



### Background & Purpose

Mason County is constructing the Belfair Wastewater and Water Reclamation Facilities project. This new utility is seen as a pivotal element vital to the health of Hood Canal and the future development of Belfair. The facility has been designed to provide a sustainable approach to water management that protects Hood Canal and treats wastewater to Class A standards for water reuse. On a long-term basis the project will support the backbone for urban infrastructure in Belfair as mandated by the Growth Management Act.

### Location

Belfair, Washington (Belfair is an unincorporated, Urban Growth Area in Mason County).

### Construction

- On-schedule with completion expected at the end of 2011
- Conveyance lines: 95 percent complete
- Water Reclamation Facility: Treatment basin structures are 90 percent complete
- Pump stations: Under construction with completion expected in early 2011
- Work continues on laying side sewer stubs

### Water Reclamation Facility & Storage Pond

- 30-acre site, located east of Belfair, across the railroad tracks, in a previously undeveloped area.
- Ability to treat 0.5 million gallons of wastewater per day.
- Construction elements include a headworks facility, membrane bioreactor system (MBR), an ultraviolet light (UV) disinfection system, and associated buildings and sitework.
- Design includes flat panel MBR system, energy saving blowers, low impact development techniques with rain gardens and permeable pavements, and building design with LEED principles in mind.
- Water Reclamation Facility Contractor: Boss Construction.

### Pump Stations

- Three pump stations
- Structures are designed to fit within its surroundings with sustainable design in mind
- Pump Station Contractor: Ceccanti, Inc.

### Pipes/Conveyance Lines

- 14,000 feet of gravity sewers
- 19,000 feet of force mains
- 5,000 feet of low pressure lines
- Conveyance Pipe Contractor: Ceccanti, Inc.

### Environmental Benefits

- Mason County will have a safe, efficient, and environmentally friendly sewer system in key areas of the Belfair Urban Growth Area, benefitting the health of Hood Canal.
- Using modern biological treatment technology the plant could reduce nitrogen by over 80 percent prior to reaching natural surroundings.
- The project helps preserve the natural environment by reintroducing Class A water into natural surroundings and making it available for reuse.
- When operational, the Class A reclaimed water will be used for irrigation initially. Long term, Mason County will seek additional customers for reused water to preserve water supply.

### Economic Benefits

- On a long-term basis, this project provides the backbone for urban infrastructure in Belfair, supporting planned population growth and economic development.
- 150: Businesses in Belfair's downtown core, currently serviced by on-site septic systems.\*
- 214: Acres of industrial land that will be ready for development upon project completion.\*
- 1,500: Potential jobs over 10-year period created by the project.\*
- 40-60: Short term project-related positions created for planning and construction per month.\*\*

### Consultant Team

- Envirolssues - Public outreach
- Harris & Associates - Construction management
- Materials Testing Inc. - Onsite inspection
- CH2M HILL – Treatment system and conveyance design engineer
- ESA - Side sewer connections engineer
- FCS Group - Rate and fee analysis

\* As reported by Economic Development Council of Mason County, November 18, 2008.

\*\* Belfair Wastewater and Water Reclamation Facilities Project information.

### Media Contact:

Erin Taylor, Public Outreach Coordinator | Phone: (360) 801-2482  
E-mail: [info@masoncountywastewater.com](mailto:info@masoncountywastewater.com) | Website: [www.masoncountywastewater.com](http://www.masoncountywastewater.com)

