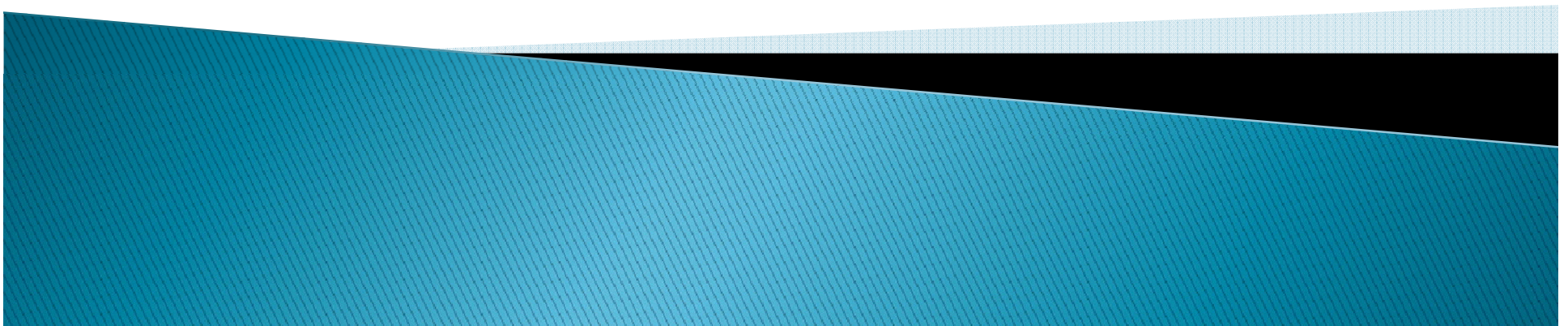


DOCKETED

Docket Number:	07-AFC-06C
Project Title:	Carlsbad Energy Center - Compliance
TN #:	203136
Document Title:	September 25, 2014 - Public Workshop, Biological Resources Presentation
Description:	N/A
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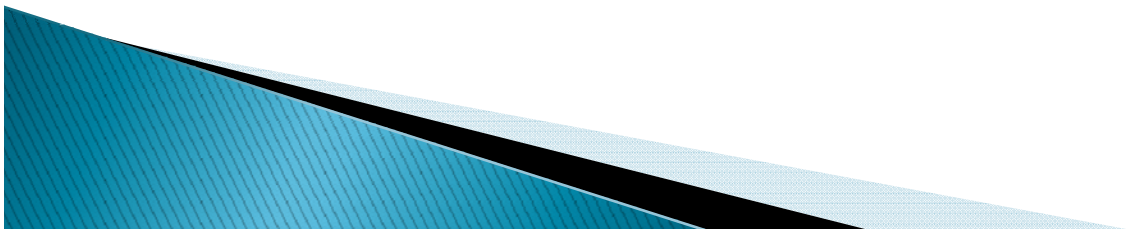
Biological Resources: Encina Removal and Carlsbad Construction

Carol Watson



Overview of Resources

- ▶ Existing CECP Site has been developed for years, containing few natural resources; but is situated along the Agua Hedionda Lagoon.
- ▶ Species occurring at CECP site are typically common species, acclimated to development, such as small rodents, lizards, and birds such as crows and pigeon. There is also potential for brief interaction of less urbane species associated with the Lagoon, such as overflight.
- ▶ Not in an established migratory or dispersal corridor

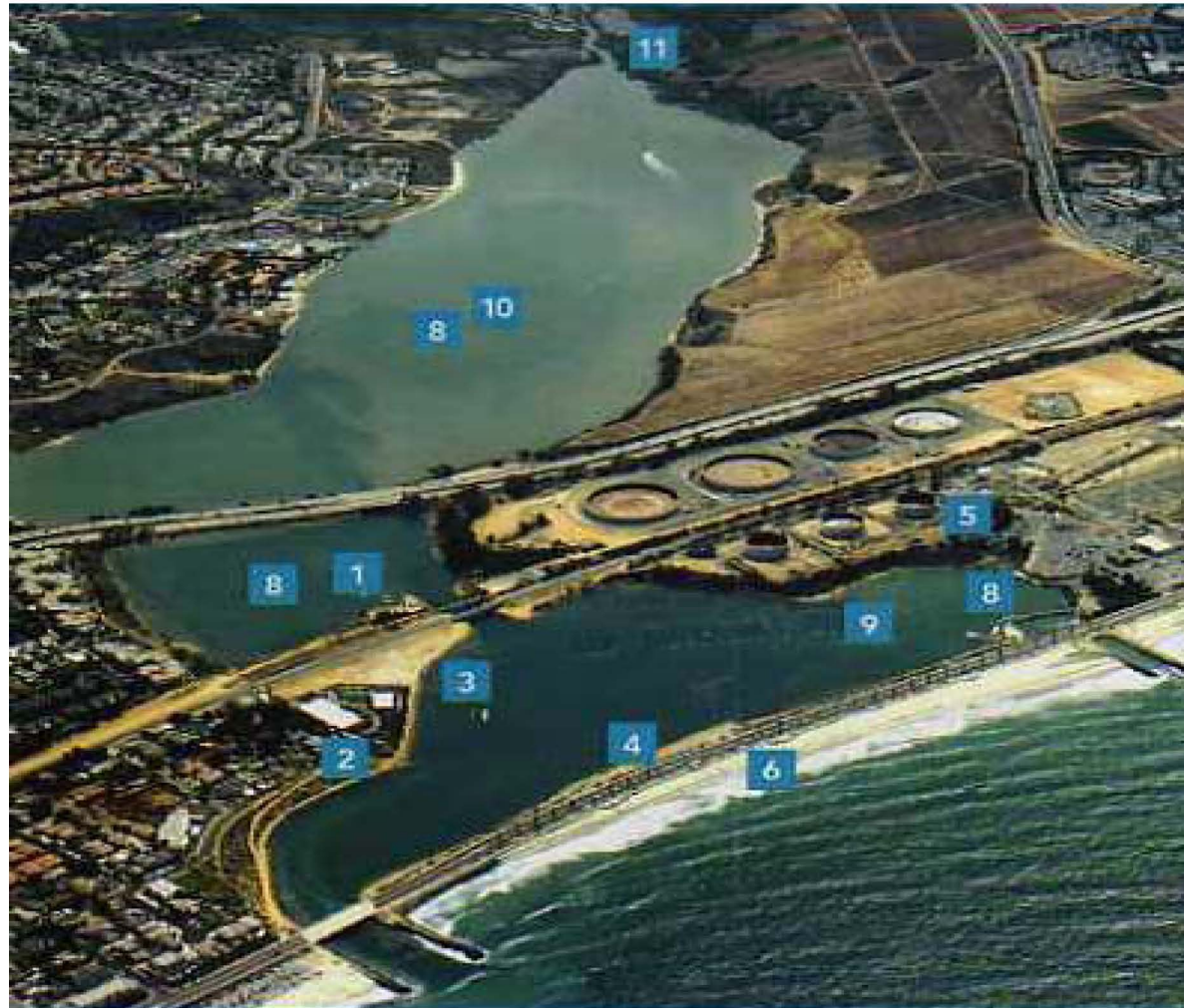


Agua Hedionda Lagoon

- ▶ The Lagoon is a thriving ecosystem
- ▶ Multi Use Area
- ▶ Home to wide variety wildlife
- ▶ Mariculture operations
- ▶ California Department of Fish and Wildlife (formerly Fish and Game) Ecological Reserve
- ▶ Many other recreational and beneficial uses

<u>Common Name</u>	<u>Status</u>
California adolphia	CNPS List 2
Coastwoolly-heads	CNPS List 2
Cliff spurge	CNPS List 2; HMP
Orcutt's pincushion	CNPS List 1B
South saltscale	CNPS List 1B
Wart-stemmed ceanothus	CNPS List 2; HMP
Saltmarsh skipper butterfly	HMP
San Diego fairy shrimp	FE; HMP
Tidewater goby	FE; CSC
Southwestern pond turtle	CSC
American peregrine falcon	FD; CE, HMP
Belding's savannah sparrow	CE; HMP
California brown pelican	FE; CE, FP; HMP
California least tern	FE; CE, FP; HMP
Coastal gnatcatcher	FT; CSC; HMP
Cooper's hawk	WL: HMP
Elegant tern	WL: HMP
Light-footed clapper rail	FE; CE, FP; HMP
Osprey	WL: HMP
Western snowy plover	FT; CSC; HMP
White-faced ibis	WL: HMP
Pocketed free-tailed bat	CSC

Agua Hedionda Lagoon Resources



Agua Hedionda Lagoon, continued

Agua Hedionda Lagoon Hydrodynamic Studies

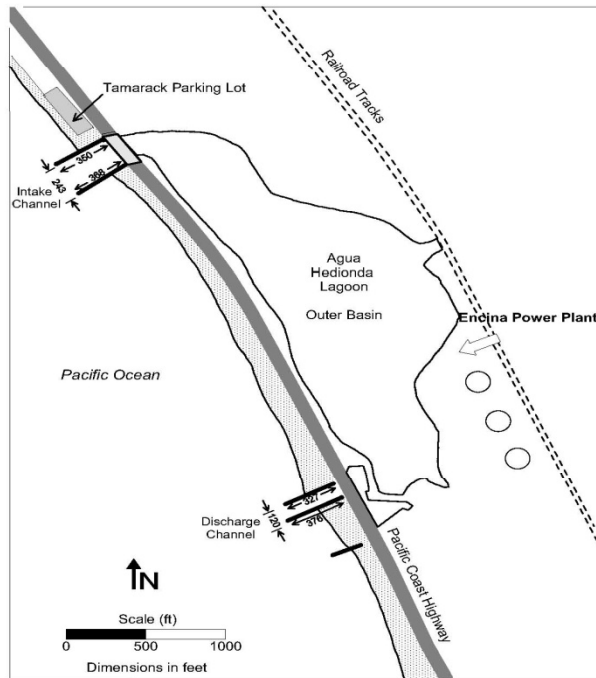


Figure 1-3. Configurations of intake and discharge channels of Agua Hedionda Lagoon.

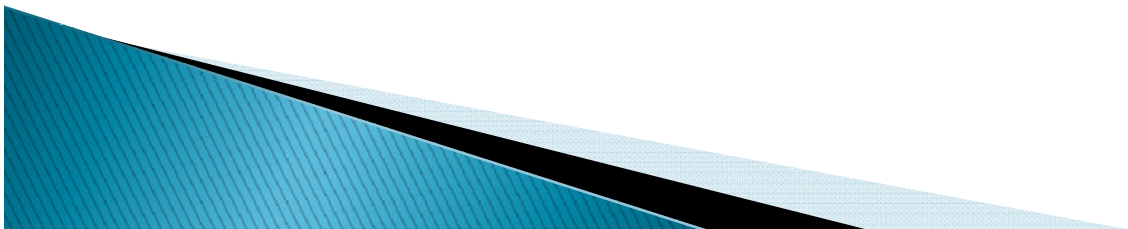
Limited tidal connection

- Regular dredging 303d Impaired Lagoon under Clean Water Act
- ▶ Layered approach of state, federal, and local management plans exist

▶ Figure taken from Coastal Environments' 2005 Technical Report: AHL Hydrodynamic Studies

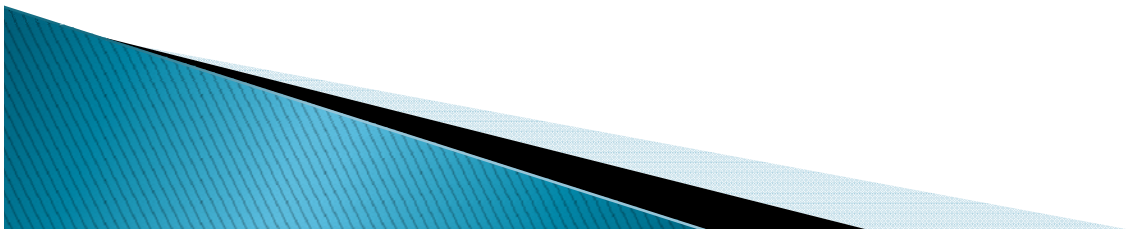
Staff Analysis of Amendments

- ▶ Staff currently plans to publish the Preliminary Staff Analysis in fall, 2014.
- ▶ Staff has two simultaneous processes for gathering and analyzing data:
 - Formal Data Requests
 - Independent staff data verification & analysis



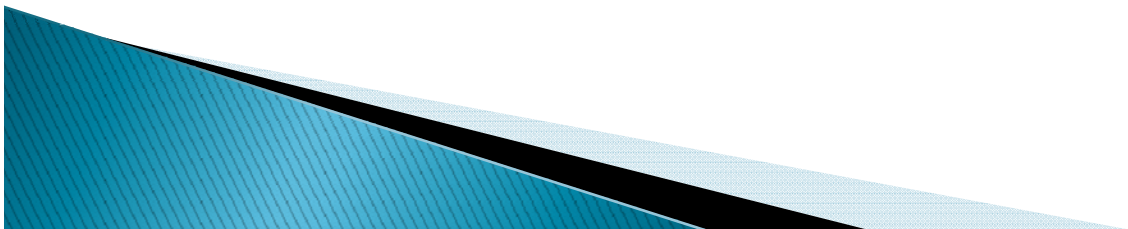
Biological Data Requests

- ▶ **BACKGROUND: Off-shore Marine Terminal Facilities**
- ▶ The current Encina Power Station (EPS) has facilities which remain from past years of operation when No. 6 fuel oil was delivered to the EPS on oil tanker barges. Used as the primary source of fuel from 1954 through 1972, fuel tankers would moor at the offshore marine terminal and deliver No. 6 fuel oil to the plant. The marine terminal consists of a 225-foot long flexible hose and a 20-inch diameter submerged pipeline. The submerged pipeline comes onshore opposite the main entrance and extends underground due east to the seven above-ground storage tanks (ASTs) on the EPS site.
- ▶ The PTA (page 2-38) states that the ocean water intake system will be isolated from the lagoon, and aboveground elements demolished and removed, while intake canals and underground circulating piping will be isolated and remain intact. Crushed concrete and other onsite fill will be used to restore subgrade areas to grade where they present a safety risk by not being filled. Detailed plans for the isolation of the intake structure and discharge piping that the Carlsbad Desalination Project will continue to use will be documented in an EPS Demolition Plan that will be submitted to the Energy Commission Compliance Project Manager for review and approval.



Data Requests, continued

- ▶ **DATA REQUESTS**
- ▶ For the underwater facilities that will remain in place, please describe if any potential impacts to special status species or lagoon floor habitat could occur from leakage, corrosion, or even eventual breakage.
- ▶ If impacts may occur, please describe if a maintenance plan will be developed for underwater facilities, and what this plan might entail.



Ongoing Impact Analysis

▶ Noise and Vibration

- Analysis of demolition for Tanks 1,2, and 4 ongoing
- Construction impacts similar to what's previously analyzed for the amended CECP (already permitted)
- Noise staff have requested data specific to demolition of the stack and associated project elements
- Agua Hedionda Management Plan limits noise to 60 decibals. The condition for this aspect of the project will remain largely the same as for the amended CECP Project
- Potential construction of desal and associated impacts

