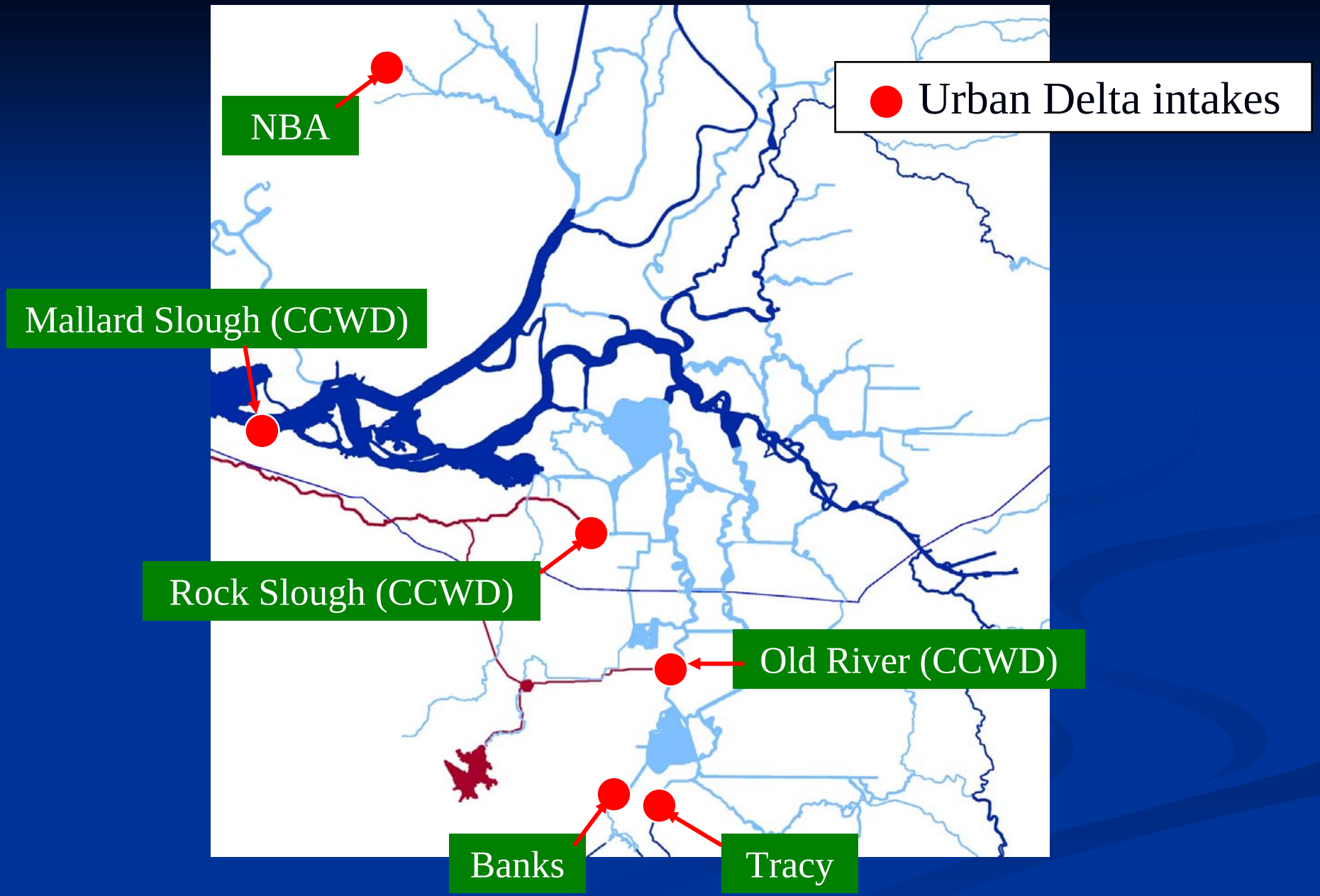
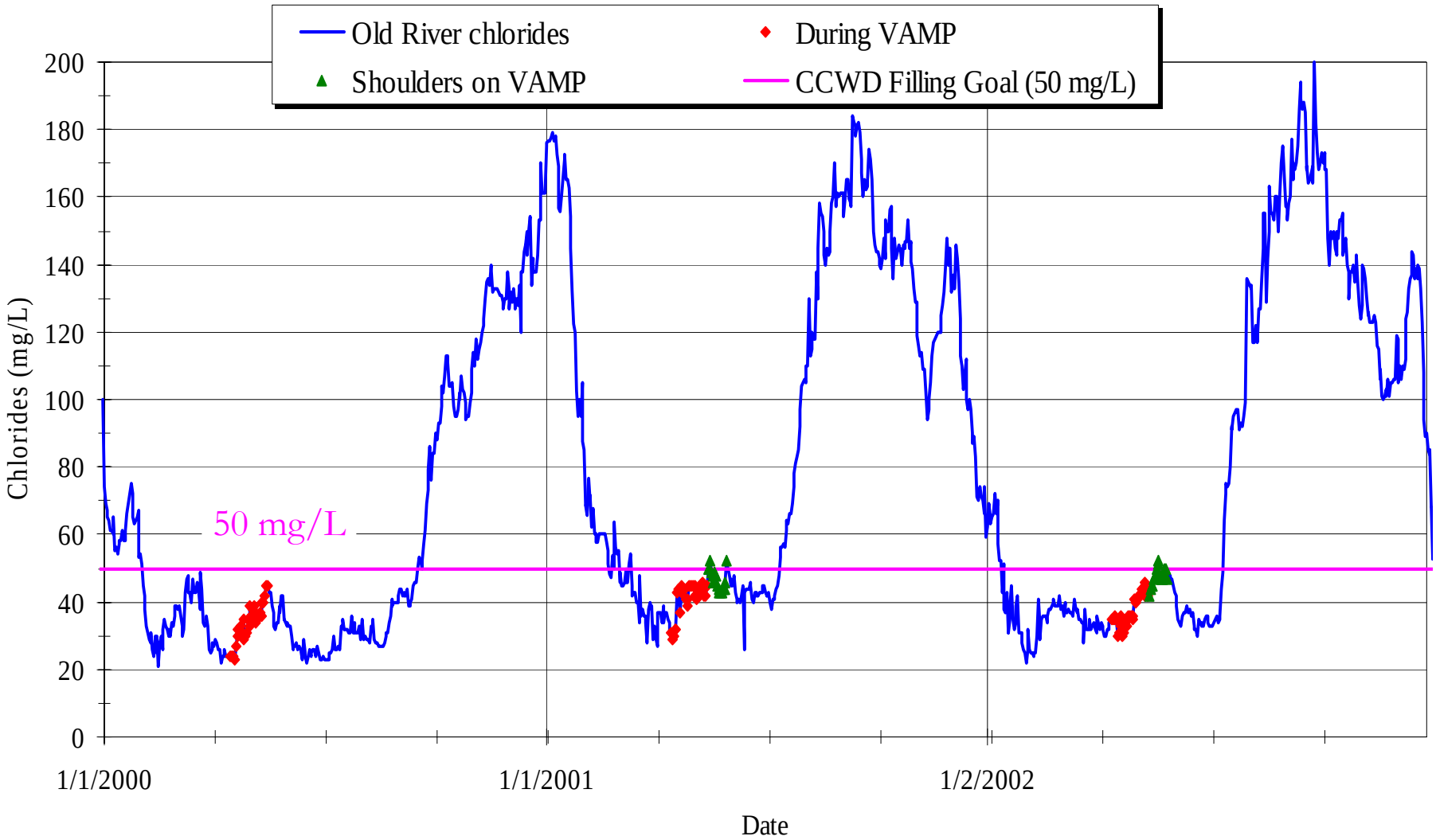
Water Quality Implications of EWA Actions

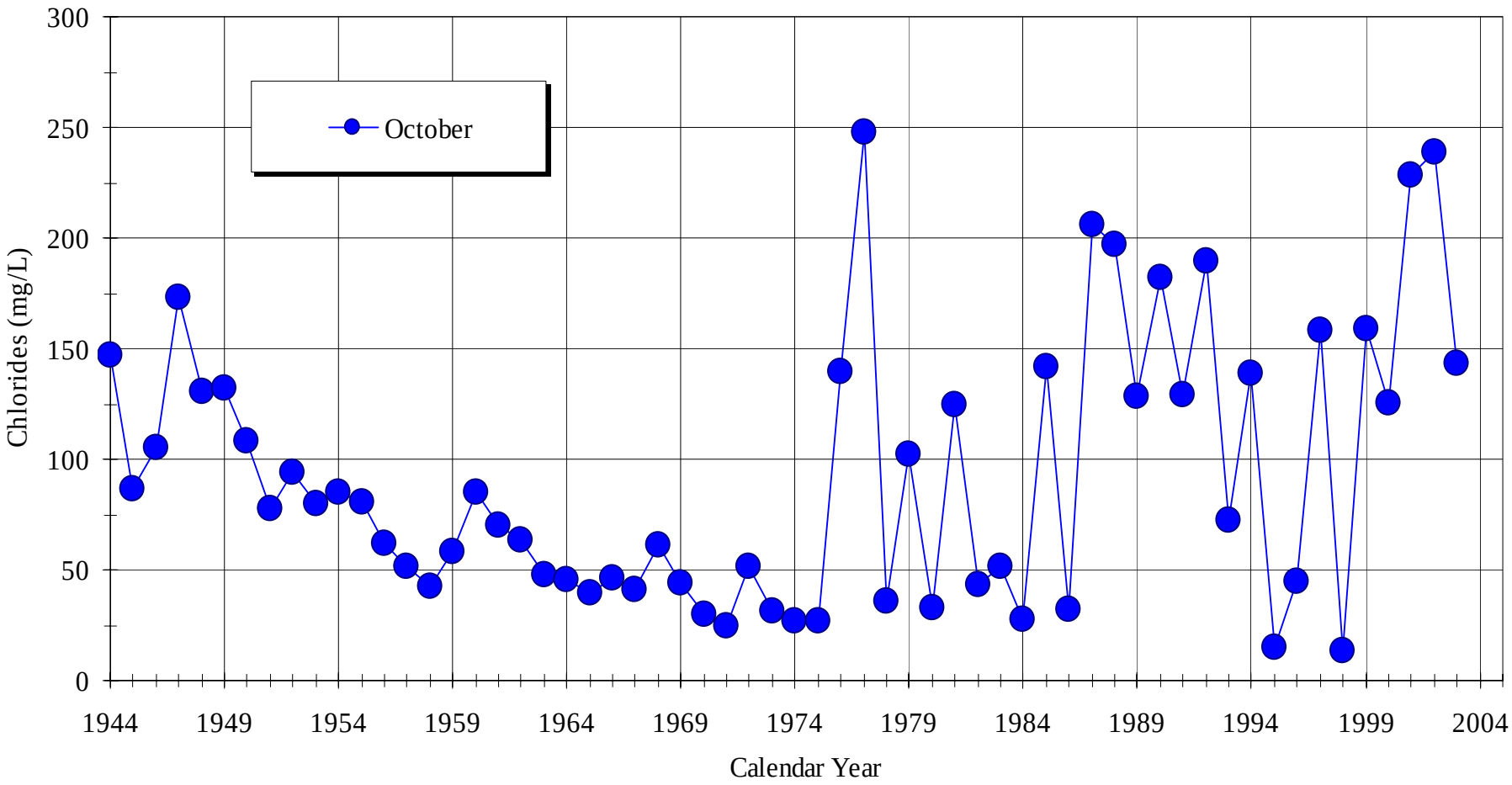
- **Delta Cross Channel Gates Closure**
  - Closing DCC to protect fish reduces the supply of freshwater to the interior Delta. Can degrade water quality.
- **Export Pump Reductions**
  - Maintaining exports at minimum levels during shoulders on VAMP allows agricultural drainage build up in south Delta. Net degradation.
  - Reduced exports in spring shift exports to the fall when water quality is poorer. Net degradation in diverted water quality.
- **Instream Flow Augmentation**
  - Increases flow of freshwater to Delta
  - Can degrade Delta water quality if instream flows exported


Urban Delta intakes
NBA
Mallard Slough (CCWD)
Rock Slough (CCWD)
Old River (CCWD)
Banks
Tracy

CCWD Old River Intake Chlorides



Rock Slough Monthly Chlorides in the Fall



Water Quality Implications of EWA Actions (continued)

- **Delta Outflow Augmentation**
  - **Improves** water quality by reducing seawater intrusion

Water Quality Implications of Acquisition of EWA Assets

- **Transfers of North of Delta Storage –**
  - North to south EWA transfers more likely to occur in dry years when there is export capacity.
  - Increased exports can increase seawater intrusion.
  - Carriage water is charged but not necessarily used
- **Export/Inflow Relaxation**
  - When environmental conditions allow, extra water is exported for EWA by relaxing SWRCB export/inflow ratio.
  - Can increase seawater intrusion at urban drinking water intakes.