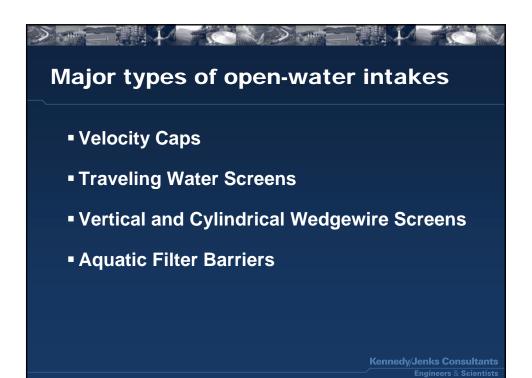






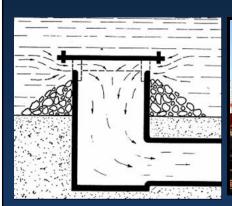
 Entrainment: organisms that are smaller that the screen are drawn into the intake

ennedy/Jenks Consultants



3

Velocity caps minimize the velocity at the intake to prevent impingement

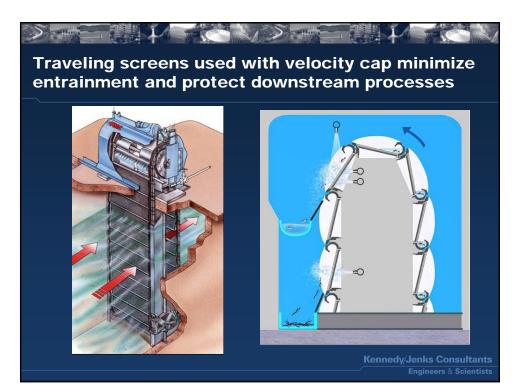


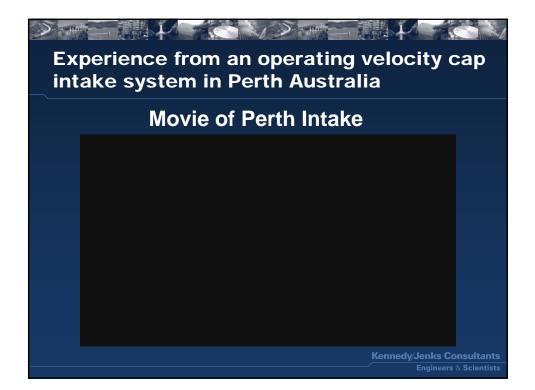
Intake velocity < 0.5 fps

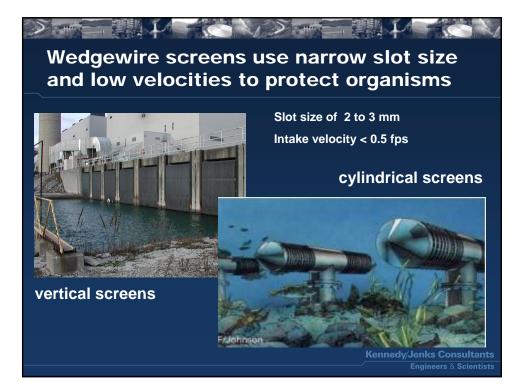


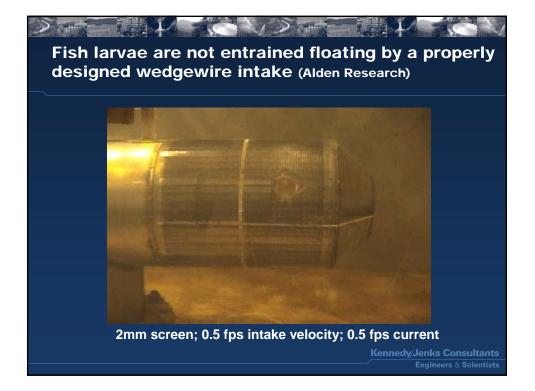
Velocity cap structure for the 38 MGD Perth, Australia Desalination Facility

Engineers & Scientists

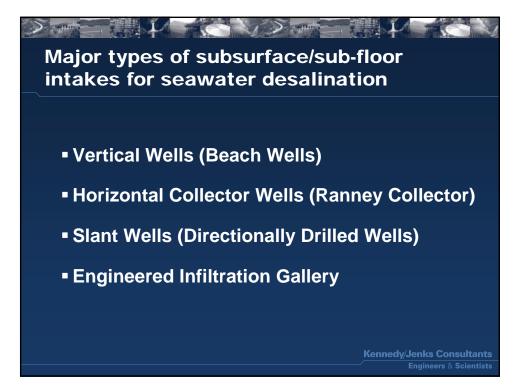




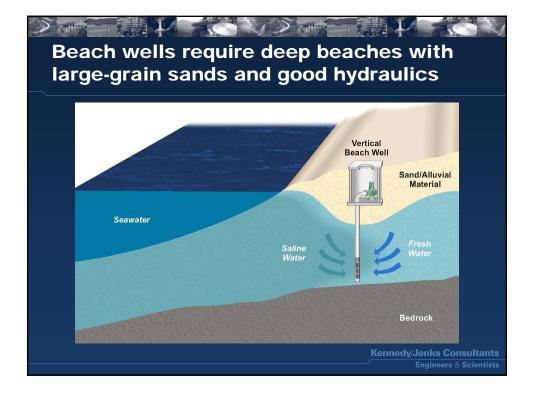


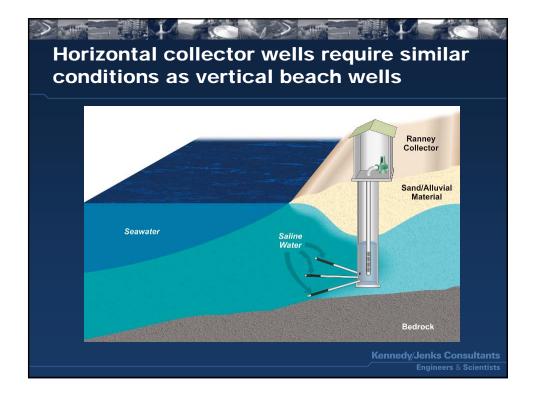


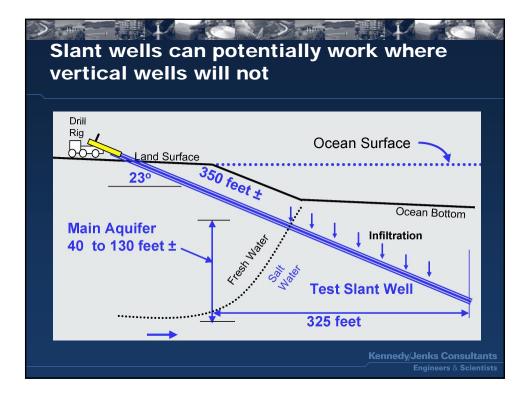










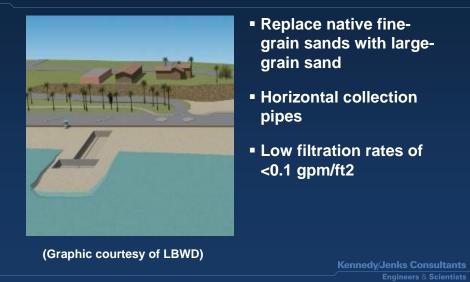




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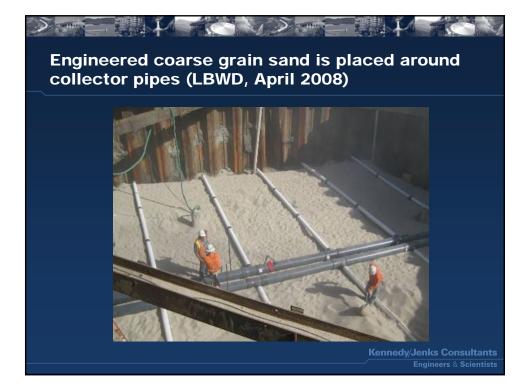


Long Beach is evaluating an engineered beach infiltration gallery approach







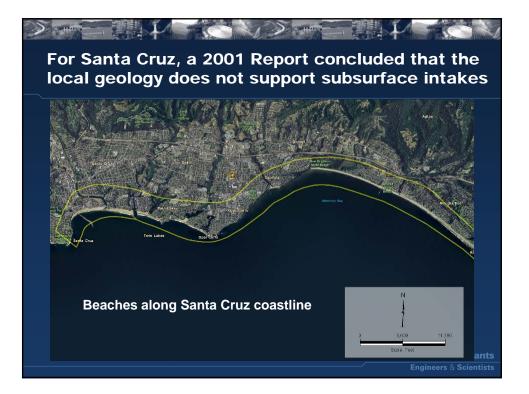




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Testing is underway with results expected soon



2001 Report concluded that beach wells and collector wells would not provide sufficient water



- Shallow beaches over bedrock
- Fine-grained sands
- Significant seasonal beach erosion
- San Lorenzo alluvial deposits have abundant organics, silts and clay

Kennedy/Jenks Consultants

scwd² current intake approach is to convert an abandoned outfall into a screened open intake Uses existing City of Santa Cruz infrastructure Reduces capital costs Minimizes construction impacts to ocean floor Cylindrical wedgewire screens Pacific Ocean to protect marine life





