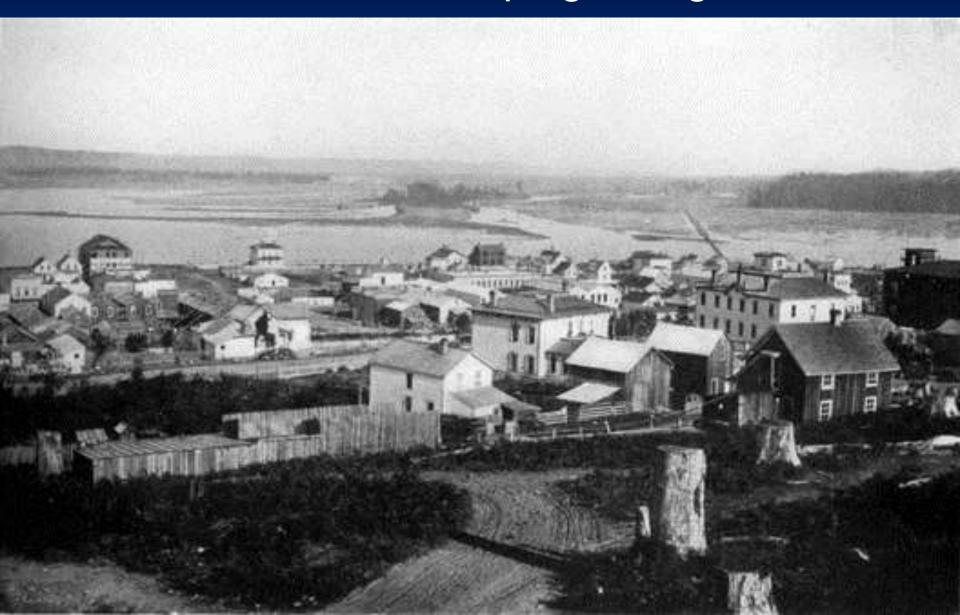


## History

Early Tacoma had plenty of locally available drinking water.



# Downtown Tacoma – 1880's The town keeps growing

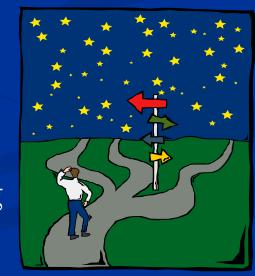


## You are on you own

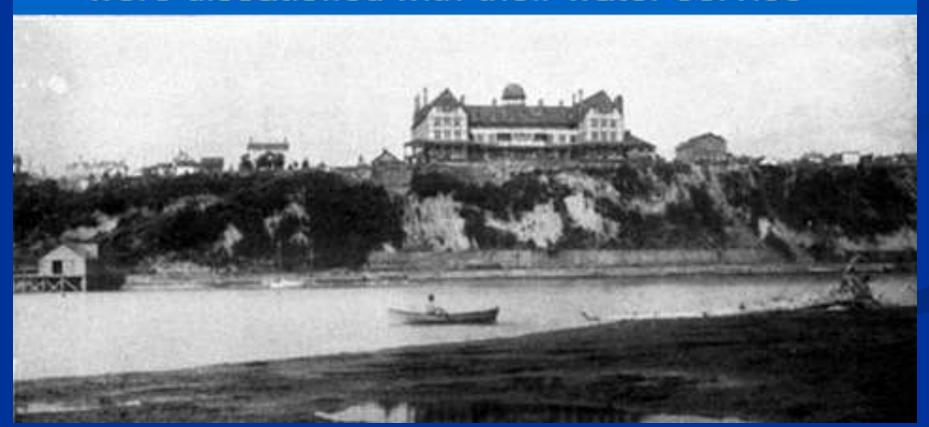
- Small water systems began serving localized areas of town
- None of these systems adequately met drinking water or fire protection needs
- Typhoid was common
- Fires regularly destroyed groups of wooden structures (fire of 1873)
- Citizens demanded a real water system

## A Snapshot of Local Water History...

- Through the late 1800's, Tacoma residents suffered with unreliable, unsafe water. Typhoid was common.
- In 1893, dissatisfied Tacoma residents voted to buy the largest privately operated water system.
- Problems remained, and worsened, as little money was available to upgrade the system.
- There was also indecision about choosing a new source.



- The Tacoma Hotel was built for travelers arriving on the Northern Pacific Railroad
- Development would stop without a municipal Water system; City fathers and citizens alike were dissatisfied with their water service



- In 1893, dissatisfied Tackman's voted to buy the water system. (Tacoma Light & Water) \$1,750,000
- Problems remained, and worsened.
- Hired first Superintendent
- The new water system was not keeping up with Tacoma's growth
- By the early 1890's quality & quantity were both inadequate

## Original Hood Street Reservoir

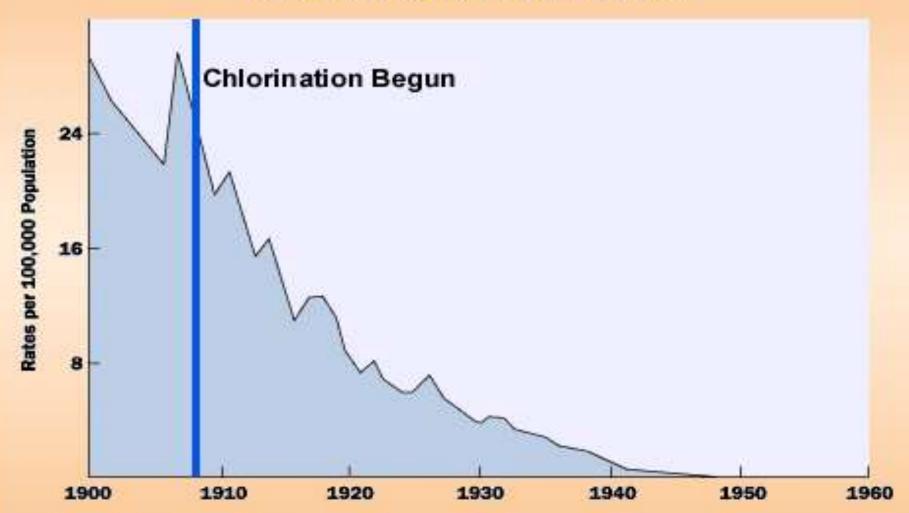




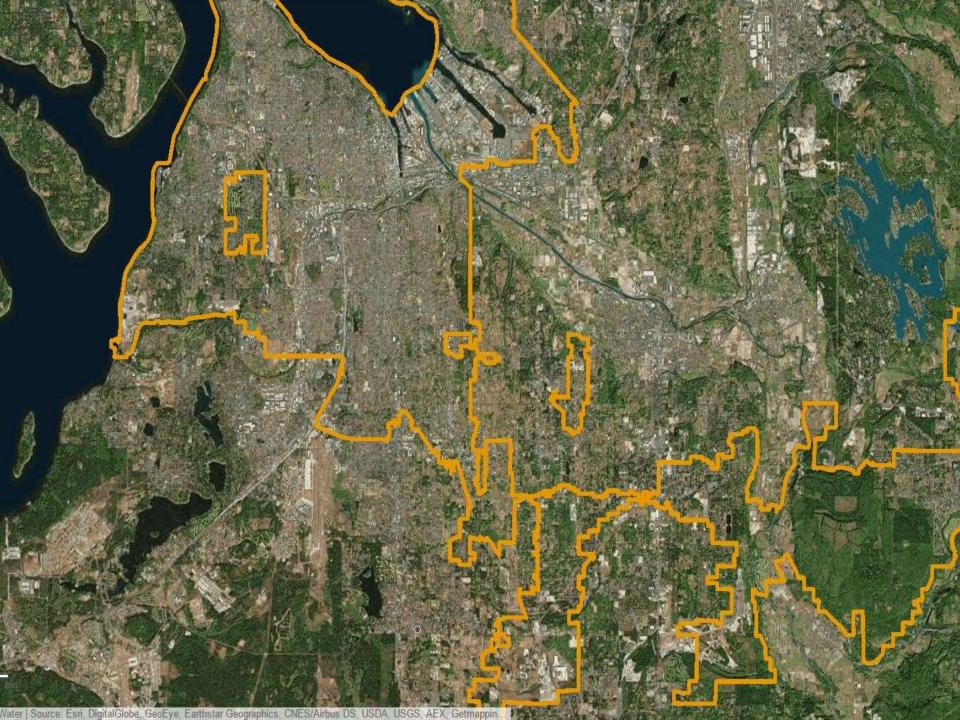


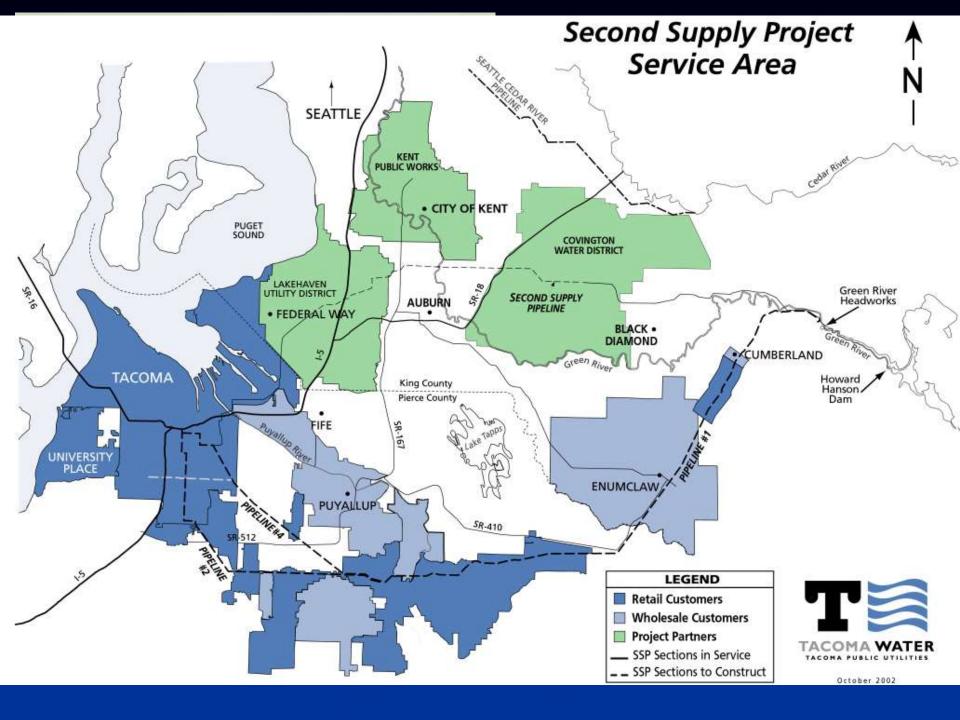


#### Death Rate for Typhoid Fever United States, 1900-1960



Source: U.S. Centers for Disease Control and Prevention, Summary of Notifiable Diseases, 1997.







### Tacoma The Latecomer

- The Green River watershed had considerable development by 1913
- Local and State Health rules allowed Tacoma some control
- Landowners were uncooperative
- Additional chlorination equipment installed



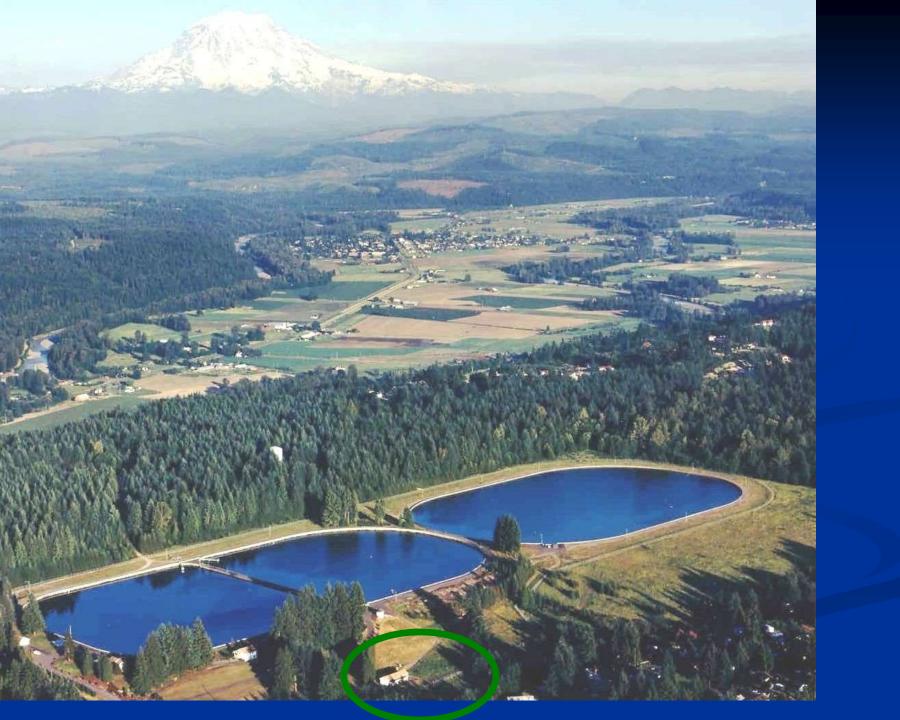














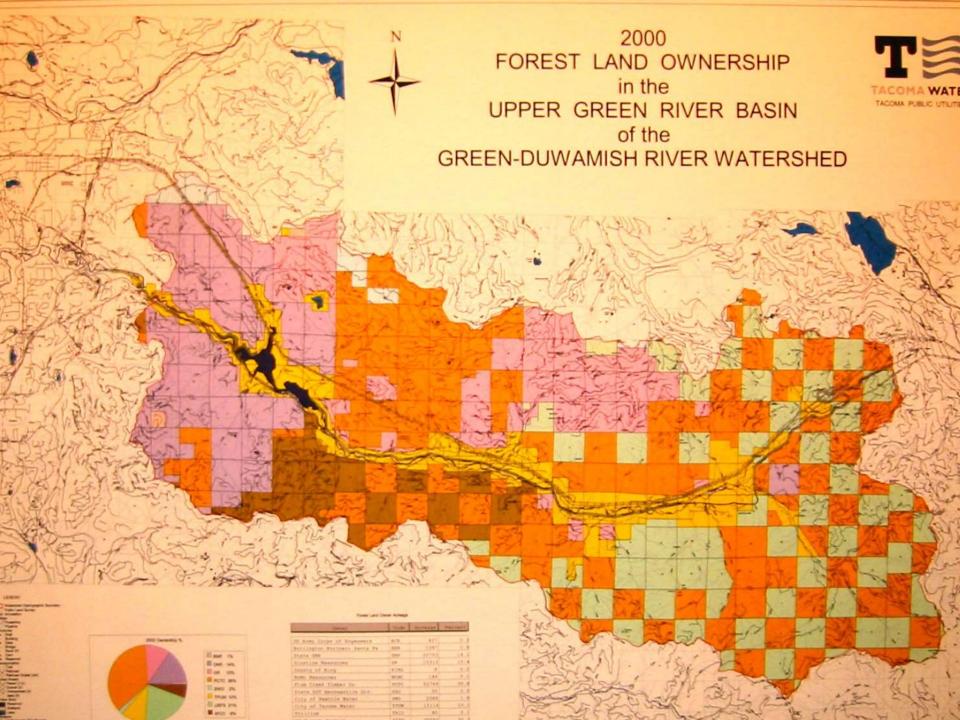






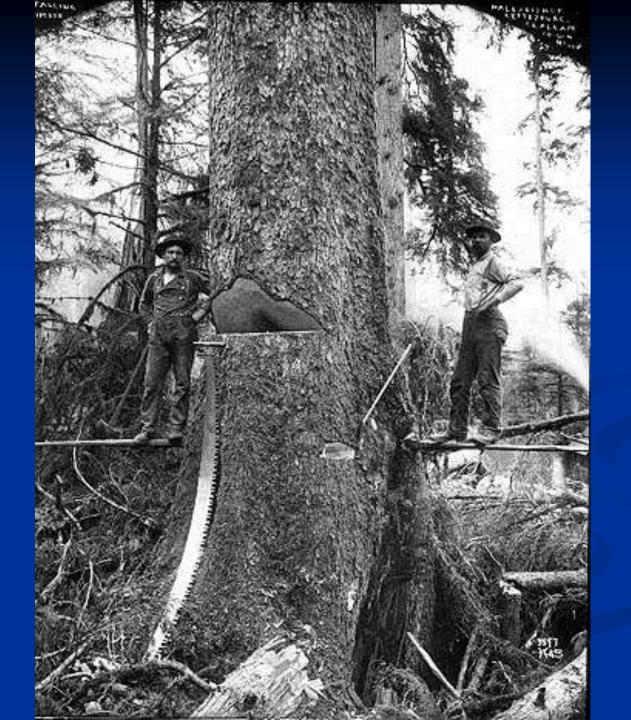
# The Green River Watershed Tacoma The Latecomer

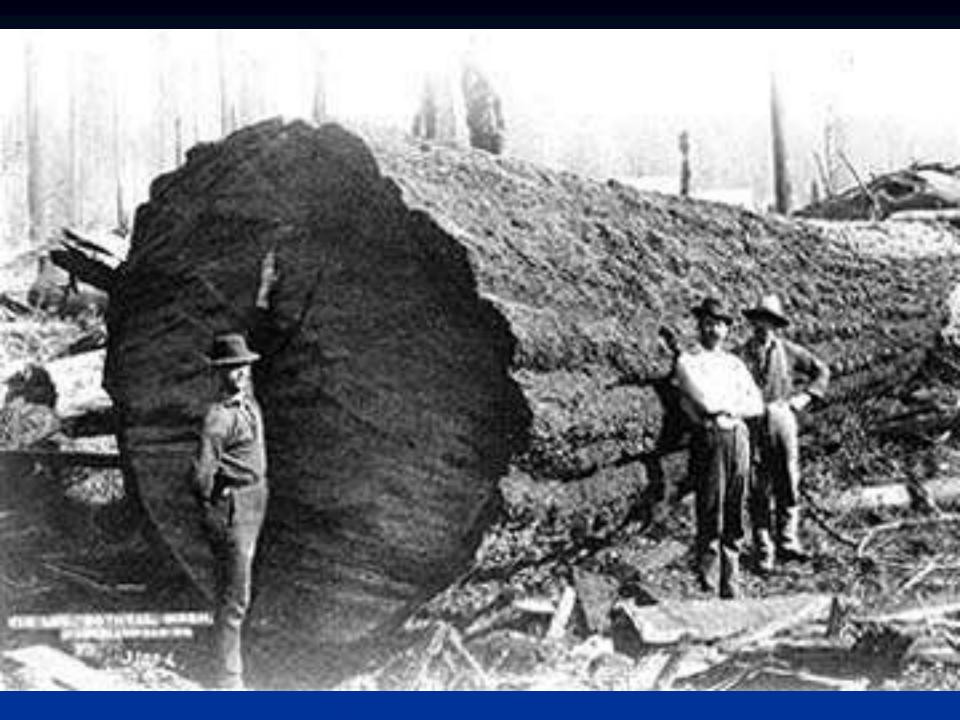
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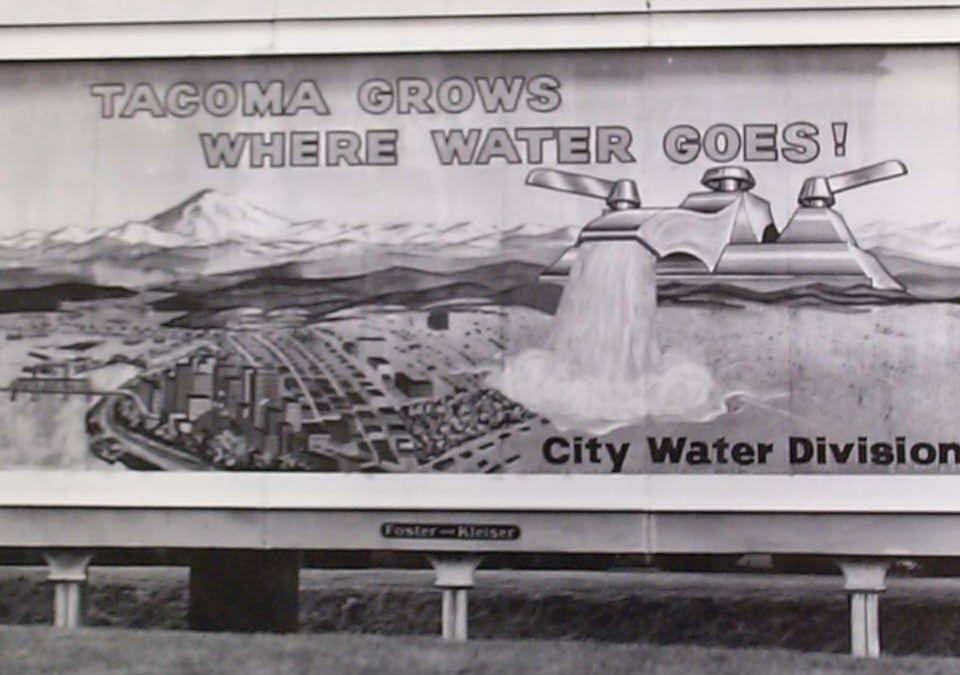




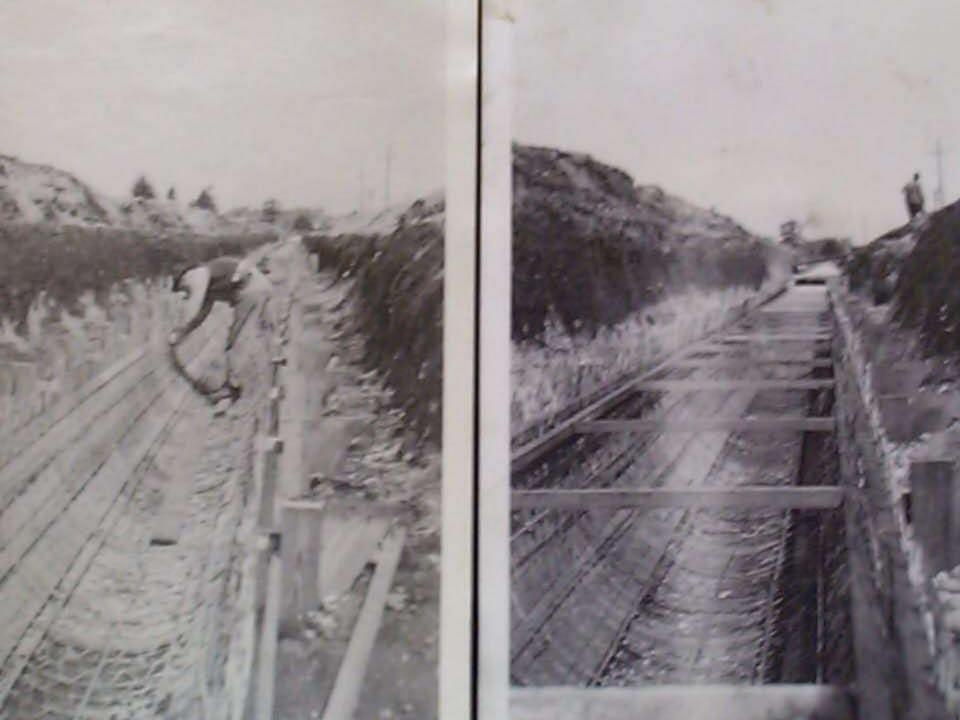








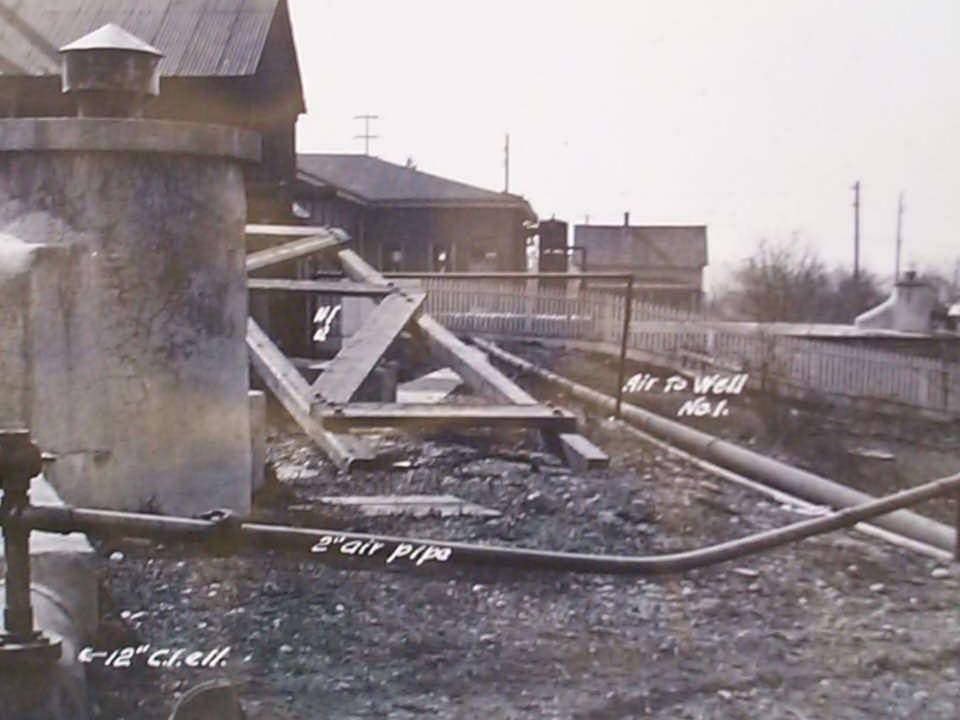




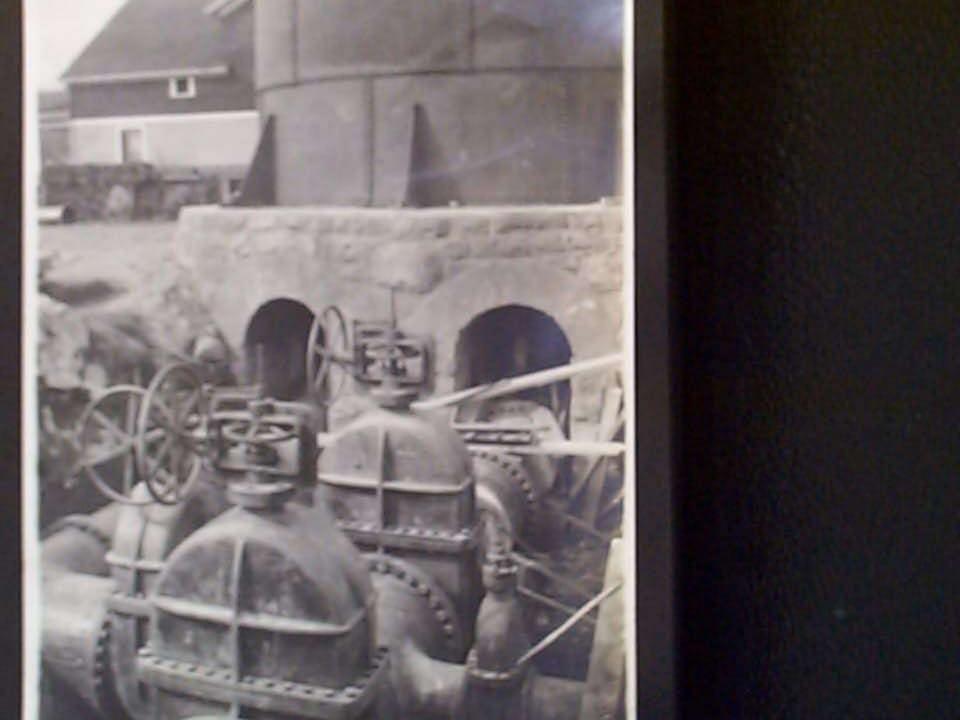














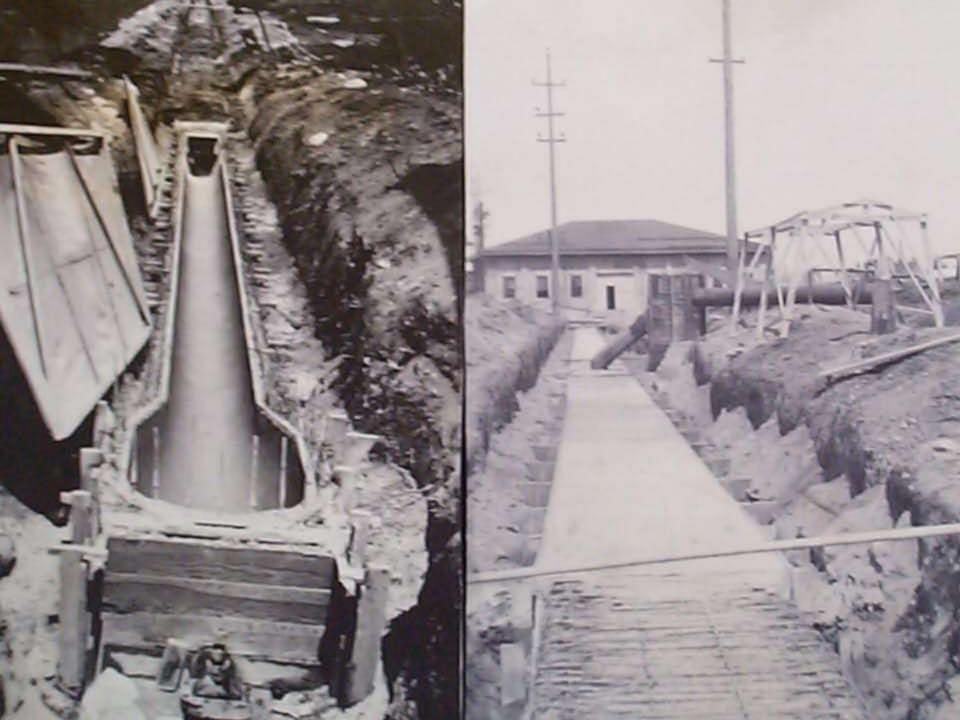
































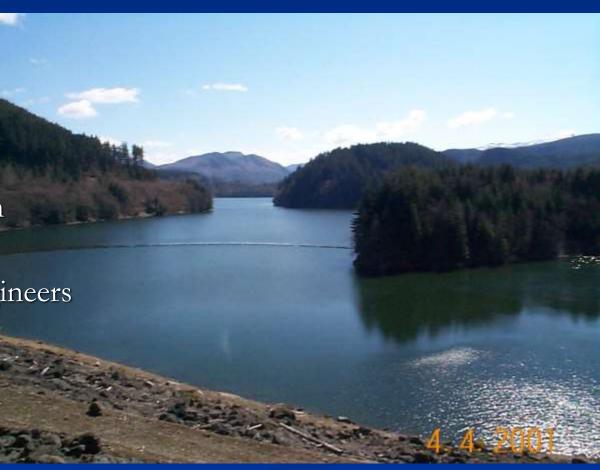






## Green River Watershed (Now...)

- 231 square miles
- Uninhabited
- Landowners
  - Forest Service
  - State of Washington
  - Timber Companies
  - Army Corps of Engineers
  - BNSF Railroad
  - Bonneville Power
  - Tacoma Water



## Cooperation

- With Landowners
  - Helps maintain controlled access
  - Landowner Agreements
    - Tacoma will:
      - patrol watershed
      - cite trespassers
      - Install gates as necessary
    - Landowner agree to:
      - Follow watershed rules to protect water quality

## Cooperation (Cont.)

- Muckleshoot Indian Tribe
  - Agreement for 1<sup>st</sup> & 2<sup>nd</sup> diversion water rights
  - Access for:
    - Hunting
    - Game management
    - Cultural & ceremonial activities
  - Fish Hatchery
  - Land in the watershed
- Dept. of Fish & Wildlife
  - Permit hunt
  - Game Management
  - Year-around enforcement

## Second Supply Project Project Description

A major regional water supply project that delivers additional water from the Green River to Tacoma and three South King County utilities. The value of environmental enhancements included in the project is over \$75 million. Principal project elements are:

- Green River Headworks Diversion improvements and additions
- Second Supply Pipeline (34 miles)
- Headworks water treatment facilities
- Howard Hanson Dam Additional Storage Phase 1
- Numerous environmental enhancement projects
- Total Cost about \$221 million

























- What's Next
- AMI
- Asset Management
- Supply Infrastructure Replacement
- Lead Gooseneck Project
- Mobile Tools
- Planning, Scheduling, Improving
- System & Knowledge Transfer

