



During Spring 2010, the CSO Beach Projects team will review these alternative means of accomplishing CSO control. Public input will help to inform King County's decision on a proposal for CSO Control in each project basin. The proposal will then go through the environmental review process required by state law.

How You Can Participate

- Visit the CSO Program Web page to learn about King County's work to reduce combined sewer overflows
- Visit the CSO Beach Projects Web page www.kingcounty.gov/CSOBeachProjects
 - learn about work in Barton, Murray, Magnolia, and North Beach area
 - give feedback online until April 16
- Attend public meetings to view presentations, ask questions, and provide feedback
- Contact us:
 - E-mail CSOBeachProjects@kingcounty.gov
 - Contact Monica Van der Vieren at 206-263-7301

Alternative Formats Available

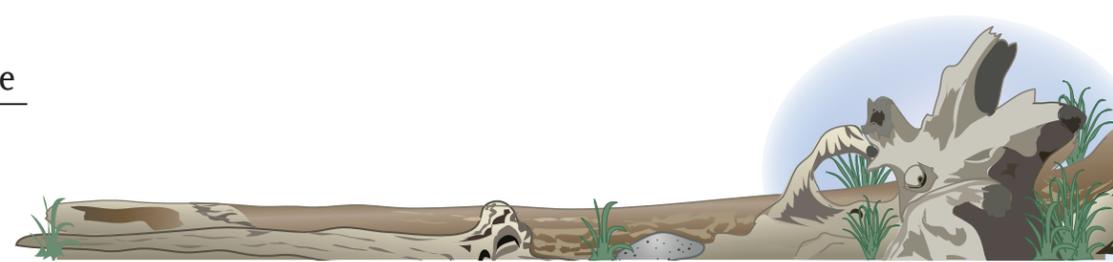
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Creating Resources from Wastewater



King County Presents Alternative Means for Combined Sewer Overflow Control in West Seattle and North Seattle

Learn More and Provide Input at Public Meetings

Barton
March 18, 2010
6-8:30 p.m.
Southwest Community Center
2801 S.W. Thistle St., Seattle

Magnolia
March 23, 2010
6-8:30 p.m.
Magnolia Community Center
2550 34th Ave. W., Seattle

Murray (Morgan Junction)
March 29, 2010
6-8:30 p.m.
Southwest Community Center
2801 S.W. Thistle St., Seattle

North Beach
March 30, 2010
6-8:30 p.m.
Loyal Heights Community Center
2101 N.W. 77th St., Seattle

King County's CSO Beach Projects team has identified several alternative means for CSO control in the Barton, Murray, North Beach and Magnolia areas. In areas where stormwater and sewage flow in the same pipe, overflows into waterways can occur during heavy rains. CSO control projects will help manage peak flows from areas of Barton, Murray, North Beach and Magnolia connected to the county's CSO facilities, limiting overflows of untreated stormwater and sewage to Puget Sound.

In public meetings during Fall 2009, the project team presented approaches for CSO control, including conveyance, storage, on site treatment and stormwater reduction (demand management). People were informed about the upcoming development of CSO control alternatives and opportunities for public participation.

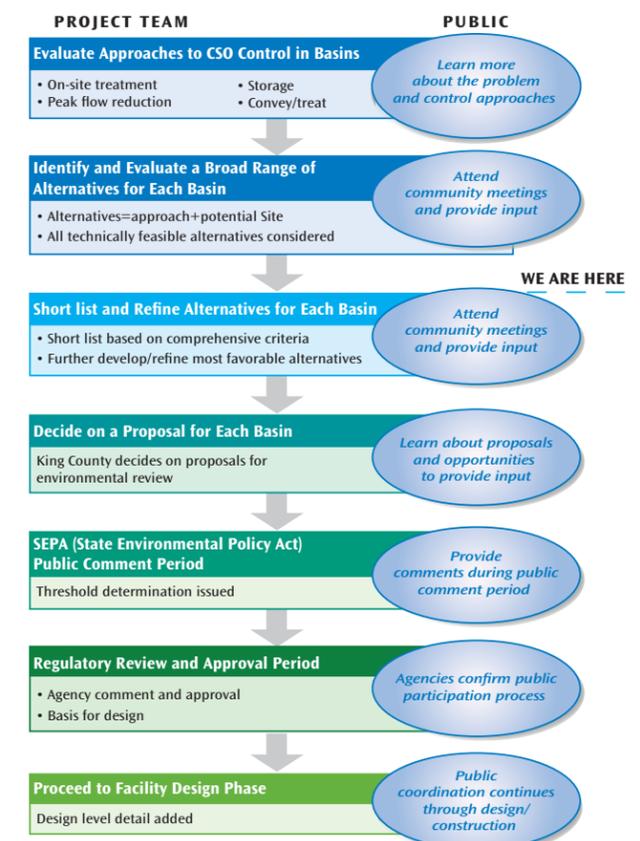
Inside, you will find information about alternatives for CSO control for the Murray basin and opportunities to attend public meetings and provide input.

King County will decide on a proposal for CSO control in each of the four project basins: Barton, Murray, North Beach, and South Magnolia. The public will have opportunities to inform the county's decision process.



This diagram will help you keep track of the decision process and opportunities to participate

The King County Wastewater Treatment Division (WTD) provides high quality regional wastewater service. As part of WTD's mission to protect public health and the environment, the Combined Sewer Overflow (CSO) Program has worked to reduce overflows of combined stormwater and sewage since 1980. King County has reduced CSO volume from 2.3 billion gallons per year to less than 1 billion gallons per year.



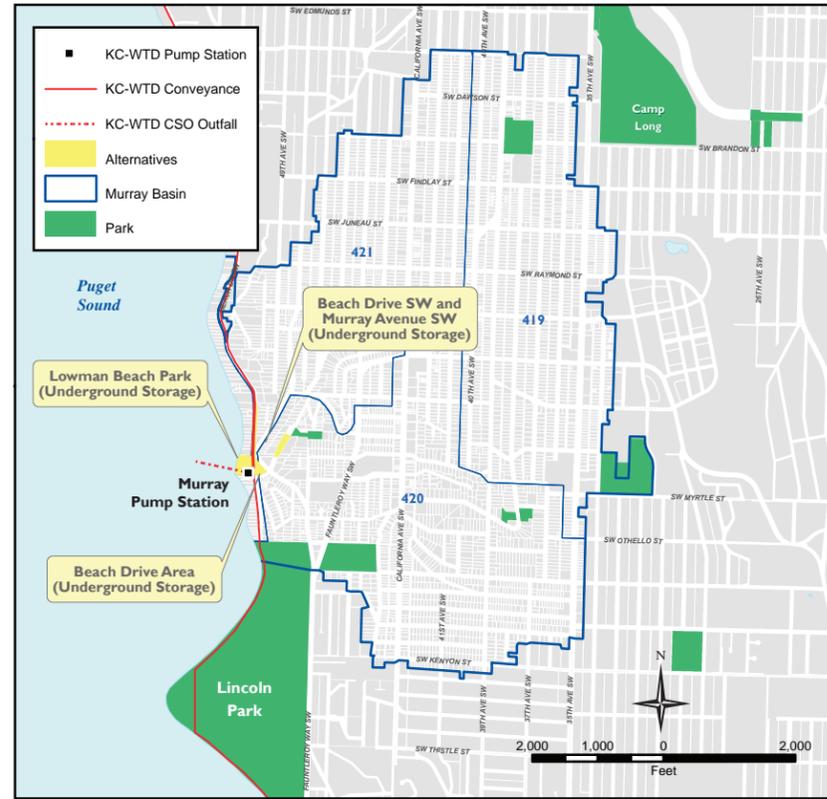
For more information: www.kingcounty.gov/CSOBeachProjects

Alternatives means for CSO control in Murray Basin

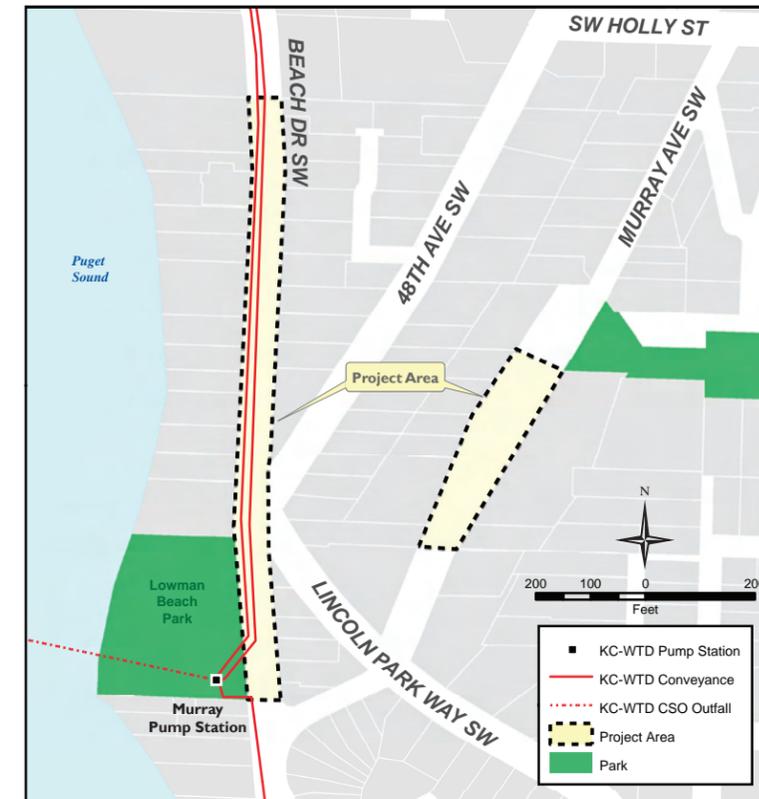
In 2008, King County reported that the Murray CSO facility has five overflows per year on average that discharge a total of five million gallons into Puget Sound from the outfall off Lowman Beach Park. Alternative means being considered must be capable of managing a volume of about 1 million gallons of peak flows in order to meet regulatory requirements.

Information about proposed alternatives for CSO control projects in Murray is provided below, including some of the benefits and challenges King County has identified for each alternative

Location of alternative means for CSO Control in Murray Basin.



Beach Drive SW and Murray Ave SW (underground storage)



Project elements

- Two large diameter underground storage pipes in Beach Drive and Murray Avenue
- Above ground odor control and electrical facilities
- Diversion structure in Lowman Beach Park and Murray Avenue to send flows to storage

Benefits

- Project located mostly in street right-of-way outside of shoreline zone
- Similar to other King County operating facilities

Challenges

- Utility relocation will be required
- Requires construction and operation of two separate facilities
- Facility size and frequency of use will be higher to capture peak flows
- Some above ground facilities will be required
- Traffic disruptions will occur during construction
- Since Murray Avenue storage pipe is not at the bottom of basin it will require more complex flow management

Lowman Beach Park (underground storage)



Project elements

- Underground storage tank at Lowman Beach Park
- Odor control and electrical facilities
- Underground diversion structure to send flows to tank

Benefits

- Location is at the bottom of basin providing a reliable flow management strategy and simplified controls
- Single facility similar to other King County operating facilities
- Lowest level of complexity to operate and maintain

Challenges

- Property use needed at Lowman Beach Park
- Some above ground facilities will be required
- Temporary park access restrictions during construction
- Facility access requirements for operations and maintenance may reduce park use
- Located in shoreline zone

Beach Drive area (underground storage)

Project elements

- Underground storage tank located on private property and potential for additional pipe storage in Beach Drive
- Odor control and electrical facilities
- Underground diversion structure to send flows to storage

Benefits

- Project located partly in street right-of-way with limited work in shoreline zone
- Location is at the bottom of basin providing a reliable flow management strategy and simplified controls
- Similar to other King County operating facilities

Challenges

- Requires property acquisition
- May require construction and operation of two separate facilities
- Some above ground facilities will be required
- Traffic disruptions will occur during construction

