



**KING COUNTY**

1200 King County Courthouse  
516 Third Avenue  
Seattle, WA 98104

**Signature Report**

*Councilmember  
Conlen*

March 30, 2011 ~~March 25, 2014~~

**Motion**

**Proposed No. 2011-0096.1**

**Sponsors**

1                   A MOTION approving reclaimed water strategies to move  
 2                   forward with engineering, economic and environmental  
 3                   analyses to determine if, how, when, where and by what  
 4                   funding mechanisms King County's existing reclaimed  
 5                   water program should expand.

6                   WHEREAS, in December 2009, through Motion 13108, the King County council  
 7                   approved the planning process to determine if, how, when, where and by what funding  
 8                   mechanisms over the next thirty years King County's existing reclaimed water program  
 9                   should expand, and

10                  WHEREAS, in accordance with Step 2 of the approved planning process, King  
 11                  County's wastewater treatment division ("WTD") collected data from October 2009  
 12                  through March 2010 on potential nonpotable consumptive and environmental  
 13                  enhancement uses in the region that reclaimed water could serve through:

- 14                  1. Meetings with more than forty interested parties, including tribes, cities, water
- 15                  districts, wastewater utilities, environmental groups, state agencies and watersheds;
- 16                  2. Public workshops; and
- 17                  3. Reviews of existing literature and studies, and

18                  WHEREAS, as a result of these efforts:

19           1. Over eight hundred potential locations for nonpotable consumptive uses of  
20 reclaimed water were identified;

21           2. Environmental flow restoration targets were estimated for streams in twelve  
22 watershed basins in the planning area that could likely benefit from additional water  
23 inputs;

24           3. The potential for using reclaimed water to aid in the management of Lake  
25 Washington water levels was identified; and

26           4. The potential for using reclaimed water to support groundwater recharge in the  
27 city of Auburn was identified, and

28           WHEREAS, in April 2010, in accordance with the planning process, based on the  
29 data gathered in Step 2, the King County executive authorized WTD to move forward  
30 into Step 3 of the planning process to develop and refine conceptual reclaimed water  
31 strategies to serve the potential uses for reclaimed water identified in Step 2, and

32           WHEREAS, as part of Step 3 of the planning process, WTD developed thirteen  
33 initial reclaimed water strategies to serve potential uses for reclaimed water that were  
34 identified during Step 2 of the planning process, and

35           WHEREAS, WTD solicited input and feedback on the thirteen reclaimed water  
36 strategies through a workshop on April 29, 2010, and through more than twenty-five  
37 subsequent individual meetings that took place during May through July 2010 with  
38 representatives of tribal governments, water and sewer districts, local jurisdictions, state  
39 and federal agencies, water resource inventory areas and environmental groups, and

40           WHEREAS, based on this input and feedback, WTD refined the initial set of  
41 conceptual reclaimed water strategies, and

42 WHEREAS, WTD gathered feedback from interested parties on the refined  
43 strategies in fall 2010, and

44 WHEREAS, the executive recommends that the following three refined reclaimed  
45 water strategies move forward into Step 4 of the planning process for additional analysis:

46 1. Redmond/Bear Creek Basin Brightwater Centralized Strategy. The  
47 components of this reclaimed water strategy include approximately ten million gallons  
48 per day ("mgd") of reclaimed water production at the Brightwater Treatment Plant, with  
49 approximately fourteen additional miles of distribution pipelines, a portion directly from  
50 the Brightwater Treatment Plant site, and a portion from the south segment of the  
51 Brightwater reclaimed water pipeline. The strategy would be able to serve potential  
52 nonpotable consumptive uses and wetland enhancement in the city of Redmond and  
53 wetland enhancements in the Bear Creek basin. The strategy represents an addition to the  
54 seven mgd of reclaimed water that will be available to areas in north King County, south  
55 Snohomish county, and the Sammamish valley when the south segment of the  
56 Brightwater reclaimed water pipeline is operational, and

57 2. Reclaimed Water Skimming or Polishing Decentralized Strategy. The  
58 components of this strategy include a preassembled or packaged reclaimed water  
59 treatment plant sited near and receiving water from a King County regional conveyance  
60 pipeline that could provide up to five hundred thousand gallons of reclaimed water.  
61 Approximately one mile of distribution pipeline would be required. The strategy would  
62 be able to serve nearby nonpotable consumptive uses, and

63 3. Renton/Tukwila South Plant Centralized Strategy. The components of this  
64 strategy include production of an additional two mgd of reclaimed water at South

65 Treatment Plant, with approximately eighteen miles of distribution pipelines. The  
66 strategy would be able to serve nonpotable consumptive uses in the cities of Renton and  
67 Tukwila and wetland enhancement in the city of Renton adjacent to the Cedar river, and

68 WHEREAS, each of the three strategies has been developed for planning  
69 purposes only, represents the range of potential nonpotable consumptive and  
70 environmental enhancement uses for reclaimed water identified across the region, uses  
71 existing regional wastewater and reclaimed water infrastructure with incremental  
72 expansions and aligns with the feedback from interested parties to start small and build  
73 on successes over time, and

74 WHEREAS, the decision on which strategies to move forward would be made  
75 more knowledgably with amendments to RWSP and financial policies that guide existing  
76 and future programs

77 WHEREAS, additional planning-level engineering, economic and environmental  
78 analyses will provide important information on the economic costs and benefits,  
79 engineering opportunities and constraints, and environmental effects associated with each  
80 strategies selected to move forward after revised policies are applied, and

81 WHEREAS, the results of the analyses and application of evaluation criteria that  
82 were approved by the King County council through Motion 13211 will help to answer  
83 many of the issues' and questions raised by interested parties and provide essential  
84 information in the process to determine if, how, when, where, and by what funding  
85 mechanisms the county's existing reclaimed water program should expand;

86 NOW, THEREFORE, BE IT MOVED by the Council of King County:

87           ~~The three reclaimed water strategies that are approved to move into Step 4 of the~~  
88 ~~planning process for economic, engineering and environmental analyses are:~~  
89           ~~— A. Redmond/Bear Creek Basin Brightwater Centralized Strategy,~~  
90           ~~— B. Reclaimed Water Skimming or Polishing Decentralized Strategy, and~~  
91           ~~— C. Renton/Tukwila South Plant Centralized Strategy.~~ The Reclaimed Water  
92 Comprehensive Plan process is approved to move to Step 8B and complete Step 10, at  
93 which time the three strategies identified in this motion will be reevaluated, and a  
94 decision made about which of the strategies should then go to Step 4 of the process for  
95 further analysis.  
96

KING COUNTY COUNCIL  
KING COUNTY, WASHINGTON

---

Robert W. Ferguson, Chair

ATTEST:

---

Anne Noris, Clerk of the Council

APPROVED this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

**Motion**

---

---

**Dow Constantine, County Executive**

**Attachments: None**