



# Environmental Stewardship

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Affairs



***Port of Stockton***  
CALIFORNIA



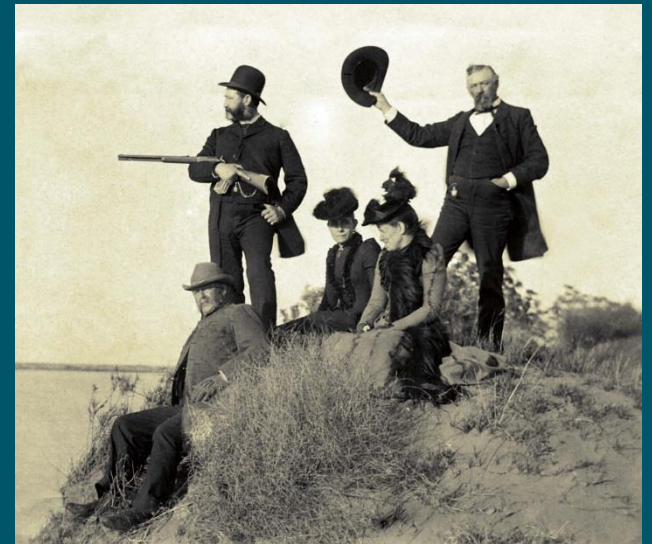
Environmental Enhancement

# Antioch Dunes Restoration



# Dunes History

- Glacial sand deposits along San Joaquin River near Antioch
- Dunes grew up to 120 feet tall over 2 miles
- Sand stripped to make bricks to rebuild San Francisco after 1906 earthquake and fires
- Sand mining and other development nearly wiped out dunes and associated habitat





# Antioch Dunes National Wildlife Refuge

- USFWS create 55-acre refuge in 1980
- First and only national wildlife refuge specifically for preservation of plants and insects
- Last remaining populations of three endangered species



Antioch Dunes evening primrose



Contra Costa wallflower



Lange's metalmark butterfly

# The Restoration Project

- Port responsible for securing dredged material placement sites for USACE maintenance dredging program
- Port led collaboration efforts to provide sandy material from USACE maintenance dredging to the dunes
- First Port/USFWS partnership to restore endangered species habitat through beneficial reuse



# Objectives

- Restoration of dune habitat for protection of endangered species
- Safe, efficient, cost-effective placement of dredged material



# Overcoming Obstacles

- Previously difficult to get agency approval for beneficial reuse
- Over a decade, the Port conducted research at its placement sites throughout the Delta
  - Placement had no adverse impacts to soil, groundwater, surface water
  - Water quality improved in underlying groundwater
- Several years of regulatory agency negotiation





# Multi-agency Collaboration and Benefits

Strong partnership between Port, USACE, USFWS, NMFS, and Central Valley RWQCB



- Reduced dredging-related costs
- New environmentally beneficial reuse for dredged material



- Free, ongoing local sand source
- Faster restoration, fewer environmental impacts



**US Army Corps  
of Engineers®**

- Achieved authorized maintenance dredge depths



**AAPA Awards**  
**Port of Stockton**



# Implementation

- Containment berms/levees constructed on site to dewater dredged material
- Since 2014, 40,000+ cy of clean sand reused to create dune habitat



# Results

- Increase in endangered butterfly population
- Regional air quality benefit
- A first in this region
- Increased public awareness of Port environmental stewardship





# Stakeholder Awareness, Education & Involvement

## Barn Owl Nest Box Program





# Barn Owls

- Nest in hollow trees, barns, and abandoned structures
- Active at night
- Hunt ground mammals, especially rodents
- Pairs mate for life





# Natural Defense Against Rodents

- Gophers and ground squirrels burrow into Port levees
- Rodents trouble Port tenants transporting agricultural products
- More barn owls = fewer rodents and a safer Port



# Nest Box Program

- 20 active Port-manufactured nest boxes
- Approximately 6 owlets per box = 120 owls per year
- Cameras stream live to Port website, so the public can follow adult owls nesting and growth of owl chicks



# Objectives

## Environmental Benefit

- Enhance barn owl population
- Protect levees
- Provide natural rodent control and reduced need for chemical controls

## Stakeholder Engagement

- Increase awareness of Port projects, including environmental stewardship programs
- Encourage ongoing public involvement with the Port



# Education and Involvement Efforts

- Interior and exterior infrared video streams live to Port website
- Information booth and stuffed owls at local events
- Programs with elementary school students





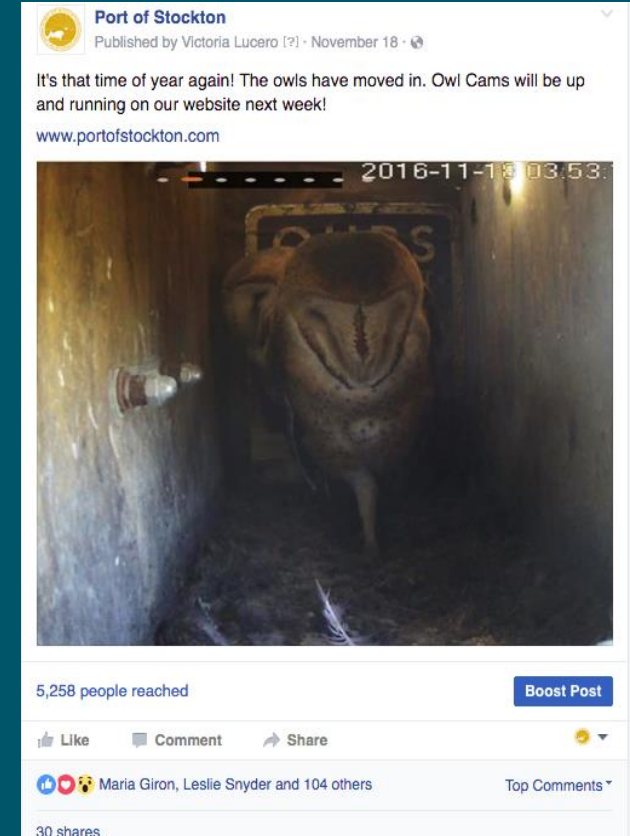
# Results – Rodent Control

- Boxes have housed more than 300 new owls
- Rodent population controlled without toxic bait or other controls
- Barn owls consume estimated average of 40,000 rodents per year at the Port



# Results – Public Engagement

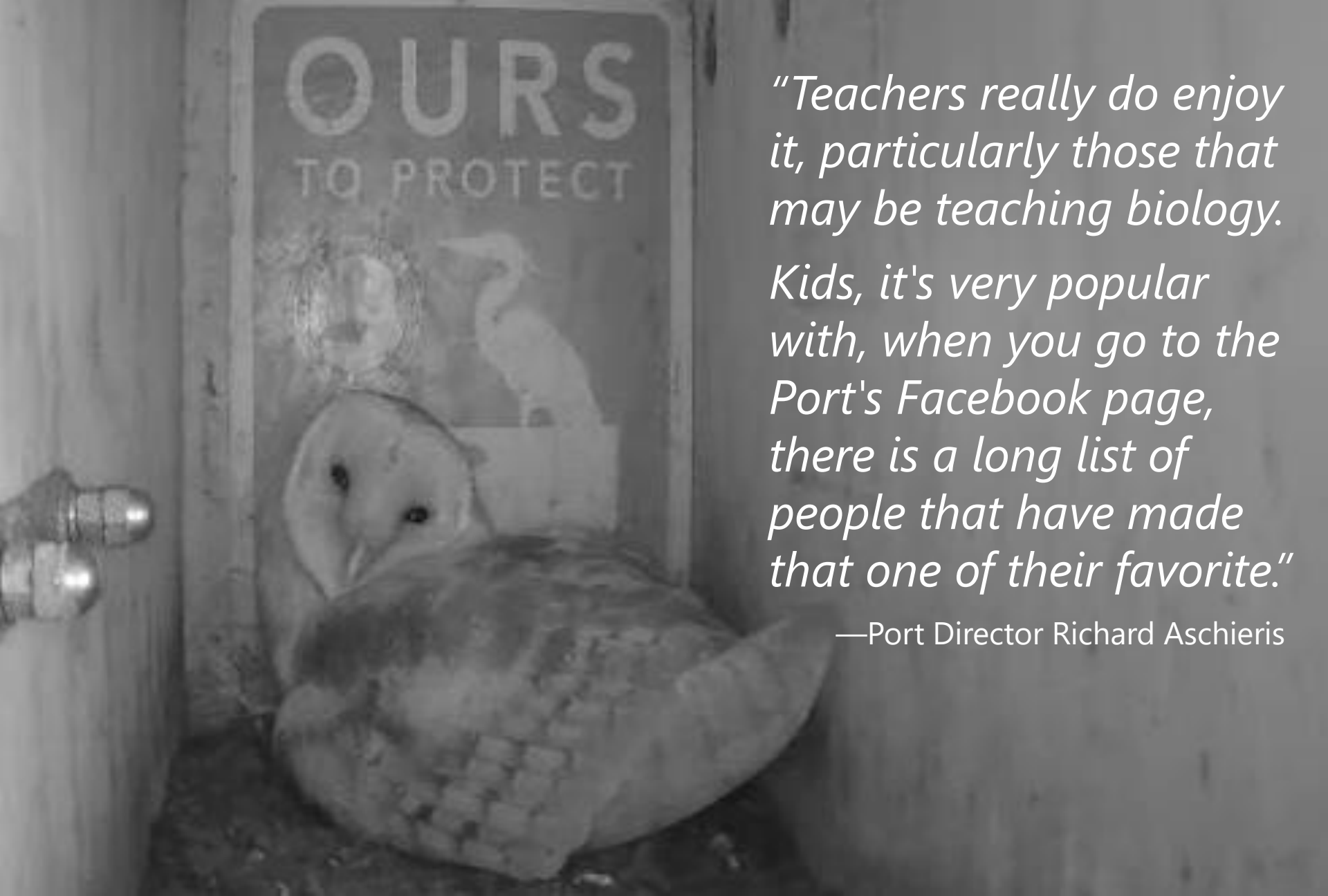
- Owl cam averages more than 200,000 visits per year
- YouTube video compilation has more than 4,000 views
- Increased public engagement with Port programs



Screenshot of a Port Facebook Post

*In one month alone, more than 45,000 viewers shared the real-time experience of several owlets hatching, crowing, and flying the coop*





*"Teachers really do enjoy it, particularly those that may be teaching biology. Kids, it's very popular with, when you go to the Port's Facebook page, there is a long list of people that have made that one of their favorite."*

—Port Director Richard Aschieris





# Communications Awards





# 2017

## COMMUNICATIONS AWARDS PROGRAM

# Port of Stockton

www.portofstockton.com


Websites



**Port of Stockton**  
CALIFORNIA

CONTACT US  
KEYWORD

[ABOUT](#) [BUSINESS](#) [ENVIRONMENT](#) [COMMUNITY](#) [CAREERS](#)



**PORT OF ENVIRONMENTAL STEWARDSHIP**  
Caring for the Delta >>

### WELCOME TO THE PORT OF STOCKTON

Located in the fertile San Joaquin Valley, the Port of Stockton is in an ideal position for domestic and international distribution. The Port is situated in the hub of four major freeways, two transcontinental railroads, an international waterway and a regional airport, and it boasts first class warehouse storage and handling facilities for both dry and liquid bulk materials, facilities and equipment to handle break-bulk and containerized cargoes by land or sea.

STOCKTON, CA

66°

clear sky  
humidity: 56%  
wind: 3mph ESE  
H 68 • L 48

67°  
WED


65°  
THU

63°  
FRI

65°  
SAT

68°  
SUN

Weather from OpenWeatherMap





# 2017

## COMMUNICATIONS AWARDS PROGRAM

# Port of Stockton

Building for Tomorrow  
Annual Report 2015

Annual Reports





# 2017


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## Vessel Log

Community/Educational Outreach




**Port of Stockton**  
CALIFORNIA  
**VESSEL LOG**



ARRIVALS / DEPARTURES	VESSEL	OPERATION	ORIGIN / DESTINATION
<b>IN PORT</b>			
1/18/17 - 1/25/17	Dream Ocean	Bagged Rice - Export	Japan
1/21/17 - 1/24/17	Atlantic Eagle	Slag - Import	Japan
1/21/17 - 1/23/17	Sea Queen II	Dry Bulk - Export	Guatemala
<b>DUE IN</b>			
1/25/17 - 1/27/17	Saga Frigg	Steel Products - Import	Korea
1/25/17 - 1/27/17	Cherry Galaxy	Molasses - Import	Taiwan
1/27/17 - 1/31/17	New History	Steel Products - Import	Korea
1/29/17 - 2/2/17	Santa Celia	Dry Bulk - Export	Japan
1/30/17 - 2/4/17	Abyssinian	Corn/Soybeans - Import	Turkey
2/2/17 - 2/4/17	Iris Sky	Coils - Import	Japan
2/4/17 - 2/7/17	Bright Kowa	Steel Products - Import	China

Board of Commissioners - Chair R. Jay Allen, Vice-Chair Elizabeth Blanchard, Commissioners Sylvester Aguilar, Gary Christopherson, Michael Patrick Duffy, Stephen Griffen, Victor Mow and Port Director Richard Aschlier

  
[www.portofstockton.com](http://www.portofstockton.com)

The  
**Port of  
Stockton is  
the 4th  
busiest port  
in California!**





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## Port of Stockton

Antioch Dunes  
Restoration Project  
Commemorative Coin

Miscellaneous





2017

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## Port of Stockton

Union Pacific Rail Welding  
Facility Ribbon Cutting

Special Events







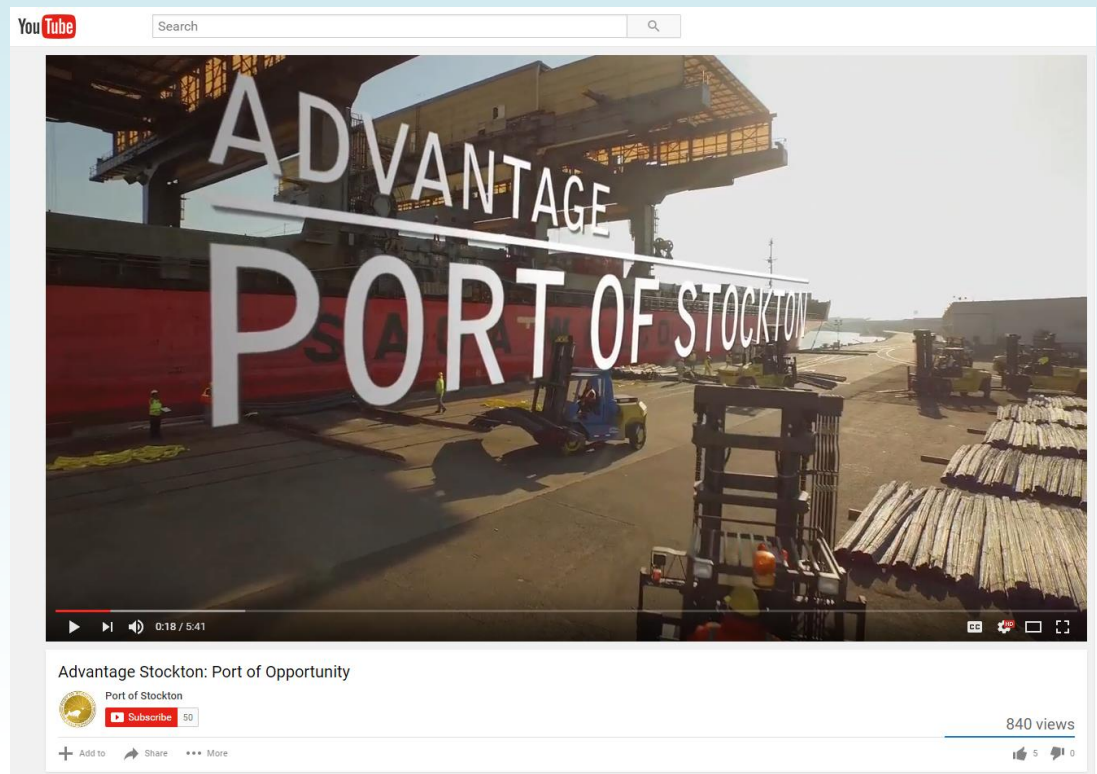
2017

# COMMUNICATIONS AWARDS PROGRAM

## Port of Stockton

Advantage Stockton –  
Port of Opportunity

Videos






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### A Peek at the Port

Advertisement



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CALIFORNIA


**NOT EVERYTHING WE DO  
IS ON THE WATER.  
SOMETIMES IT'S  
UNDERWATER.**

**A PEEK AT THE PORT**

The amount of dissolved oxygen in the water is an indicator of the health of an aquatic ecosystem. Not only does it help fish breathe, it helps decompose organic pollutants. We operate two aeration facilities that add dissolved oxygen to our waterways when levels are low. So when the endangered Chinook salmon pass by the Port to spawn upstream, we give them an extra bit of oxygen so they can breathe easy.

888.635.8143  
PORTOFSTOCKTON.COM/PEEK3

Chair: Jay Allen, Vice Chair: Elizabeth Blackford  
Commissioners: Salvador Aguilar, Gary Christensen, Michael Patrick Duffy,  
Stephen Giffen, Victor Hsu, Port Director Richard Rodriguez



 **Port of Stockton**  
CALIFORNIA

**YES, IT INCREASES  
PRODUCTIVITY.  
BUT MOSTLY,  
IT'S JUST  
REALLY COOL.**

**A PEEK AT THE PORT**

Head to the Port, and you might think we're launching ships into space. But what's really happening is even cooler. DTE Stockton, one of our partners and tenants, operates one of the cleanest energy producing facilities in the US. Those trucks are dumping scrap waste into our conveyor belts to be turned into clean energy. That waste "inciner" you see coming from the port? It's actually clean steam from the process.

888.505.0229  
PORTOFSTOCKTON.COM/PEEK1

Chair: Victor Hsu, Vice Chair: Elizabeth Blackford  
Commissioners: Salvador Aguilar, Gary Christensen, Michael Patrick Duffy,  
Stephen Giffen, Victor Hsu, Port Director Richard Rodriguez



 **Port of Stockton**  
CALIFORNIA

**WHEN YOU'RE  
GOING TO SLEEP  
WE'RE JUST  
GETTING OUR  
SECOND WIND.**

**A PEEK AT THE PORT**

New York may be the city that never sleeps, but Stockton has the port that never sleeps. We work day and night to bring more business to the Stockton area. Last year alone, we welcomed a record 245 ships carrying more than 5.9 million metric tons of cargo. That's a billion pounds of red-eye. Stockton. While you're counting sheep, we're counting on a bright future for the city we love.

888.505.0229  
PORTOFSTOCKTON.COM/PEEK1

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# 2017

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## Delta Environmental Enhancement Program (D.E.E.P)

### Advertisements



**A COMMUNITY FARM  
WITH SOME SWEET RESULTS.**

Our commitment to community doesn't end with providing jobs. We help our neighbors live more sustainable lives through our partnership with the Boggs Tract Community Farm.

Not only is the farm on Port land, we donate organic fertilizer made from the water hyacinth we clear from the Delta. Fresh veggies, eggs and honey—plus empowered families—are the happy result.

It's just one way we balance our love of commerce with our commitment to the place we call home.

**PORTOFSTOCKTON.COM/DEEP4  
888.746.3561**

The Port's Delta Environmental Enhancement Program (D.E.E.P.) aims to enhance air quality, water quality and wildlife habitats in the Delta and surrounding communities.

Chief Elizabeth Brannan, Vice Chief Michael Patrick Duffy, Commissioners Katherine Aguilar, R. Jay Allen, Gary Christensen, Stephen Griffin, Victor Hays, Port Director Bernard Hoffman



**WE'RE TURNING SAND  
INTO BUTTERFLIES.**

20 miles west of Stockton is the Antebuch Dunes. At first glance, you might not give them much thought. But these dunes happen to be the one and only home of the endangered Laguna Meadowlark. Butterflies, Dunes tend to erode, which is a matter of life and death for these delicate beauties.

Enter the Port of Stockton. Every year we dredge part of the San Joaquin River to clear the path for the large ships heading to and from the Port. Then we pipe sediment the form of dredged mud-to the dunes.

It's just one way we balance our love of commerce with our commitment to protecting the place we call home.

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888.746.3561**

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**OUR RODENT CONTROL OFFICERS  
WORK NIGHTS FOR NO PAY,  
BUT THEY DO GET FREE HOUSING.**

Once in a while, we have to tear down and demolish dilapidated buildings at the Port. But what we call dilapidated, Barn owls call home.

So 10 years ago, we launched the Barn Owl Nest Box Program. Soon, our 20 barn owl nest boxes were filled by grateful tenants. They REALLY seem to love them, as over 700 baby owls have already hatched in them.

These owls help us just as much as we've helped them. Our barn owls consume over 60,000 rodents annually—without the need for toxic baits or other environmentally unfriendly methods.

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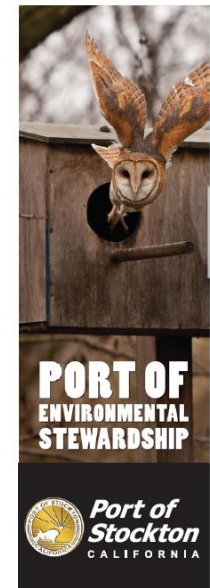
# 2017

## COMMUNICATIONS AWARDS PROGRAM

# Port of Stockton

Light Pole Banners

Awareness Messaging



# Thank You

