

National Pollutant Discharge Elimination System (NPDES) Permit

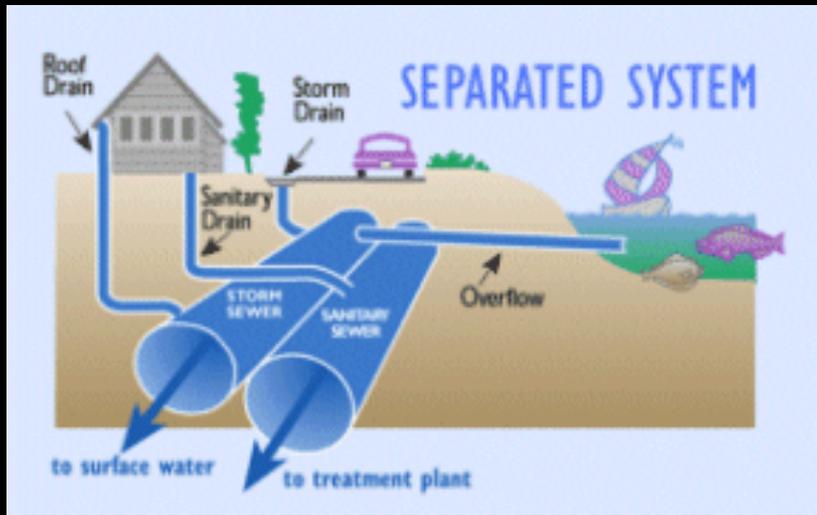
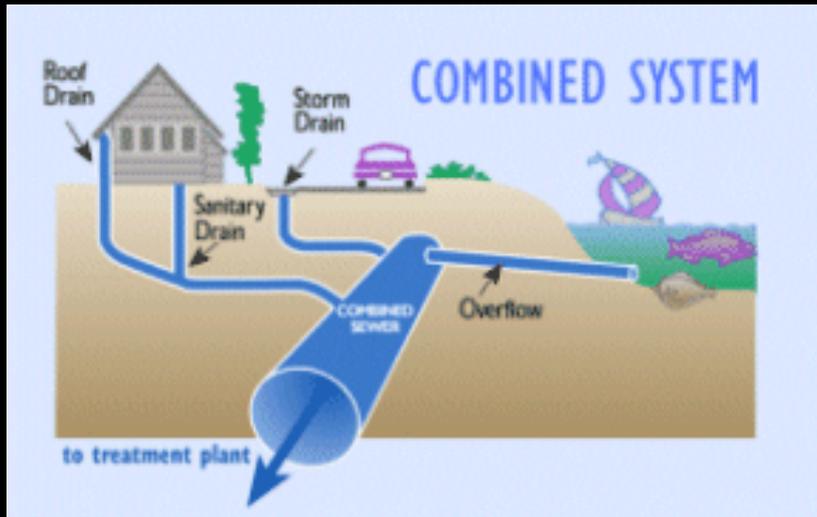
Combined Sewer Overflow (CSO) Phase I Project

Department of Ecology /Toxics Cleanup Program
Public Meeting
April 30, 2012

Public Meeting Purpose

- Combined Sewer Overflow project
- Focus on National Pollutant Discharge Elimination System (NPDES) permit
- Provide information about the NPDES permit
- Answer NPDES permit questions

What is a Combined Sewer Overflow?



- Combined Sewer: A pipe that carries both sewage and stormwater
- Overflow Points : A relief valve for high flows
- Common in older construction.

CSOs: A problem because...

- CSOs contain a potent blend of raw sewage, stormwater, commercial and industrial wastewater
- High concentration of bacteria, metals (copper, lead and zinc), sediment, oxygen demand



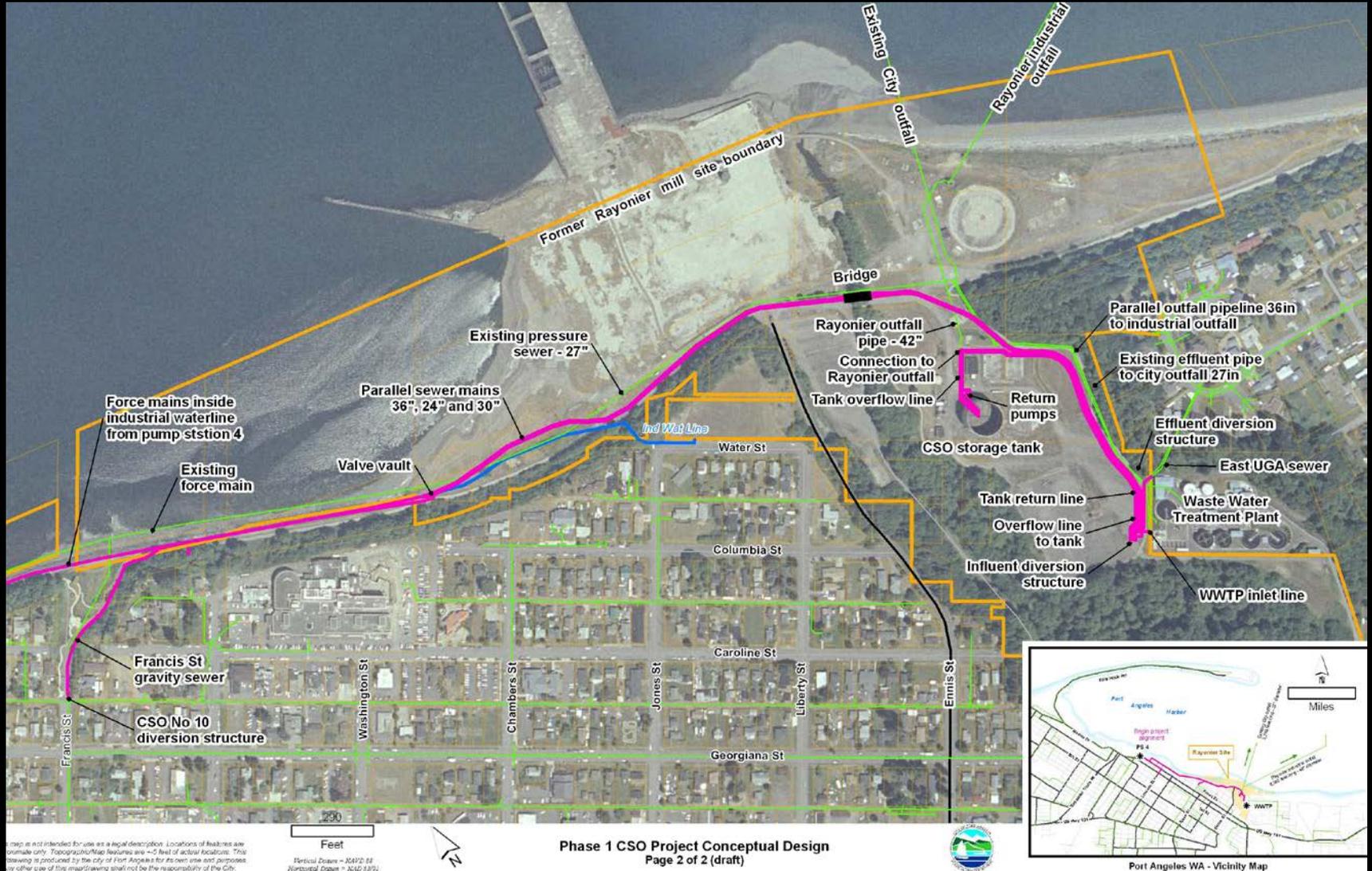
Alternatives for controlling CSOs

- Address the combined flow
 - **Transport / Store / Treat**
 - Cost Estimate: About \$40 M
- Source Control
 - **Separate** sanitary lines from storm pipes
 - Cost Estimate: About \$180 M

CSO Phase I Project Location



CSO Phase I Project Location

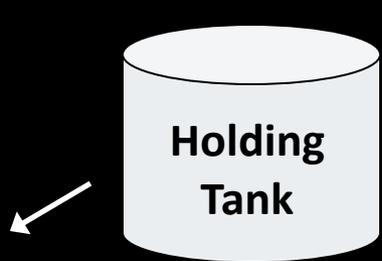
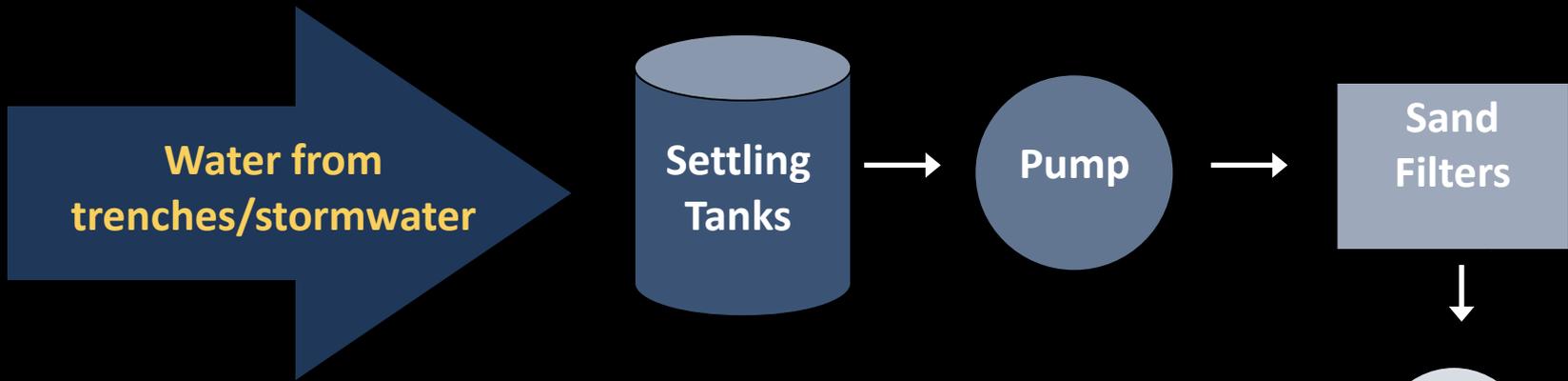


Project Area

- **Outside/Inside Rayonier Mill (Model Toxics Control Act (MTCA))**
- Outside - Front Street and Oak Street
- Inside – Control vault pass Francis Street to City of Port Angeles Municipal Treatment Plant

Treatment System

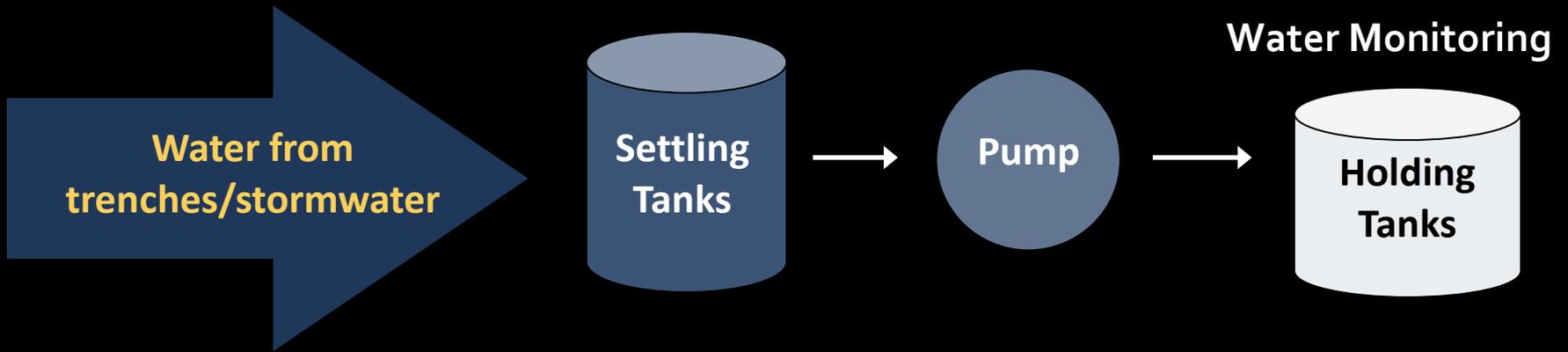
- Treatment system includes (inside the Rayonier Mill)
 - Settling tanks
 - Sand filters
 - Carbon filters
- Treatment system includes (outside the Rayonier Mill)
 - Settling Tank (additional treatment to meet permit limits)



Water Treatment System

(inside Rayonier)

Treated water discharge to City of Port Angeles wastewater treatment plant



Water Treatment System (outside Rayonier)



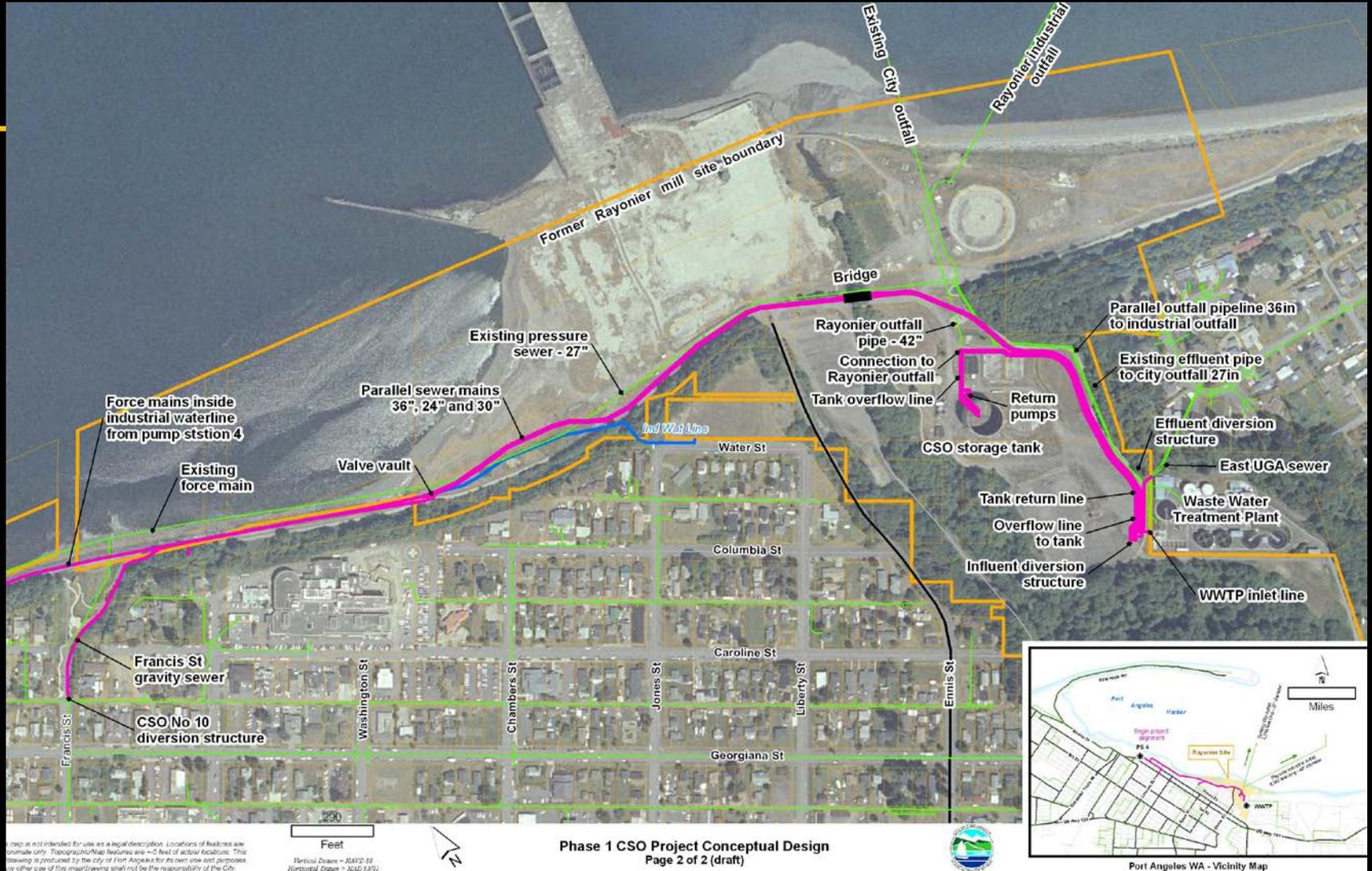
NPDES Permit Requirements

- Limits for Outfall 001
 - Limits for metals, flow and biochemical oxygen demand
- Limits for Outfall 002
 - Turbidity
 - pH
- Other permit conditions (monitoring, additional testing)
- Stormwater Pollution Prevention Plan (Best Management Practices)

CSO Phase I Project Location



CSO Phase I Project Location



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**QUESTIONS on
NPDES permit?**

Contact Information

- **NPDES Permit – Mohsen Kourehdar**
Phone (360) 407-6256 or
Mohsen.Kourehdar@ecy.wa.gov
- **Response to comments**
 - All comments from public meeting and NPDES comment period
 - Available online:
 - Water Quality Web site
 - Toxics Cleanup / Rayonier Web site