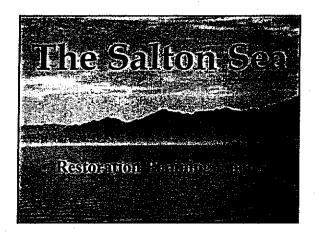
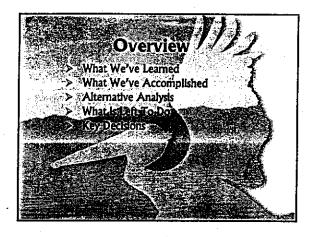
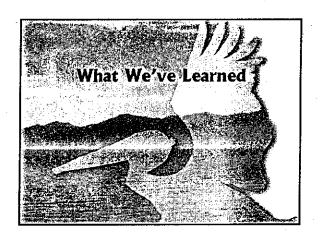
State Water Resources Control Board Hearing Name IID Transfer - Phase 2 Exhibit: 18

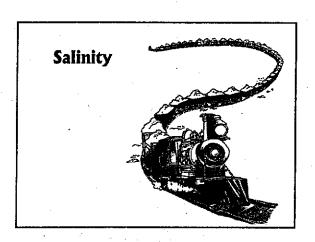
For Ident:

In Evidence:

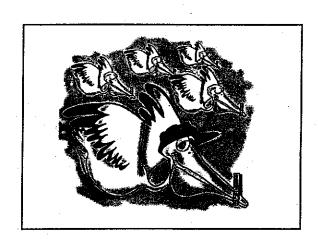


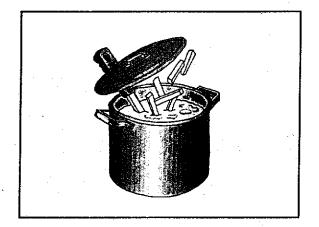






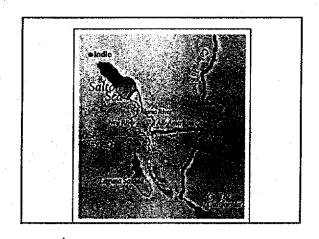
**Eutrophic Conditions** 

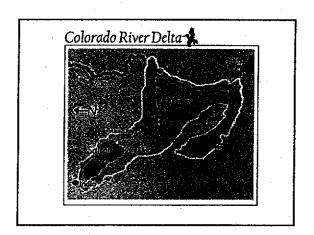




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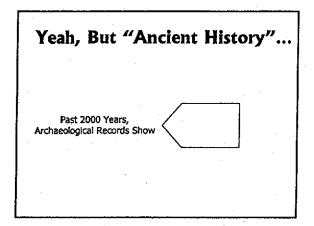
## **Natural History**

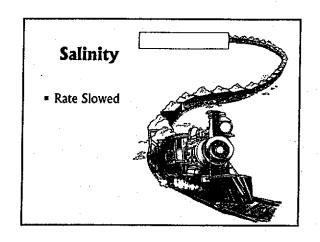


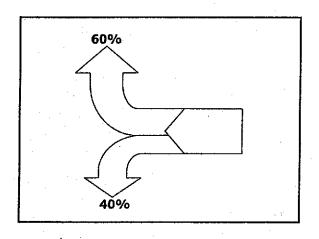








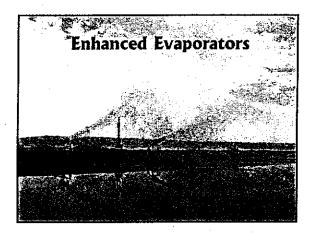






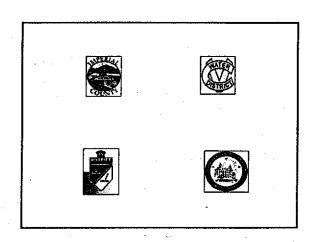




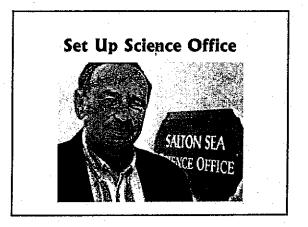


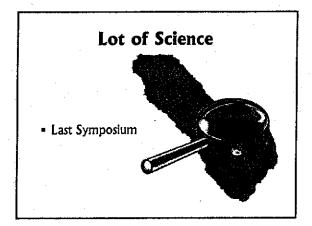






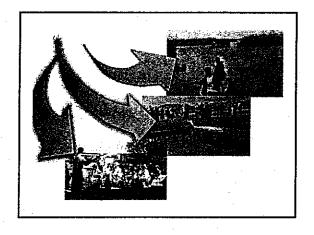


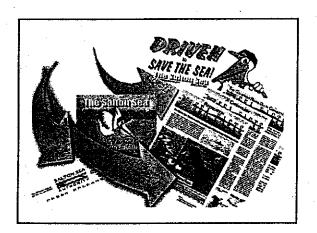


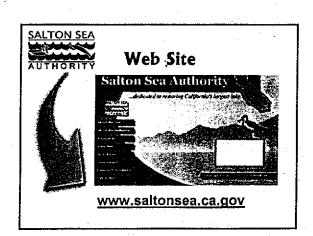


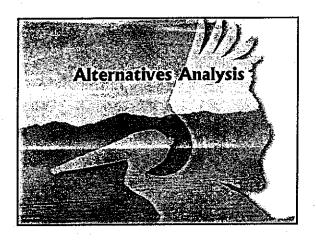










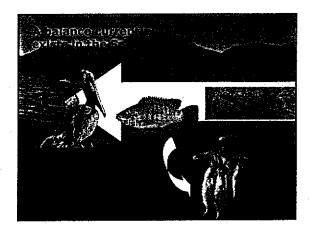


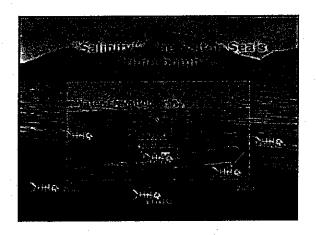
#### **Restoration Elements**

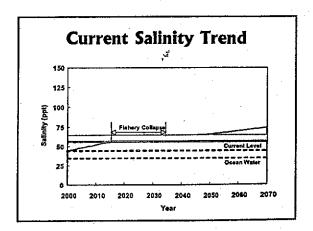
- Wildlife Disease Control
- Created Wetlands
- Recreation & Public Information
- Eutrophication Assessment
- Shoreline Cleanup
- Fishery Management/Fish Hatchery
- Salinity Control

#### Other Programs

- RWQCB TMDL Process
- Wetlands Development
- State Park Improvements







## **Alternative Narrowing**

- Alternatives
  - 39 in Pre-appraisal Report (1998)
  - -5 In Draft EIS/EIR (2000)
  - Updated 6 in Alternatives Report (2001)
- Considered, but eliminated
  - Pipelines
  - Desalination

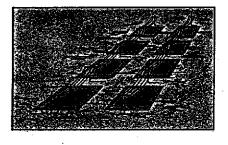


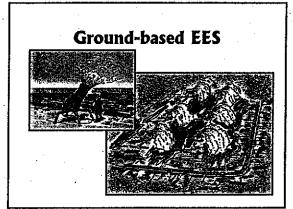


## **Salinity Control Alternatives**

Alternatives	Salt Removal
1	In-Sea Solar Ponds
2	Ground Based EES
3	Tower Based EES
4	On-Land Solar Ponds

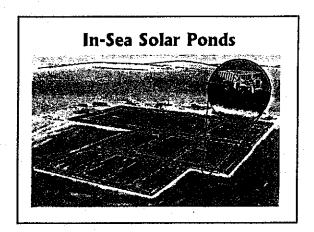


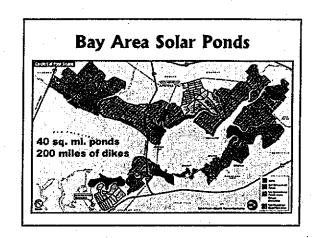


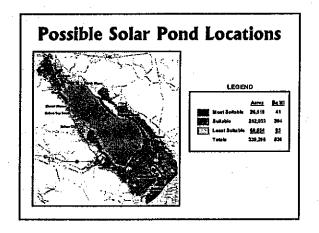


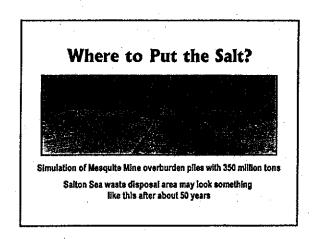


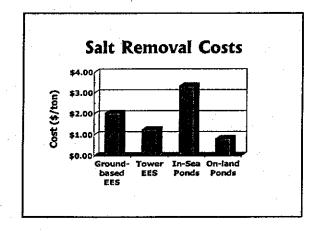


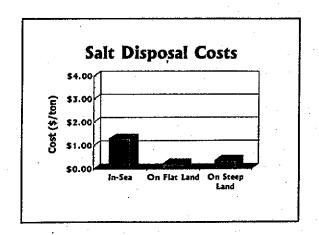


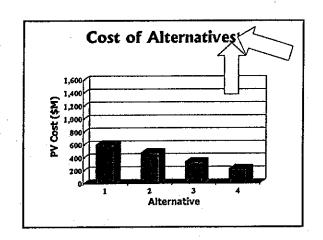










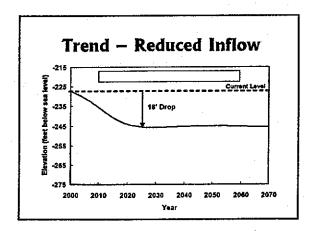


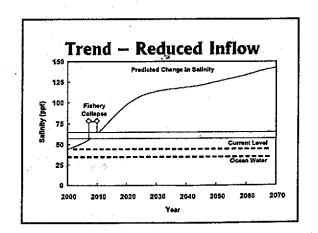
#### Footnote...

- But...
- Price Increases as Flows Decrease

# Implications for Restoration

# Trend – Reduced Inflow Pump-Back Transfer + Some Other Losses 1.0 maf/yr example...

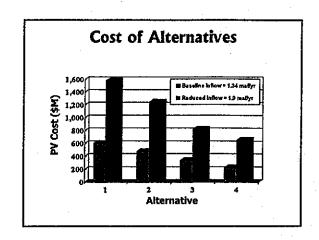


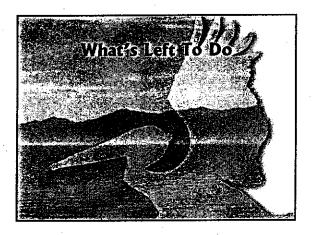


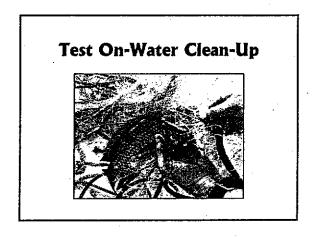
#### Trend - Reduced Inflows

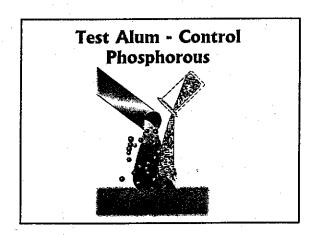
(e.g. under Pump-Back Systems)

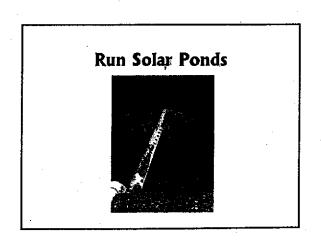
- Accelerated degradation
- Imminent fishery collapse
  - Much saltler than Mono Lake
- 18 foot drop
- 50,000 + exposed acres
- Air quality, ecological, property impacts?

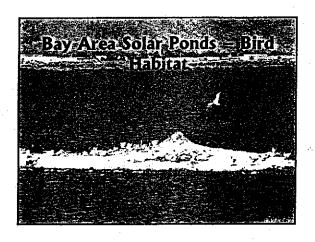


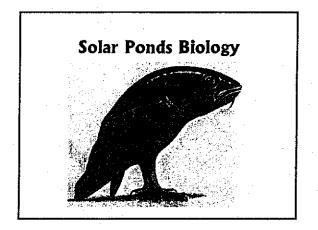






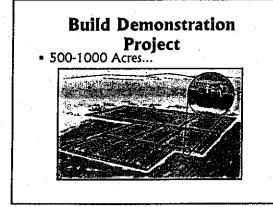










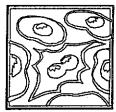


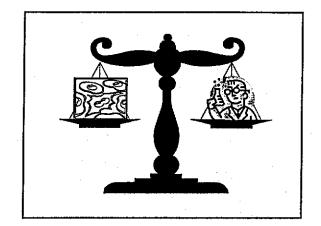
## **Environmental Analysis**

- Preferred Project
- EIS/EIR

# Consider Innovative Approaches

Biological Processes





# Consider Innovative Approaches

- Desalinization
- VTE
- Cal-Energy
- Pilot Project

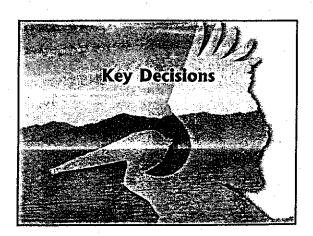


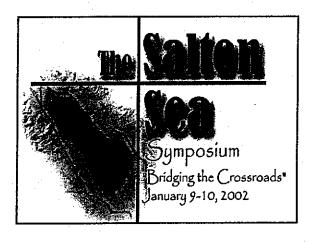


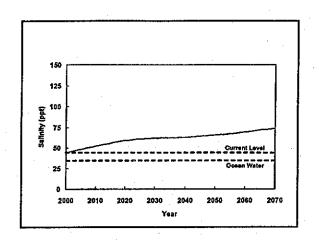
#### **Public Outreach**

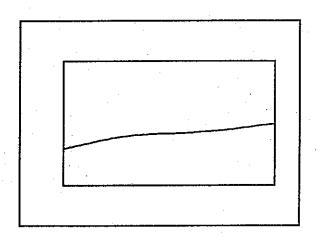
- Partnerships
  - Redlands
  - Local Districts

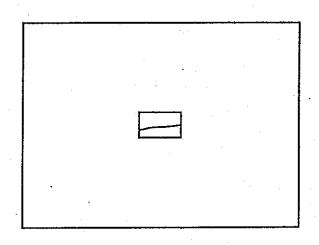


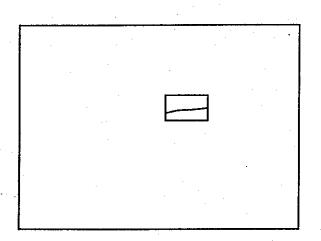


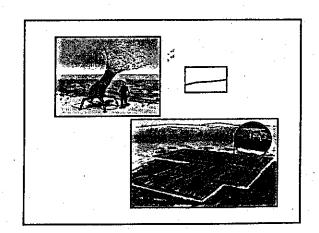


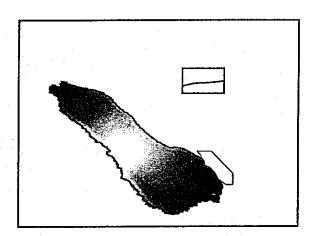








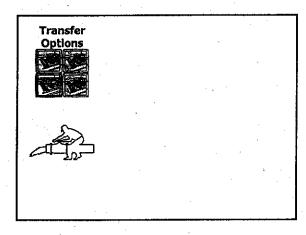


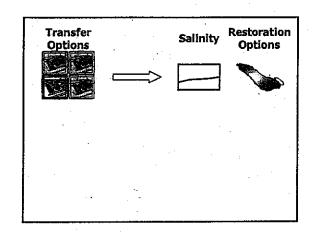


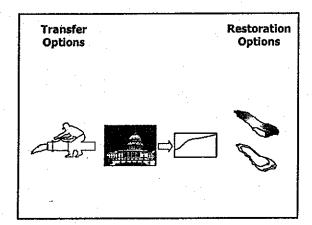
#### Cannot Plan in Vacuum

- Inflow Reductions
  - Major & Most Immediate-Water Transfer
  - Others-Mexico









#### **Scenarios**

- Under Current Inflows
  - "Modest" Solutions
  - E.g. Solar Evap. Ponds
- Under Reduced Inflows (Unmitigated)
  - Expensive, Very Challenging, Solutions
    E.g. Big, Deep Dikes
  - Save Small Part of Sea



