

# **- CSI PROJECT - NORTH SAMMAMISH BASIN**

## **PHASE 2 SUBREGIONAL PLANNING REPORTS**

**TASK 210 - PLANNING RECORDS REVIEW**

**TASK 220 - FACILITIES REVIEW**

**TASK 230 - CHARACTERIZATION OF EXISTING CONDITIONS**

**October 2003**



**King County**

Department of  
Natural Resources and Parks

**Wastewater Treatment Division**



# **KING COUNTY CONVEYANCE SYSTEM IMPROVEMENT PROJECT**

## **NORTH SAMMAMISH SUBREGIONAL PLANNING AREA**

**FINAL TASK 210 REPORT  
FINAL TASK 220 REPORT  
FINAL TASK 230 REPORT**

**OCTOBER 2003**



*IN ASSOCIATION WITH*  
**Brown and Caldwell**

## **ACKNOWLEDGEMENTS**

The following people were involved in or contributed to the writing of this report:

**King County Department of Natural Resources  
Wastewater Treatment Division**

Ed Cox  
Eric Davison  
Bill Nitz  
Bob Peterson  
Bob Swarner

Brown and Caldwell  
Tony Dubin  
Mike O'Neal  
Jim Tulley  
Justin Twenter

HDR Engineering, Inc.  
Jim Peterson

# **KING COUNTY CONVEYANCE SYSTEM IMPROVEMENT PROJECT**

## **NORTH SAMMAMISH BASIN**

### **TASK 210, 220, AND 230 TECHNICAL MEMORANDUM**

#### **PLANNING, FACILITIES, and EXISTING CONDITIONS SUMMARY**

October 2003

---



## TABLE OF CONTENTS

<b>Task 210 Report: North Sammamish Basin Planning Summary.....</b>	<b>210-1</b>
Planning Area Boundaries .....	210-1
Local Sewerage Agencies Serving the Basin.....	210-3
Basin Wastewater History and Planning Chronology.....	210-3
History of Basin Development.....	210-3
Wastewater Studies and Facility Planning within the Basin .....	210-4
<i>Regional Wastewater Services Plan</i> Coordination .....	210-5
Growth Management Impacts.....	210-6
Planning Area Land Use .....	210-6
Planning Area Population Growth .....	210-7
<b>Task 220 Report: Wastewater Facilities Serving the North Sammamish Basin .....</b>	<b>220-1</b>
Wastewater Conveyance within the Basin.....	220-1
Local Agency Wastewater Facilities .....	220-3
King County Wastewater Conveyance Facilities Serving the Basin .....	220-7
Regional Conveyance Capacity and Facility Condition .....	220-13
<b>Task 230 Report: Existing Environmental Conditions in the North Sammamish Basin.....</b>	<b>230-1</b>
Topography .....	230-1
Climate .....	230-1
Geology and Soils .....	230-2
Water Resources.....	230-2
Surface Water Resources .....	230-2
Groundwater Resources .....	230-3
Sensitive Areas.....	230-3

## **LIST OF TABLES**

Table 210-1. Residential Population Forecasts for North Sammamish Basin Service Areas.....	210-9
Table 220-1. Bellevue Sewer Basin Pipe and Pump Station Inventory.....	220-4
Table 220-2. Northeast Sammamish SWD Pipe Size Summary .....	220-6
Table 220-3. Summary of Sammamish Plateau WSD Sewer Facilities .....	220-7

## **LIST OF FIGURES**

Figure 210-1. North Sammamish Basin Boundaries and Local Agencies.....	210-2
Figure 210-2. Forecasted Population of North Sammamish Basin through 2050 .....	210-8
Figure 220-1. King County Facilities Serving the North Sammamish Basin .....	220-2
Figure 220-2. Hollywood Pump Station and Appurtenant Structures .....	220-10
Figure 230-1. Sensitive Areas in the North Sammamish Basin.....	230-4