

### **SJR DWSC Flow and RRI DO Data for 2003**

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Attached is the SJR DWSC flows for 2003 (Figure 1) and the Rough and Ready Island (RRI) monitoring station DO data (Figure 2) for this period. As discussed in previous reports (Lee, 2003; Lee and Jones-Lee, 2003a,b), there were severe low-DO problems in February and during the summer 2003. However, fall 2003 was different from past years in that low flows did not cause low DO in the DWSC at RRI. This may be due to lower ammonia discharges by the city of Stockton than normally occur at this time of the year.

#### **References**

Lee, G. F., "Review of 2003 SJR DWSC Flow and Dissolved Oxygen Data," Report of G. Fred Lee & Associates, El Macero, CA, July (2003).

<http://www.gfredlee.com/SJR.Jan.July.DO.Flow.2003dl.pdf>

Lee, G. F. and Jones-Lee, A., "Synthesis and Discussion of Findings on the Causes and Factors Influencing Low DO in the San Joaquin River Deep Water Ship Channel Near Stockton, CA: Including 2002 Data," Report Submitted to SJR DO TMDL Steering Committee and CALFED Bay-Delta Program, G. Fred Lee & Associates, El Macero, CA, March (2003a).

<http://www.gfredlee.com/SynthesisRpt3-21-03.pdf>

Lee, G. F. and Jones-Lee, A., "August and September 2003 SJR DWSC Flow and DO," Report of G. Fred Lee & Associates, El Macero, CA (2003b).

<http://www.gfredlee.com/Aug-Sept.2003.SJR.DWSC.Flow.DO.pdf>

Figure 1

### SJR DWSC Flow 2003

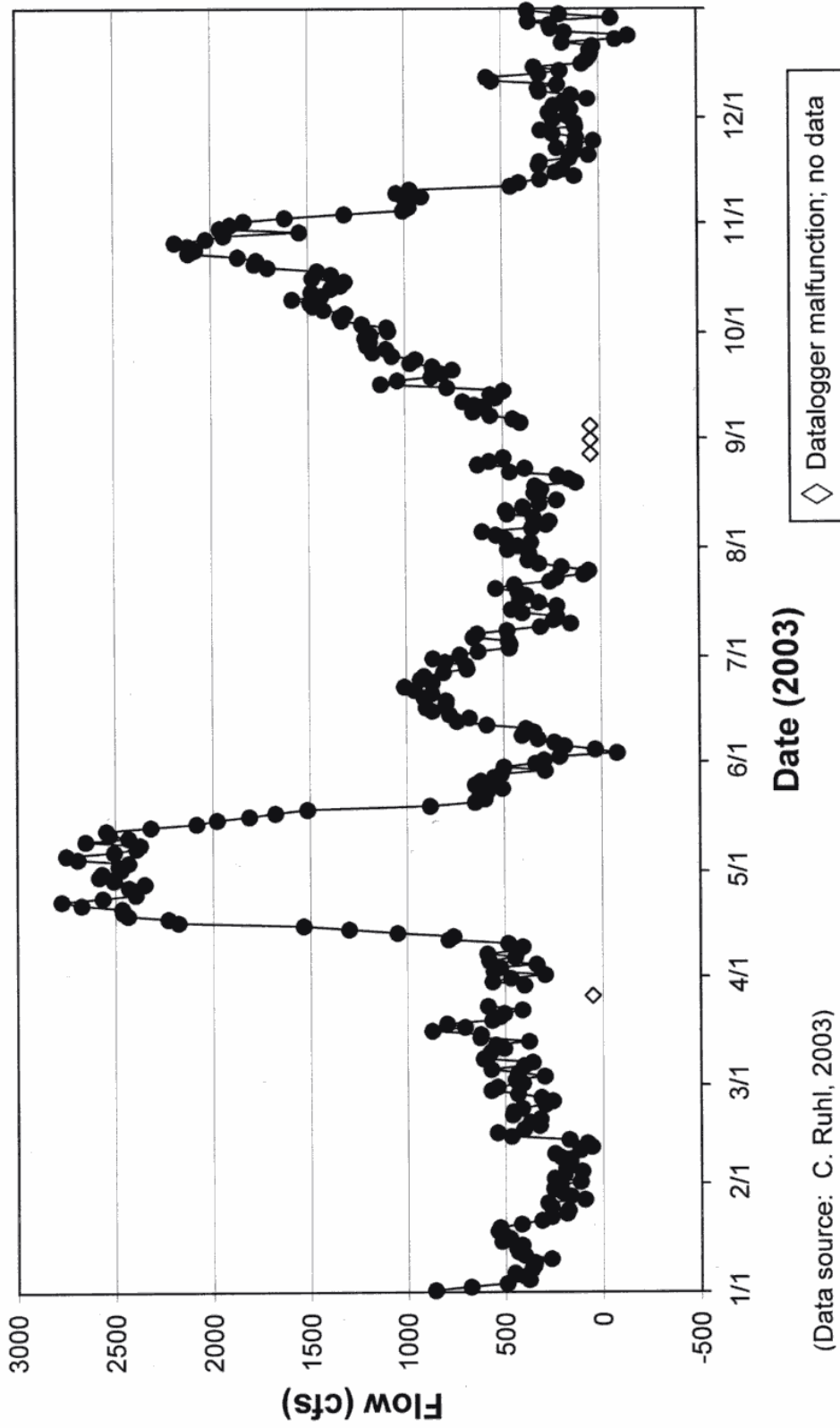
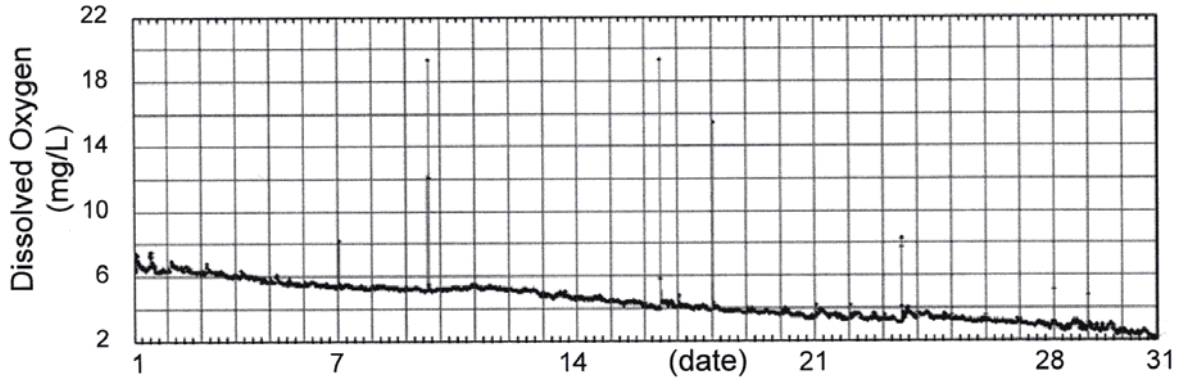
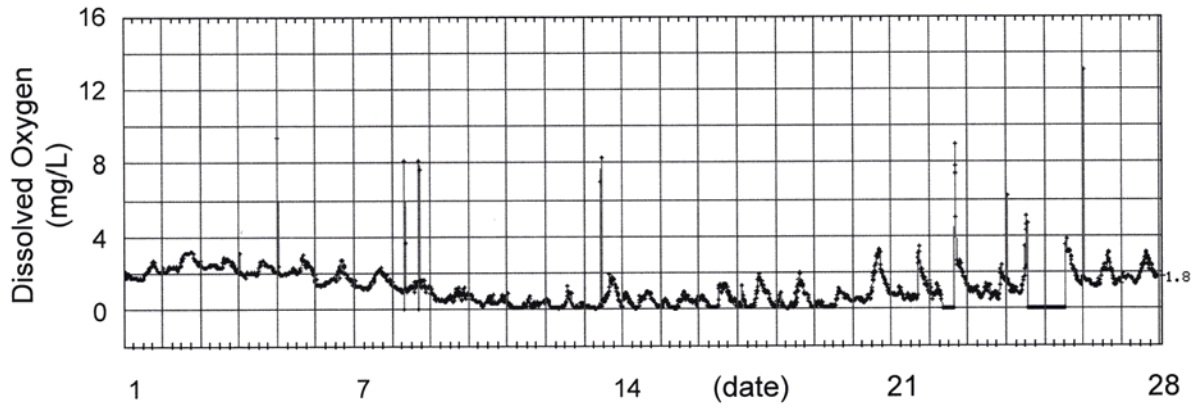


Figure 2  
SJR DWSC RRI DO 2003

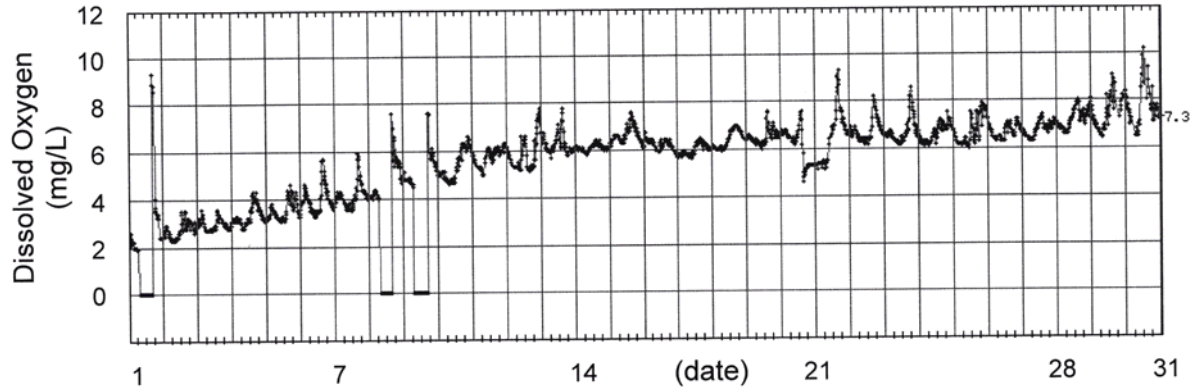
January 2003



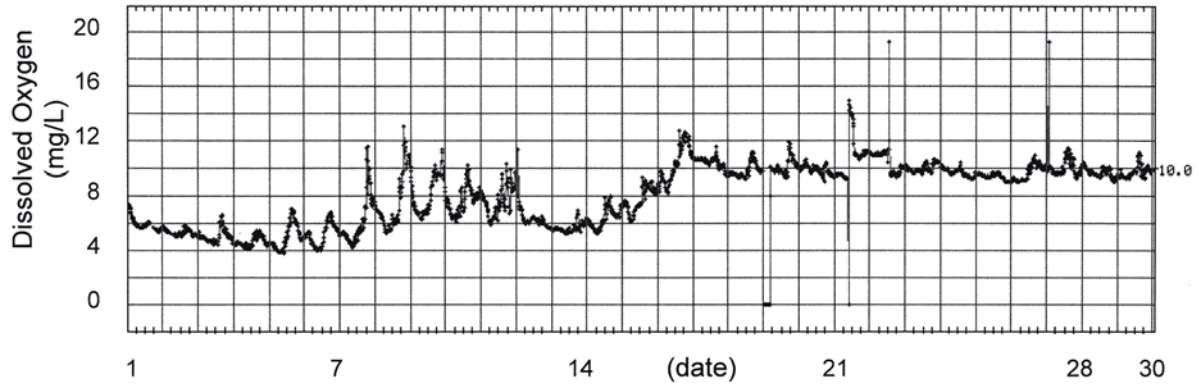
February 2003



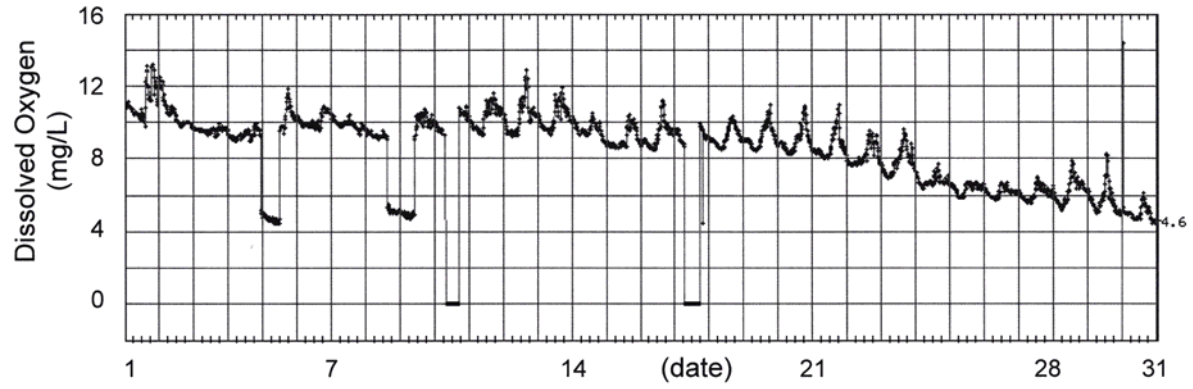
March 2003



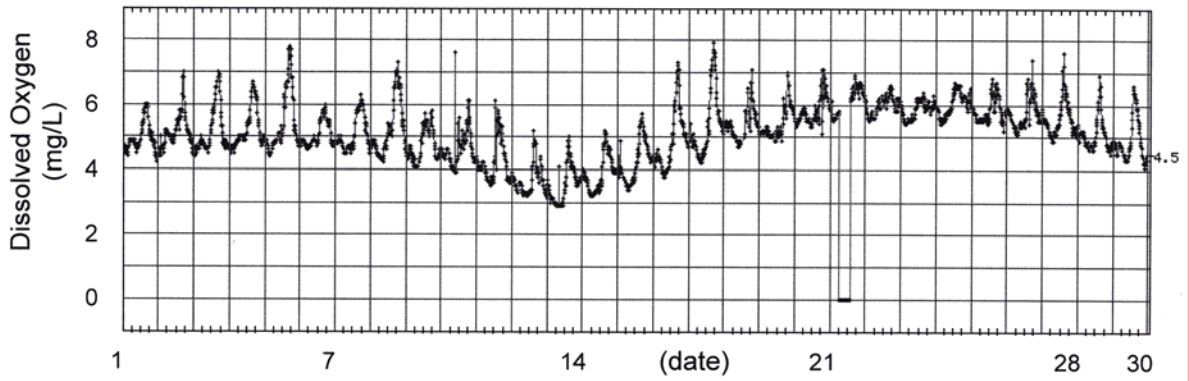
**April 2003**



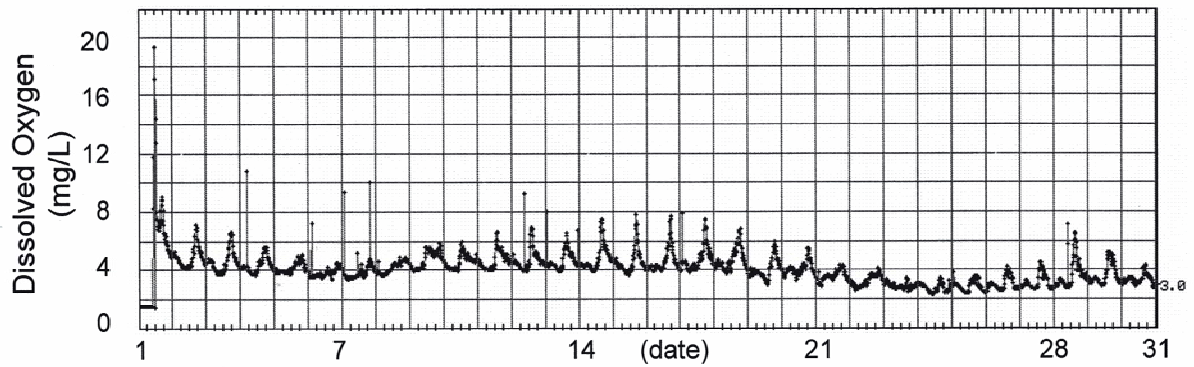
**May 2003**



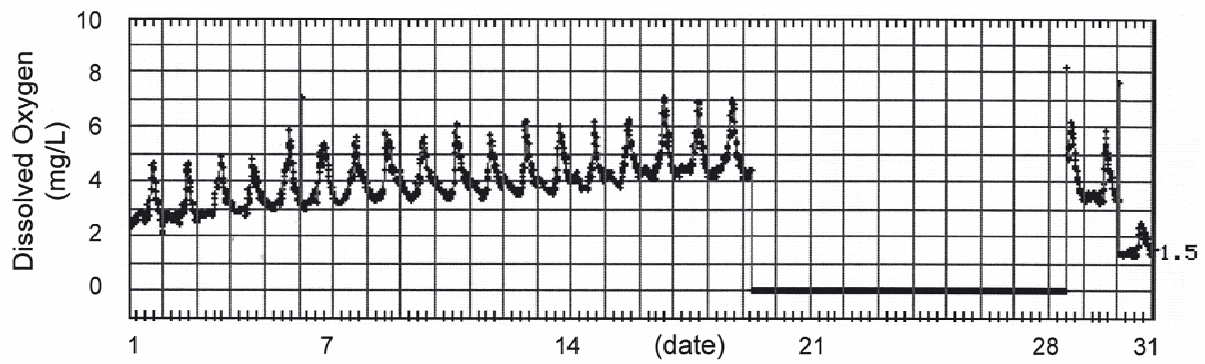
**June 2003**



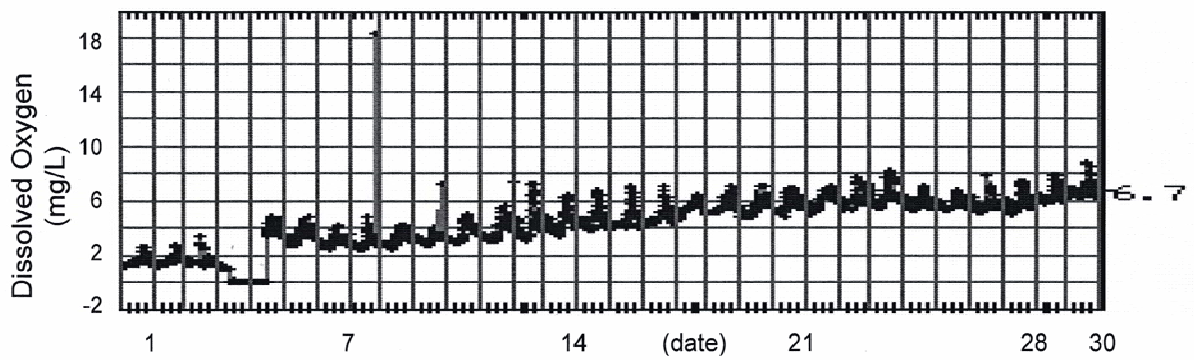
### July 2003



### August 2003

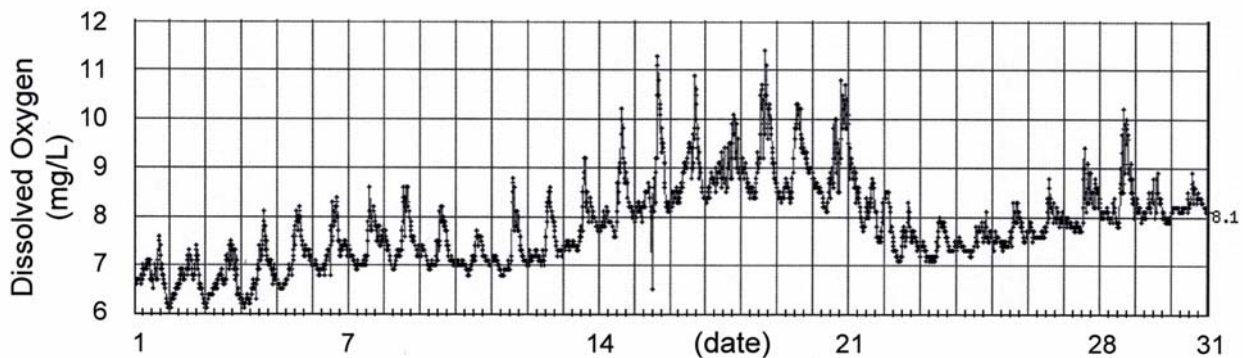


### September 2003

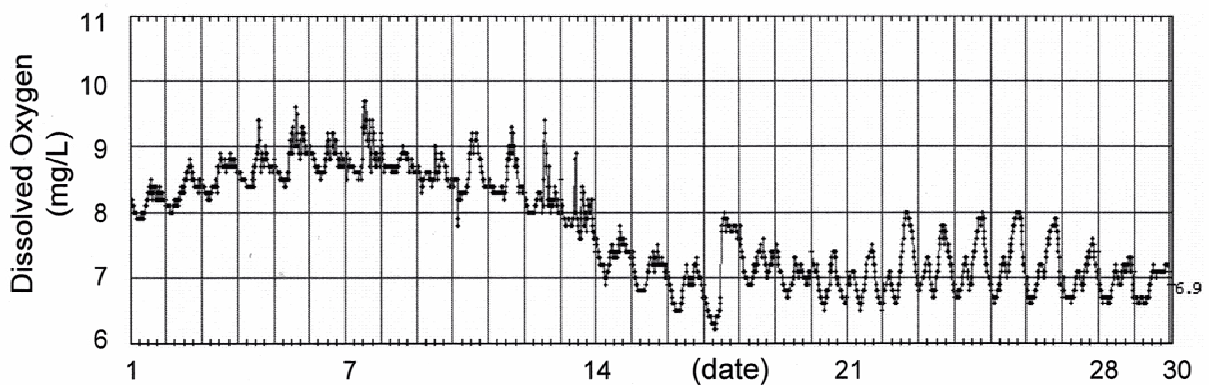




### October 2003



### November 2003



### December 2003

