

**State of California
Office of Administrative Law**

In re:
Office of Spill Prevention and Response

**NOTICE OF APPROVAL OF REGULATORY
ACTION**

Regulatory Action:

Government Code Section 11349.3

Title 14, California Code of Regulations

OAL File No. 2013-1121-05 S

Amend sections: 790, 818.02, 825.03, 827.02

This regulatory action updates the required Shoreline Protection Tables (SP Tables) which were adopted in 2006 and incorporated by reference. These updates to the SP Tables align them with the 2011 versions of the Area Contingency Plans, which are developed by the U.S. Coast Guard.

OAL approves this regulatory action pursuant to section 11349.3 of the Government Code. This regulatory action becomes effective on 12/19/2013.

Date: 12/19/2013



George G. Shaw
Senior Counsel

For: DEBRA M. CORNEZ
Director

Original: Thomas M. Cullen Jr.
Copy: Joy Lavin-Jones

REGULAR

(See instructions on reverse)

For use by Secretary of State only

STD. 400 (REV. 01-2013)

OAL FILE NUMBERS	NOTICE FILE NUMBER Z-2013-0917-02	REGULATORY ACTION NUMBER 2011-1121-055	EMERGENCY NUMBER
For use by Office of Administrative Law (OAL) only			
NOTICE		REGULATIONS	

ENDORSED FILED
IN THE OFFICE OF

2013 DEC 19 PM 3:51

Jean Bowen
JEAN BOWEN
SECRETARY OF STATE

2013 NOV 21 PM 1:39

OFFICE OF
ADMINISTRATIVE LAW

AGENCY WITH RULEMAKING AUTHORITY FISH AND WILDLIFE/OFFICE OF SPILL PREVENTION AND RESPONSE	AGENCY FILE NUMBER (if any)
--	------------------------------------

A. PUBLICATION OF NOTICE (Complete for publication in Notice Register)

1. SUBJECT OF NOTICE SHORELINE PROTECTION TABLES		TITLE(S) 14	FIRST SECTION AFFECTED 790	2. REQUESTED PUBLICATION DATE SEPTEMBER 27, 2013
3. NOTICE TYPE <input checked="" type="checkbox"/> Notice re Proposed Regulatory Action <input type="checkbox"/> Other		4. AGENCY CONTACT PERSON JOY LAVIN-JONES		TELEPHONE NUMBER 916-327-0910
OAL USE ONLY <input type="checkbox"/> Approved as Submitted <input type="checkbox"/> Approved as Modified <input type="checkbox"/> Disapproved/Withdrawn		NOTICE REGISTER NUMBER 2013-392	PUBLICATION DATE 9/27/2013	

B. SUBMISSION OF REGULATIONS (Complete when submitting regulations)

1a. SUBJECT OF REGULATION(S) SHORELINE PROTECTION TABLES	1b. ALL PREVIOUS RELATED OAL REGULATORY ACTION NUMBER(S)
--	---

2. SPECIFY CALIFORNIA CODE OF REGULATIONS TITLE(S) AND SECTION(S) (Including title 26, if toxics related)	
SECTION(S) AFFECTED (List all section number(s) individually. Attach additional sheet if needed.)	ADOPT AMEND 790, 818.02, 825.03, 827.02, SHORELINE PROTECTION TABLES (incorporated by reference) REPEAL
TITLE(S) 14	

3. TYPE OF FILING

<input checked="" type="checkbox"/> Regular Rulemaking (Gov. Code §11346)	<input type="checkbox"/> Certificate of Compliance: The agency officer named below certifies that this agency complied with the provisions of Gov. Code §§11346.2-11347.3 either before the emergency regulation was adopted or within the time period required by statute.	<input type="checkbox"/> Emergency Readopt (Gov. Code, §11346.1(h))	<input type="checkbox"/> Changes Without Regulatory Effect (Cal. Code Regs., title 1, §100)
<input type="checkbox"/> Resubmittal of disapproved or withdrawn nonemergency filing (Gov. Code §§11349.3, 11349.4)	<input type="checkbox"/> Resubmittal of disapproved or withdrawn emergency filing (Gov. Code, §11346.1)	<input type="checkbox"/> File & Print	<input type="checkbox"/> Print Only
<input type="checkbox"/> Emergency (Gov. Code, §11346.1(b))		<input type="checkbox"/> Other (Specify) _____	

4. ALL BEGINNING AND ENDING DATES OF AVAILABILITY OF MODIFIED REGULATIONS AND/OR MATERIAL ADDED TO THE RULEMAKING FILE (Cal. Code Regs. title 1, §44 and Gov. Code §11347.1)

5. EFFECTIVE DATE OF CHANGES (Gov. Code, §§ 11343.4, 11346.1(d); Cal. Code Regs., title 1, §100)

<input type="checkbox"/> Effective January 1, April 1, July 1, or October 1 (Gov. Code §11343.4(a))	<input checked="" type="checkbox"/> Effective on filing with Secretary of State	<input type="checkbox"/> §100 Changes Without Regulatory Effect	<input type="checkbox"/> Effective other (Specify) _____
---	---	---	--

6. CHECK IF THESE REGULATIONS REQUIRE NOTICE TO, OR REVIEW, CONSULTATION, APPROVAL OR CONCURRENCE BY, ANOTHER AGENCY OR ENTITY

<input type="checkbox"/> Department of Finance (Form STD. 399) (SAM §6660)	<input type="checkbox"/> Fair Political Practices Commission	<input type="checkbox"/> State Fire Marshal
<input checked="" type="checkbox"/> Other (Specify) OIL SPILL TECHNICAL ADVISORY COMMITTEE		

7. CONTACT PERSON JOY LAVIN-JONES	TELEPHONE NUMBER 916 327-0910	FAX NUMBER (Optional)	E-MAIL ADDRESS (Optional) Joy.Lavin-Jones@Wildlife.ca.gov
---	---	------------------------------	---

8. I certify that the attached copy of the regulation(s) is a true and correct copy of the regulation(s) identified on this form, that the information specified on this form is true and correct, and that I am the head of the agency taking this action, or a designee of the head of the agency, and am authorized to make this certification.

SIGNATURE OF AGENCY HEAD OR DESIGNEE <i>Stephen L. Sawyer</i>	DATE 11/19/13
TYPED NAME AND TITLE OF SIGNATORY Stephen L. Sawyer, Assistant Chief Counsel	

For use by Office of Administrative Law (OAL) only

ENDORSED APPROVED

DEC 19 2013

Office of Administrative Law

**SHORELINE PROTECTION TABLES (SP TABLES) FOR VESSEL TRAFFIC IN
CALIFORNIA'S MARINE WATERS
(Tables Dated August 29, 2013)**

PURPOSE AND SCOPE

The Shoreline Protection Tables (SP Tables) set forth planning requirements for shoreline protection for vessels in California's marine waters. A vessel owner/operator shall demonstrate through contracts(s) or other approved means (see Sections 815.05(b) or 825.05(a)), the shoreline protection response resources necessary to protect each type of shoreline and all applicable sensitive sites as outlined in the appropriate SP Tables. Based on these Tables the owner/operators will be able to ascertain the type of equipment that must be available for the appropriate response strategies necessary to protect the shoreline types that could be affected. For the purpose of meeting the regulatory requirements, contracts for shoreline protection services can only be made with OSROs Rated by the Office of Spill Prevention and Response.

The SP Tables are for vessels that transit in California's marine waters. In addition, for the small harbors identified, a Small Harbor Table is included to define preparedness levels for these areas.

The requirements set forth in these Tables are planning standards and may not reflect the exigencies of actual spill response. However, these are the standards that must be used to determine the amount of equipment and personnel that must be under contract or other approved means. The owner/operator is ultimately responsible for protecting the sensitive sites identified from the entire volume of an actual spill regardless of the planning volume.

Skimming assets required to execute the strategies listed in the Tables will be included as part of the required on-water recovery capacity, as stipulated in CCR Sections 818.02(e) and 827.02(h), and should not be construed as requiring additional skimming capacity. Sorbent boom requirements included in the first 24 hours of response must be on scene by hour 24, but not necessarily deployed at specific sites. In a few instances (only as indicated in the Tables) up to 2,000 feet of containment boom required to meet the 2-hour on-water containment requirement, can be utilized for shoreline protection.

An owner/operator may propose alternatives to what is listed in the SP Tables for boats and staff only. The proposal may be tested by the Administrator anytime prior or subsequent to plan approval. The SP Tables shall be reviewed and updated as needed (e.g., to reflect updates to the ACPs, etc.). Updates to the SP Tables will be processed by OSPR staff using the procedures outlined in the Administrative Procedure Act.

A glossary of terms used in the SP Tables has been included (last page). This glossary explains the terms and abbreviations used in the tables. These are the commonly understood meanings of these terms, and are included here to make the SP Tables comprehensive, stand-alone documents.

To the greatest extent possible, California has endeavored to be consistent with the scope and intent of the Federal oil spill response regulations and the Area Contingency Plans (ACP) completed by the U.S. Coast Guard, state agencies, and local governments, with public participation, as required by the Oil Pollution Act of 1990 (33 USC 2701, et seq.).

SHORELINE PROTECTION TABLE - CALIFORNIA NORTH COAST - HUMBOLDT BAY 8/2013														Type of or reason for change
Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff		
		First 6 hours	2000	4000	0	10	15					20	Deleting vessel totals throughout SPT but adding staff sum for first 6 hours	
2.5	1-340.1	Palco Marsh									Flash boards & keys to tide gates at Chevron & city	2		
2.5	1-340.2	Palco Marsh									debris hooks, shovels, pry-bar, pitchfork	2	Per 2011 ACP Draft	
2.5	1-340.3	Palco Marsh				10						2	Per 2011 ACP Draft	
3	1-330.1	Indian Isl (swamp boom supports 1-310.2 strategy)		500			22 lb+ Danforth anchors	1				2	Per 2011 ACP Draft	
3	1-345.1	Elk River & Marshes									Close drop gates - bolt cutters or keys for lock	2	SPT 2006-2010 row order change only	
4	1-310.2*	North Humboldt Bay		3500			5 22 lb+ Danforth anchors	2		1 SPS		8	Per 2008 ACP	
* up to 2000 ft of containment boom required to meet the 2 hour on-water containment requirement can be utilized														
		7-12 hours	4600		0	300	19					19	Deleting vessel sums throughout SPT	
7	1-305.2	Humboldt Bay Mouth / Samoa Spit	2000				10 22 lb+ Danforth anchors	2		1 SSS/SPS		8		
7	1-328.2	Woodley Island	1200				4 22 lb+ Danforth anchors	1		1 SPS		5	Per 2011 ACP	
11	1-345.2	Elk River & Marshes	1400			300	5 22 lb+ Danforth anchors		1			4		
11	1-345.3	Elk River & Marshes								1 SPS/SSS		2		
		13-24 hours	750	400	0	1550	23					47	Equip./staff changes per 2008 ACP; deleting vessel sums throughout SPT	
13	1-328.1	Woodley Island	1200				4 22 lb+ Danforth anchors	1		1 SPS	Stakes,shovels, hammer	3		
14	1-350.1	South Humboldt Bay	1200				5 22 lb+ Danforth anchors	2		2 SSS		10		
23	1-326.2	Eureka Slough		1000		100		1		1 SSS	collection and containment package	10	Per 2011 ACP	
24	1-310.3	North Humboldt Bay	2000				10 22 lb+ Danforth anchors	1		1 SFS		4	Per 2011 ACP	
24	1-320.1	Mad River Slough	1200	100		1200	4 22 lb+ Danforth anchors		1			6	SPT 2006-2010 row order change only	
24	1-324.1	Arcata Bay Sloughs - Jacoby Creek	500	100		100					Stakes,shovels, hammer	6		
24	1-324.2	Arcata Bay Sloughs - Gannon Slough	500	100		100					Stakes,shovels, hammer	6		
24	1-324.3	Arcata Bay Sloughs - Butcher Slough	300	50		100					Stakes,shovels, hammer	6		
24	1-324.4	Arcata Bay Sloughs - McDonald Slough	150	50		50					Stakes,shovels, hammer	6		

SHORELINE PROTECTION TABLE - CALIFORNIA NORTH COAST - CAPE MENDOCINO NORTH 8/2013														Type of or reason for change
Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff		
		First 12 hours	4600	0	0	0	18			0		12		
2	1-268.1	False Cape Rock					on-water response only; no shoreline protection feasible						SPT 2006-2010 row order change only	
2	1-273.1	Cape Mendocino					on-water response only; no shoreline protection feasible						SPT 2006-2010 row order change only	
4	1-265.1	Centerville Beach					on-water response only; no shoreline protection feasible							
12	1-260.2	Eel River	4600				18 22 lb+ Danforth anchors	1				12		

SHORELINE PROTECTION TABLE - CALIFORNIA NORTH COAST - PT ARENA 8/2013														Type of or reason for change
Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff		

		First 6 hours	600	300	0	0	3		0						10	Deleting vessel sums throughout SPT but adding staff sum for first 6 hrs	
2	1-484.3	Garcia River & Manchester State Beach	600					3	22 lb+ Danforth anchors						1	5	SPT 2006-2010 row order change only
2	1-486.1	Point Arena	on-water response only; no shoreline protection feasible														SPT 2006-2010 row order change only
5	1-482.2	Alder Creek		300												5	
		7 to 24 hours	1400	0	100	300	28										Deleting vessel sums throughout SPT
13	1-474.2	Greenwood Creek to Cuffey's Cove														19	over-flight assessment needed SPT 2006-2010 row order change only
13	1-476.1	Bonee Gulch	on-water response only; no shoreline protection feasible														SPT 2006-2010 row order change only
13	1-478.1	Elk Creek	on-water response only; no shoreline protection feasible														SPT 2006-2010 row order change only
16	1-472.2	Navarro River St Pk	1000					12	22 lb+ Danforth anchors					2		8	
17	1-470.1	Salmon Point and Big Salmon Creek															install filter fence: fencing & 200 pom-poms
18	1-468.1	Albion River	300					300	12	22 lb+ Danforth anchors				1		5	
24	1-464.2	Van Dam St Pk and Little River	100		100	OS			4	22 lb+ Danforth anchors						3	

SHORELINE PROTECTION TABLE - S.F. SECTOR - PT REYES 8/2013															Type of or reason for change	
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-------------------------------------	--

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt	Boom Type	Sorbent Boom	Anchoring Systems No.	Kind	Boom Boats	Skiffs	Skimmers No.	Type	Special Equipment and Notes	Staff		
		First 6 hours	3000	0	50		100	15-20							9	Deleting vessel sums throughout SPT but adding staff sum for first 6 hrs	
3	2-201.1	Pt. Reyes Headlands	on-water response only; no shoreline protection feasible														
6	2-203.2	Drakes Beach (West)	3000		50	OS	100	15-20	22#+ Danforth	3-4				Storage tanks, bladders or vac trucks	9	SPT 2006-2010 row order and equip./staff changes per 2011 ACP	
6	2-207.1	Limnatour Spit												Front end loader, grader		SPT 2006-2010 row order change, update per 2011	
		7-24 hours	6000	5080	3100		8900	96							84		
8	2-198.1	Point Reyes Beach	on-water response only; no shoreline protection feasible													0	
12	2-205.1	Drakes Estero			2000	OB*		25	40#+ Danforth	4					28	SPT 2006-2010 row order change, and equip./staff changes per 2008 ACP	
12	2-205.2	Drakes Estero	6000		50	OS	2100	30	22#+ Danforth	4	4				28	SPT 2006-2010 row order change, and equip./staff changes per 2011 ACP	
12	2-210.1	Point Resistance	on-water response only; no shoreline protection feasible													0	SPT 2006-2010 row order change only
12	2-213.1	Miller Point	on-water response only; no shoreline protection feasible													0	SPT 2006-2010 row order change only
12	2-216.2	Double Point and Stormy Stack			1000	OB*		10	40#+ Danforth	2					6	SPT 2006-2010 row order change, and strategy number and equip./staff changes per 2008 ACP	
12	2-219.42	Duxbury Reef					5000								4	Strategy number change per 2008 ACP	
14	2-198.1	Pt. Reyes Beach	on-water response only; no shoreline protection feasible														
18	2-197.2	Abbott's Lagoon (if not naturally closed)		500			600	4	12#+ Danforth			1			8	Per 2008 ACP	
20	2-222.1	Bolinas Lagoon		4380	50	OS	200	25	15x22#, 10x30-45#, 8 stakes			3			8	Per 2008 ACP	
24	2-225.1	Redwood Creek/Big Lagoon/Muir Beach		200			1000	2	small anchors or stakes						2		
24	2-231.1	Bird Island	on-water response only; no shoreline protection feasible														

SHORELINE PROTECTION TABLE - S.F. SOUTH COASTAL - PILLAR PT. 8/2013															Type of or reason for change	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-------------------------------------	--

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt	Boom Type	Sorbent Boom	Anchoring Systems No.	Kind	Boom Boats	Skiffs	Skimmers No.	Type	Special Equipment and Notes	Staff	
-----------------	-------------------------	-----------	-------------	------------	----------------	-----------	--------------	-----------------------	------	------------	--------	--------------	------	-----------------------------	-------	--

		First 6 hours	0	50	0	50	8							2	Deleting vessel sums throughout SPT but adding staff sum for first 6 hrs
2	2-260.1	Seal Cove to Pillar Point	on-water response only; no shoreline protection feasible												
5	2-255.1	Shelter Cove & San Pedro Rock	on-water response only; no shoreline protection feasible												SPT 2006-2010 row order change only
5	2-258.1	Point Montara Area	on-water response only; no shoreline protection feasible												SPT 2006-2010 row order change only
6	2-253.1	San Pedro Creek		50		50	8	stakes						2	
		7-24 hours	500	12350	0	200	25					1		19	Deleting vessel sums throughout SPT
11	2-264.4	Pillar Point Marsh & Denniston Creek	500				9	2/50+ & 7/22 danforths + 20' chain	1	1	1	vessel sk		5	Per 2011 ACP
12	2-264.1	Pillar Point Marsh & Denniston Creek												2	culverted berm using sandbags or earthmovers
12	2-264.2	Pillar Point Marsh & Denniston Creek		50			3	stakes						2	stake to keep from catenary sag.
16	2-264.5	Pillar Point Marsh & Denniston Creek		12300		200	13	12+# danforths & stakes	2	2				10	

SHORELINE PROTECTION TABLE - S.F. SECTOR - SOUTH S.F. BAY / ANCHORAGE 9 8/2013

Type of or reason for change

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff		
		First 6 hours	8800	300	0	900	23			0		39	Deleting vessel sums throughout SPT but adding staff sum for first 6 hrs	
2	2-307.1	Alameda Eelgrass Beds									Initial on-site assessment needed	1		
3	2-304.1	Middle Harbor Shoreline Park	2500				7	7/22 + danforth	2	1		7	Added from 2011 ACP	
3	2-309.1	San Leandro Bay	1200	300		200	5	22+# danforth & chain	2	1	Bboat: very shallow draft	8		
3	2-351.1	Yerba Buena Island	3000				7	22+# w/ 20' 1/2" chain	3	1	3000' 1/2" anchor line	11		
4	2-309.2	San Leandro Bay	1500				4	22+# danforth	2	1		8		
4	2-310.1	Bay Farm Island Eelgrass Beds									Initial on-site assessment needed	1		
6	2-401.1	Pier 39	1600			700		tie boom to pilings/breakwall	1		boom tending for traffic	3	Per 2008 ACP	
		7-12 hours	2000	550	0	250	19			0		8	Deleting vessel sums throughout SPT	
12	2-353.1	Heron's Head Park - India Basin		200		200	12	12 stakes				2		
12	2-354.1	Islais Creek - Pier 94 Saltmarsh	1000			50	3	22+# danforths & stakes	1	1		3		
12	2-403.1	Crissey Field Tidal Marsh		300			1	12+/danforth w chain & 2 stakes		1		3		
12	2-415.1	Horsehoe Bay	1000				3	3/22# danforth		1	1 vac truck		Per 2011 ACP Draft	
		13-18 hours	8000	1950	0	600	29					29	Deleting vessel sums throughout SPT	
14	2-312.1	Oyster Point Bay		850			6	12#+ danforths + 4 stakes		2		4		
14	2-352.2	South Basin, Hunters Point	500				2	22+# danforth	1		shallow water Bboat	3		
18	2-454.1	Richmond Inner Harbor/Hoffman Marsh	2500	1100		200	6 - 8	22+# danforth, 15' 1/2 chain	2	2	1	Shallow draft boom boat.	8	Per 2008 ACP
18	2-480.2	Albany Marsh	1700			100	9	22+# danforth	2	1	1	Shallow	8	Per 2011 ACP
24	2-420.2	Richardson Bay Marshes	3300			300	6	22+# danforths + chain	2			6		

SHORELINE PROTECTION TABLE - S.F. SECTOR - CENTRAL SAN FRANCISCO BAY 8/2013

Type of or reason for change

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff	
		First 6 hours	12900	0	0	0	36			0		45	Deleting vessel sums throughout SPT but adding staff sum for first 6 hrs
3	2-304.1	Middle Harbor Shoreline Park	2500				7	7/22 + Danforth	2	1	SSS	7	Per 2011 ACP
3	2-351.1	Yerba Buena Island	3000				7	22#+ w/ 20' 1/2" chain	3	1	3000' 1/2" anchor line	11	
5	2-453.1	Brook's Island	2300				7	22+# danforths + chain	1	1	boom boat capable of withstanding grounding	4	
5	2-495.1	Emeryville Lagoon/Mudflats	3600				7	22#+ danforth + 15' chain	3	2		11	Per 2008 ACP
5	2-490.1	Berkeley Eelgrass Beds									Initial on-site assessment needed	1	

6	2-480.1	Albany Marsh	1500				8	22#+ danforths	2	2		very shallow Bboats , skimmers & stakes.	11	Per 2011 ACP Draft
		7-12 hours	3500	2500	4050	3300	36						40	Equip. changes per 2008 ACP; deleting vessel sums throughout SPT.
7	2-454.1	Richmond Inner Harbor/Hoffman Marsh	2500	1100		200	8	22#+ danforth, 15' 1/2 chain	2	2	1	Shallow draft boom boat.	8	Per 2011 ACP
9	2-234.2	Point Bonita and Bonita Cove			2000	OB*	10	40-60# Danforth	2				9	
9	2-236.2	Pt. Diablo to Lime Point			2000	OB*	8-10	40-60# Danforth	2				13	Per 2008 ACP
9	2-415.1	Horseshoe Bay	1000				3	3/22# Danforth		1		1 vac Truck	2	Per 2011 ACP
11	2-225.1	Redwood Creek/Big Lagoon/Muir Beach		200			2	small anchors or stakes					2	
11	2-228.1	Rodeo Lagoon		1200	50	OS	2100	6	small anchors or stakes		±2		6	Per 2008 ACP
		13-18 hours	8300	250	0		1550	25			0		31	Equip. changes per 2008 ACP; deleting vessel sums throughout SPT.
13	2-401.1	Pier 39	1600				700	tie boom to pilings/breakwall	1			boom tending for traffic	3	SPT 2006-2010 row order change only
13	2-451.1	Castro Rocks	3000				300	10 5/40+ northhill & 7/22+ danforth	3			maneuverable Bboats & 1500' line	11	SPT 2006-2010 row order change only
14	2-420.1	Richardson Bay Marshes	2700				300	12 22#+ danforths + chain	3	1		Bboats capable of shallows & obstructions	11	Equip. changes per 2008 ACP and SPT 2006-2010 row
14	2-506.1	San Pablo Bay Eelgrass Bed										Initial on-site assessment needed	1	Per 2008 ACP
15	2-353.1	Heron's Head Park - India Basin		200			200	12 stakes					2	Per 2008 ACP
15	2-354.1	Islais Creek - Pier 94 Saltmarsh	1000	50			50	3 22#+/danforths & stakes	1	1			3	
		19-24 hours	1500		0		0	4						Deleting vessel sums throughout SPT

SHORELINE PROTECTION TABLE - S.F. SECTOR - SAN PABLO BAY GRA 5 8/2013

Type of or reason for change

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff	
		First 6 hours	8500	1200	0	900	41			0		35	Deleting vessel sums throughout SPT but adding staff sum for first 6 hrs
3	2-452.2	Richmond Eelgrass Beds	2500				6 22# + chain	2	1			6	
4	2-501.1	Castro Creek and Marshes	4000				10 22#+/Danforth + 20' chain	4				12	
4	2-502.1	San Pablo Creek Marshes	2000				15 12#+ Danforth	2	2			10	SPT 2006-2010 row order change only
4	2-506.1	San Pablo Bay Eelgrass Bed									Initial on-site assessment needed.		SPT 2006-2010 row order change only
5	2-503.1	Pinole Pt. Marshes-South		900			900 8 12#+ Danforth anchors	1	1			5	
6	2-452.1	Richmond Eelgrass Beds		300			2 stakes or anchors	0	1			2	Updated Per 2011 ACP
		7-12 hours	8400	4900	0	6000	38			0		25	Deleting vessel sums throughout SPT
7	2-451.3	Castro Rocks	3000	2500			15 5/40#+ northhills & 10/22#+Danforths	3	1		maneuverable Bboats & 1500' line	11	
7	2-503.2	Pinole Pt. Marshes-South	5400			6000	16 22#+ danforth	2	1			8	
10	2-422.1	Keil Cove		2400			7 20#+ w 10' 1/2" chain	2			1,200 feet of 1/2" anchor rope	6	Per 2008 ACP
		13-24 hours	9000	3200	0	0	24			0		24	Equip. changes per 2008 ACP; deleting vessel sums throughout SPT.
13	2-451.2	Castro Rocks (flood tide, oil from S or SE)	6000				9 5/40 # Danforth and 4/22 # Danforth	3	1		maneuverable Bboats & 1500' line	11	Updated Per 2011 ACP
16	2-453.2	Brook's Island		3200			8 5/22#+/danforth & 3 stakes	1	1		boom boat capable of withstanding grounding	4	
24	2-427.1	Marin Islands	3000				7 22+/danforths + chain.	3				9	

SHORELINE PROTECTION TABLE - S.F. SECTOR - SUISUN BAY GRA 6 8/2013

Type of or reason for change

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff	
		First 6 hours	9500	3450	0	5100	104			0		56	Equip. changes per 2008 ACP; Deleting vessel sums throughout SPT but adding staff sum for first 6 hrs

2	2-605.2	Hastings Slough & Point Edith Marshes	2400				6	5/22#+/danforths + 20' chain	3				9	Per 2011 ACP
3	2-605.1	Hastings Slough & Point Edith Marshes	1500	1100		2300	38	5/22#+ & 11/12#+ danforth & 22 stakes	2	6			18	bboat: shallow, strandable. Stakes
3	2-607.1	Weapons Station Marshes & Seal Islands		1050		900	14	4/12#+/danforth & 10 stakes		1			2	Per 2011 ACP
4	2-603.1	Bulls Head marsh and Pacheco Creek	1100	400		1000	19	4/22#+ & 5/12#+ danforths & 10 stakes	1	2			7	SPT 2006-2010 row order change only
4	2-631.2	Roe Island	3000				7	75#+ danforth + heavy chain	3	1			9	SPT 2006-2010 row order change, Update per 2011 AC
5	2-608.1	Shore Acres Marsh		900		900	16	3#+ danforths & stakes	1	1			3	Per 2011 ACP
5	2-633.1	Middle Ground Island	1500				4	22#+ danforths & chain	2	1			8	
		7-12 hours	5500	5650		6500	105					0	48	Per 2011 ACP
7	2-702.1	Stake Point Marshes	2000			600	22	4/22#+ & 6/12#+/danforths stakes &	3-2	2			10	Per 2011 ACP
7	2-752.1	Chips Island, Southern Side	300	1200		300	30	30/12#+ danforths and stakes	2	1			8	Per 2011 ACP
8	2-601.2	Martinez Marsh	600				1	22#+/danforth + 20' chain	1				3	SPT 2006-2010 row order change only
8	2-673.1	Honker Bay East - Chipps Island Shore	400	1700		1000	15	3/22#+ & 4/12#+ danforth & 8 stakes	2	1			5	SPT 2006-2010 row order change; Update per 2011 AC
9	2-601.1	Martinez Marsh		250		1300	1	12#+ anchor & stakes		1			2	boat capable of shallow grounding
11	2-632.1	Ryer Island	2200	1900		3000	30	15/22#+ & 15/5#+/danforth 20 stakes	4	3			18	Per 2011 ACP
12	2-631.1	Roe Island		600		300	6	12#+/danforths & stakes		1			2	very shallow boat, draft airboat or hovercraft &
		13-18 hours	9000	3450	0	400	59					0	65	
13	2-667.1	Freeman & Snag Islands	1200	250			8	12#+/danforths & stakes	1	2			7	SPT 2006-2010 row order change only
13	2-705.1	Mallard Island	2200			400	12	825# & 4/15# danforth	3	2			14	SPT 2006-2010 row order and equip. change per 2008 ACP
14	2-667.2	Freeman & Snag Islands	1300				6	22#+/danforths & stakes	2				6	

SHORELINE PROTECTION TABLE - S.F. SECTOR - SUISUN BAY GRA 6, continued 8/2013

Type of or reason for change

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt	Boom Type	Sorbent Boom	Anchoring Systems No.	Kind	Boom Boats	Skiffs	Skimmers No.	Type	Special Equipment and Notes	Staff	Type of or reason for change
14	2-671.1	Honker Bay West - Wheeler Island Shore	1300	700				6	6/12#+/danforths & stakes	2	4				15	Per 2011 ACP
17	2-688.1	Dutton Island		2500				22							12	Per 2011 ACP
18	2-755.1	Spoonbill Creek	3000					5	22#+ danforth, 100' line, 30' chain	3	1				11	Per 2011 ACP
		18 - 24 hours ebb	19800	300	0		300	47				4			66	
19	2-660.1	Grizzly Bay	13000					26	22#+/danforth & chain	4	12			shallow draft boom boat - grounding capable	40	Per 2008 ACP (equip./staff totals may have carried over incorrectly into 2006 SPT)
20	2-672.1	Honker Bay North - Van Sickle Island	800	300			300	8	12#+ danforths	2	2	1	SSS		10	
20	2-712.1	Winter Island	6000					13	22#+/danforth anchors	4	2				16	Per 2011 ACP

SHORELINE PROTECTION TABLE - S.F. SECTOR - MONTEREY ANCHORAGE A 8/2013

Type of or reason for change

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt	Boom Type	Sorbent Boom	Anchoring Systems No.	Kind	Boom Boats	Skiffs	Skimmers No.	Type	Special Equipment and Notes	Staff	Type of or reason for change	
		First 6 hours	5400	0	0		0	10							12	Equip. changes per 2008 ACP; Deleting vessel sums throughout SPT but adding staff sum for first 6 hrs	
2	3-360.1	Monterey State Beach	on-water response only; no shoreline protection feasible														SPT 2006-2010 row order change

2	3-370.1	Monterey Harbor Entrance	2400				7	large Danforth, as needed	2			2 mooring weights with buoys	6	SPT 2006-2010 row order change and equip./staff changes per 2008 ACP
2	3-375.1	USCG Jetty in Monterey Bay	3000				3	large Danforth, as needed	2	1			6	SPT 2006-2010 row order and equip./staff changes per 2008 ACP
4	3-330.1	Monterey Bay Dunes	on-water response only; no shoreline protection feasible											
5	3-380.1	Point Cabrillo	on-water response only; no shoreline protection feasible											
		7 - 18 hours	0	2000	0	0	8					0	10	Deleting vessel sums throughout SPT
10	3-345.1	Marina St. Beach	on-water response only; no shoreline protection feasible											
16	3-340.2	Salinas River Inlet		2000			8	4 Stakes & 4 Danforths	1				10	Site number correction per 2008 ACP, update per 2011
17	3-325.1	Salinas River State Beach	on-water response only; no shoreline protection feasible											
		19-24 hours	3000	1600		4200	19						10	Deleting vessel sums throughout SPT
19	3-305.1	Moss Landing Inlet	3000	1600		OS*	3000	13		1	1		5	Anchor posts or stakes Per 2011 ACP
19	3-310.1	Elkhorn Slough				OS*	1200	6		1	1		5	Anchor posts or stakes Per 2011 ACP
23	3-301.1	Zmudowski Beach St. Park	on-water response only; no shoreline protection feasible											

SHORELINE PROTECTION TABLE - CENTRAL COAST - PT BUCHON / MORRO BAY AREA 8/2013														Type of or reason for change
Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind		Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff	
		First 6 hours	8700	1000	0	5100	18						56	Equip. changes per 2008 ACP; Deleting vessel sums throughout SPT but adding staff sum for first 6 hrs
2	4-310.2	Islay Creek		100			2	small anchors or stakes			1	SSS	4	Per 2011 ACP
2	4-315.1	Lion Rock	on-water response only; no shoreline protection feasible											
3	4-300.1	Morro Bay Sand Spit	on-water response only; no shoreline protection feasible											
4	4-150.1	Morro Rock	on-water response only; no shoreline protection feasible											
4	4-200.1	Morro Bay Inlet	2000				2	40 lb. Anchors	2		1	SFS/SPS	6	Per 2011 ACP
4	4-200.2	Morro Bay Inlet	2000				2	40 lb. Anchors	2		1	SSS/SPS	6	Per 2011 ACP
4	4-200.3	Morro Bay Inlet	3500				2	40 lb. Anchors	2		1	SFS/SPS	6	Per 2011 ACP
5	4-215.1	Morro Bay St. Park Marina	1200				2	40 lb. Anchors		2	1	SFS	6	Per 2011 ACP Draft
5	4-220.1	Morro Bay Marsh Habitat				5000				2	1	SFS	6	Per 2011 ACP
5	4-225.1	Chorro Creek Inlet				50					1	SSS	4	Per 2011 ACP
5	4-230.1	Los Osos Creek Inlet				50					1	SSS	4	Per 2011 ACP
5	4-235.2	Sweet Springs Marsh		50 300			2	small anchors or stakes			1	SSS	4	Per 2011 ACP
5	4-240.1	Cuesta by the Sea Inlet		200			2				1	SSS	4	Per 2011 ACP
6	4-130.1	Morro Strand State Beach - North	on-water response only; no shoreline protection feasible											
6	4-130.2	Morro Strand State Beach - North/Willow Creek		100			2	small anchors or stakes			1	SSS	2	Per 2011 ACP
6	4-135.2	Torro Creek		300			2						4	Per 2011 ACP
6	4-140.1	Morro Strand State Beach - South	on-water response only; no shoreline protection feasible											
6	4-145.1	Morro Strand State Beach - Pismo Clam Preserve	on-water response only; no shoreline protection feasible											
		7 - 24 hours	1000	600	0	0	6						16	Equip. changes per 2008 ACP; Deleting vessel sums throughout SPT
18	4-120.1	Cayucos Point & San Geronimo Creek	on-water response only; no shoreline protection feasible											
18	4-115.2	Villa Creek Inlet and Beach		300			2	small anchors or stakes			1	SSS	2	SPT 2006-2010 row order change. E equip./staff changes per 2011 ACP
18	4-115.5	Villa Creek Inlet and Beach	on-water response only; no shoreline protection feasible											
18	4-120.1	Cayucos Point & San Geronimo Creek	on-water response only; no shoreline protection feasible											
18	4-120.3	Cayucos Point & San Geronimo Creek		100			2	small anchors or stakes			1	SSS	4	Per 2011 ACP
18	4-125.2	Cayucos Creek Inlet		200			2	small anchors or stakes			1	SSS	4	Per 2011 ACP
24	4-320.1	Diablo Canyon Pwr Plant	1000						2	2		SFS	6	Per 2011 ACP

SHORELINE PROTECTION TABLE - SANTA BARBARA CHANNEL / PT CONCEPTION 8/2013														Type of or reason for change
Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff		
First 6 hours			0	400	0	395	13			0		18	Equip. changes per 2008 ACP; Deleting vessel sums throughout SPT but adding staff sum for first 6 hrs	
2	4-567.1	Pt. Conception/Government Pt.	on-water response only; no shoreline protection feasible											
4	4-570.1	Damsite Canyon Creek		100		80	5				1 FE Loader, 3 culvert, 20 sandbags, 10 skakes, 1roll plastic, 1 stake driver, 20' construction fencing	5	Per 2011 ACP	
4	4-572.1	San Augustine Creek				15					20 Sand Bags, 1 Roll Plastic, 3 Culverts, 15 Stakes, 1 hand tool	3	Per 2011 ACP	
4	4-575.1	Arroyo El Bolito		100		100	4				1 FE Loader, 1 Roll Plastic, 3 Culverts, 20 Sand Bags, 15 Stakes, 1 stake driver, 10' construction fencing, 1 hand tool	5	Per 2011 ACP	
5	4-580.1	Canada De Santa Anita (Creek)		200		200	4				1 FE Loader, 1 Roll Plastic, 3 Culverts, 20 Sand Bags, 15 Stakes, 1 stake driver, 10' construction fencing, 1 hand tool	5	Per 2011 ACP	
7-12 hours			0	800	0	800	12			0		15	Deleting vessel sums throughout SPT	
8	4-585.1	Canada De Alegria		200		200	4				1 FE Loader, 1 Roll Plastic, 3 Culverts, 20 Sand Bags, 15 Stakes, 1 stake driver, 10' construction fencing, 1 hand tool	5	Per 2011 ACP	
11	4-590.1	Canada Del Agua Caliente		200		200	4				1 FE Loader, 1 Roll Plastic, 3 Culverts, 20 Sand Bags, 15 Stakes, 1 stake driver, 10' construction fencing, 1 hand tool	5	Per 2011 ACP	
11	4-601.1	Gaviota Creek		400		400	4				1 FE Loader, 1 Roll Plastic, 3 Culverts, 20 Sand Bags, 15 Stakes, 1 stake driver, 10' construction fencing, 1 hand tool	5	Per 2011 ACP	
13-24 hours			0	400	0	400	8			0		10	Deleting vessel sums throughout SPT	
13	4-605.1	Canada Del Alcatraz & Cementario Cks					4				50 Sand Bags, 1 Roll Plastic, 3 Culverts, 1 hand tool	5	Per 2011 ACP	
18	4-610.1	Refugio Creek		400		400	4				1 FE Loader, 1 Roll Plastic, 3 Culverts, 20 Sand Bags, 15 Stakes, 1 stake driver, 10' construction fencing, 1 hand tool	5	Per 2011 ACP	

SHORELINE PROTECTION TABLE - PORT HUENEME RELEASE 8/2013														Type of or reason for change
Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff		
First 6 hours			5400	0	0	2500	16			0		12	Deleting vessel sums throughout SPT but adding staff sum for first 6 hrs	
2	4-775.1	Channel Islands Harbor	3000			1500	8	2	2	1	(1) 20-yd waste bin, 1 portable oil storage tank	6	Per 2011 ACP	
2	4-780.1	Port Hueneme	2400			1000	8	2	2	1	(1) 20-yd waste bin, 1 portable oil storage tank	6	Per 2008 ACP	
7 to 18 hours			2000	3000	0	3000	27			4		30	Deleting vessel sums throughout SPT	
8	4-750.1	Santa Clara River Estuary		1500		1000	6				1 FE loader, 1 roll plastic, 40 sand bags, 6 culverts, 150 stakes, 3 stake drivers, 40' construction fencing, (1) 20 yd waste bin, 1 portable oil storage tank, 1 hand tool	10	Per 2008 ACP	
9	4-747.1	Ventura Harbor	2000			1000	15	2	2	1	(1) 20-yd waste bin, 1 portable oil storage tank	10	Per 2008 ACP	
10	4-783.1	Ormond Beach Wetlands & State Beach		1500		1000	6				1 FE loader, 1 roll plastic, 40 sand bags, 6 culverts, 150 stakes, 3 stake drivers, 40' construction fencing, (1) 20 yd waste bin, 1 portable	10	Per 2008 ACP	
19 - 24 hours			0	1000	0	1000	6			0		7	Deleting vessel sums throughout SPT. Sorbent boom summed incorrectly in 2006 SPT.	
19	4-740.1	Ventura River Mouth		1000		1000	6		1		1 FE loader, 1 roll plastic, 40 sand bags, 6 culverts, 100 stakes, 3 stake drivers, 40' construction fencing, (1) 20 yd waste bin, 1 portable	7	Per 2008 ACP	

SHORELINE PROTECTION TABLE - LA / LB HARBOR BREAKWATER 8/2013														Type of or reason for change
---	--	--	--	--	--	--	--	--	--	--	--	--	--	------------------------------

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff	
		First 6 hours	5400	0	0	0	9					10	Deleting vessel sums throughout SPT but adding staff sum for first 6 hrs
5	5-260.1	Alamitos Bay/Los Cerritos Wetlands	800					1				2	
6	5-310.1	Anaheim Bay (Seal Beach NWL Refuge)	1500				4 Danforth 40lb	1				4	
6	5-310.2	Anaheim Bay (Seal Beach NWL Refuge)	3100				5 Danforth 40lb	1				4	
		7- 12 hours	4200	0		200	8					10	Deleting vessel sums throughout SPT
7	5-230.1	Middle Breakwater									On-water recovery/ART		Per 2011 ACP
7	5-240.1	Long Beach Harbor Breakwater									On-water recovery/ART		Per 2011 ACP
7	5-250.1	Golden Shore Marine Reserve	200			200						2	
8	5-250.2	Golden Shore Marine Reserve	2000				4 Danforth 40lb	1				4	
12	5-320.1	Bolsa Chica	2000				4 Danforth 40lb	1				4	
		13 - 24 hours	0	0			0						Deleting vessel sums throughout SPT
24	5-220.1	Los Angeles Harbor Breakwater									On-water recovery/ART		Per 2011 ACP

SHORELINE PROTECTION TABLE - SAN DIEGO BAY AT MOUTH 8/2013													Type of or reason for change
Protect by hour	Strategy or Site Number	Site/Strategy Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff	
		First 6 hours	6000	0	0	0	12					8	Deleting vessel sums throughout SPT but adding staff sum for first 6 hrs. Anchor systems summed incorrectly in 2006 SPT.
3	6-400.6*	Shelter Island Deflection boom	3500				8 heavy anchor systems	2				4	
4	6-400.7*	North Island Collection boom	2500				4	1				4	Per 2008 and 2011 ACPs
* up to 2000 ft of containment boom required to meet the 2 hour on-water containment requirement can be utilized													
		7 - 12 hours	1700	0	0	0	11					7	Harbor boom and anchors summed incorrectly in 2006 SPT. Deleting vessel sums throughout SPT.
7	6-415.1	Navy Magnetic Silencing Facility	1500				3	1				3	Per 2011 ACP
12	6-420.1	Cross Bay Boom	2000				8 med weight anchor systems	2				4	
		13 - 24 hours	6000	6700	0	0	28					35	Equip. changes per 2006 ACP, incorrect 2006 SPT swamp boom total corrected, vessel sums deleted throughout SPT. Per 2011 ACP draft.
16	6-430.2	USN Delta Beach	1500				6 light wt anchor systems	2				6	
16	6-435.2	Paradise Marsh	500										Per 2011 ACP
24	6-440.2	Sweetwater River NWL Refuge		6500			14 light wt anchor systems	2				6	
24	6-450.2	Chula Vista Wildlife Reserve	4000				4 light wt anchor systems	2				4	Per 2008 ACP, combine with 6-445.2
24	6-455.2	South Bay NWL Refuge and Otay River		200			4 light wt anchor systems		1		close flood gates	4	Per 2008 ACP
24	6-460.2	Emory Cove Marsh									300 sand bags, 15 shovels and sand	15	Per 2008 ACP

SHORELINE PROTECTION TABLE - SAN DIEGO BAY AT CORONADO BRIDGE 8/2013													Type of or reason for change
Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff	

Small Harbor BAP Shoreline Requirements for Small Vessel Response Plans 8/2013

Harbor	deploy by hour	Strategy* or Site Number	Site Name / location	Harbor Boom*	Swamp Boom*	Sorbent Boom*	Anchor No.	Systems* Kind	Boom* Boats	Skiffs	Skimmers No.	Type*	Special Equipment and Notes	Staff
Crescent City	3	as needed	Crescent City	1000		200	4	Danforth anchoring systems	1				oil sweep can be substituted for sorbent boom	3
Shelter Cove	3	as needed	Shelter Cove		1000	200	4	Danforth anchoring systems		1			oil sweep can be substituted for sorbent boom	3
Fort Bragg	3	as needed	Noyo Harbor		1000	200	4	Danforth anchoring systems		1			oil sweep can be substituted for sorbent boom	3
Albion	3	as needed	Albion		1000	200	8	Danforth anchoring systems		1			oil sweep can be substituted for sorbent boom	3
Bodega Bay	3	2-118.2	Bodega Harbor	1800			12	22+ lb danforths	2	1			shoreside skimmer	8
	3	as needed	Bodega Harbor		1000	200	4	anchoring systems						
Bolinas	3	2-146.1	Bolinas Lagoon		3000	200	8	4x12+# anchors + 4 stakes		3				6
Pillar Point	3	2-162.4	Pillar Point Marsh & Denniston Creek	500			9	2/50+ & 7/22 danforths + chains	1	1				5
	3	as needed	Pillar Point Marsh & Denniston Creek		1000	200	4	anchoring systems						
	7	2-162.4	Pillar Point Marsh & Denniston Creek								1	SPS		
Santa Cruz	3	3-220.1	Santa Cruz Harbor Entrance	2500			7	Danforth anchoring systems	3		1	SPS	skimmer with 3 staff	11
	7	3-210.1	San Lorenzo River Inlet		800	400	9	Danforth anchoring systems				SSS	600' 6" PVC pipe or berm	20
Moss Landing	3	as needed			1000	200	4	Danforth anchoring systems		1				3
	7	3-305.1	Moss Landing Inlet	5500	1600	2000 OS	10	7 Stakes & 3 Danforth	4		3	SSS	Share VSW boom boats + Elkhorn Slough crew.	20
	7	3-310.1	Elkhorn Slough		6000	12000 OS	8	4 Stakes & 4 Danforth as needed	2				Remark: backup to Moss Landing - one or more chevrons. VSW boomboat	10
Morro Bay	3	4-200.2	Morro Bay Inlet	2000			2	40 lb. Anchors	2		1	SFS		6
	7	4-225.1	Chorro Creek Inlet			50	2	small anchors or stakes			1	SSS	fence posts	4
	7	4-230.1	Los Osos Creek Inlet			50	2	small anchors or stakes			1	SSS		4
	7	4-235.2	Sweet Springs Marsh		300		2	small anchors or stakes			1	SSS	fence posts	4
	7	4-240.1	Cuesta by the Sea Inlet		200		2	small anchors or stakes			1	SSS		4
Port San Luis / Avilla	3	4-335	Port San Luis / Avilla	on-water response only: no									on-water response only; no shoreline protection feasible	
Santa Barbara Harbor	3	4-665.1	Santa Barbara Harbor	4000	0	2500	2	anchoring systems	2	1	1		(1) 20 yd waste bin, 1 portable oil storage tank	10
	7	4-670.2	Mission Creek / Laguna Channel		1600	1600	8	anchoring systems					160 stakes, 2 stake drivers, (1) 4wd vehicle	8
	7	4-672.2	Sycamore Creek and Andre Clark Bird Refuge		400	400	8	anchoring systems					160 stakes, 2 stake drivers, (1) 4wd vehicle	8
Ventura Harbor	3	4-747.1	Ventura Harbor	2000		1000	15	anchoring systems	2	2	1		(1) 20 yd waste bin, 1 portable oil storage tank	10
	3	4-750.1	Santa Clara River estuary		1500	1000	6	anchoring systems		4			1 FE loader, 1 roll plastic, 6 culverts, 40 sand bags, 150 stakes, 3 stake drivers, 40' construction fencing, (1) 20 yd waste bin, 1 portable oil storage tank, 1	10
Channel Islands Harbor	3	4-775.1	Channel Islands Harbor	3000		1500	8	anchoring systems	2	2	1		(1) 20 yd waste bin, 1 portable oil storage tank	6
Marina Del Rey	3	as needed	Marina Del Rey		1000	200	3	anchoring systems	1					3
	3	5-140.1	Ballona Creek	500			1	40 lb Danforth anchoring systems	1					4
	3	5-150.1	Ballona Lagoon Wetlands										Close Tidal Gates.	1
	3	5-150.2	Ballona Wetlands										Block Culvert. Sandbags/Inflatable Plug	2
King Harbor	3	as needed	King Harbor		1000	200	4	anchoring systems		1				3
Dana Point	3	as needed	Dana Point Harbor		1000	200	4	anchoring systems		1				2
	3	5-390.2	San Juan Creek										1000' of Filter Barrier Fencing and posts.	10
Newport Bay Harbor	3	5-360.1	Lower Newport Bay	2000			5	anchoring systems	1					4
	7	5-365.1	Upper Newport Bay	1000			4	anchoring systems	1					4
Oceanside/Carlsbad	3	as needed	Oceanside & Carlsbad harbors		1000		4	anchoring systems						3
	7	6-145.2	Santa Margarita River	3000			8	anchoring systems	2					8
Mission Bay	3	6-200.1	Mission Bay entrance	800			2	anchoring systems			1			4
	3	6-200.2	Mission Bay entrance	700			2	anchoring systems			1			3
	3	6-200.3	Mission Bay entrance	400			1	anchoring systems			1			2
	7	as needed	Mission Bay		5000		12	anchoring systems		2				4

Glossary of Terms Used in the BAP Shoreline Protection Tables

August 29, 2013

Anchoring Systems – Anchoring systems refer to anchors, stakes and other devices necessary to secure booms and other mechanically deployed protection measures. When used to identify anchors, whether expressly stated or not, anchoring systems must be sufficient to hold boom in the aggressive currents such as are common to SF Bay and other California estuaries. Typically systems are presented as a number of anchors and minimal weight (e.g., 3/12+ - means three anchors of a minimum of 12 lbs each) with at least an equal weight of anchor chain weight whether specified or not; without substantial anchor chain weight, anchors will not hold. To insure successful anchoring, the anchoring system should include: anchors with anchor buoys to control placement, anchor chains which equal or exceed the weight of anchors, enough line to produce adequate scope to hold anchors (rule of thumb is 3:1 (line to depth), but 5-7:1 for high current areas), and a crown buoy between anchor line and boom to keep the anchor from sinking the boom under strong currents.

BBoat – see Boom Boat

Boom Boats - a boat suitable for transporting, towing and deploying large amounts of boom, usually crewed with a helmsman and two crew for deployment. Numbers of such boats usually are referenced in terms of boom boat equivalent (BBE). BBE is the capability of a vessel to transport and deploy 600 feet of Harbor Boom or 1800 ft of Swamp Boom. Actual vessels may be capable of transporting greater or lesser amounts of boom. Boom boats must be capable of grounding without sustaining damage. (Also see Shallow Water Boom Boats and Very Shallow Water Boom Boats.)

Danforth - refers to “danforth anchors” with chain. Northill anchors and other anchor types which “dig in” are equivalent.

FELoader – Front-end-loader or skip-loader: mechanical equipment with mechanical scoop or bucket for moving sediment.

GNOME – General NOAA Oil Spill Modeling Environment

Harbor Boom - an inland waters type boom (greater than 18" and less than 42" overall (flotation and skirt)) of a curtain boom design (skirted boom with solid flotation). Early strategies attempted to clarify boom size by indicating flotation and skirt as follows: 9X9+ which indicated a boom with at least 9" of flotation and 9" of skirt, and would now be interpreted as at least 18" overall. This boom type typically has strength members (steel cable and chain) in both upper and lower margins.

Protect By Hour – the hour after the release when the site must be protected to insure that the site protection is in place before the oil is likely to impact. Generally, this time is about an hour prior to impact, but may be otherwise due to uncertainty of impact time.

Other Boom – is any boom other than harbor boom, swamp boom, or sorbent boom. This term is used to simplify equipment tables. A type designator should be used as well as a length. Type designators include:

TB or **TBB** – tidal barrier boom or Texas barrier boom

OB – ocean boom

OS – oil snare

SWEP – oil sweep: sorbent pads in continuous strips

Shallow Water – less than three feet of water

Shallow Water Boom Boats - a boom boat capable of working in three feet of water or less, and should be able to withstand stranding without sustaining damage.

Skiff - a small two person craft able to operate in 3 foot waves or larger and capable of delivering personnel and equipment to shores.

Skimmer – refers to a skimming system. A skimming system includes a collection device (such as a weir, rope-mop, drum, or other skimming design to separate oil from the aqueous environment), storage for collected material, power supply to power such a system, and all the hoses and connectors necessary for system operation. Types of skimmers refer to the configuration of the deployment of such systems rather than a particular device or manufacturer.

SFS - stationary floating skimmer - a floating platform supporting a skimmer and storage.

SPS - self-propelled skimmer - a small to medium sized skimmer with its own propulsion and storage.

SSS - shore side skimmer, includes a skimming unit, such as a rope-mop or weir skimmer and its support pack and a storage container such as a vacuum truck, baker tank, or other tank.

SWS – Shallow Water Skimmers - Skimmers capable of operating in less than two feet of water.

Towed Skimming Array - a skimming system with two boats towing collection booms connected to a skimmer (in a “V” formation) to funnel oil to the skimmer and may be referred to with the acronyms TSA and VSA.

TSA – (towed skimming array as above) – a skimming array with two boats towing collection booms which funnel oil to a skimming system, of either SPS or SFS design.

VSA – “V”-Skimming Array -Same as TSA

OSRV – Oil Spill Response Vessel. A large **self-powered** vessel dedicated to oil spill skimming and response
VOSS – Vessel of Opportunity Skimming System – Usually moderate to large vessel which can be equipped with a skimming device and storage to create a mobile on-water skimmer capable of operating in local conditions and waters.

Sorbent Boom – sorbents in a boom or sausage-like construction with or without a skirt.

Strategy or Site Number – deployments are listed in the Area Contingency Plan by a site number or as a strategy number which includes the site number.

Swamp Boom - a river boom type (less than 18" overall, usually less than 12" overall) of a curtain boom design. Usually this boom has much lighter strength members, commonly only a single chain in the skirt. This boom is suitable for modest currents and locations without waves.

VSW – very shallow water

Very Shallow Water – less than two feet of water

Very Shallow Water Boom Boats - a boom boat capable of working in two feet of water or less, and should be able to withstand stranding without sustaining damage.