

FCEC Partners Meeting Palos Verdes Shelf Superfund Site

2 November 2022

1 PM - 3 PM

Hybrid Meeting



Agenda

- Welcome and Introductions Current and New Partners (15 min)
- EPA Update (5 min)
- Pier Angler Outreach Update (25 min)
- Enforcement Outreach Update (5 min)
- Break (10 min)
- Community Outreach Update (30 min)
- Open Forum (30 min)



Introductions

Current and New Partners

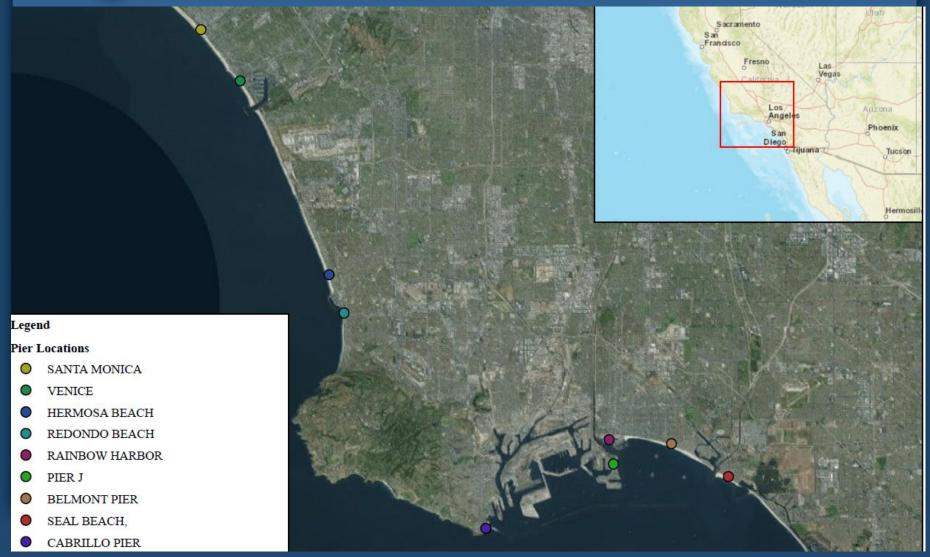


EPA Update

- EPA Update
 EPA Region 9 Remedial Project Manager
 - Judy Huang
 - Renee Jordan Ward



Pier Angler Outreach Locations





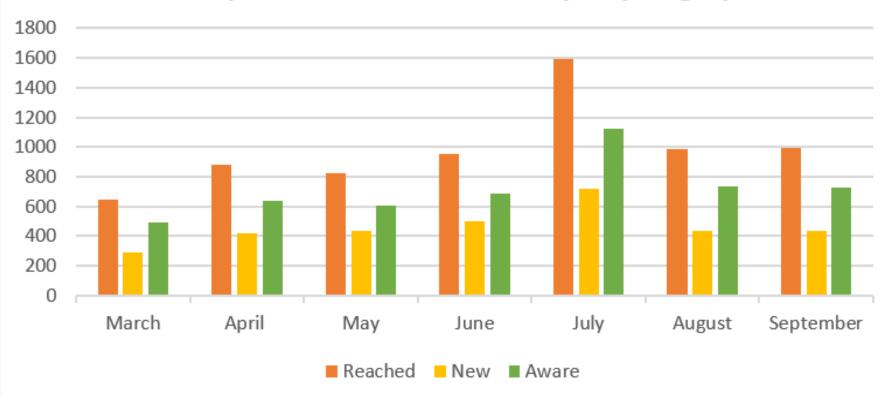
Pier Angler Outreach Summary

- Pier Angler Outreach Heal the Bay and Cabrillo
 - March September 2022
 - Angler outreach contacted ~6,904 people
 - $\sim 3,254$ were new ($\sim 47\%$)
 - ~5,027 were aware of contamination (~73%)
 - ~1,003 tip cards were handed out in English (871) and Spanish (132)
 - Awareness sources
 - DNC Pier Signage (42%)
 - Tip-cards (30%)
 - Angler Outreach (23%)
 - Internet, Media, Friend/Family, and Other (5%)
 - Community Events (0%)



Pier Angler Outreach

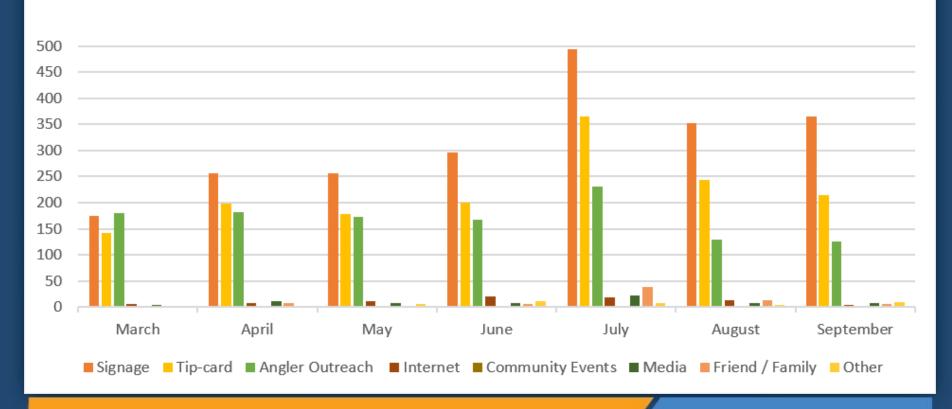
Total Pier Anglers Reached March - September 2022 (Cabrillo and Heal the Bay Day/Night)





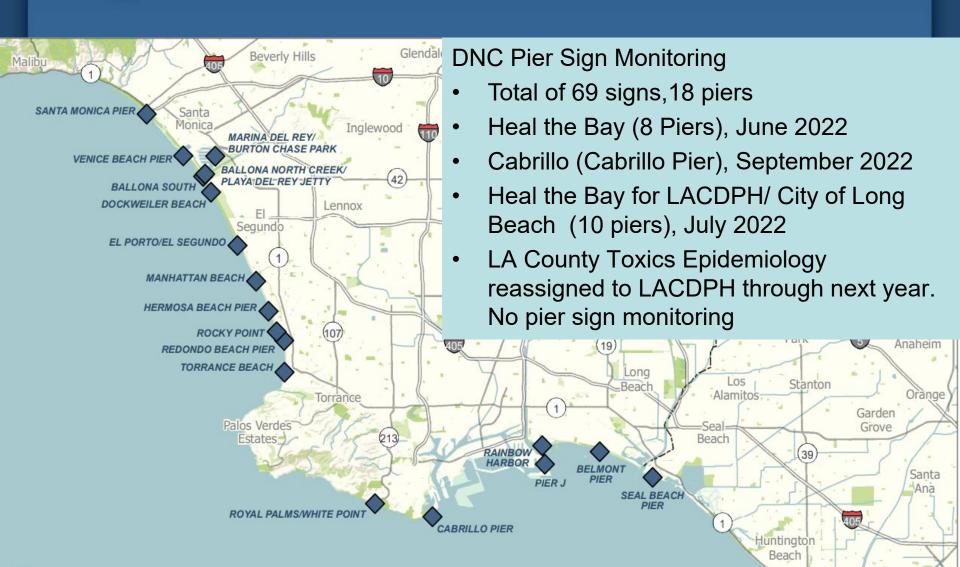
Pier Angler Outreach

Total Awareness Source March - September 2022 (Heal the Bay and Cabrillo)





DNC Pier Sign Monitoring





2022 DNC Pier Sign Condition

	Pier	Total	Total	Good/OK	Damaged	Missing
	rier	(2020)	(2022)	(2022)	(2022)	(2022)
1	Santa Monica	6	5	5	0	1
2	Venice	6	5	4	1	1
3	Marina Del Rey/ Burton Chase Park	0	0	0	0	0
4	Ballona North Creek/ Play del Rey Jetty	4	2	1	1	2
5	Ballona South	4	0	0	0	4
6	Dockweiler Beach	1	0	0	0	1
7	El Porto/ El Segundo	1	1	1	0	0
8	Manhattan Beach	4	0	0	0	4
9	Rocky Point	1	0	0	0	1
10	Cabrilllo	8	8	1	7	0
11	Hermosa Beach	5	4	2	2	1
12	Redondo Beach	6	6	3	3	0
13	Pier J	4	3	3	0	1
14	Rainbow Harbor	5	4	3	1	1
15	Belmont	5	5	5	0	0
16	Seal Beach	5	5	5	0	0
17	Torrance Beach	2	0	0	0	2
18	Royal Palms/ White Point	2	2	1	1	0
	Total	69	50	34	16	19

-July 2020 69 total signs, 18 Piers

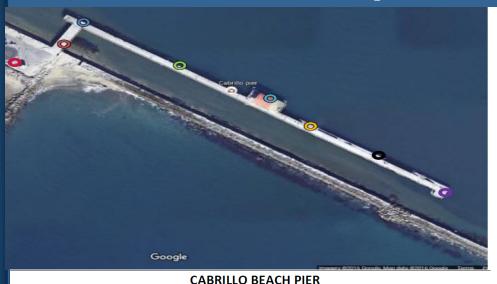
July 202250 total signs, 12 Piers19 missing, 11 Piers16 damaged, 7 Piers



Pier Angler Outreach Cabrillo

- Pier Angler Outreach –Cabrillo
 - March September 2022
 - Angler outreach contacted ~1,102 people
 - ~284 were new (~22.5%)
 - ~905 were aware of contamination (~82.1%)
 - ~203 tip cards were handed out in English (171) and Spanish (32)
 - Awareness sources
 - Angler Outreach (71%)
 - DNC Pier Signage (12%)
 - Internet (7%)
 - Friend/Family (6%)
 - Tip-cards (4%)
 - Media, Community Events, and Other (0%)

Cabrillo Pier Sign (8) Monitoring September 2022



Condition

Weather beaten, worn and starting to peel on the top and bottom. Still in fairly

Very bent and torn, with lots of peeling, but still readable. Some stickers.

Some tagging residue, stickers, and paint torn off along the top. Mostly

Very soiled and scratched with some tagging. Some bending and lots of

Mostly readable, but still scratched up. Some stickers and bending.

Stickered and tagged, but mostly readable. Some bubbling of paint along left







20









40

50

KEEP OF

8 0





70

6 Appears to have been bent and straightened. Some tagging, but mostly

Signs

10

30

50

decent shape.

readable.

Very weathered, cracked and rusted. Still very readable

readable. Paint along the edges bubbling.

weathering. Still mostly readable.



Pier Angler Outreach – Heal the Bay

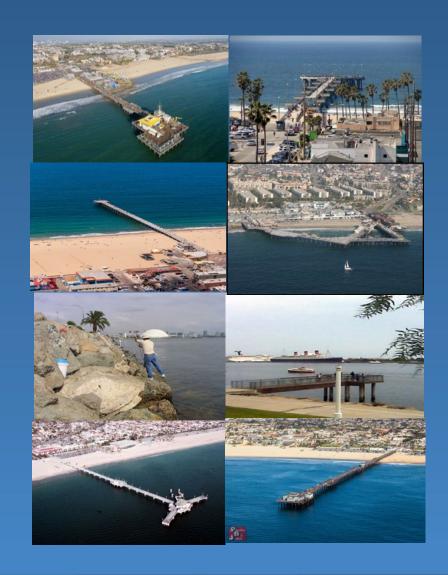
- The program's primary aim continues to be the education of pier and shoreline anglers on the risks of consuming DDT and PCBs-contaminated white croaker.
- Secondary goals are to educate anglers on other locally caught fish with regards to catch limits and consumption guidelines concerning DDT, PCBs, and mercury.





Program Overview

- Outreach on 8 piers:
 Santa Monica, Venice,
 Hermosa, Redondo,
 Pier J, Rainbow Harbor,
 Belmont & Seal Beach
- Educational Outreach
- Each pier visited by Angler Outreach Team 3x/week





Angler Outreach Team

Current Team:

- Crystal Barajas Spanish
- Willian Quinteros Spanish
- ▶ Benmin Sun Chinese





Angler Outreach Tally Form

Educational Outreach Tally Sheet								JSE: Form #		
	e: al # anglers on pi					vorker:		Day Out		dified August 1, 2021 Night Outreach
		•			LL OUT ONE LII	NE PER PER	SON*****	***		
	Is the person an adult or a child	Did they agree to speak to you?	Was person aware of DDT/PCB* fish contamination advisories before this?	Is the person receiving outreach for the 1st time ever, or is s/he a repeat?	Awareness source: Signage, Tip- card, AOP* Team, Internet, Events, Media, Friend/Family Other	Language spoken during outreach	Bucket Examine d2 (Y/N)	Species and Number of Fish Caught (make a note if the number is an estimate)	Zip Code	NOTES
1	□Adult □Child	□ No □ Yes	□ No □ Yes	□ No □ Yes						
2	□Adult □Child	□ No □ Yes	□ No □ Yes	□ No □ Yes						
3	□Adult □Child	□ No □ Yes	□ No □ Yes	□ No □ Yes						
4	□Adult □Child	□ No □ Yes	□ No □ Yes	□ No □ Yes						
5	□Adult □Child	□ No □ Yes	□ No □ Yes	□ No □ Yes						
6	□Adult □Child	□ No □ Yes	□ No □ Yes	□ No □ Yes						
7	□Adult □Child	□ No □ Yes	□ No □ Yes	□ No □ Yes						
8	□Adult □Child	□ No □ Yes	□ No □ Yes	□ No □ Yes						
9	□Adult □Child	□ No □ Yes	□ No □ Yes	□ No □ Yes						
10	□Adult □Child	□ No □ Yes	□ No □ Yes	□ No □ Yes						
11	□Adult □Child	□ No □ Yes	□ No □ Yes	□ No □ Yes						
12	□Adult □Child	□ No □ Yes	□ No □ Yes	□ No □ Yes						
13	□Adult □Child	□ No □ Yes		□ No □ Yes						
Det	a Sheet Checked in F		Person	Date						
	a Sheet Entered Elec									
	ctronic Data Checked	,								

- Tally form includes anglers receiving outreach (new/repeat, awareness source, language spoken)
- Surveys conducted in the daytime 3 days/week
- 5,802 total anglers interviewed across 8 piers from March 2022-September 2022

^{*}DDT/PCB = dichlorodiphenyltrichloroethane/polychlorinated biphenyls; AOP = Angler Outreach Program;

Angler Outreach Day/ Evening Participant Breakdown

Reporting Period: March 2022 – September 2022 8 Piers between Santa Monica and Seal Beach

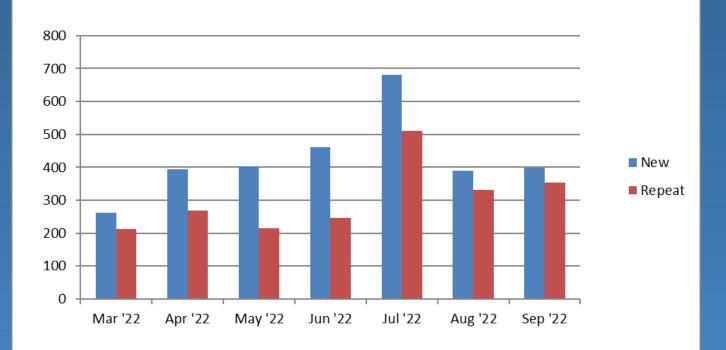
▶ New: 3,006 (52%)

Aware: 4,122 (71%)

▶ Total: 5,802

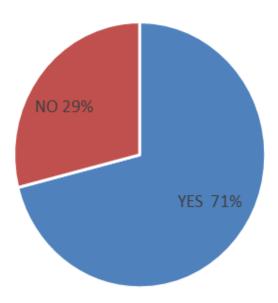
Angler Outreach Total Day/ Night: March – September 2022

Total Anglers surveyed from Santa Monica through Seal Beach



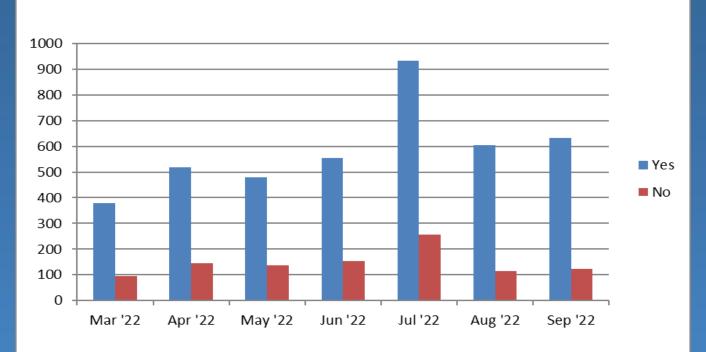
Angler Outreach Aware Day/ Night: March – September 2022

Total Anglers Aware of Fish Contamination
Advisories

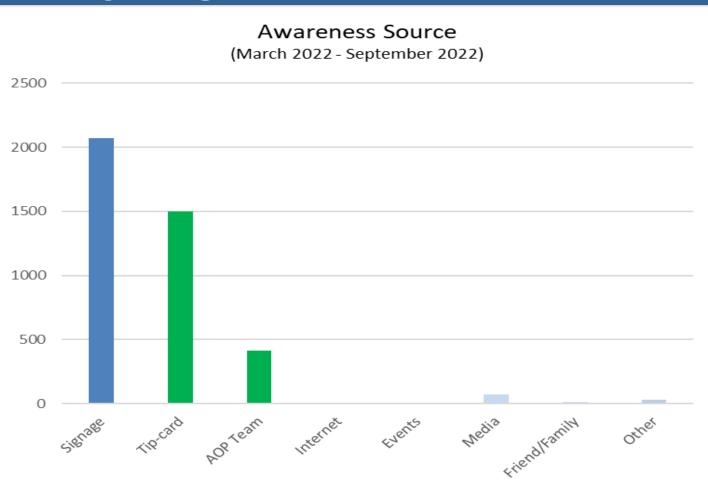


Angler Outreach Aware Dayl Night: March – September 2022





Angler Outreach Awareness Source Day/ Night: March – September 2022





Angler Outreach Night Participant Breakdown

Reporting Period: March 2022 – September 2022 Venice and Redondo Beach Pier

▶ New: 582 (55.7%)

► Aware: 785 (75%)

▶ Total: 1,044

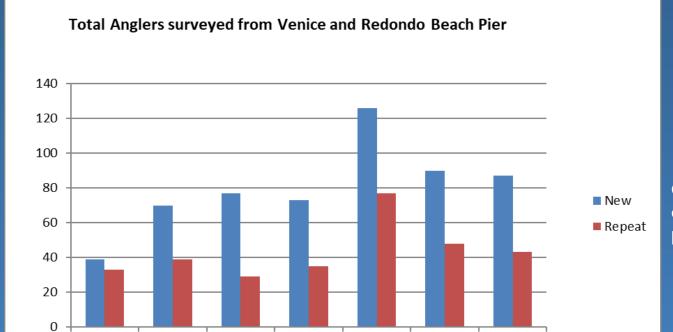


Angler Outreach Total Night March – September 2022

Aug '22

Sep '22

Jul '22



Jun '22

May '22

Mar '22

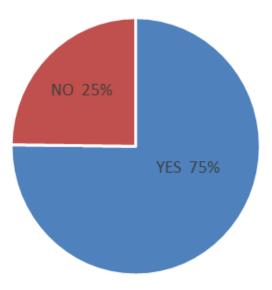
Apr '22

Outreach activity 4 days per month



Angler Outreach Aware Night March – September 2022

Total Anglers Aware of Fish Contamination Advisories during evening hours (4:00-8:00PM)





Pier Sign Tracking June-July 2022

▶ Total signs 42

Santa Monica Pier	þ
Venice Pier	5
Hermosa Pier	4
Redondo Pier	6
Pier J	3
Rainbow Harbor	4

Belmont Pier5
Seal Beach Pier5
Ballona Creek2
El Porto El Segundo1
Royal Palm2



Santa Monica Pier





Venice Pier



Signs	2	Condition			A.	
1	Missing					
2	Good					
3	Good					
4	Good	ľ				
5	Bad, a lot of gr	affitti, can't read	the sign at all, l	oend, sticker o	n top right corner	
6	Good, some lig	ht geaffitti on up	oer right corner			







Project your health
Proper late and the control of the control of



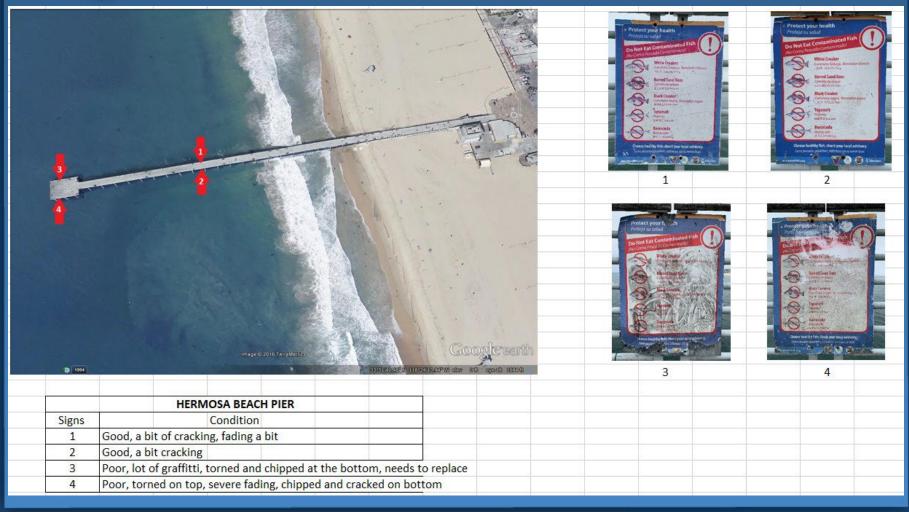


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Hermosa Beach Pier





Redondo Beach Pier





Pier J













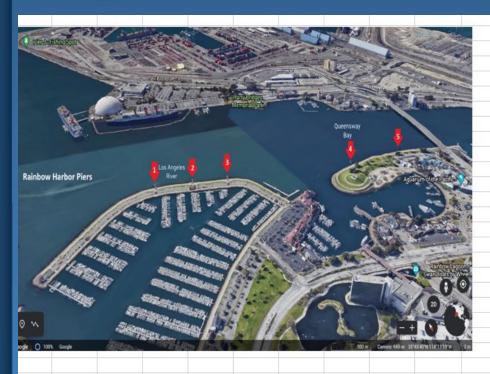
		PIER J	
Signs	8	Condition	
1	Good		
2	Good		
3	Good		

Pier J (north of sign #3)

Pier J (south of sign #1)



Rainbow Harbor Pier



	RAINBOW HARBOR	
Signs	Condition	
1	Dirty, some graffitti, decal on top, peeling on bottom right corner	
2	Good, decal on exclamation point	
3	Missing	
4	Fair slighty dirty	
5	Bad, ilegible, needs to be replaced	







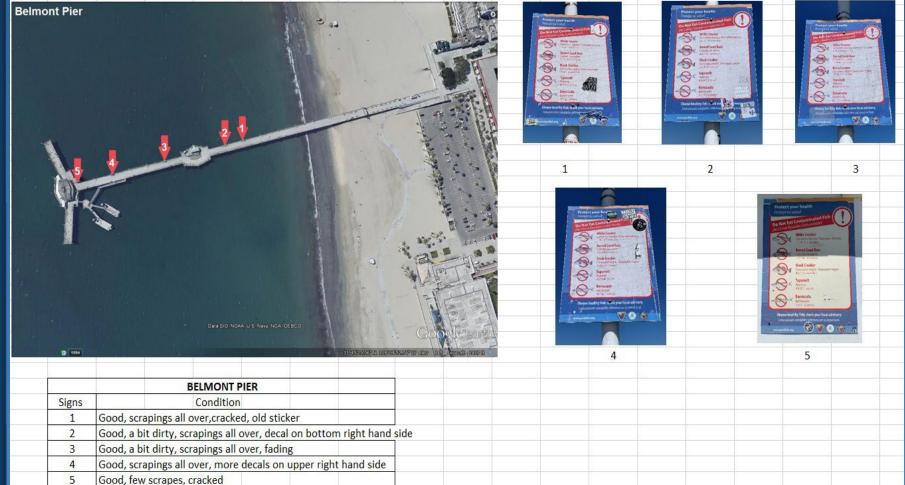
Protect your health
Petrop ou street

Constitution of the Constitu



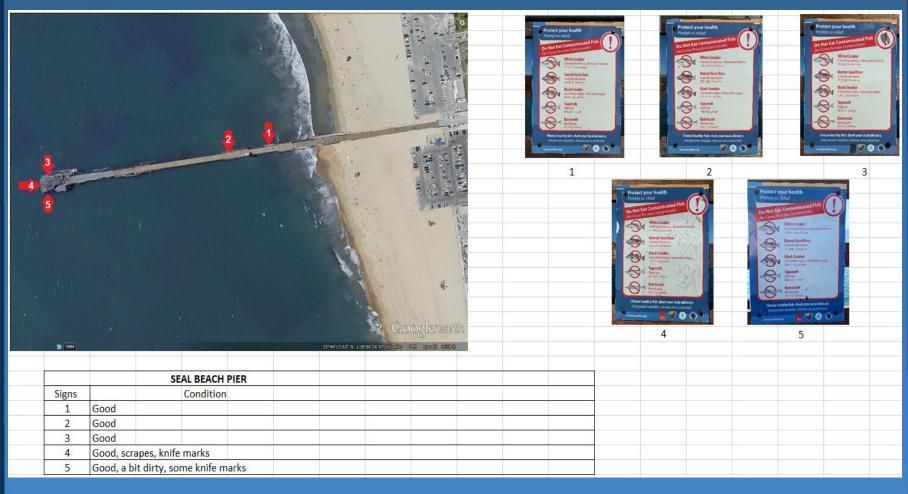


Belmont Pier





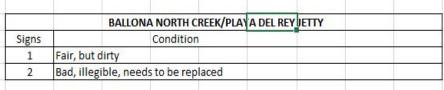
Seal Beach Pier





Ballona Creek-Playa del Rey



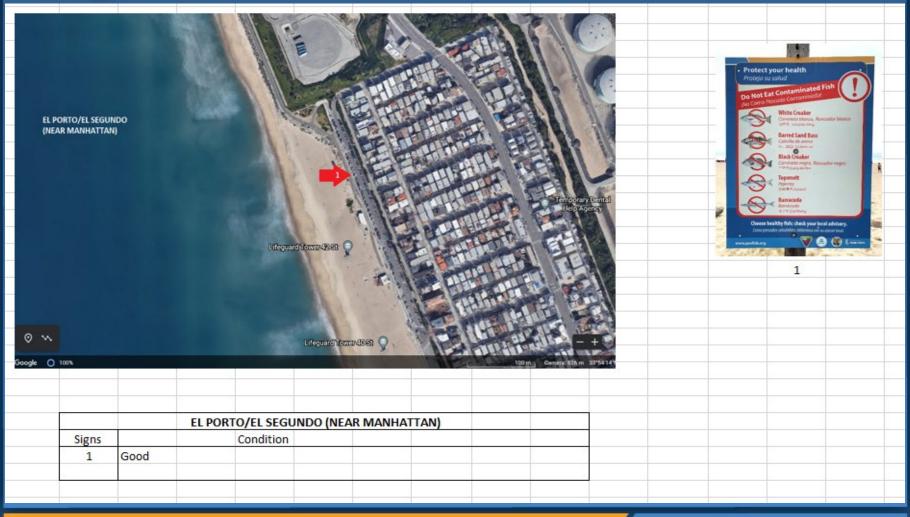






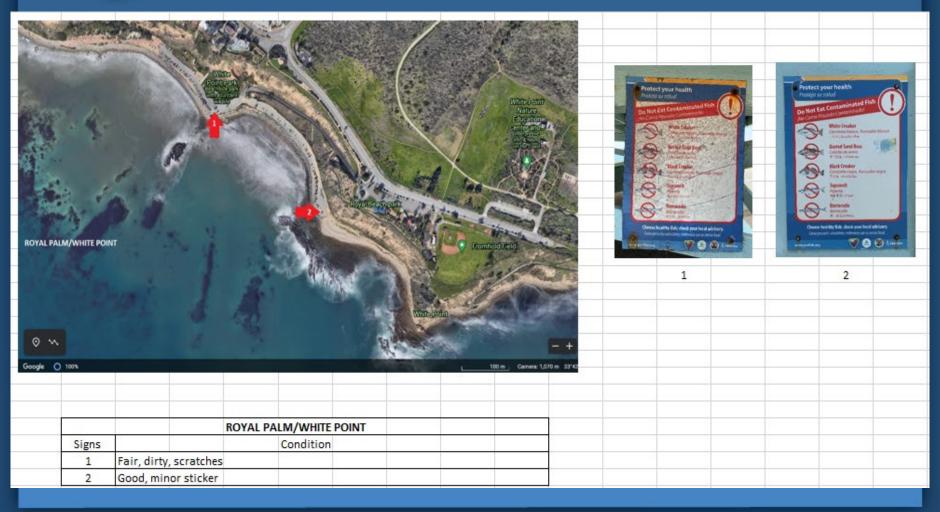


El Porto – El Segundo



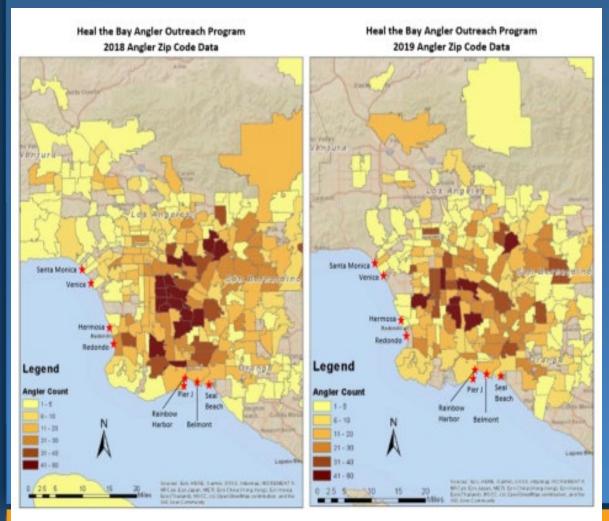


Royal Palm-White Point





Zip Code Analysis Where Anglers Come From



- Recommendations on future outreach and educational areas to target
- Examine whether the angler community has shifted over time



Questions?

FRANKIE ORRALA: FORRALA@HEALTHEBAY.ORG





Enforcement Outreach

- California Department of Fish and Wildlife January-September 2022
 - 91 Recreational Fishing, 1,830 reached, 1 Citation White Croaker over limit,
 35 White Croakers seized, 85 observed possession
 - 4 Commercial Businesses, No violations
 - Updated Tally Sheet Fall 2021 tip card distribution and awareness source
 - Tip cards English (260), Spanish (61), Chinese (9), and Vietnamese (16)
 - Awareness source pier signs and tip cards
 - White croakers mainly observed at San Pedro, Seal Beach, and Belmont piers
 - Recommend expansion area north to Santa Monica and south to Huntington piers
 - Increase geographic area and increase outreach and awareness
 - Catches observed in Bolsa Chica, Huntington Harbor, and Huntington Beach
 - City of Long Beach Grant expired 2019
 - No fish market/restaurant inspections or DNC pier sign monitoring/maintenance
 - Los Angeles Department of Public Health Grant expired February 2022
 - No fish market/restaurant inspections performed



BREAK FOR 10 MINUTES



Community Outreach Summary

Total community events DBS&A, BPOS, CHCC

- 44,501 Total event attendees
- 3,644 Total tip cards English (894), Spanish (521), Chinese (1,762), Vietnamese (467)
- Limited awareness of contamination
- Limited Outreach Print Materials
 - Requested materials in Korean
 - Requested Fish ID poster into Spanish
- Booth in Box Materials
 - Fishing game broken rods, ripped fish
 - Display boards, table runner, carrying case





- Completed Events
 - Aquarium of the Pacific Noche de Estrellas, March 4, 2022
 - ~4,000 attendees, tip cards in English (20) and Spanish (10), No awareness
 - Aquarium of the Pacific 17th Annual International Children's Festival, March 19-20, 2022
 - ~14,000 attendees, tip cards in English (60), Spanish (15), Chinese, (5),
 Vietnamese (10), No awareness contamination
 - Deane Dana Friendship Park A Day in Nature Festival, August 13, 2022
 - ~500 attendees, tip cards in English (10), Spanish (8)
 - Aquarium of the Pacific Baja Splash Festival, September 24-25, 2022
 - ~13,600 attendees, tip cards in English (74), Spanish (8), Chinese (2),
 12 people (0.09%) aware contamination



- Observations/Recommendations
 - LAUSD
 - Elementary, middle, & home-school teachers take curriculum guide and comic book to use in classrooms
 - Aquarium Pacific High school volunteers interested in FCEC
 - Los Angeles County Zoo interested collaboration w/FCEC on Storyboard/
 Film for Aquarium of Pacific
 - Aquarium of Pacific interested collaboration w/FCEC on permanent exhibit with regular distribution of outreach materials
 - Fishing game attracts children
 - Outreach Materials
 - Popular curriculum guide , comic book, fishing game
 - Interest in digital materials using a QR code
 - Popular (in order) English, Spanish, Vietnamese, Chinese
 - Sign-in Sheet not popular, recommend add QR code
 - Chinese patrons expressed concern about contaminated fish in markets



- Anticipated Upcoming Events
 - Nov. 13th Autumn Festival (Aquarium, of the Pacific Long Beach)
 - No LA County Parks & Recreation events due to COVID-19
- Partner Outreach Materials Distribution
 - Jul. 1st Heal the Bay: Tip Cards English (3,000) and Spanish (1,500)
 - Jul. 21st BPSOS: English "What's the Catch" Comic Books (300)
 - Oct. 19th CCHC: English Tip Cards (250), English Pamphlets (250),
 English Fish ID (500)
 - Nov. 9th BPSOS: English "What's the Catch" Comic Books (300)
- Outreach Materials Condition
 - Booth in Box Fair condition
 - Fishing game broken fishing rods (2), ripped, torn, or faded fish (5)







Community Outreach – BPSOS

- Completed Events
 - City of Westminster Bunny Hop, April 9 and 16, 2022
 - ~31 attendees, tip cards English (7), Spanish
 (10) and Vietnamese (14). No awareness.
 - UCLA Vietnamese Community Health Fair, April 24, 2022
 - ~70 attendees, tip cards Spanish (2) and Vietnamese (68), No awareness.
 - Anaheim Community Health and Resources Fair, July 9, 2022
 - ~200 attendees, tip cards English (3),
 Spanish (17), and Vietnamese (180), No awareness.
 - City of Westminster 65th Annual Fall Festival,
 September 24, 2022
 - ~500 attendees, tip cards 1 Spanish and 20 Vietnamese, No awareness.





Community Outreach – BPSOS

Observations

- Children love the comic books.
 Recommend creating coloring books.
- The booth in box display board about the project information is outdated.
- The booth in the box and fishing game are in good condition
- Need "What's the Catch" comic books since they are popular with children at the community events.

Upcoming Events

Researching new events for 2023





Community Outreach – CHCC

- Completed Events
 - City of Industry Chinese New Year Fair, January 22-23, 2022
 - ~1,000 attendees, tip cards in Chinese (385) and English (50), 10 attendees (1%) aware of contamination. Awareness source pier signs.
 - San Gabriel Walkathon & Carnival, June 18, 2022
 - ~600 attendees, tip cards in Chinese (295) and English (20), No awareness contamination.
 - Arcadia Asian Fall Festival, October 8-9, 2022
 - ~10,000 attendees, tip cards in Chinese (900) and English (200), ~5 attendees (~0.05%) aware of contamination. Awareness sources pier signs and friends.





Community Outreach – CHCC

Observations

- Most event attendees were unaware of the contamination and interested in learning.
- Not many attendees fish in Southern California.
- Attendees found outreach materials informative, especially the tip-card and fish identification card.
- The Fishing Game helped draw attention by families with children.

Outreach Material Condition

- Booth in Box display board needs replacement
- Fishing Game fishing rod and fish replacement.

Anticipated Upcoming Event

Chinese New Year Fair in San Gabriel
 Valley in 1st quarter of 2023.





Open Forum Discussion Topics

- Annual program reports update
- Community event sign-in sheets, track awareness
- Booth in the Box updates
- QR codes (e.g., outreach materials, to FCEC website)
- DNC pier sign monitoring and maintenance
- Enforcement Restaurant and Market Inspections
- FCEC website and social media
- FCEC Outreach materials inventory and updates
- LAUSD, African American, and Latin community outreach
- Other topics



Thank you!

- EPA appreciates your education, outreach, and enforcement efforts
- Further suggestions or concerns, please contact:

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