Matilija Dam Ecosystem Restoration Project

Fall 2021 Technical Updates
Dam Removal 30% Design
10/07/2021
Dam Removal 30% Design

- Phase 1 – Dam Modification
  - Site Access and Work Pads
  - Orifices
  - Optional Gates
  - Protected Access to Orifices
  - Reservoir
- Sediment Flushing
  - Storm Prediction
  - Plug Blasting

- Phase 2 – Dam Removal
  - Site Access and Work Pads
  - Creek Diversion System
  - Dam Removal Sequence
- Restoration and Management
Dam Removal 30% Design – Phase 1 Dam Modification

- Site Access and Work Pads
- Orifices
- Optional Gates
- Protected Access to Orifices
- Reservoir Modifications
Dam Removal 30% Design – Phase 1 Site Access and Work Pads
Dam Removal 30% Design – Phase 1 Orifices
Dam Removal 30% Design – Phase 1 Optional Gates
Dam Removal 30% Design – Phase 2 Dam Removal

- Site Access and Work Pads
- Creek Diversion System
- Dam Removal Sequence
Dam Removal 30% Design – Phase 2 Site Access and Work Pads
Dam Removal 30% Design – Phase 2 Creek Diversion
Dam Removal 30% Design – Phase 2 Dam Removal Sequence
Dam Removal 30% Design – Restoration and Management

- Goals: natural vegetation recruitment and restoration of natural habitats in the former reservoir area post dam removal

- Activities:
  - Invasive exotic vegetation removal
  - Decompact and hydroseed construction work areas
  - Monitor natural vegetation recruitment
  - Seed and re-seed stable reservoir areas out of compliance with goals
  - Monitor fish passage conditions in former reservoir
Dam Removal 65% Design and Future Design Stages

• Scope: Confirm understanding and further detail design for
  • Orifice structural design
  • Onsite access and borrow sites
  • Rerouting the creek during construction phases
  • Pre-flush reservoir modifications (e.g., pilot channel)
  • Dam foundation removal

• Schedule and Reviews:
  • Draft 65% Design in mid-February 2022
  • 3-week review period