King County

Barton CSO control

Green stormwater infrastructure

Completed – Fall 2015

Planning Design Construction **Operations**

King County is responsible for regular maintenance of the roadside rain gardens year round. You can expect to see crews onsite at least monthly performing regular maintenance. Expect more frequent visits before and after large storms, and during the summer growing season.

Learn more by visiting the operations page for the Barton CSO control facility (roadside rain gardens).

24-hour emergency and odor reporting:

Contact West Point Treatment Plant at 206-263-3801.

Final project newsletter, October 2017

King County has installed curb markers on every block with information on how to contact the County with questions or concerns about the rain gardens. Please call 206-263-3801 if you see:

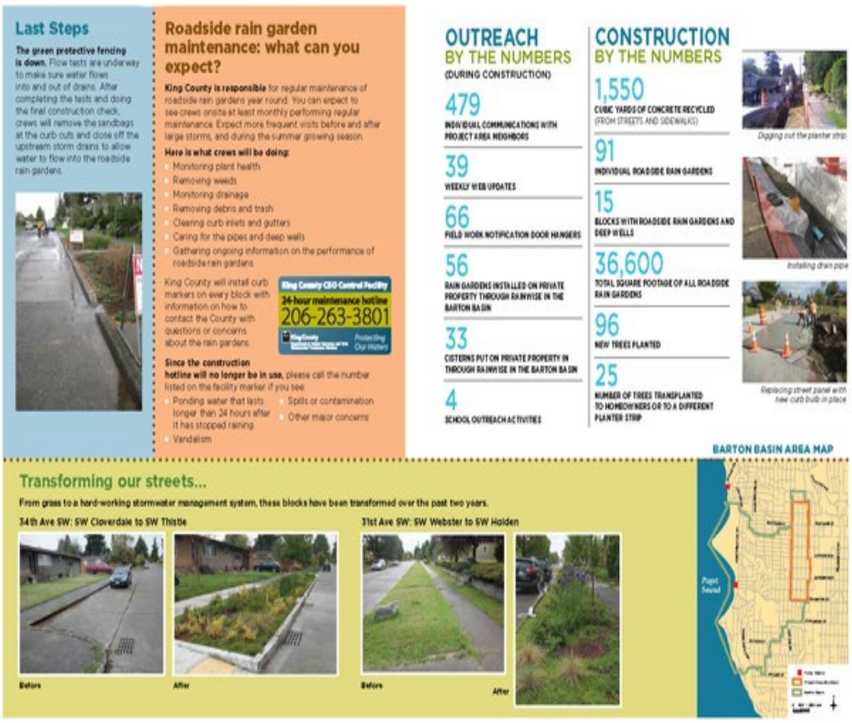
- Ponding water that lasts longer than 24 hours after it has stopped raining
- Vandalism
- Spills or contamination
- Other major concerns

Project description

King County constructed 91 roadside rain gardens, a type of green stormwater infrastructure, on 15 blocks in the Sunrise Heights and Westwood neighborhoods in West Seattle. Located in the planter strip between the curb and sidewalk, these roadside rain gardens divert stormwater runoff away from the combined sewer system. When it rains, stormwater filters through the rain

Project location

garden soil to a drain pipe, which takes the water to a deep well for slow infiltration underground. Keeping stormwater out of the sewer system will reduce CSOs of raw sewage and untreated stormwater into Puget Sound near the recently upgraded Barton pump station and Fauntleroy ferry dock.



Learn more: view the Summer 2015 project newsletter

If you see a piece of trash, pick it up. Thank you for your ongoing care of the roadside rain gardens in your neighborhood. You are doing your part to protect the health of Puget Sound!

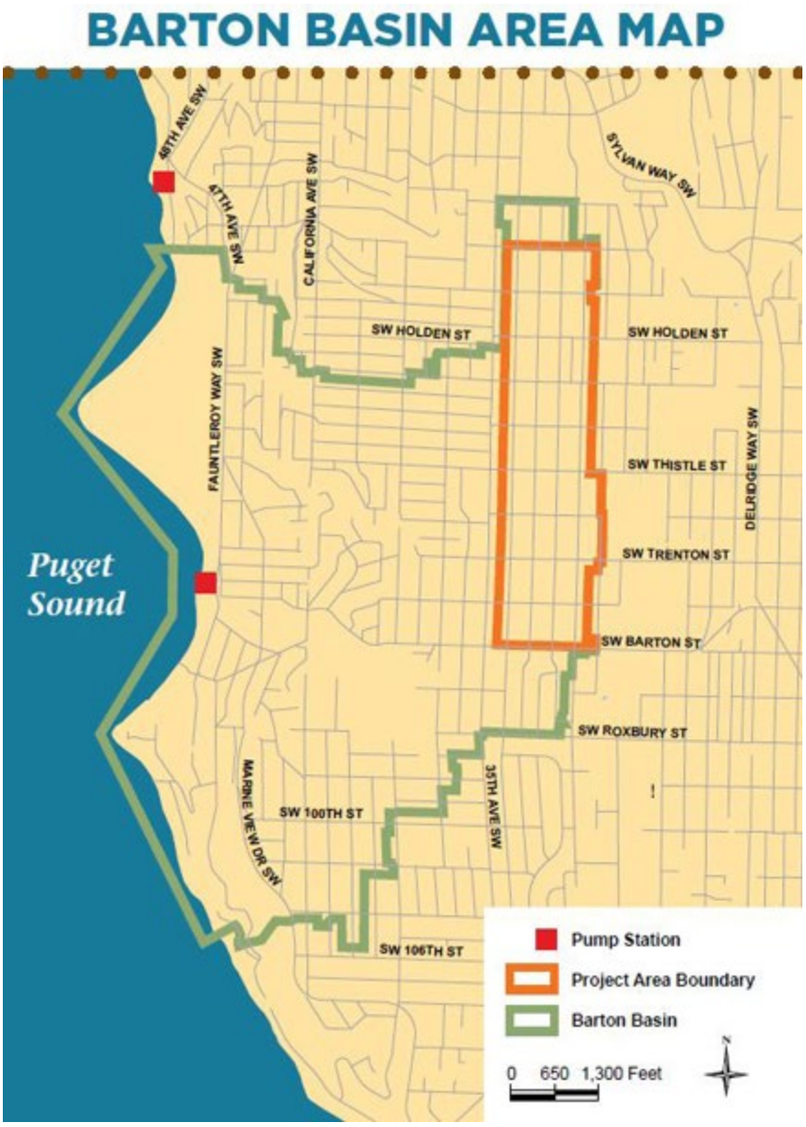
The Barton CSO Control Project is featured in a video about rain gardens and green stormwater infrastructure (GSI) by Sightline Institute

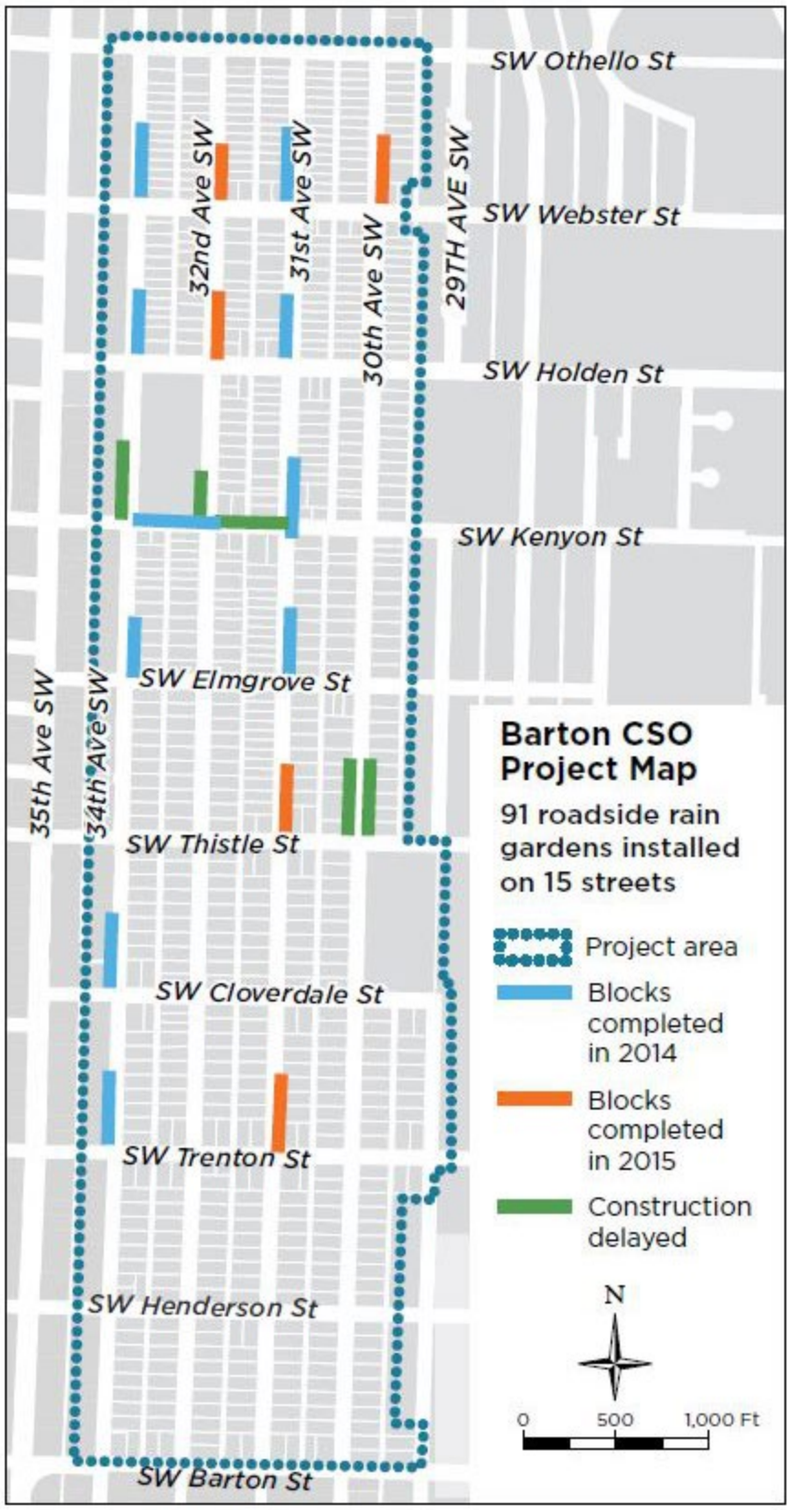
Find out if a CSO is occurring in Barton

King County maintains a real-time notification page so people can see whether CSO discharges are occurring.

Related content

Protecting our waters (Combined Sewer Overflow Control Program), King County


BARTON BASIN AREA MAP
48TH AVE SW
47TH AVE SW
CALIFORNIA AVE SW
SYLVAN WAY SW
SW HOLDEN ST
SW HOLDEN ST
FAUNTLEROY WAY SW
DELRIDGE WAY SW
SW THISTLE ST
SW TRENTON ST
Puget Sound
SW BARTON ST
SW ROXBURY ST
MARINE VIEW DR SW
SW 100TH ST
35TH AVE SW
SW 106TH ST
Pump Station
Project Area Boundary
Barton Basin
0 650 1,300 Feet
N



Source: summer 2015 newsletter

Library

You can download and view documents (PDF files) using a PDF Reader.

Project updates

- Roadside rain garden construction complete, Summer 2015 newsletter, August 2015
- 2015 construction season to begin first week of March, February 10, 2015
- 2014 construction season complete; expect shorter season next year, Fall 2014 newsletter, November 2014
- Tree removal on designated blocks begins in early February, January 27, 2014
- Major construction to begin late winter, Winter 2014 newsletter, January 2014
- Tree transplanting to begin Wednesday, November 6, November 4, 2013
- Final design of bioretention swales reflects community input and technical requirements, Summer 2013
- Define refinements and first steps toward construction, March 2013

- Fall 2012 project update, October 2012
- Project update, December 2011
  - Barton CSO control project area map (Sunrise Heights and Westwood neighborhoods), November 2011
- Field work notification, November 2011
- Project update (letter to project area neighbors) and map, September 2011
- A State Environmental Policy Act (SEPA) Determination of Nonsignificance (DNS) was issued on May 12, 2011 for this project. Comments were accepted through May 31, 2011. The SEPA DNS and environmental checklist can be viewed here.
- Field work notification flier, March 2011.
  Field work will include soil sampling, installation of groundwater monitoring wells to learn more about seasonal groundwater levels and archaeological surveys.

Fact sheets

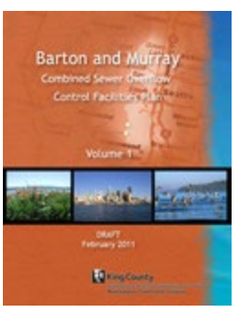
- Benefits of bioretention systems, October 2012, Sally Brown, PhD, University of Washington
- Fast facts about Barton, June 21, 2012
- Project overview fact sheet, March 13, 2012

Design development documentation

- A summary of improvements, along with information on plant palettes and trees, January 2014 (18MB)
- Existing tree summary and legend, May 29, 2013
- Tree assessment report, April 26, 2013
- Geotechnical design report executive summary and figures, June 12, 2012

Alternatives selection phase (2007 to 2010) documentation

Barton and Murray (West Seattle) CSO Control Facilities Plan



King County has developed proposals to control combined sewer overflows (CSOs) at two locations in West Seattle—the Barton and Murray CSO basins. One project is the construction of a new 1.0-million-gallon storage tank on the east side of Beach Drive SW near Lowman Beach Park to control CSOs in the Murray CSO basin. The other is the installation of rain gardens in the right-of-way along 32 to 64 half-blocks in the Sunrise Heights and Westwood neighborhoods east of 35th Avenue SW to control overflows in the Barton CSO basin.

The Barton and Murray Combined Sewer Overflow Control Facilities Plan describes the reasons for these projects, the processes used to develop and evaluate alternatives, and the selection of proposed alternatives to advance for further environmental review. These projects are necessary to control CSOs in compliance with RCW 90.48.480 and WAC 173-245-020 (22).

This plan is submitted in compliance with the first of three compliance schedule dates noted in Section S18 of the West Point Treatment Plant National Pollutant Discharge Elimination System Permit (refer to page 53 of permit).

Final Facility Plan, September 2011

- Table of contents
- Volume 1. Report (46MB)
- Volume 2. Appendix A (15MB)
- Volume 3. Appendix B-G (15MB)

Draft Facilities Plan, February 2011

- Title Page, Table of Contents
- Volume 1 (50.1MB)

    - Chapter 1. Executive Summary (3.2MB)
    - Chapter 2. Introduction (3.2MB)
    - Chapter 3. Existing Conditions (6.5MB)
    - Chapter 4. Basis of Planning
    - Chapter 5. Methodology for Developing and Evaluating Alternatives
    - Chapter 6. Preliminary Alternatives (26.5MB)
    - Chapter 7. Alternatives Evaluation and Selection (5.2MB)
    - Chapter 8. Proposed Alternative (3.7MB)
    - Chapter 9. Financial Analysis
    - Chapter 10. Implementation Plan
    - Chapter 11. Miscellaneous Requirements
- Volume 2 (14.5MB)
    - Appendix A. Flow Modeling and Calibration Documentation
- Volume 3 (19.8MB)
    - Appendix B. Alternative Evaluation Summary Documentation
    - Appendix C. Public Involvement Documentation
    - Appendix D. State Environmental Policy Act (SEPA) Documentation
    - Appendix E. Preliminary Geotechnical/Environmental Documentation
    - Appendix F. Cost Data
    - Appendix G. Alternative Risk Registers

This project was initiated to address the following:

- **Revised Code of Washington (RCW) 90.48.480:** This law requires "the greatest reasonable reduction of combined sewer overflows."
- **Washington Administrative Code (WAC) 173-245-020 (22):** "The greatest reasonable reduction' means control of each CSO in such a way that an average of one untreated discharge may occur per year."

News releases

- Jan. 21, 2014 – Construction starts soon on Barton pollution control project in West Seattle
- Nov. 27, 2013 – King County awards contract for pollution control project in West Seattle
- Aug. 9, 2013 – Learn about rain gardens at the Delridge Day Festival Green Zone, Aug. 17
- May 30, 2013 – "Yards in the Hood" event sheds light on rain garden beauty and benefits, June 1
- April 11, 2013 – Contractor open house to provide information on green stormwater project, May 6
- Oct. 3, 2012 – Neighbors' input, technical review guide Barton CSO project design updates
- June 20, 2012 – Curbside meetings take Barton CSO project info to West Seattle neighbors, June 23 & 24
- Feb. 1, 2012 – Meeting provides green stormwater infrastructure project updates, Feb. 8

Green stormwater infrastructure (GSI) links

Links to other green stormwater infrastructure (GSI) projects and resources locally, regionally and around the country.

Local

- King County
    - Protecting our waters (CSO control program)
    - Green Stormwater Infrastructure (GSI)
    - Rain barrel information and resources
- Seattle Public Utilities
    - Green stormwater infrastructure
    - Residential RainWise program
- Sustainable West Seattle

Regional

- Case studies, Portland Bureau of Environmental Services, Oregon

National

- Managing wet weather with green infrastructure, U.S. Environmental Protection Agency
- Using rainwater to grow livable communities; sustainable stormwater Best Management Practices (BMPs), Water Environment Research Foundation (WERF)

Wastewater Treatment Division

King Street Center
201 S. Jackson St., Suite 500
Seattle, WA 98104

Get directions

Contact us

206-477-5371

WTD Division Directory

website.wtd@kingcounty.gov

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