

San Dieguito Lagoon Inlet Opening

25 April 08 to 6 May 08



Presented to

The City of Del Mar

Presented by

Coastal Environments

and

Southern California Edison Company

5 May 2008



Objectives

San Dieguito Lagoon Inlet Opening

1. Opening of San Dieguito Lagoon inlet
(closed on 16 March 2008)
2. Beneficial placement of sand on the
beach

Previous Artificial Openings by the City of Del Mar

San Dieguito Lagoon Inlet Opening

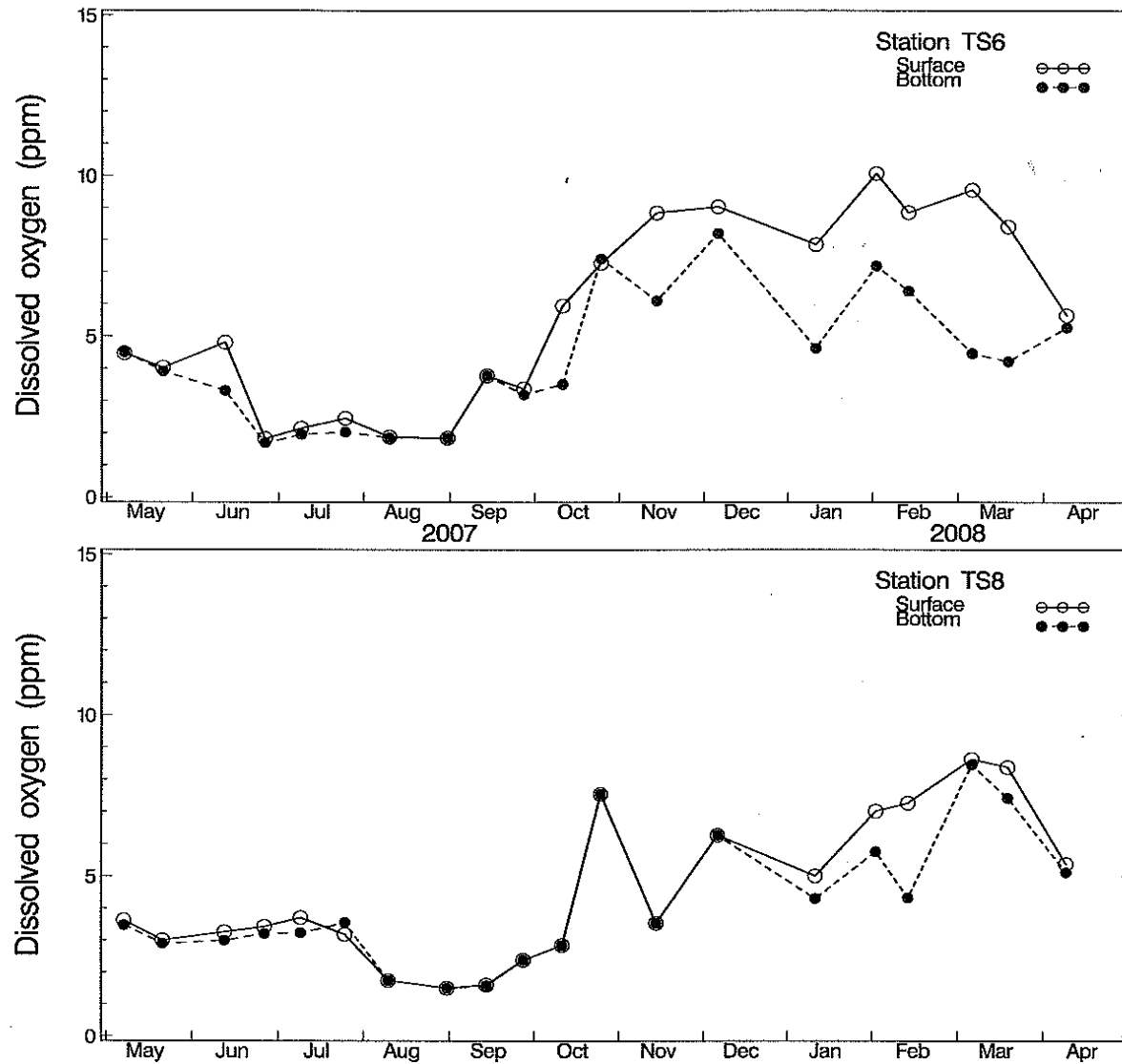
Lagoon Closures	Openings	Opened by
11 April 1999	23 September 2000	City of Del Mar
22 November 2001	23 September 2002	City of Del Mar
25 April 2003	5 September 2003	City of Del Mar
16 June 2006	22 September 2006	City of Del Mar
16 March 2007	6 May 2008	City of Del Mar

Lagoon Water Quality Conditions

San Dieguito Lagoon Inlet Opening

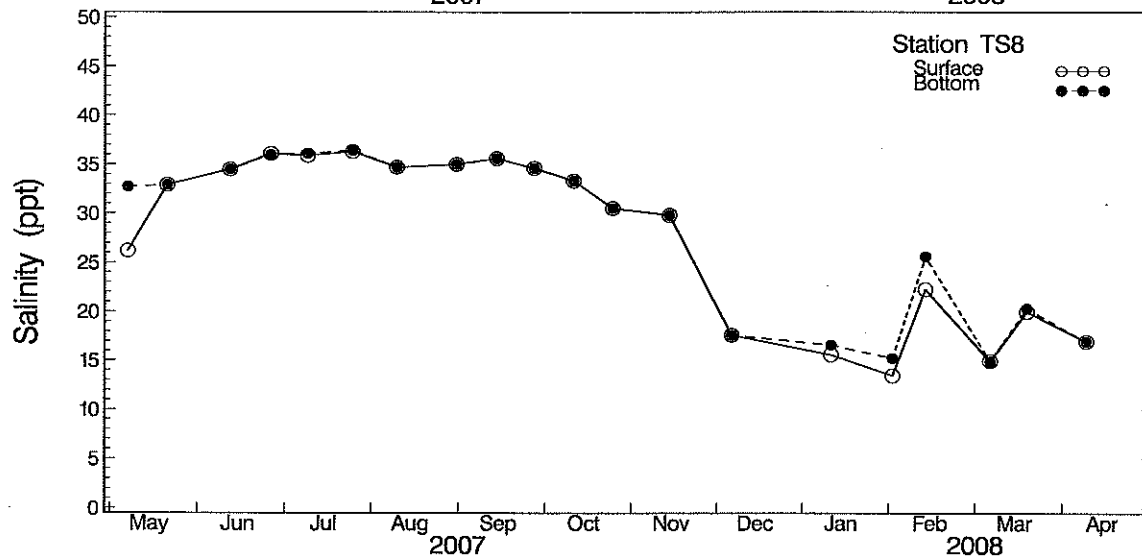
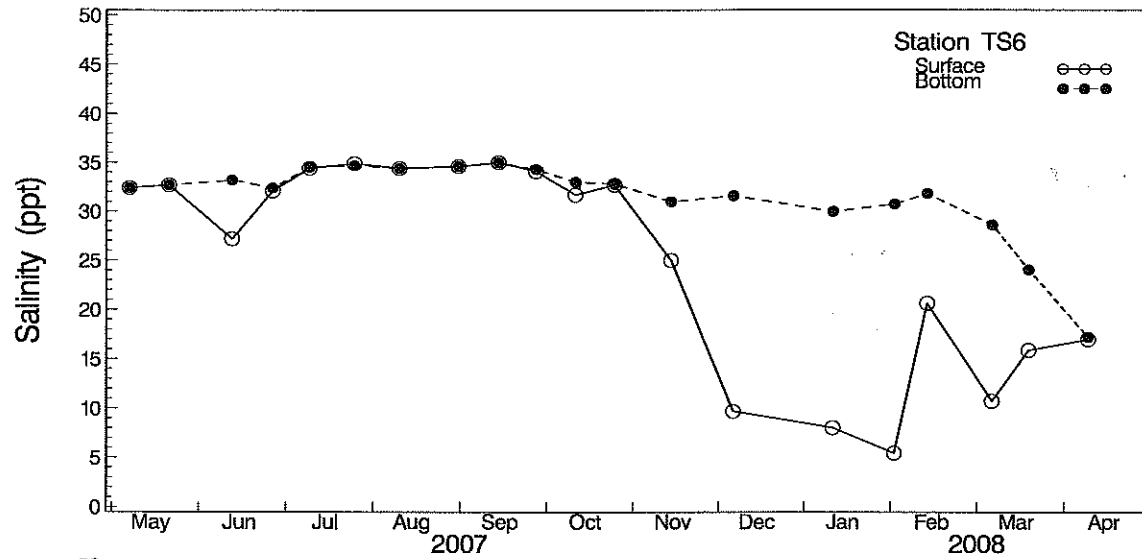
- Water quality measurements have been routinely conducted at various locations within the lagoon for:
 - Dissolved oxygen (DO)
 - Salinity
 - Temperature
 - pH

South Channel



Dissolved oxygen (DO)

South Channel



Salinity

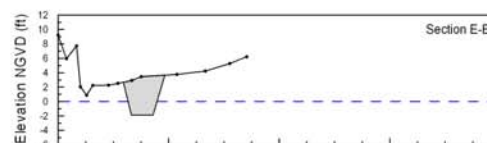
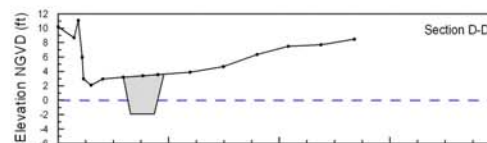
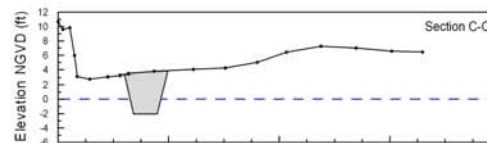
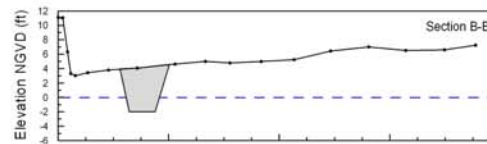
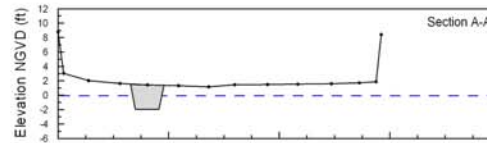
Excavation Plan & Disposal Site

San Dieguito Lagoon Inlet Opening

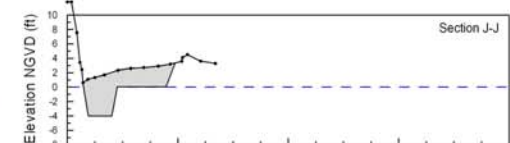
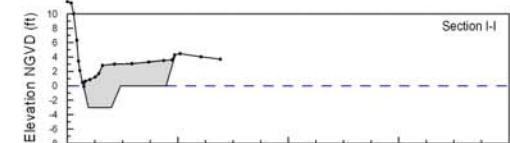
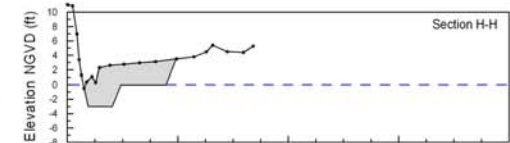
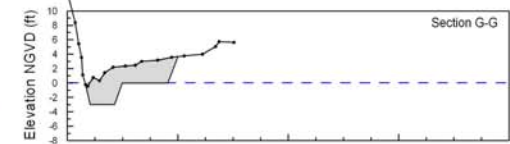
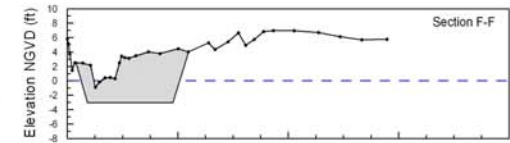


Cross Section Locations

San Dieguito Lagoon, Inlet Survey
27Mar08



San Dieguito Lagoon, Inlet Survey
27Mar08



Distance Along Traverse (ft)

Distance Along Traverse (ft)

Construction Activities

(20 March 2008)

San Dieguito Lagoon Inlet Opening



Photograph showing the lagoon inlet closed.

Construction Activities

(17 April 2008)

San Dieguito Lagoon Inlet Opening



Photographs showing high water level in the lagoon.

Construction Activities

(25 April 2008)

San Dieguito Lagoon Inlet Opening



Photographs showing excavator opening the lagoon inlet to lower the water level in the lagoon.

Construction Activities

(25 April 2008)

San Dieguito Lagoon Inlet Opening



Photographs showing water drained out of the lagoon.

Construction Activities

(26 April 2008)

San Dieguito Lagoon Inlet Opening



Photograph showing lower water level in the lagoon and sand trapped west of Highway 101.

Construction Activities

(1 May 2008)

San Dieguito Lagoon Inlet Opening



Photographs showing excavation activities at the West Channel.

Construction Activities

(1 May 2008)

San Dieguito Lagoon Inlet Opening



Photographs showing Joe Ellis checking the excavated bottom elevation.

Construction Activities

(1 May 2008)

San Dieguito Lagoon Inlet Opening



Photograph showing beach condition south of the inlet during high tide.

Construction Activities

(1 May 2008)

San Dieguito Lagoon Inlet Opening

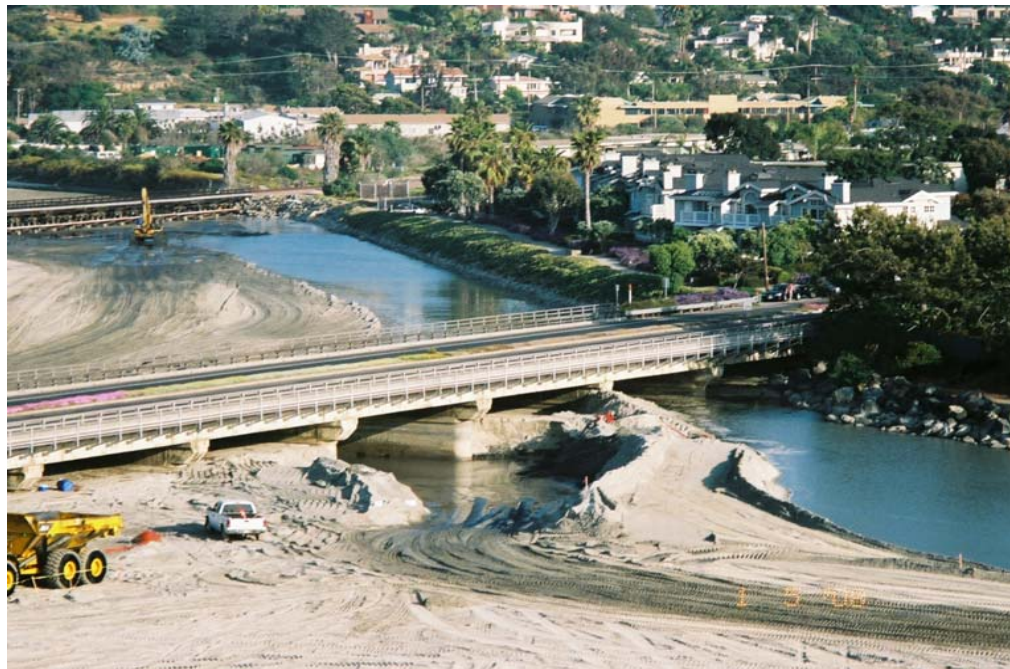


Photographs showing sand placement south of the inlet.

Construction Activities

(1 May 2008)

San Dieguito Lagoon Inlet Opening



Photograph showing excavation under Highway 101 to allow transport of sand from east to west of Highway 101.

Construction Activities

(2 May 2008)

San Dieguito Lagoon Inlet Opening



Photographs showing sand placement south of the inlet.

Construction Activities

(2 May 2008)

San Dieguito Lagoon Inlet Opening



Photographs showing the beach south of the inlet.

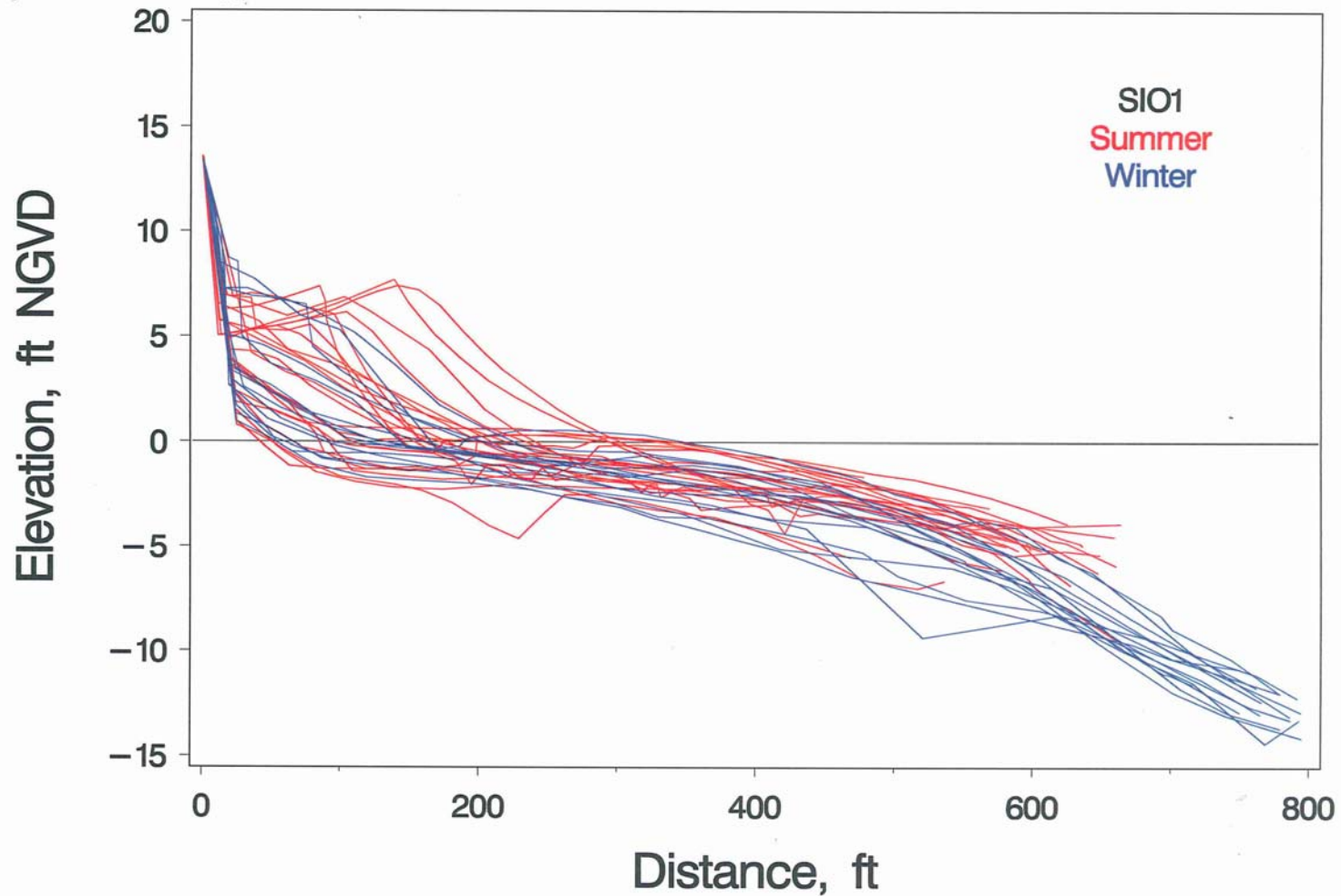
Construction Activities

(2 May 2008)

San Dieguito Lagoon Inlet Opening



Photograph showing the new inlet of San Dieguito Lagoon.



Del Mar Beaches Subject to Cyclical Beach Erosion Under Existing Conditions