

CITY OF SANTA BARBARA WATERFRONT DEPARTMENT

MEMORANDUM

Date: July 21, 2022
To: Harbor Commission
From: Mike Wiltshire, Waterfront Director
Subject: **Review Of Clean Marina Program**

RECOMMENDATION:

That Harbor Commission review and consider an annual report on the Department's Clean Marina Program.

BACKGROUND:

City Council adopted a Clean Marina Program (Program) in 2002. Its goal is to achieve and maintain, via feasible means and alternatives, best management practices and a clean harbor environment for people, aquatic life, and seabirds. Staff reports annually on the status of the Program to the Harbor Commission.

The Program includes six elements:

1. Facilities for Boaters
2. Water Quality
3. Best Management Practices
4. Pollution Prevention and Abatement Projects
5. Education
6. Compliance and Enforcement

DISCUSSION:

1. Facilities for Boaters

A. Sewage Pump-Outs

The harbor's five sewage pump-outs have accommodated boaters and helped reduce sewage spills for 22 years. Total pump-out use in FY '20 through FY '22 was 18,304 minutes, which diverted hundreds of thousands of gallons of effluent to the City's sewer system. Inspections conducted routinely by Heal the Bay, an environmental non-profit that works with the State Division of Boating and Waterways, indicate the pumps are in excellent condition and working to capacity.

Sewage Pump-Out Use in Minutes:

Table 1:	M1 East*	M1 West	Fuel Dock	Launch Ramp	Total
FY '03	5,165	1,253	1,421	73	7,912

FY '04	4,957	1,069	1,310	135	7,471
FY '05	4,758	758	2,183	3	7,764
FY '06	4,384	1,657	2,608	362	9,011
FY '07	3,796	1,269	1,666	27	6,785
FY '08	3,834	1,172	2,207	15	7,228
FY '09	3,690	976	1,464	252	6,382
FY '10	3,876	896	1,336	179	6,287
FY '11	4,128	884	1,204	217	6,433
FY '12	3,652	1,807	2,085	198	7,742
FY '13	3,802	336	2,249	437	5,938
FY '14	3,082	417	1,864	224	5,587
FY '15	3,002	1,221	852	143	5,218
FY '16	4,323	521	762	53	5,659
FY '17	3,853	898	898	89	5,738
FY '18	3,495	932	1,314	78	5,820
FY '19	3,225	920	1,143	132	5,420
FY '20	3,604	973	810	60	5,447
FY '21	4,377	1,263	1,194	86	6,920
FY '22	4,085	1,103	653	96	5,937

* Two stations, P/Q finger and R/S finger

B. Bilge-Water Pump-Out

A bilge-water pump-out at the Fuel Dock accepts bilge water mixed with either oil or diesel, but cannot accept gasoline or “hot loads” with contaminants like soap, which must be disposed of at a Household Hazardous Waste Facility (UCSB or Downtown Recycling Center). The pump-out sends oil to a waste-oil container and residual water into the City’s sewer system. The facility removed 11,796 gallons of bilge water between FY '20 through FY '22.

Bilge-Water Pump-Out Use:

Year:	2003	2004	2005	2006	2007	2008	2009	2010
Minutes:	1,086	1,602	1,416	1,353	1,546	N/A	629	948
Gallons:	5,430	8,010	7,080	6,765	7,730	N/A	3,145	4,740

Year:	2011	2012	2013	2014	2015	2016	2017	2018
Minutes:	813	895	728	927	1,474	1,580	1,263	1,243
Gallons:	4,065	4,475	3,640	4,635	7,370	7,900	6,315	6,215

Year:	2019	2020	2021	2022
Minutes:	1,223	810	746	410
Gallons:	7,360	4,860	4,476	2,460

C. Debris Nets

Over 40 debris nets located on finger docks help boaters remove light debris from the harbor. Some nets disappear or rot out each year. Maintenance staff typically identifies nets that need replacement during dock construction and repair. In between FY '20 through FY '22, they replaced 31 nets, about average over the last 10 years.

Debris Nets Replaced:

Year:	2008	2009	2010	2011	2012	2013	2014	2015
Nets:	15	7	8	6	11	10	10	10

Year:	2016	2017	2018	2019	2020	2021	2022
Nets:	12	14	15	13	12	8	11

D. Waste-Oil Disposal

The Department operates waste-oil disposal stations at the Fuel Dock, Marina 2, and Marina 4. These free facilities also accept oil filters, anti-freeze, and oil-absorbent bilge pads. The FY '20 through FY '22 total gallons of oil disposed was lower than average.

To use this facility, boaters must properly dispose of the used product. When disposing of a filter or bilge pad, put the filter or pad in the proper receptacle. If bringing fluids, boaters must pour the fluid into the drum – do not set the fluid in its container by the drum, and do not throw the entire container inside the drum. By keeping these facilities clean, it encourages others to follow suit.

Waste-Oil Disposal:

Year:	FY '11	FY '12	FY '13	FY '14	FY '15	FY '16	FY '17	FY '18
Gallons:	7,585	6,675	7,145	2,500	4,620	5,935	5,330	5,700

Year:	FY '19	FY '20	FY '21	FY '22
Gallons:	3,025	2,580	3,400	3,690

E. Marine Battery Collection

The Department provides a marine battery collection bin on the City Pier near the Fuel Dock. Interstate Batteries hauls away the batteries for free. In FY '20 through FY '22, it received 530 batteries. These numbers do not include the number of batteries turned in to West Marine, which has its own pickup service for recycling batteries. Marine Services also sells batteries and uses the City's collection bin on the Pier.

Batteries Recycled at the City Pier Bin:

FY '10	FY '11	FY '12	FY '13	FY '14	FY '15	FY '16	FY '17	FY '18
350	300	290	200	220	180	180	180	150

FY '19	FY '20	FY '21	FY '22
130	180	150	200

F. Fishing Line Recycling

The Department provides three fishing-line recycling stations – one at Stearns Wharf Bait and Tackle shop, and one each on Santa Barbara Landing’s passenger carrying fishing vessels *Stardust* and *Coral Sea*.

In FY '20 through FY '22, anglers deposited on average five pounds of line per year at Stearns Wharf, consistent with 2018 and 2019, and 12.5 pounds of line aboard the *Stardust* and *Coral Sea* combined. The lower number may be in part because braided fishing line has become more popular and does not break down as quickly; as well as COVID-19 restrictions, when the vessels were not operating charters.

Santa Barbara is one of a growing number of harbors with fishing line-recycling options.

2. Water Quality

A. Monthly “Dry Season” Harbor Water Quality Monitoring

Seven stations were tested for three bacterial indicators between the months of April and October annually (49 samples total). High bacterial levels are usually associated with storm water runoff. A map of the harbor’s bacterial sampling sites is included as Attachment 1.

B. Dissolved Oxygen (D/O) Tests

The Department tests D/O levels in the harbor to predict and record low-oxygen events that may contribute to fish or invertebrate die-offs. Staff conducts D/O tests monthly, and indicate generally good levels. Water quality testing readings are posted online at <https://santabarbaraca.gov/things-do/waterfront/waterfront-services> and if there are low D/O levels, staff sends a notice to fishermen so they can temporarily relocate their live catch. There were no fish die-offs in FY '20 through FY '22.

C. Anti-Fouling Paints (AFPs)

In response to studies indicating elevated copper levels in Southern California

harbors, the Department has experimented with various non-copper AFPs since 2009. All have proved inadequate for Harbor Patrol's extensive daily use, either wearing off too soon or not adequately protecting hulls against marine growth.

Non-copper AFPs continue evolving, and epoxy-based paints are currently the standard non-copper AFP; however, bottom paints with copper levels that fall within the industry's acceptable levels are still the preferred product. State Department of Pesticide Regulation continues to test copper levels in the waters of several marinas statewide to establish a baseline for further tests indicating the relative success of new leach-rate regulations.

D. The "Other" Clean Marina Program

The "Clean Marina Program" (same name, different program) is a multi-state, California-centric, industry-sponsored certification program designed to reflect compliance with strict environmental standards and best management practices to prevent ocean pollution. Since 2004, the Program has certified 145 California marinas (up two from last year). Santa Barbara Harbor was certified in 2006, recertified in 2011 and 2016, and will submit for another recertification in 2022. Santa Barbara remains the only California harbor with two comprehensive Clean Marina Programs that overlap and complement each other.

3. Best Management Practices (BMPs)

A. Storm Water Pollution Prevention Plan

The Department complies with federal Clean Water Act standards through a Storm Water Pollution Prevention Plan (SWPPP), whose goal is to prevent pollution discharges into the harbor. The SWPPP includes a description of the entire Waterfront and potential sources of storm water discharge (like parking lots and trash enclosures), plus BMPs to maintain the area so storm water is not contaminated as it flows off Waterfront property.

Generally, the first heavy rain produces elevated pollution levels but rarely exceeds regulatory standards. This reflects the effectiveness of BMPs throughout the City and is also a testament to other entities, such as Fish & Wildlife, Santa Barbara's Public Works and Parks & Recreation Departments, Heal the Ocean, Commercial Fishermen of Santa Barbara, ChannelKeeper, and the United States Coast Guard. This remains a team effort and laud all efforts to keep our environment clean.

B. Storm Water Management Plan

In 2009, the City completed a state-mandated Storm Water Management Plan (SWMP), which includes several Minimum Control Measures (MCMs—like public outreach, illicit discharge detection, and BMPs) to help maintain good water

quality in our harbor. As part of the City’s overall SWMP, the Waterfront developed MCMs specific to its operations.

C. Diver BMPs

All hull-cleaning dive companies are trained and certified in BMPs for minimizing paint discharge into the harbor. Harbor Patrol Officers are similarly trained. The California Professional Divers Association conducted its latest training and five-year recertification course at the harbor in June 2016. In 2021, in-person training and recertification was postponed due to the pandemic, and is scheduled to resume as we move back to in-person trainings.

D. Staff and Contractor BMPs

City staff and contractors observe BMPs during maintenance, repair, and construction work at the Waterfront:

- Vacuuming debris on decks or roadways during work
- Power-washing and/ or scrubbing roadways and parking lots for oil and stain removal (recovered and deposited into sewer system)
- Monthly trash-enclosure cleaning at Waterfront Center Building
- Placing booms around project sites near the water
- Placing crew in skiffs in the water to scoop debris
- Monitoring beaches to ensure all debris is retrieved
- Removing any leaking equipment from service
- Maximize construction in the Maintenance Yard, not at construction sites

E. Oil Absorbent Pad Distribution

Funded by a CalRecycle grant, the Waterfront Department distributes recyclable absorbent bilge pads that boaters use to soak up oily bilges, prevent leaks while fueling, and contain oil spills during emergency response. The number of pads distributed in FY '20 through FY '22 was consistent with the previous five years. Over 20 years, the Department has distributed over a quarter-million pads.

Pads Distributed:

Year:	FY '03	FY '04	FY '05	FY '06	FY '07	FY '08	FY '09	FY '10
Pads:	15,000	18,000	20,000	17,000	14,400	14,000	17,500	17,500

Year:	FY '11	FY '12	FY '13	FY '14	FY '15	FY '16	FY '17	FY '18
Pads:	21,000	17,000	15,000	15,000	15,000	15,000	15,000	15,000

Year:	FY '19	FY '20	FY '21	FY '22
Pads:	15,000	15,000	13,000	17,000

F. Bird Protection

The Department tracks bird rescues and recoveries, which it coordinates with the Wildlife Care Network (WCN), the latter having grown more active at the Harbor a number of years ago, which dramatically reduced Harbor Patrol's role in these rescues.

Bird Rescues and Recoveries:

Year:	FY '11	FY '12	FY '13	FY '14	FY '15	FY '16	FY '17	FY '18
Birds:	29	81	115	38	268	24	32	18

Year:	FY '19	FY '20	FY '21	FY '22
Birds:	11	6	7	8

G. Marine Mammal Rescues

The Department coordinates with the Channel Islands Marine Wildlife Institute (CIMWI) to rescue ailing marine mammals in the Harbor. In FY '20 through FY '22, the number of animals rescued by Harbor Patrol was below average for the past eight years, in large part due to the CIMWI's work, in which Harbor Patrol is often not involved (CIMWI likely rescued twice as many animals as Harbor Patrol). The Department posts information on Marine Mammals online at www.SantaBarbaraCA.gov/MarineMammals, which focuses on federal protection measures and includes information on how to report a stranded animal using CIMWI's online rescue form.

Marine Mammal Rescues:

Year:	FY '12	FY '13	FY '14	FY '15	FY '16	FY '17	FY '18
Rescues:	43	49	45	97	51	33	30

Year:	FY '19	FY '20	FY '21	FY '22
Rescues:	28	3	6	2

4. Pollution Prevention and Abatement Projects

A. "Salad Boat"

Combined with staff's routine efforts, a contractor working from docks and/ or a skiff, removes litter and debris from the harbor on alternate Saturdays and following harbor events or storms. This improves the harbor's appearance, helps maintain a clean-ocean environment, and helps boaters access their slips. Items collected last year included mostly litter and kelp.

The number of expired birds collected (mostly cormorants, plus a few seagulls) was up modestly from the previous year. Added together, the number of bird rescues and

deceased birds is relatively unchanged.

Crews focused on west-facing fingers in Marina One, where debris pushed by tidal currents and wind had collected. The other area that routinely collects debris is the northeast corner of the harbor, near the small-boat launch ramp, where limited circulation traps it in “Area C” (see map, Attachment 2).

B. Surrendered and Abandoned Vessel Exchange (“SAVE”) Program

After DBW combined its Abandoned Watercraft and Abatement Fund and Vessel Turn in Program into a Surrendered and Abandoned Vessel Exchange (SAVE), the Department applied for and received a \$70,000, two-year SAVE grant good through August 30, 2019. Staff submitted another grant application in early 2021, and was awarded \$64,000, which will continue to help fund the cost of disposing abandoned and surrendered craft through December of 2023.

The Department disposed of 25 vessels through the SAVE program during the last three years (9 abandoned, 16 surrendered), helping limit the number of derelict boats in the East Beach anchorage, commensurately limiting the number of boats that run aground during storms.

Abandoned Boats:

Year:	FY '06	FY '07	FY '08	FY '09	FY '10	FY '11	FY '12	FY '13
Boats:	14	10	13	6	15	10	2	3

Year:	FY '14	FY '15	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21
Boats:	3	5	3	1	2	2	2	5

Year:	FY '22
Boats:	2

Surrendered Boats:

Year:	FY '11	FY '12	FY '13	FY '14	FY '15	FY '16	FY '17	FY '18
Boats:	10	2	1	9	3	8	12	11

Year:	FY '19	FY '20	FY '21	FY '22
Boats:	9	6	7	3

C. Operation Clean Sweep

Operation Clean Sweep, a volunteer seafloor cleanup program, has removed 23.5 tons of debris from the harbor during 14 annual one-day events.

5. Education

Staff disseminates Clean Marina information via *Docklines* and *The Log* newspaper, as well as other local media outlets, including KEYT, *Santa Barbara News Press*, *Noozhawk* and City TV (channel 18). It also distributes literature from California Sea Grant, the California Ocean Protection Council, Cal Fish and Wildlife, the California Coastal Commission, Cal Department of Boating and Waterways, and the U.S. Coast Guard. The Department continues to expand its social-media presence, sharing Clean Marina information via Facebook, Instagram, and Twitter, as well as regular updates on its website, such as features on domoic acid, ocean impacts of discarded cigarettes, safe oil disposal, marine mammal laws, and events like Operation Clean Sweep. Harbor Patrol educates boaters in the field, distributing pollution packets describing BMPs for clean boating and environmentally sound boat maintenance.

6. Compliance and Enforcement

A. Marine Sanitation Device (MSD) Inspections

Dye-tabling MSDs (“holding tanks”) is required for boats visiting Santa Barbara Harbor and for new slip and live-aboard assignments, to deter possible sewage discharges in the harbor by securing overboard plumbing. The number of MSD inspections in FY '19 was 680, above average for the past five years.

Per the Center for Disease Control, the in-person process to test a vessel did not fall under the category of an “essential service” so this process was suspended during the pandemic, and has resumed.

MSD Inspections:

Year:	FY '03	FY '04	FY '05	FY '06	FY '07	FY '08	FY '09	FY '10
Total:	1,230	1,280	1,199	1,259	1,370	1,160	992	837

Year:	FY '11	FY '12	FY '13	FY '14	FY '15	FY '16	FY '17	FY '18
Total:	770	640	666	704	601	443	682	584

Year:	FY '19	FY '20	FY '21	FY '22
Total:	680	0	277	547

B. Discharge Violations

There were 27 known pollution violations in FY '20 through FY '22, which is slightly below average for the past several years. The ratio of warnings to citations remains low, which reflects the Department’s emphasis on education as a primary enforcement tool, as well as boaters’ general compliance with pollution-prevention laws.

Pollution Violations:

Year:	FY '05	FY '06	FY '07	FY '08	FY '09	FY '10	FY '11	FY '12
Total:	32	19	22	22	14	19	14	10
Warnings:	29	16	19	18	13	16	12	8
Citations:	3	3	3	4	1	3	2	2

Year:	FY '13	FY '14	FY '15	FY '16	FY '17	FY '18	FY '19	FY '20
Total:	9	7	10	12	9	17	16	7
Warnings:	7	7	7	11	9	17	14	5
Citations:	2	0	3	0	0	0	2	2

Year:	FY '21	FY'22
Total:	9	11
Warnings:	7	9
Citations:	2	2

ANNUAL CLEAN MARINA PROGRAM COSTS:

Year:	FY '03	FY '04	FY '05	FY '06	FY '07	FY '08	FY '09	FY '10
Total:	\$40,647	\$25,476	\$27,627	\$32,400	\$33,770	\$25,900	\$25,200	\$21,800

Year:	FY '11	FY '12	FY '13	FY '14	FY '15	FY '16	FY '17	FY '18
Total:	\$21,500	\$35,100	\$38,000	\$58,300	\$32,000	\$31,400	\$30,830	\$19,574

Year:	FY '19	FY '20	FY' 21	FY'22
Total:	\$15,012	\$18,205	\$15,906	\$17,952

COST SUMMARY, FOR THE LAST THREE YEARS:

FY '20

Storm Water Pollution Prevention Plan	\$1,400
Dry Season Water Quality Testing	\$4,635
Salad Boat	\$7,488
* Oil-Absorbent Pads	\$4,682
* Abandoned Vessel/VTIP Disposal	\$10,993
Operation Clean Sweep	\$212
Replace Dockside Debris Nets	\$564
* Hazmat Turn-In & Disposal	\$0
* Used-Oil Disposal	\$10,686
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Total Annualized Program Cost:	\$40,660
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*Grant Reimbursed Costs:	\$22,455
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FY '20 Adjusted Clean Marina Program Cost:	\$18,205

FY '21

Storm Water Pollution Prevention Plan	\$1400
Dry Season Water Quality Testing	\$5,244
Salad Boat	\$7,776
* Oil-Absorbent Pads	\$2,216
* Abandoned Vessel/VTIP Disposal	\$10,993
Operation Clean Sweep	\$1110
Replace Dockside Debris Nets	\$376
* Hazmat Turn-In & Disposal	\$0
* Used-Oil Disposal	\$14,076
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Total Annualized Program Cost:	\$43,191
*Grant Reimbursed Costs:	\$25,996
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FY '21 Adjusted Clean Marina Program Cost:	\$15,906

FY '22

Storm Water Pollution Prevention Plan	\$1,400
Dry Season Water Quality Testing	\$7,235
Salad Boat	\$7,800
* Oil-Absorbent Pads	\$3,093
* Abandoned Vessel/VTIP Disposal	\$25,636
Operation Clean Sweep	\$1,000
Replace Dockside Debris Nets	\$517
* Hazmat Turn-In & Disposal	\$0
* Used-Oil Disposal	\$15,227
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Total Annualized Program Cost:	\$61,908
*Grant Reimbursed Costs:	\$43,956
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FY '22 Adjusted Clean Marina Program Cost:	\$17,952

CONCLUSION:

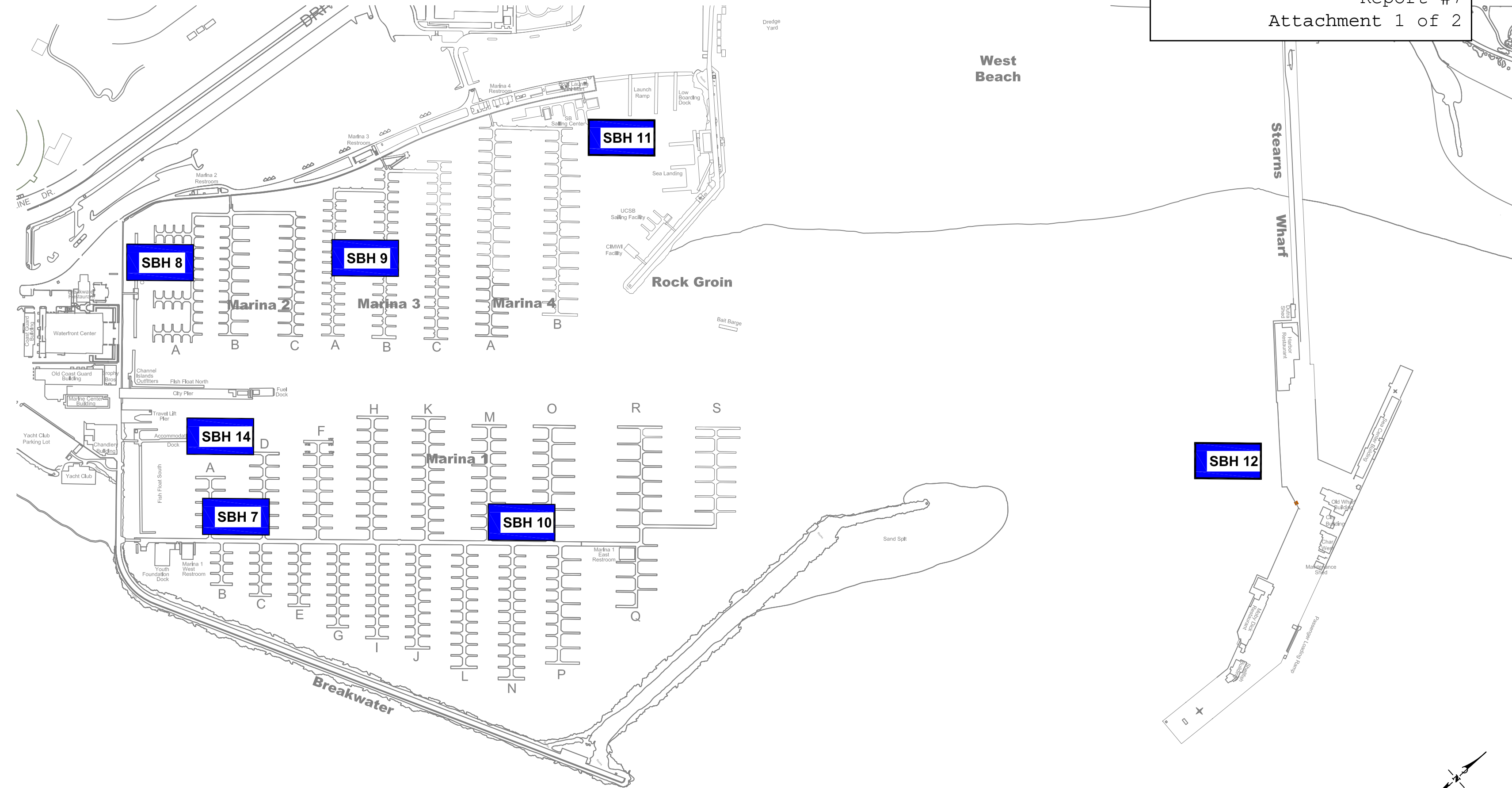
The Clean Marina Program has had fiscally efficient years, due in large to the conclusion of a 10-year water-quality monitoring requirement in the East Beach Anchorage, the State Of California’s Surrendered and Abandoned Vessel Exchange (SAVE) grant program, and limited debris-cleanup (“salad boat”) costs. The Program continues contributing to the Department’s overall mission, highlighting the importance of maintaining a clean ocean environment for those who visit, recreate, or work in Santa Barbara Harbor, as well as the marine and avian life that depend on it to thrive.

- Attachments: 1. Water Quality Sampling Map
 2. Salad Boat Debris Cleanup Map

Prepared by: Erik Engebretson, Harbor Operations Manager

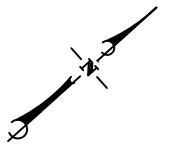
SANTA BARBARA HARBOR SAMPLING LOCATION MAP

Harbor Commission Meeting
July 21, 2022
Report #7
Attachment 1 of 2



SBH 13

SBH # SIGN LOCATION & NUMBER



West Beach

Shoreline Drive

Area "A"

Area "B"

Area "C"

Area "D"

Marina 2

Marina 3

Marina 4

Rock Groin

Project Area

Navy Pier

Area "E"

Federal Channel

Area "F"

Area "G"

Marina

Area "H"

Area "J"

Breakwater

Breakwater Sandspit

Project North



Cleanup Date: _____ Operator: _____

Cleanup Hours: _____

Debris Profile:

<input checked="" type="checkbox"/>	Area "A"
<input type="checkbox"/>	Area "B"
<input checked="" type="checkbox"/>	Area "C"
<input checked="" type="checkbox"/>	Area "D"
<input checked="" type="checkbox"/>	Area "E"
<input type="checkbox"/>	Area "F"
<input type="checkbox"/>	Area "G"
<input type="checkbox"/>	Area "H"
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General Comments:

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