

California State Lands Commission

Sacramento, CA October 16, 2018

MIACC

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Why Regulate Biofouling Management? What's the Risk?

Ballast Water Average discharge = 7,600 m³

76,000

invertebrates

Biofouling

Average niche area 1160 m²

100,000 invertebrates

California State Lands Commission Why Regulate Biofouling Management?
What's the Risk?

Davidson et al. 2013: Richness, extent, condition, <u>reproductive</u> <u>status</u>, and parasitism of fouling communities on commercial vessels

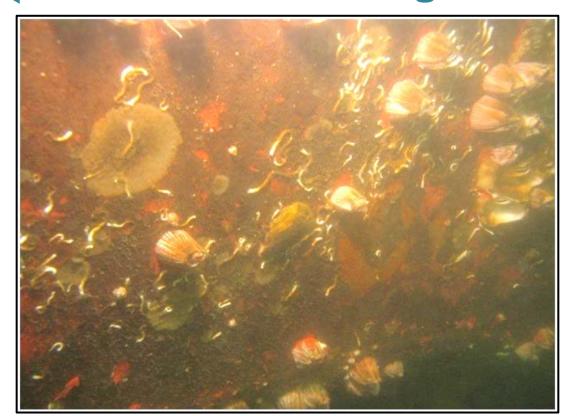
95.4% of organisms were alive

 > 91% of mussels had welldeveloped gonads

 25% of barnacles had developed egg masses



California's Biofouling Management Regulations



Approved 20 April 2017

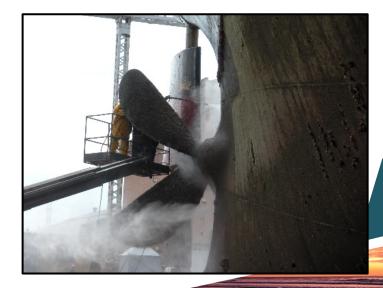
Effective 1 October 2017

Implementation

Last dry dock/delivery on or after 1 January 2018

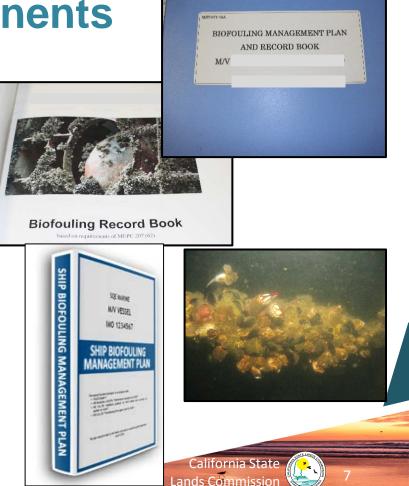


- Phased-in implementation based on regularly scheduled dry docking (or delivery)
- Why phased-in?
 Effective biofouling management is dependent on Biofouling Management Plans and preventive practices best implemented in dry dock



Main Components

- Biofouling Management Plan and Biofouling Record Book
- Annual Vessel Reporting Form
 - Anti-fouling coatings, management actions, vessel profile, residency periods...
- Biofouling management for wetted surfaces
 - Hull and niche areas
- Effective lifespan of coatings applied



Inspection and Enforcement

Prioritization: Initially all BF vessels – 1st arrival

Outreach!

 Soon: Weighted risk assessment (based on Annual Vessel Reporting Form)

- + or risk scores
- High Risk
- Medium Risk
- Low Risk
- No Priority





Lands Commission

Inspections

 Focused on Biofouling Management Plan and Biofouling Record Book

Outreach opportunity

Assess industry knowledge

60-day grace periods



Preliminary results and lessons learned

- ~45 biofouling inspections since August 2018
- ~30 grace periods issued

Most common deficiencies:

- Niche area management description
- Effective coating lifespan

Less common deficiencies

- No Biofouling Management Plan
- No Biofouling Record Book

Lessons Learned – Areas of improvement

Where are the knowledge gaps?

- Expected coating lifespan
- Out-of-water support strips (dry dock support blocks)

Follow-up with <u>targeted</u> <u>outreach</u>



Lessons Learned

Different approach than ballast water

Ballast Water:

Crew is responsible for BW Management actions

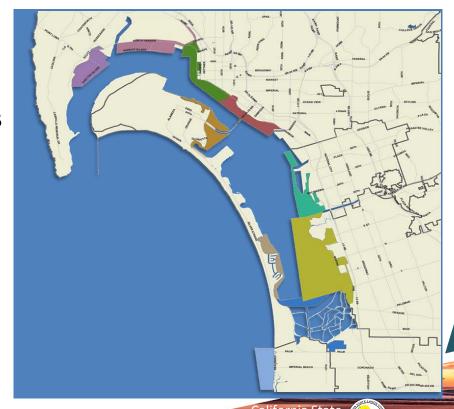
Biofouling

Ownership/management is responsible for developing BF Management Plan



A collaborative partnership between the Port of San Diego and State Lands Commission

- Commitment to transparent, robust public engagement
- Reduce the potential for conflict among Public Trust uses
- Consider ways to effectively and responsibly inform decision-making

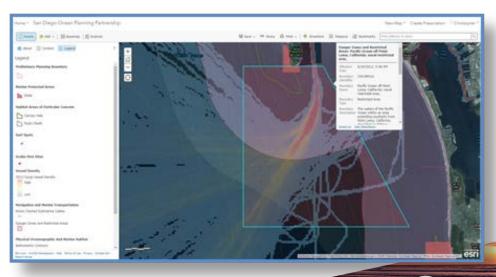


Understanding Ocean Uses Offshore San Diego County

Public Engagement

Data Collection







Navigation



Examples of datasets

- Navigational aids
- Wrecks and obstructions



Commerce



Examples of datasets

- Alternative & renewable energy
- Oil & gas



Fisheries



Examples of datasets

- Fishing piers and Jetties
- Fishing vessel density



Recreation



Examples of datasets

- SCUBA dive sites
- Boat launch sites



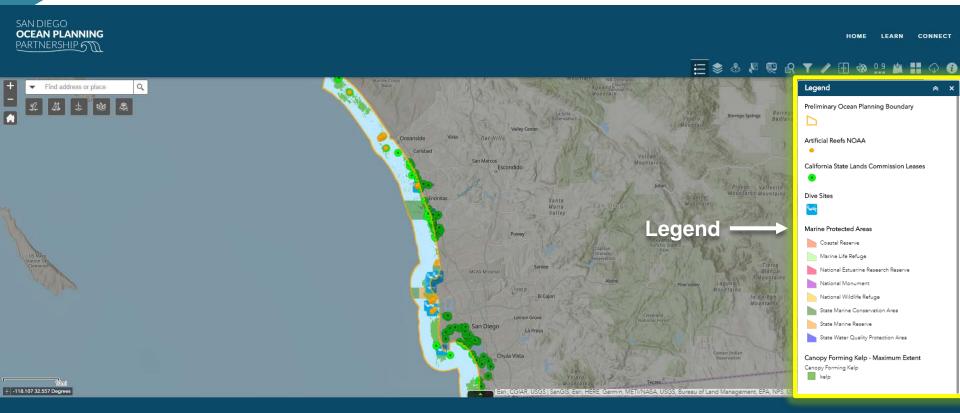
Environmental Stewardship

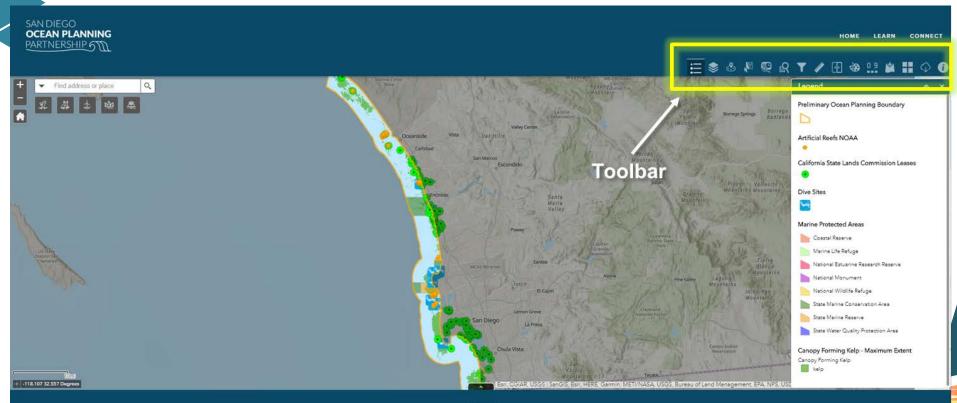


Examples of datasets

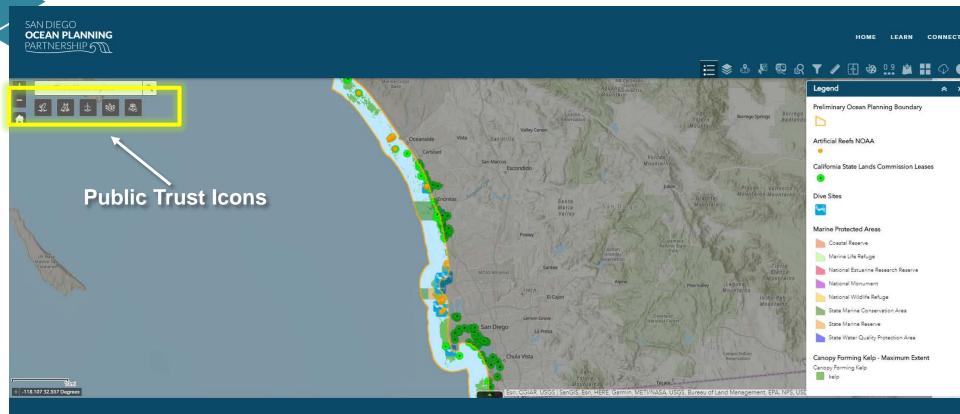
- Canopy forming kelp
- National wetland inventory

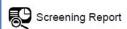






CONTACT





Area of Interest (AOI) Information

Area: 3,688.32 acres

Oct 4 2018 11:3:56 Pacific Daylight Time





Coastal Access Locations

	1:65,654		
1.9 mi	 0.95	0.47	D
3 km	1.5	0.75	0

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Summary

Name	Count	Area(acres)	Length(mi)
Marine Protected Areas	3	749.42	N/A
Coastal Access Locations	3	N/A	N/A
California State Lands Commission Leases	2	N/A	N/A
Artificial Reefs NOAA	0	N/A	N/A

Marine Protected Areas

#	Site ID	Site Name	Level of Government	State	National System Status
1	NWR115	Tijuana Slough National Wildlife Refuge	Federal	National Wildlife Refuge System	Eligible
2	NER22	Tijuana River National Estuarine Research Reserve	Partnership	National Estuarine Research Reserve System	Eligible
3	CA300	Tijuana River Mouth State Marine Conservation Area	State	California	Member

#	Level of Protection	Management Plan	Management Agency	Fishing Restrictions	Primary Conservation Focus
1	Uniform Multiple Use	Site-Specific Management Plan	U.S. Fish and Wildlife Service	Restrictions Unknown	Natural Heritage
2	Uniform Multiple Use	Site-Specific Management Plan	California Department of Parks and Recreation & National Oceanic and Atmospheric Administration	Commercial and Recreational Fishing Restricted	Natural Heritage
3	Uniform Multiple Use	MPA Programmatic Management Plan	California Department of Fish and Wildlife	Commercial and Recreational Fishing Restricted	Natural Heritage



Information on the Draft Preliminary Assessment Report:

www.sdoceanplanning.org/draftpreliminary-assessment-report

Available for public feedback until Friday, October 19, 2018

www.slc.ca.gov

THANK YOU & QUESTIONS

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