TABLE OF CONTENTS

EXECUTIVE SUMMARY ........... 1
What Are the Issues? What Are the Choices? .... 1
What Are the Recommendations? .............. 2
How Much Will the Plan Cost and Who Will Pay for It? ......................... 3

DEVELOPING THE PLAN ......... 5
Wastewater Management—a Regional Need .... 5
The Regional Wastewater Services Plan ...... 6
Public Preferences ........................................... 6
Next Steps ..................................................... 6

DESCRIBING THE PLAN .......... 7
Our Current System ........................................... 7
The Executive’s Preferred Plan: Our Future System ........................................... 9
A New Treatment Plant ...................................... 9
Other Improvements ........................................ 10
Treatment Improvements ....................... 11
North Treatment Plant ................................. 11
East Treatment Plant ................................. 11
West Treatment Plant ................................. 11
Conveyance System Improvements .......... 14
Pipes and Pump Stations ............................ 14
Outfall to Puget Sound ............................. 14
Reducing Inflow and Infiltration .......... 14
Cost Sharing to Find and Fix ....................... 15
Leaky Pipes ...................................................... 15
Developing a Surcharge on Excessive I/I .... 15
Reducing Combined Sewer Overflows .... 16
Ongoing Efforts .............................................. 17
CSO Storage and Treatment ..................... 17
Recycling Biosolids ................................. 17
Continue Recycling and Explore New Technologies ...................................... 18
Exploring and Increasing Water Reuse ..... 19
Coordinate, Evaluate, and Explore Future Opportunities ...................................... 20

IMPLEMENTING THE PLAN .... 21
An Adaptable Plan ........................................... 21
Siting New Facilities ........................................... 22
Siting Principles .............................................. 25
Wastewater Policies ........................................... 25

PAYING FOR THE PLAN ......... 27
Paying for Projects with Bonds ..................... 27
Collecting Revenue ........................................... 28
Monthly Rates .............................................. 28
Capacity Charge ........................................... 29

APPENDIX A
Changes in Population and Flow Estimates ........................................... 31

APPENDIX B
Wastewater Policies ........................................... 35
Background ...................................................... 35
Treatment Plant Policies (TPP) ................... 35
Conveyance Policies (CP) ............................. 36
Inflow/Infiltration Policies (I/IP) ................... 37
Combined Sewer Overflow Reduction Policies (CSORP) ............................. 37
Biosolids Policies (BP) ..................................... 38
Water Reuse Policies (WRP) ......................... 39
Financial Policies (FP) ..................................... 41
Wastewater Services Policies (WWSP) ........ 44
Water Quality Protection Policies (WQPP) 45
Wastewater Planning Policies (WWPP) ........ 46
Environmental Mitigation Policies (EMP) ... 47
Public Involvement Policies (PIP) .............. 47
LIST OF FIGURES

Figure 1 – Existing King County Waste-water Treatment System ............... 8
Figure 2 – Existing and Proposed Wastewater Flow Routes .............. 9
Figure 3 – Executive’s Preferred Plan .......... 12
Figure 4 – Inflow and Infiltration into Sanitary and Storm Sewers ................ 15
Figure 5 – Combined and Separated Sewers ............................................ 16
Figure 6 – Potential Indirect Potable Reuse Project—Discharging Reclaimed Water at Hiram Chittenden Locks ....................... 19
Figure 7 – Executive’s Preferred Plan Implementation Activities ............ 22
Figure 8 – Phasing of Capital Facilities by Date of Completion .............. 24
Figure 9 – Components of Current Wholesale Monthly Rate, by Expenditure ........................................... 28
Figure 10 – Components of Current Wholesale Monthly Rate, by Program Type ........................................... 28
Figure 11 – Projected Monthly Wholesale Rates (without inflation) ............. 29
Figure 12 – Projected Monthly Wholesale Rates (with inflation) ................ 29
Figure 13 – Revised Sewered Population Projections ............................. 31

LIST OF TABLES

Table 1 – Estimated Costs to Implement the Executive’s Preferred Plan ................................................. 3
Table 2 – Improvements Proposed under the Executive’s Preferred Plan .............................................. 10
Table 3 – Estimated Costs to Implement the Executive’s Preferred Plan .............................................. 27
Table 4 – Changes in Capital Facility Size and Phasing for Each RWSP Strategy Between May 1997 and April 1998 ........................................... 32
Table 5 – Changes in Costs for Each RWSP Strategy Between May 1997 and April 1998 .................. 33