Malibu Legacy Park

A Green Cleaning Machine

MALIBU LEGACY PARK PROJECT
FULFILL A DREAM, LEAVE A LEGACY

28 February 2012

RMC

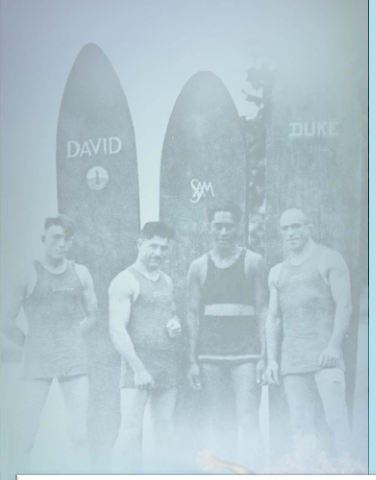
Geosyntec consultants

Project Location

SURFING

In 1907, George Freeth, a Hawaiian, introduced surfing to Southern California. Another Hawaiian, Duke Kahanamoku, was one of the first to discover the perfectly formed waves of Malibu's Surfrider Beach.

Purpose: Protect Highly Valued Water Resources from Stormwater Impacts



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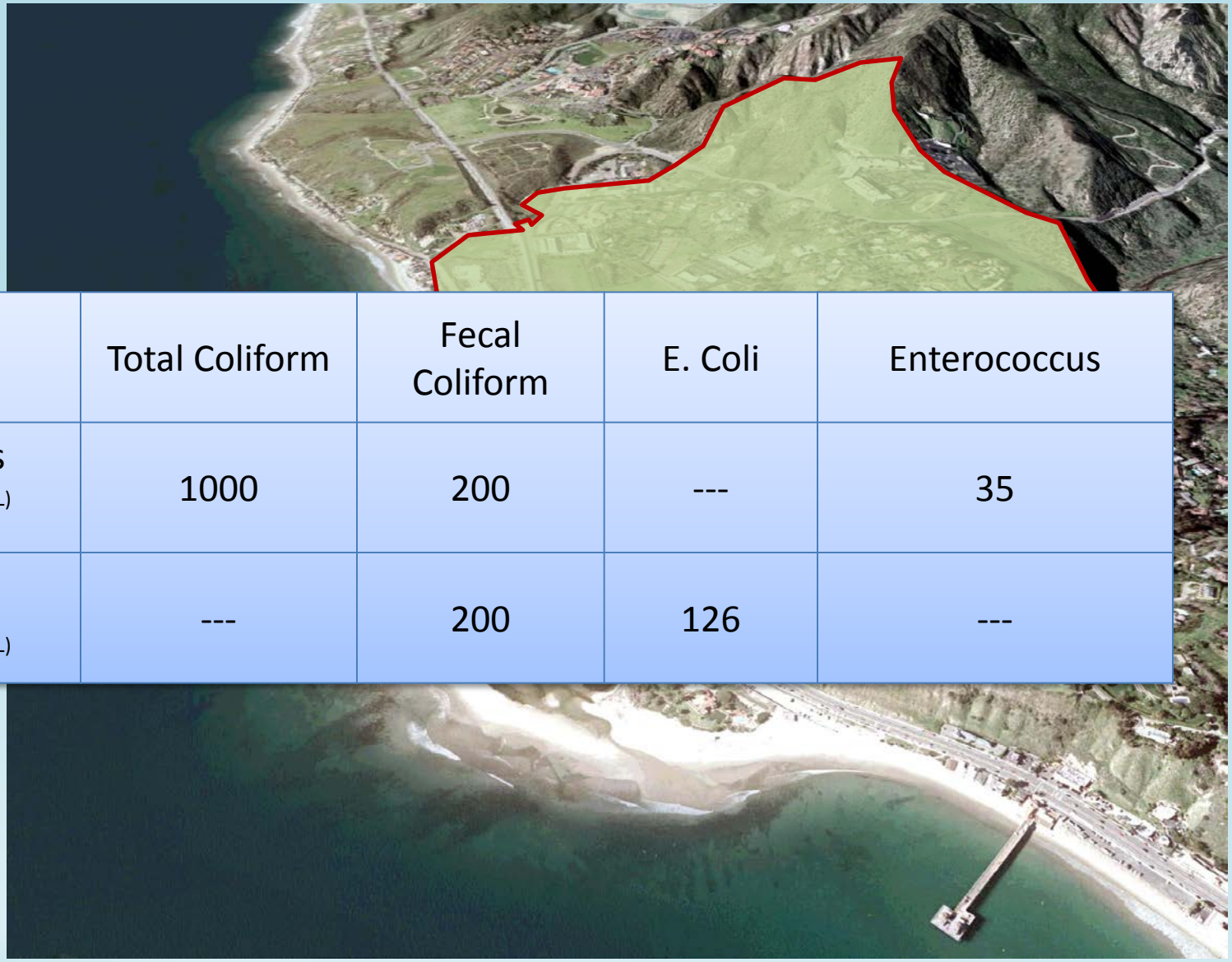
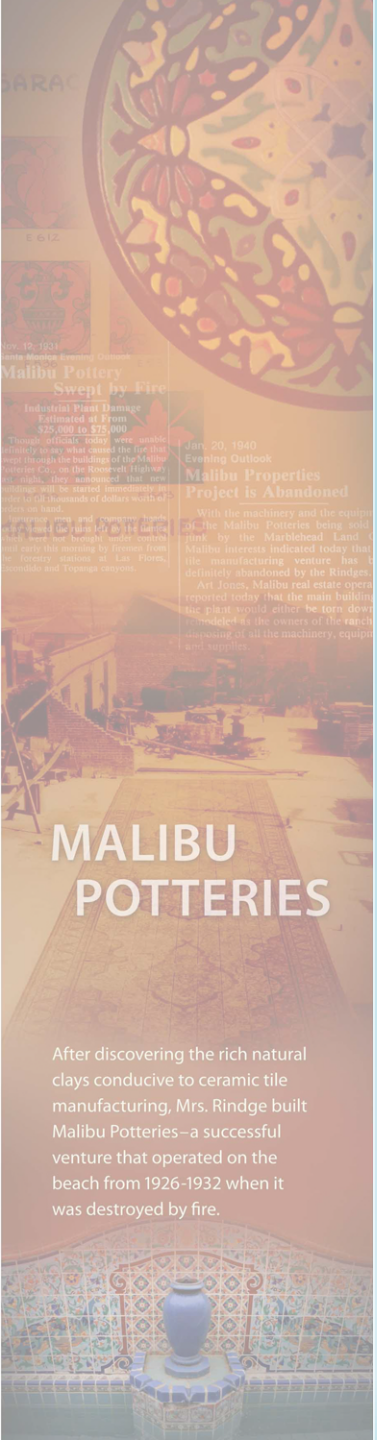
Approach: Manage Runoff from 337 Acres to Meet TMDL, and…



Location	Total Coliform	Fecal Coliform	E. Coli	Enterococcus
Marine Waters (Malibu Ck + Lagoon TMDL) (Santa Monica Bay TMDL)	1000	200	---	35
Fresh Waters (Malibu Ck + Lagoon TMDL)	---	200	126	---

… Create a Community and Environmental Asset

Stormwater Components, Project Operation



Long-term Flow Simulation Used to Size Facilities

- Continuous flow analysis
  - Spanning 57 yrs
  - 762 storms analyzed
- Optimized ‘dual’ use of detention volume
  - 4 AF to comply with stormwater TMDL
    - 100% of years
  - 4 AF for irrigation storage

Project Meets Stormwater TMDL Requirements

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Marine Waters (Malibu Ck + Lagoon TMDL) (Santa Monica Bay TMDL)	1000	200	---	35
Fresh Waters (Malibu Ck + Lagoon TMDL)	---	200	126	---
Performance of SWTF	800	---	15	12

Note: All TMDL values, 30-day mean MPN

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These values may be exceeded:

3 days during winter dry weather

17 days during winter wet weather

Park Features:
Forebay For Sediment Capture

CHUMASH

Humaliwo, "surf sounds loudly," was a Chumash Indian village on the high ground at the foot of Malibu Canyon where the creek ran into the ocean.

Park Features:
8 AF Detention Pond

The lagoon wetlands are home to two endangered species of fish, tidewater goby and steelhead trout. Since its incorporation in 1991, the City has been committed to improving water quality and preserving these precious habitats. Legacy Park is providing these water quality benefits.

Park Features:
Six Endangered Habitats

Park Features: Educational Elements

In 1804, retired Spanish soldier Jose Tapia received a Spanish land grant giving him grazing rights for Rancho Topanga Malibu Sequit. In 1892, the land was sold to Frederick Rindge. His widow May and daughter Rhoda presided over

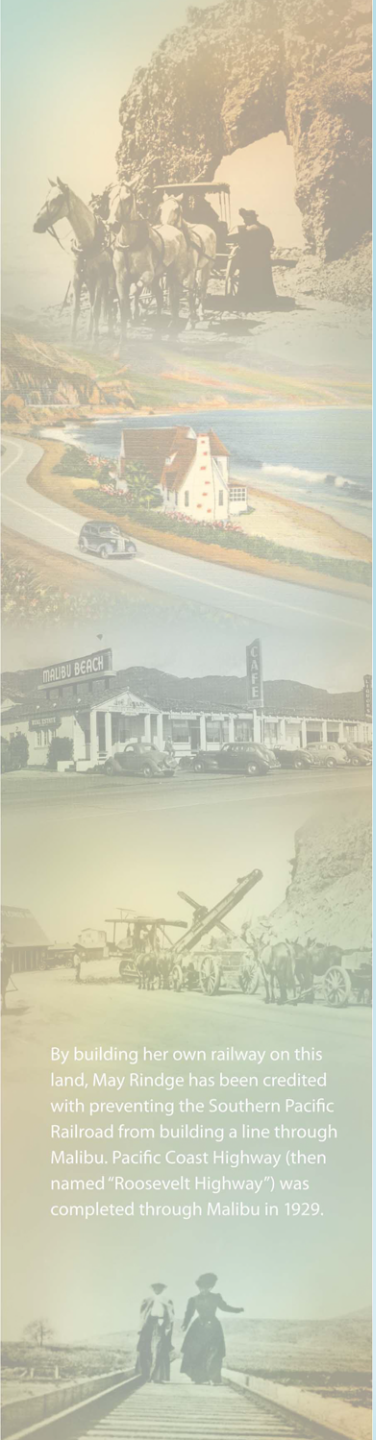
Park Features:
1.5 Miles of Pathways, Lookouts

By building her own railway on this land, May Rindge has been credited with preventing the Southern Pacific Railroad from building a line through Malibu. Pacific Coast Highway (then named "Roosevelt Highway") was completed through Malibu in 1929.

Project Generated Significant Grants and Donations

- $ 4M – SWRCB/SMBRC
- $ 4M - Regional Grants
- $ 2M – Annenberg Foundation
- $ 1M – SMBRC/SCC
- $ 1M – Los Angeles County
- $ 0.7 M – Private Donors
- $ 0.5 M – CIWMB

Total Design & Construction Cost: $16 million



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Thank You