

CSO Puget Sound Beach Projects

Alternatives Development:
Inflow Management & Green Infrastructure

*Combined
Sewer
Overflow Control*



King County

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MWPAAC E & P Subcommittee
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Overview

1. Project alternatives
2. Terminology
3. Recent developments
4. CSO Control
5. Examples



Beach Project Alternatives

- Develop nine total alternatives
 - Storage
 - **Demand management**
 - Conveyance
 - Or a combination
- Choose a preferred alternative for facilities plan

Terminology

- Demand management
 - Reducing the quantity of inflow to the CSS
- Low impact development (LID)
 - Strategy emphasizing use of natural site features and small scale stormwater controls
- Green infrastructure
 - Inflow management approaches and technologies in urban retrofits
- All used to accomplish same goal
 - Reduce inflow to combined system

Recent Developments

- EPA adopts green infrastructure strategy
January 2008
 - Use green infrastructure to protect water quality in stormwater, CSO, nonpoint source and other water programs
 - EPA requiring green alternative evaluations in long term CSO control plans

CSO Program

- Develop a green infrastructure program
- Evaluate feasibility of green infrastructure
 - Puget Sound Beach Projects
 - Future CSO projects
- Evaluate cost effectiveness of grey vs green
- Evaluate cost sharing

Bioretention



Bioswales



Porous Pavement



Green Roof



Planter Boxes



Thank you

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