

Harbor Safety Committee

of the San Francisco Bay Region

*Mandated by the California Oil Spill
Prevention and Response Act of 1990*

Harbor Safety Committee of the San Francisco Bay Region

Thursday, October 8, 2015

California Maritime Academy, Richmond Maritime Safety & Security Center

756 West Gertrude Street, Richmond, CA

Capt. Lynn Korwatch (M), Marine Exchange of the San Francisco Bay Region (Marine Exchange), Chair of the Harbor Safety Committee (HSC); called the meeting to order at 10:02.

Alan Steinbrugge (A), Marine Exchange, confirmed the presence of a quorum of the HSC.

Committee members (M) and alternates (A) in attendance with a vote: **John Berge** (M), Pacific Merchant Shipping Association; **Bob Gregory** (M), Foss Maritime Company; **LTC John Morrow**, (M), US Army Corps of Engineers; **Margot Brown** (M), National Boating Federation; **Mary Brown** (M), Sea-Logix, LLC; **Michelle Connolly** (A), Chevron Shipping Company; **Capt. Tom Dougherty** (M), Blue & Gold Fleet; **Jeff Ferguson** (M), NOAA; **Capt. Robert Carr** (A), San Francisco Bar Pilots; **Duncan McFarlane** (A), Shell Martinez; **Jim McGrath** (M), Bay Conservation and Development Commission; **Capt. Ray Shipway** (M), Int'l Org. of Masters, Mates & Pilots; **Rich Smith** (M), Westar Marine Services; **Capt. Greg Stump** (M), United States Coast Guard.

The meetings are always open to the public.

Approval of the Minutes-

A motion to accept the minutes of the September 10, 2015 meeting was made and seconded. The minutes were approved without dissent.

Comments by Chair- Capt. Lynn Korwatch

Welcomed the committee members and audience. Advised that Fleet Week is taking place this week.

Coast Guard Report- Capt. Greg Stump

- Presented a USCG Public Service Award in honor of the late Capt. Esam Amso to his wife and family. The award recognizes Capt. Amso's contributions to the safety of the harbor for his work at Benicia Valero refinery and as chair of the HSC Dredge Issues Work Group. Capt. Korwatch presented a HSC Certificate of Appreciation in honor of Capt. Amso as well. He will be greatly missed.
- Advised that the Coast Guard is preparing for the many upcoming Fleet Week events including the Parade of Ships, Blue Angels airshow and disaster relief exercise.

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- Advised that Caltrans will be using explosives as part of the old Bay Bridge demolition. Traffic will be stopped on the new Bay Bridge during operations as a precaution. Demolition is scheduled for December 7, 2015 and a public observation area will be established.
- Advised that the new container ship ISLA BELLA has departed from San Francisco after repairs for a mechanical issue and will be replacing the sunken vessel EL FARO on its route.
- Advised that loaded tank vessel DUBAI GLAMOR experienced a September 16, 2015 LOP 2nm west of the Golden Gate Bridge. The vessel was able to avert disaster and anchor safely.
- Announced that the USCG will be hosting a Deep Draft Industry Day on December 2, 2015 at Coast Guard Island.
- LCDR Don Edmond introduced himself as the new chief of Waterways Safety and read from the September- 15 Prevention/Response Report (attached).
- Capt. Korwatch advised of USCG MSIB 15-07 issued on September 28, 2015 regarding the establishment of anchorage berths in Anchorage 7, 8 and 8A (attached). Jeff Ferguson will see to it that NOAA charts are updated to reflect the changes.

Army Corps of Engineers Report- Lt.Col. John Morrow

- Advised that the Army Corps boat Dillard will be participating in the Fleet Week Parade of Ships.
- Advised that the Army Corps is preparing for the predicted El Nino this winter. Heavy rains leading to landslides, increased debris and channel shoaling are primary concerns. Shoaling can occur quickly during severe storms and will be monitored. Reports from the maritime community of debris and shoaling are encouraged.
- Rob Lawrence read from the US Army Corps of Engineers, San Francisco District Report (attached). The Raccoon is out for maintenance for approximately two months.

Clearing House Report- Alan Steinbrugge (report attached)

OSPR Report- David Mighetto – No Report

- Capt. Korwatch advised that the HSC West Coast Summit is October 21-22, 2015 in San Diego.

NOAA Report- Jeff Ferguson

- Advised that that the Point Arena weather buoy is back online.
- Advised that hurricane Oho will miss the Bay Area but increased swells are expected.
- Advised that a NWS El Nino report will be given at the November HSC meeting.

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- Advised that NRT6 has acquired a new boat for survey operations.
- Advised that newly updated Coast Pilot 7 will be released in December, 2015.

State Lands Commission Report- Rolando Caabay (report attached)

Work Group Reports-

Tug Work Group- Bob Gregory advised that there was nothing to report.

Navigation Work Group- Capt. Robert Carr advised that there was nothing to report.

Ferry Operations Work Group- Tom Dougherty advised that the ferry industry is growing rapidly with increased passenger volume. More vessels are being acquired to accommodate the increased demand and new ferry routes are being considered.

Dredge Issues Work Group- Michelle Connolly advised that a Dredge Work Group meeting will be held directly after today's HSC meeting.

PORTS Work Group- Nothing to report.

Prevention through People Work Group- Margot Brown advised that there was nothing to report.

PORTS Report- Alan Steinbrugge

- Advised that buoy mounted current sensor maintenance will take place next week.

Public Comment-

- Veronica Bowe, Cal Maritime, advised that the Bay Ferry maritime safety exercise in partnership with Golden Gate Ferry is scheduled for January, 2016. Planning is ongoing.
- Mary Brown introduced the new Oakland Horizon Lines management team. Horizon Lines was recently acquired by Pasha Group.
- Michelle Connolly gave notice of upcoming employee transitioning at Chevron and advised that she will be leaving Richmond.

Old Business- None

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New Business-

- Capt. Carr asked for a moment of silence in recognition of the lives lost aboard the EL FARO. Capt. Korwatch agreed and expressed her condolences for the victims of the tragedy.

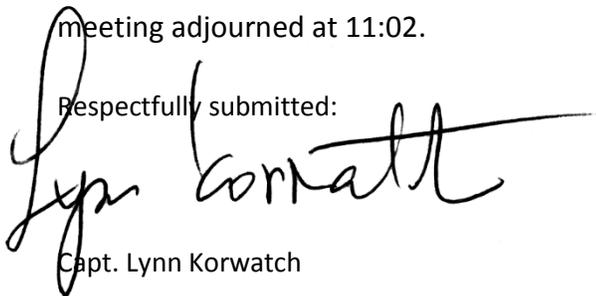
Next Meeting-

1000-1200, November 12, 2015
Port of San Francisco
Bay Side Conference Room, Pier 1
The Embarcadero
San Francisco, CA

Adjournment-

A motion to adjourn was made and seconded. The motion passed without dissent and the meeting adjourned at 11:02.

Respectfully submitted:



Capt. Lynn Korwatch

SIGNIFICANT PORT SAFETY AND SECURITY CASES (SEP 2015)

MARINE CASUALTIES

Equipment Failure (03SEP15): A U.S flag tank vessel experienced an equipment failure. The vessel reported that the emergency generators bus tie was not operating properly (the emergency generator was running however the Chief Engineer could not turn it off). Class attended the vsl and witnessed satisfactory operation of the emergency generator. Case Closed.

Loss of Propulsion (04SEP15): A foreign flag bulk freight vessel experienced a loss of propulsion while approaching Anchorage 9. A COTP order was issued requiring the vessel to remain at Anchorage 9 until documentation is received from class attesting to causative factors. Class and Coast Guard attended the vessel and attested to proper operation of the vessel's main propulsion and associated systems. COTP order was lifted. LOP was not attributed to fuel switching. Case Closed.

Loss of Power (12SEP15): A U.S flag passenger vessel experienced a loss of power while getting underway from their berth with 111 passengers on board. The vessel reported there was air in the fuel line. Vsl was issued a CG-835 No Sail and was required to make arrangements for an assist tug to aid vessel's return to the dock. All passengers were safely disembarked. CG attended the vessel and witnessed proper operation of the both generators. CG- 835 No Sail was lifted. Case Closed.

Loss of Propulsion (14SEP15): A foreign flag container vessel experienced a loss of astern propulsion while in the precautionary area during pilot checks. A COTP order was issued requiring the vessel to obtain a one tug escort while transiting inbound the Golden Gate Bridge. Class attended the vsl and attested to satisfactory operation of the vessel's propulsion and associated systems. COTP order was lifted. LOP was not attributed to fuel switching. Case Closed.

Loss of Propulsion (16SEP15): A foreign flag tank vessel experienced a loss of propulsion while transiting 2NM west of the Golden Gate Bridge. The vessel was able to safely moor at Anchorage 7 with a three tug escort. A COTP order was issued requiring the vessel to remain at Anchorage 7 until attending classification society surveyor provides proper documentation. Class and Coast Guard attended vsl and witnessed satisfactory operation of the main propulsion and associated systems. COTP order was lifted. LOP was not attributed to fuel switching. Case Closed.

Equipment Failure (24SEP15): A U.S flag small passenger vessel experienced an equipment failure while the vessel was transiting west of the Golden Gate Bridge. The vessel had broken a shaft and lost a propeller while carrying 17 passengers on board. The vessel made it safely back to berth and disembarked all passengers without incident. Vsl was issued a CG-835 No-Sail. Coast Guard attended the vessel and witnessed satisfactory replacement of the starboard shaft and conducted sea trials. CG-835 No Sail was lifted. Case Closed.

Loss of Propulsion (27SEP15): A foreign flag bulk freight vessel experienced a loss of propulsion while transiting in Oakland Estuary to Anchorage 9. A COTP order was issued requiring the vessel to have a three tug escort of sufficient horse power to escort them to Anchorage 9 and to remain there until proper documentation is received. Class and Coast Guard attended the vessel and witnessed proper operation of the main propulsion and associated systems. COTP order was lifted. LOP was not attributed to fuel switching. Case Closed.

VESSEL SAFETY CONDITIONS

GENERAL SAFETY CASES

Nothing significant to report.

NAVIGATIONAL SAFETY

Letter of Deviation (LOD), Inop Gyro Compass (11SEP15): Vsl issued inbound LOD.

SIGNIFICANT INCIDENT MANAGEMENT DIVISION CASES

Notice of Violation (23 SEP 15): A 55 foot, wooden hull recreational vessel sank at Oyster Point Marina with an estimated 600 gallons of diesel on board. The Harbormaster immediately deployed hard containment boom around the vessel. The vessel began discharging diesel through the fuel tank vents within the containment boom; there were no impacts to the surrounding waterway outside the containment boom. The owner hired a salvage company to remove the remaining fuel on board and recover the discharged product. An estimated 500 gallons of diesel was recovered from within the containment boom.

**NOTE: This case occurred outside the HSC jurisdiction.

PREVENTION / RESPONSE - SAN FRANCISCO HARBOR SAFETY STATISTICS

September-15

PORT SAFETY CATEGORIES*

	2015	2014	3yr Avg**
1. Total Number of Port State Control Detentions for period:	0	0	0.83
SOLAS (0), STCW (0), MARPOL (0), ISM (0), ISPS (0)			
2. Total Number of COTP Orders for the period:	4	5	5.56
Navigation Safety (4), Port Safety & Security (0), ANOA (0)			
3. Marine Casualties (reportable CG 2692) within SF Bay: Allision (0), Collision (0), Fire (1), Capsize (0), Grounding (0), Sinking (0), Steering (0), Propulsion (5), Personnel (0), Other (2), Power (1)	9	8	12.31
4. Total Number of (routine) Navigation Safety issues/Letters of Deviation: Radar (0) Gyro (1), Steering (0), Echo sounder (0), AIS (1), AIS-835 (0), ARPA (0), SPD LOG (0), R.C. (0), Other (0)	2	2	4.11
5. Reported or Verified "Rule 9" or other Navigational Rule Violations within SF Bay:	0	0	0.72
6. Significant Waterway events or Navigation related cases for the period:	0	1	0.36
7. Maritime Safety Information Bulletins (MSIBs): Establishment of General Anchorages 7, 8 and 8A	1	0	0.50
Total Port Safety (PS) Cases opened for the period:	16	15	24.39

MARINE POLLUTION RESPONSE

Source Identification (Discharges):

	2015	2014	3yr Avg**
VESSELS			
U.S. Commercial Vessels	1	4	0.89
Foreign Freight Vessels	0	0	0.08
Public Vessels	1	0	0.75
Commercial Fishing Vessels	0	0	0.56
Recreational Vessels	6	3	4.58
FACILITIES			
Regulated Waterfront Facilities	0	0	0.39
Regulated Waterfront Facilities - Fuel Transfer	0	0	0.00
Other Land Sources	2	2	1.61
Mystery Spills - Unknown Sources	2	6	4.33
Number of Oil/Hazmat Pollution Incidents within San Francisco Bay for Period			
1. Spills < 10 gallons	6	5	6.83
2. Spills 10 - 100 gallons	3	1	1.19
3. Spills 100 - 1000 gallons	1	0	0.19
4. Spills > 1000 gallons	0	0	0.03
5. Spills - Unknown	2	9	4.94
Total:	12	15	13.17
TOTAL OIL DISCHARGE AND HAZARDOUS MATERIALS RELEASE VOLUMES BY SPILL SIZE CATEGORY:			
1. Estimated spill amount from U.S. Commercial Vessels:	5	23	14.38
2. Estimated spill amount from Foreign Freight Vessels:	0	0	0.06
3. Estimated spill amount from Public Vessels:	2	0	1.98
4. Estimated spill amount from Commercial Fishing Vessels:	0	0	13.90
5. Estimated spill amount from Recreational Vessels:	566	1	22.81
6. Estimated spill amount from Regulated Waterfront Facilities:	0	0	5.82
7. Estimated spill amount from Regulated Waterfront Facilities - Fuel Transfer:	0	0	0.00
8. Estimated spill amount from Other Land Sources:	2	unk	34.95
9. Estimated spill amount from Unknown sources: (mystery sheens)	unk	unk	2.56
TOTAL OIL DISCHARGE AND/OR HAZARDOUS MATERIAL RELEASE VOLUMES (GALLONS):	~575	24	89.31
Civil Penalty Cases for Period	0	0	0.11
Notice of Violations (TKs)	0	1	0.69
Letters of Warning	5	3	2.39
TOTAL PENALTY ACTIONS:	5	4	3.19

* NOTE: Values represent all cases within the HSC jurisdiction during the period. Significant cases are detailed in the narrative.

** NOTE: Values represent an average month over a 36 month period for the specified category of information.

**Harbor Safety Committee
Of the San Francisco Bay Region**

**Report of the
U.S. Army Corps of Engineers, San Francisco District
October 8, 2015**

1. CORPS O&M DREDGING PROGRAM

The following is this year's O & M dredging program for San Francisco Bay. The FY15 O&M dredging program is subject to change, please refer to the Local Notice to Mariner for details dredge operations.

- a. **FY15 Main Ship Channel** – Completed 29 May 2015.
- b. **FY15 Richmond Inner Harbor** – Contract award pending, clamshell dredging expected to start October 2015.
- c. **FY15 Richmond Outer Harbor (and Richmond Long Wharf)** – Contract award pending, clamshell dredging scheduled to start late September 2015.
- d. **FY15 Pinole Shoal** – Contract awarded, clamshell dredging expected to start late September 2015.
- e. **FY15 Suisun Bay Channel (and New York Slough)** – Contract awarded, clamshell dredging expected to start late October 2015.
- f. **FY15 Oakland Harbor Dredging** – Contract awarded, clamshell dredging expected to start late September 2015.
- g. **FY14 Redwood City Harbor I**– dredging complete mid-July 2015.
- h. **FY15 Redwood City Harbor II**- Contract in solicitation, clamshell dredging expected to start late October 2015.

2. DEBRIS REMOVAL – Debris removal for September 2015 was 35.5 tons. Dillard: 26.5 tons, including 2 abandoned vessels [1 from Hunters Point, 1 from Emeryville]; Other boats: 9 tons incl. 1 sunken vessel from Richardson Bay; Raccoon: will be in the shipyard for an approx 2 months for routine maintenance). Average for September from 2005 to 2014 is x tons. (Range: x - x tons)

BASEYARD DEBRIS COLLECTION TOTALS:

MONTH	RACCOON	DILLARD	MISC	TOTAL
2015	TONS	TONS	TONS	TONS
JAN	0	45	15	60
FEB	0	49.5	7	56.5
MAR	7.5	21.5	0	29
APR	0	17	10	27
MAY	0	12.5	9.5	22
JUN	0	18	3	21
JUL	4	4	0	8
AUG	5	0	0	5
SEP	0	26.5	9	35.5
OCT				
NOV				
DEC				

YR TOTAL
264

3. UNDERWAY OR UPCOMING HARBOR IMPROVEMENTS

None to report.

4. EMERGENCY (URGENT & COMPELLING) DREDGING

No urgent dredging in 2015.

5. OTHER WORK

San Francisco Bay to Stockton - This project received \$800,000 in the FY 14 work plan. Continuing to make progress on project study.

HYDROGRAPHIC SURVEY UPDATE

Address of Corps' web site for completed hydrographic surveys:

<http://www.spn.usace.army.mil/Missions/Surveys,StudiesStrategy/HydroSurvey.aspx>

The following surveys are posted;

Alameda Point Navigation Chanel: Condition survey of Nov. 2014.

Berkeley Marina (Entrance Channel): Condition survey of September 23, 2014.

Bull's Head Shoal: February 15, 2013 condition survey.

Islais Creek Channel: Condition survey of September 25, 2014.

Main Ship Channel: Post-dredge survey of May 27, 2015.

Mare Island Strait: Condition survey of September 24, 2014.

Marinship Channel (Richardson Bay): Condition survey of September 21, 2014.

Napa River: Condition surveys of 23-24 October 2014.

New York Slough: Condition survey of mid-July 2015.

Northship Channel: Condition survey of late July 2015

Oakland Entrance Channel: Post-dredge survey of Dec 2014 – Jan 2105.

Oakland Inner Harbor: Condition survey of early July 2015.

Oakland Inner Harbor Turning Basin: As above.

Oakland Outer Harbor: Condition survey of early July 2015.

Petaluma River: Condition survey of mid-September 2014.

Pinole Shoal Channel: Condition survey of early July 2015.

Redwood City Harbor: Post-dredge survey of June/July 2015.

Richmond Inner Harbor: Condition survey of late July 2015.

Richmond Outer Harbor (Longwharf): Condition survey of late July 2015.

Richmond Outer Harbor (Southampton Shoal): Condition survey of late July 2015.

Sacramento River Deep Water Ship Channel: Condition Survey April 2015.

San Bruno Shoal: Condition survey of April 15, 2014.

San Leandro Marina (and Channel): Condition survey of March 30 – April 1, 2015.

San Rafael Across-the-Flats / San Rafael Creek: Condition surveys of May 2013.

Suisun Bay Channel: Condition survey of mid-July 2015.

Disposal Site Condition Surveys:

SF-08 (Main Ship Channel Disposal Site): Condition survey of March 2013

SF-09 (Carquinez): Condition survey of March 2, 2015.

SF-10 (San Pablo Bay): Condition survey of March 2, 2015.

SF-11 (Alcatraz Island): Condition survey of September 16, 2015.

SF-16 (Suisun Bay Disposal Site): Condition survey of May, 2012.

SF-17 (Ocean Beach Disposal Site): Condition survey of March 2013.

NEW WEB ADDRESS – USACE WORK PLAN: www.usace.army.mil/missions/civilworks/budget.

O&M DREDGING PLAN FOR 2015

Project	2014			2015									2016			2015 Volume	Placement Site
	OCT FY15	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT FY16	NOV	DEC		
Humboldt Bar&Entrance																~700kcy	HOODS
SF Main Ship Channel																~350kcy	OBDS/ SF-17
Richmond Inner Harbor																165kcy	SFDODS & Upland
Richmond Outer Harbor																200kcy	SF-11
Pinole Shoal																47kcy	SF-10
Suisun Bay Channel																85kcy	SF-16
Oakland Harbor																635kcy	SFDODS & Upland
Redwood City Harbor I																~350kcy	SF-11
Redwood City Harbor II																250kcy	SFDODS or Upland
Sacramento River (-30')																~90kcy	Upland
San Joaquin River																~250kcy	Upland

Complete & Ongoing Contracts

Government Hopper

New Dredge Contract

Environmental Window

** Work Window Extension Required



Harbor Safety Committee of the
San Francisco Bay Region Clearing House
c/o Marine Exchange of the San Francisco Bay Region
505 Beach Street, Suite 300
San Francisco, California 94133-1131
415-441-6600 fax 415-441-3080 hsc@sfmx.org

San Francisco Clearinghouse Report

October 8, 2015

- ✎ In September the clearinghouse did not contact OSPR regarding any possible escort violations.

- ✎ In September the clearinghouse did not receive any notifications of vessels arriving at the Pilot Station without escort paperwork.

- ✎ The Clearinghouse contacted OSPR 1 time so far in 2015 about possible escort violations. The Clearinghouse contacted OSPR 5 times regarding possible escort violations in 2014. The Clearinghouse contacted OSPR 1 time in 2013. The Clearinghouse contacted OSPR 3 times in 2012 regarding any possible escort violations, 3 times in 2011, 6 times in 2010, 8 time 2009; 4 times 2008; 9 times in 2007; 9 times in 2006; 16 times in 2005; 24 times in 2004; twice in 2003; twice in 2002; 6 times in 2001; 5 times in 2000.

- ✎ In September there were 89 tank vessel arrivals; 9 ATB's, 4 Chemical Tankers, 14 Chemical/Oil Tankers, 29 Crude Oil Tankers, 1 LPG's, 12 Product Tankers, and 20 Tugs with Barges.

- ✎ In September there were 272 total arrivals.

San Francisco Bay Clearinghouse Report For September 2015

San Francisco Bay Region Totals

	<u>2015</u>		<u>2014</u>	
Tanker arrivals to San Francisco Bay	60		66	
ATB arrivals	9			
Barge arrivals to San Francisco Bay	20		21	
Total Tanker and Barge Arrivals	89		87	
Tank ship movements & escorted barge movements	323		272	
Tank ship movements	188	58.20%	145	53.31%
Escorted tank ship movements	134	41.49%	108	39.71%
Unescorted tank ship movements	54	16.72%	37	13.60%
Tank barge movements	135	41.80%	127	46.69%
Escorted tank barge movements	45	13.93%	29	10.66%
Unescorted tank barge movements	90	27.86%	98	36.03%

Percentages above are percent of total tank ship movements & escorted barge movements for each item.

Escorts reported to OSPR 0 0

Movements by Zone	Zone 1	%	Zone 2	%	Zone 4	%	Zone 6	%	Total	%
Total movements	181		308		0		139		628	
Unescorted movements	68	37.57%	133	43.18%	0	0.00%	69	49.64%	270	42.99%
Tank ships	51	28.18%	88	28.57%	0	0.00%	46	33.09%	185	29.46%
Tank barges	17	9.39%	45	14.61%	0	0.00%	23	16.55%	85	13.54%
Escorted movements	113	62.43%	175	56.82%	0	0.00%	70	50.36%	358	57.01%
Tank ships	93	51.38%	132	42.86%	0	0.00%	46	33.09%	271	43.15%
Tank barges	20	11.05%	43	13.96%	0	0.00%	24	17.27%	87	13.85%

Notes:

1. Information is only noted for zones where escorts are required.
2. All percentages are percent of total movements for the zone.
3. Every movement is counted in each zone transited during the movement.
4. Total movements is the total of all unescorted movements and all escorted movements.



CALIFORNIA STATE LANDS COMMISSION

HARBOR SAFETY COMMITTEE MONTHLY REPORT - SEPTEMBER COMPARISON

VESSEL TRANSFERS

	Total Transfers	Total Vessel Monitors	Total Transfer Percentage
SEPTEMBER 1 - 30, 2014	215	87	40.47
SEPTEMBER 1 - 30, 2015	213	80	37.56

CRUDE OIL / PRODUCT TOTALS

	Crude Oil (D)	Crude Oil (L)	Overall Product (D)	Overall Product (L)	GRAND TOTAL
SEPTEMBER 1 - 30, 2014	14,073,901	0	17,863,044	6,700,708	24,563,752
SEPTEMBER 1 - 30, 2015	16,570,185	0	21,398,295	6,740,408	28,138,703

OIL SPILL TOTAL

	Terminal	Vessel	Facility	Total	Gallons Spilled
SEPTEMBER 1 - 30, 2014	0	0	0	0	0
SEPTEMBER 1 - 30, 2015	0	0	0	0	0

*** Disclaimer:

Please understand that the data is provided to the California State Lands Commission from a variety of sources; the Commission cannot guarantee the validity of the data provided to it.



**MARINE SAFETY AND SECURITY
INFORMATION BULLETIN
(MSIB) 15-07**



September 28, 2015

U.S. Department of Homeland Security, Coast Guard Sector San Francisco

Establishment of Anchorage Berths in General Anchorages 7, 8 and 8A*

On September 10, 2015 the Harbor Safety Committee of the San Francisco Bay Region adopted a proposal to establish anchorage berthing schemes in general anchorages 7, 8 and 8A*. These berthing schemes will provide more efficient use and greater predictability of the available space in these anchorages. Specific berth information is contained in the tables below.

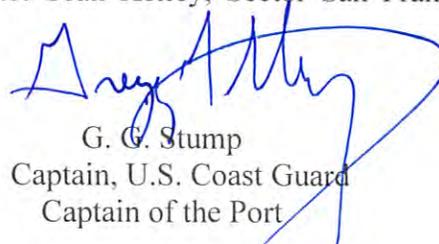
ANCHORAGE 7 BERTH COORDINATES		
COORDINATES INDICATE CENTER OF .05NM (100YD) DIAMETER DROP BUCKET		
Berth	Latitude	Longitude
7N	37° 49.617'N	122° 23.403'W
7S	37° 49.178'N	122° 22.967'W

ANCHORAGE 8 BERTH COORDINATES		
COORDINATES INDICATE CENTER OF .05NM (100YD) DIAMETER DROP BUCKET		
Berth	Latitude	Longitude
8N	37° 47.575'N	122° 21.485'W
8C	37° 47.395'N	122° 20.890'W
8S	37° 46.910'N	122° 21.050'W
8E1	37° 47.835'N	122° 21.000'W
8E2	37° 46.905'N	122° 20.480'W

ANCHORAGE 8A* BERTH COORDINATES		
COORDINATES INDICATE CENTER OF .05NM (100YD) DIAMETER DROP BUCKET		
Berth	Latitude	Longitude
8A	37° 47.050'N	122° 21.725'W

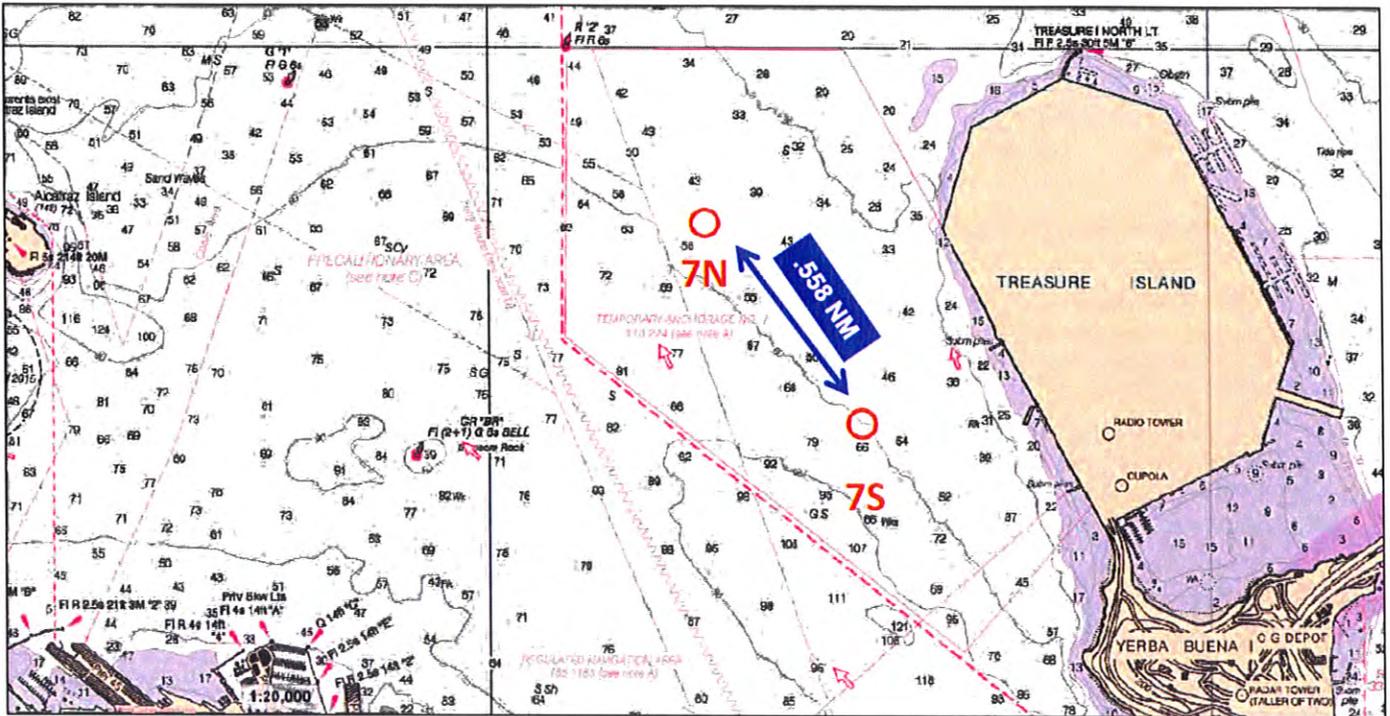
*Anchorage 8A exists only when activated by VTS.

All existing regulations governing the use of these anchorages remain in effect. Vessels using these anchorages should strive to let go their anchor in the center of the drop bucket. For additional information please contact Sean Kelley, Sector San Francisco VTS Director (415) 399-7402.


 G. G. Stump
 Captain, U.S. Coast Guard
 Captain of the Port

General Anchorage 7 berths

Drop circles or "buckets" are .05NM (100 yds) in diameter



General Anchorages 8 & 8-A berths

Drop circles or "buckets" are .05NM (100 yds) in diameter

