

# GRASSLAND BYPASS PROJECT

## Quarterly Graphical Summary

January through September 2003

February 29, 2004

### Preliminary Results

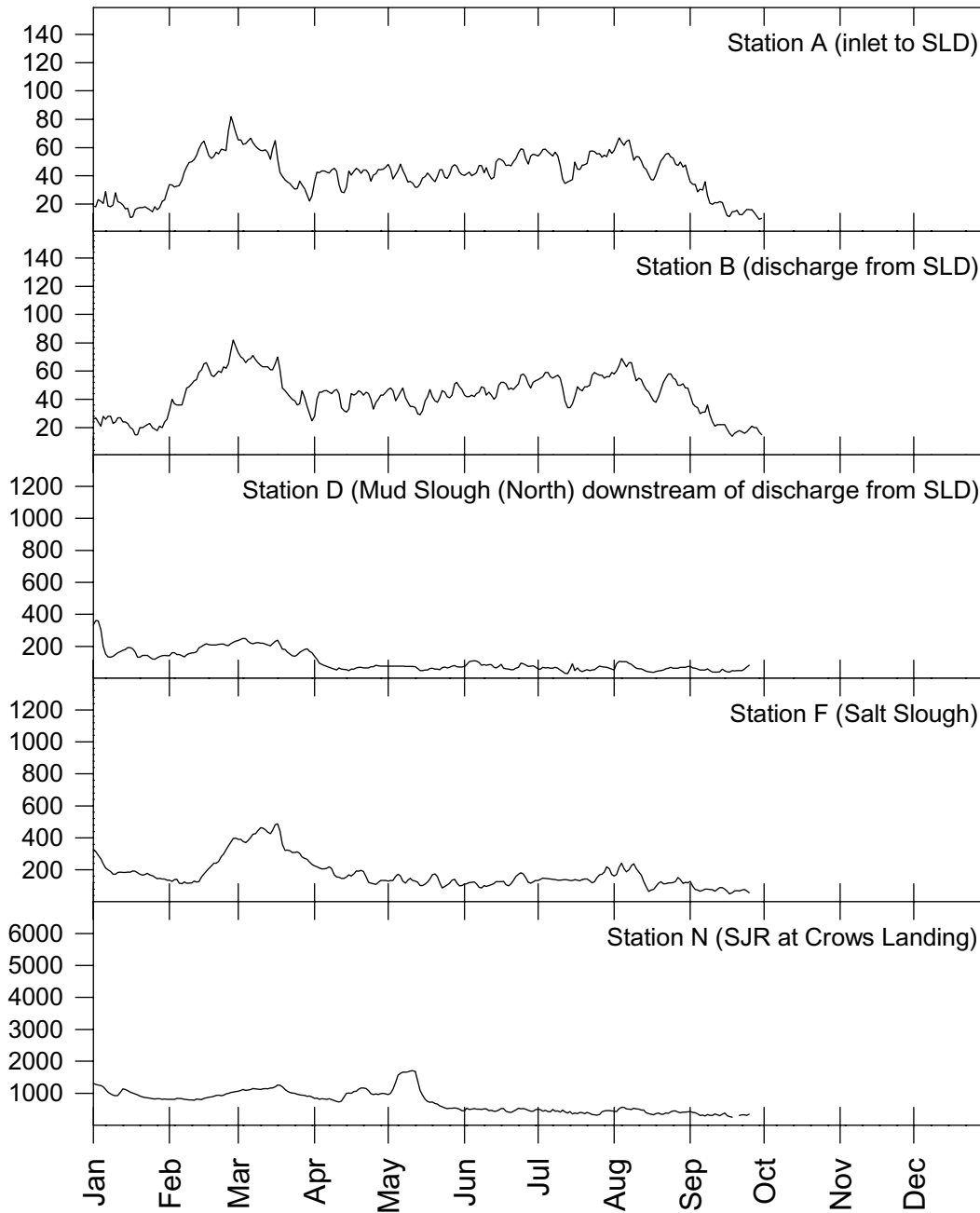
A cooperative effort of:

U.S. Bureau of Reclamation  
Central Valley Regional Water Quality Control Board  
U.S. Fish and Wildlife Service  
California Department of Fish and Game  
San Luis & Delta-Mendota Water Authority  
U.S. Environmental Protection Agency  
U.S. Geological Survey

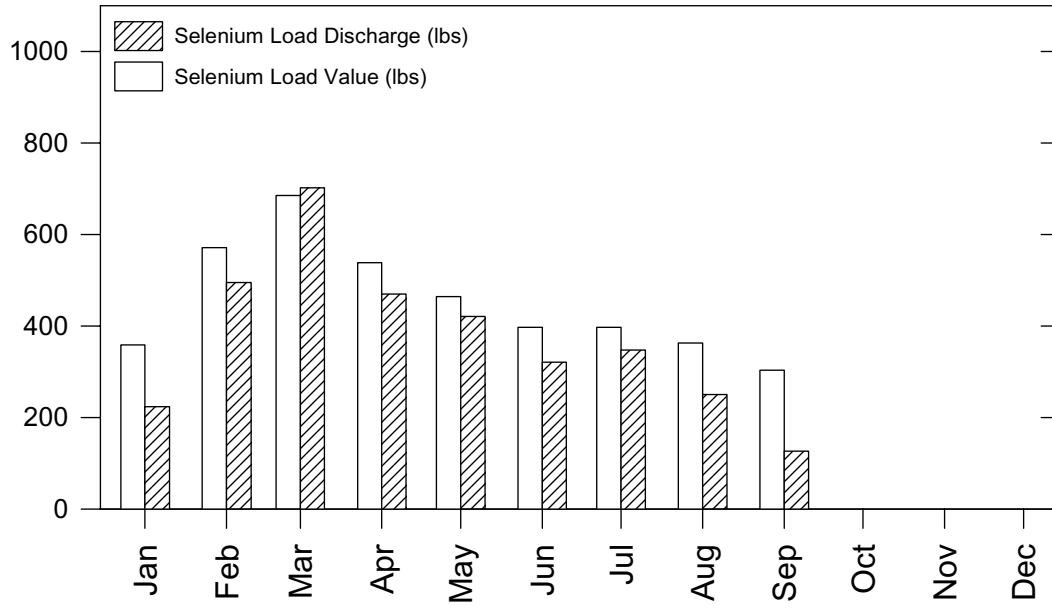
compiled by San Francisco Estuary Institute



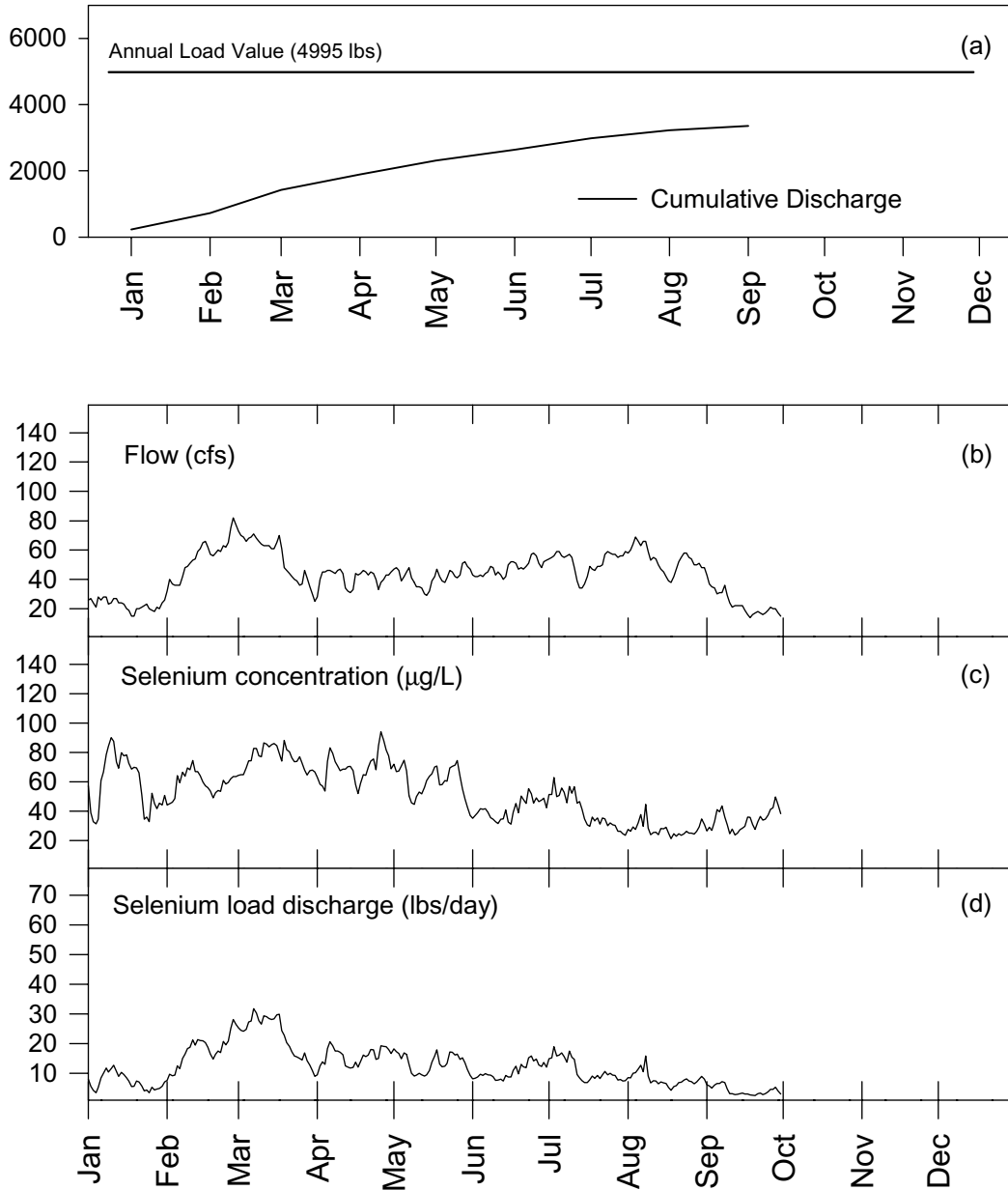
**Figure 1.** Daily mean flows (cfs) at GBPCMP stations 2003. Flow at Station A is recorded as a daily mean. Flows at Station B, D, F, and N are recorded at 15 min intervals. Note different scales of vertical axis.



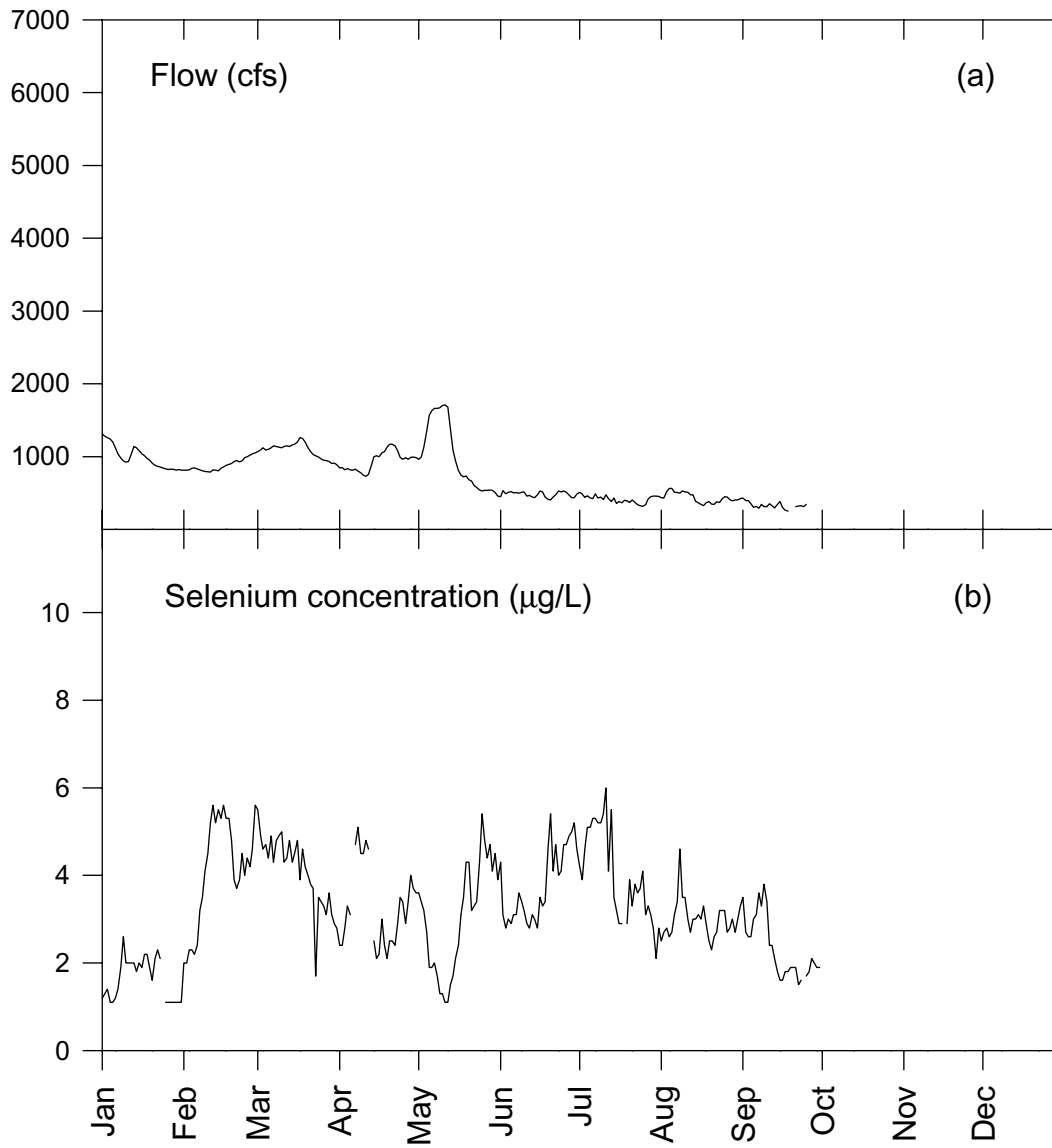
**Figure 2.** Comparison of monthly selenium load discharge from the terminus of the San Luis Drain (Station B) with the monthly load values in the Interim Use Permit for calendar year 2003.



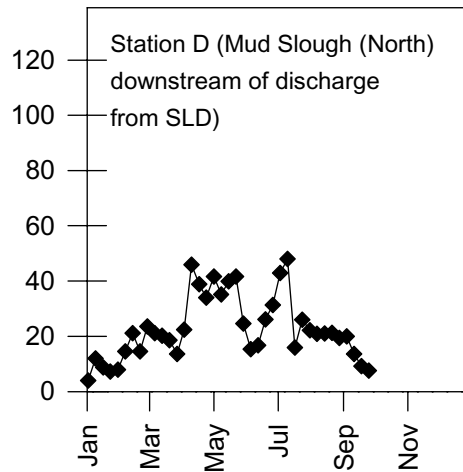
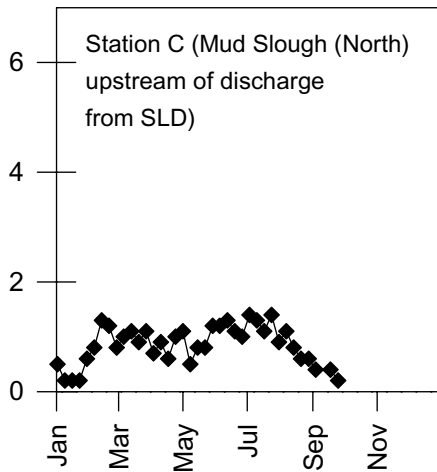
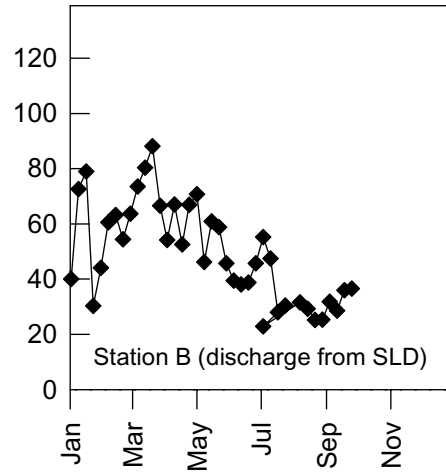
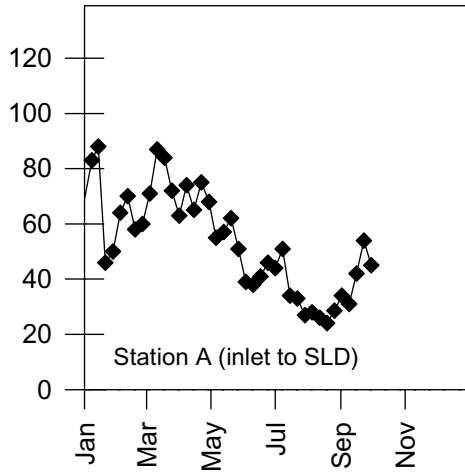
**Figure 3.** Selenium concentrations and selenium load discharge at Station B (discharge from SLD): a) comparison of cumulative load discharge and load values; b) daily average flows; c) daily average selenium concentrations; and d) calculated daily average load discharge.



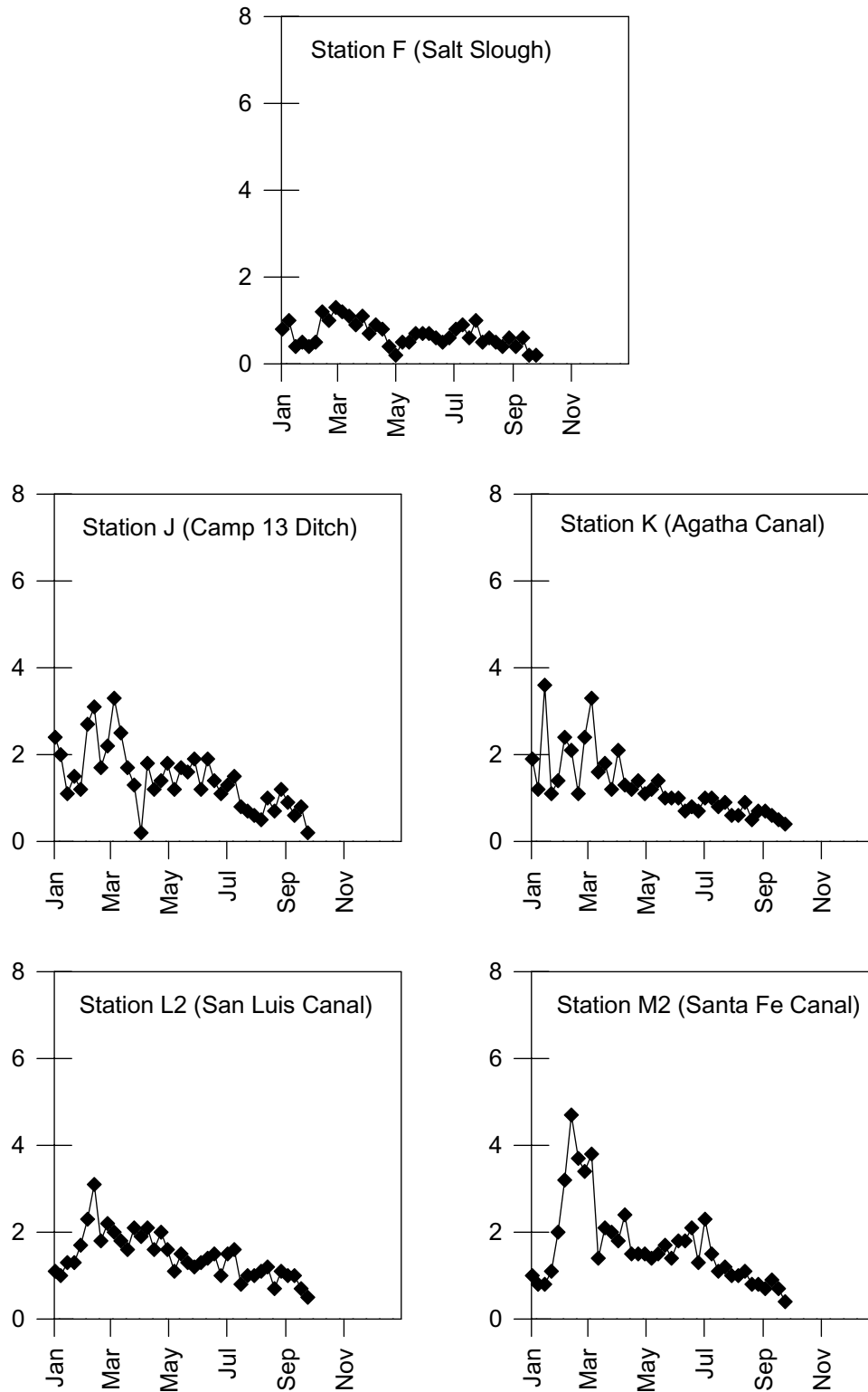
**Figure 4.** Daily average flows and selenium concentrations at Station N (San Joaquin River at Crow's Landing).



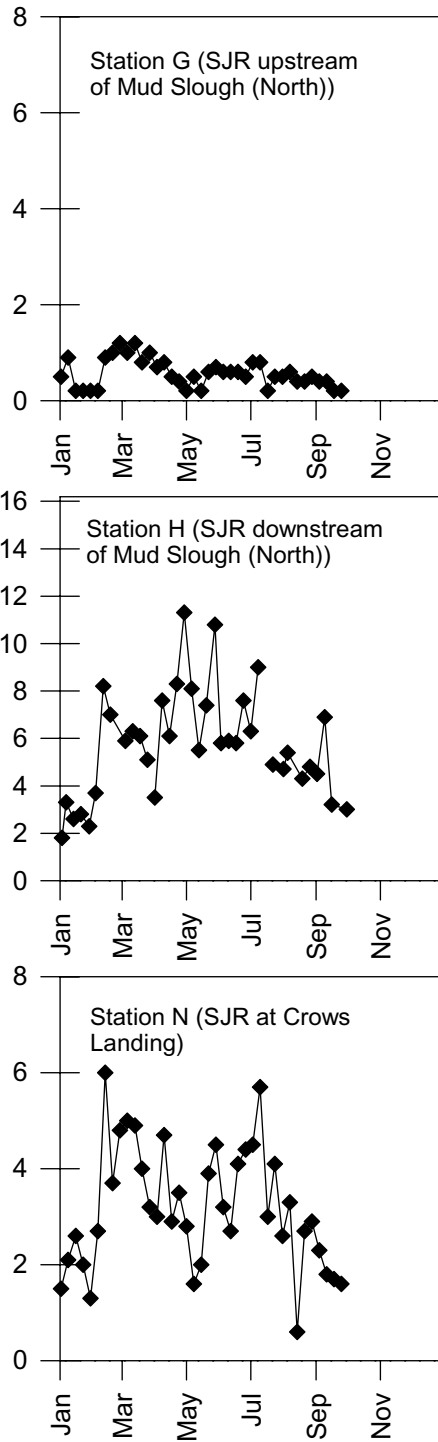
**Figure 5.** Selenium concentrations ( $\mu\text{g/L}$ ) at Station A (near the inlet to the San Luis Drain), Station B (discharge from the San Luis Drain), Station C (Mud Slough (North) upstream of the GBP discharge), and Station D (Mud Slough (North) downstream of the GBP discharge). Data from weekly samples.



**Figure 6.** Selenium concentration ( $\mu\text{g/L}$ ) at Station F (Salt Slough) and in wetland water supply channels at Station J, K, L2, and Station M2. Data from weekly samples.

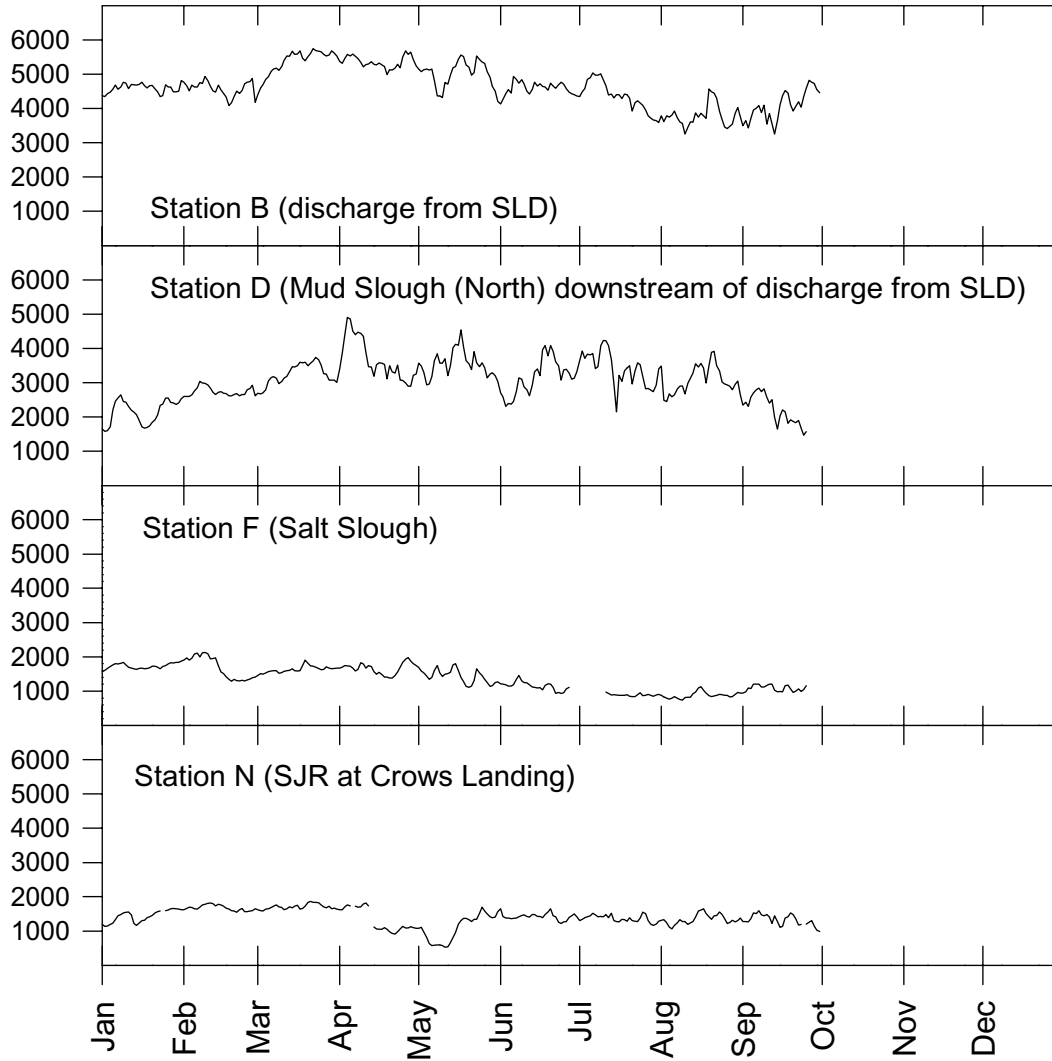


**Figure 7.** Selenium concentrations ( $\mu\text{g/L}$ ) at San Joaquin River Stations G (San Joaquin River upstream of Mud Slough (North) confluence), H (San Joaquin River downstream of Mud Slough (North) confluence), and N (at Crow's Landing, downstream of Merced River confluence). Data from weekly samples. Station H data intended for use with biological monitoring data.





**Figure 8.** Daily average specific conductance ( $\mu\text{S}/\text{cm}$ ) derived from measurements at 15 min intervals at Station B (discharge from SLD), D (Mud Slough (North) downstream of the GBP discharge), F (Salt Slough), and N (San Joaquin River at Crow's Landing).



**Figure 9.** Specific conductance ( $\mu\text{S}/\text{cm}$ ) in weekly grab samples. Letters indicate stations. Station H data intended for use with biological monitoring data.

