

					CURRENT / SECURED				NEEDS FOR IMPLEMENTATION		
Action #	CCMP Action	CCMP Next Step(s) / Project Activity Name	Lead Entity(ies)	Partner(s)	SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Total Est. Cost
1	Acquire open space for preservation of habitat and ecological services	Continued participation on resources agency Technical Advisory Committees	SMBRC	Resources Agency	\$ -	N/A	\$ -	N/A	\$ 70,000 (low confidence)	State Waterboards	\$ 70,000
		* Bond funded acquisitions	Trust for Public Land	SMBRC, SMMC, MRCA, NPS, State Parks, MRT, Trust for Public Land	\$ 350,000	SCC Prop. 12	\$ 1,850,000	CNRA, SMMC (Prop 68), Los Angeles County	\$ - (high confidence)	SCC	\$ 2,200,000
		Support partners in identification and prioritization of key acquisition or conservation easement properties	SMBRC	SMMC, MRCA, NPS, State Parks, RCDSMM, MRT	\$ -	N/A	\$ -	N/A	\$ 70,000 (low confidence)	State Waterboards	\$ 70,000
2	Restore kelp forests in the Bay to improve the extent and condition of the habitat	Implement the rocky reef/kelp forest restoration project	TBF	NOAA, MSRP trustees, NMFS, Vantuna Research Group, Commercial Sea Urchin Harvesters	\$ 193,500	NFWF, US EPA	\$ -	N/A	\$ 1,600,000 (low confidence)	NFWF, OPC, Prop 68, SCC, NOAA	\$ 1,793,500
		Biological response monitoring of restoration areas	TBF	VRG	\$ -				\$ 200,000 (low confidence)		\$ 200,000

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		Develop recommendations for the deposition of materials from Rindge Dam or other suitable sources to augment sediment supply	State Parks	TBF, VRG, others							\$ -
		Conduct carbon sequestration assessment of kelp restoration project	TBF	CRI, other universities							\$ -
3	Recover abalone populations in the Santa Monica Bay and region to support rare species and socioeconomic benefits to people	Establish abalone outplanting sites and conduct juvenile and larval outplanting	TBF	NOAA, NMFS, Cal Poly Pomona, SCMI, NFWF Bodega Marine Lab, SFSC, Paua Marine Research Group	\$ 351,000	NOAA NMFS	\$ -	Scientific and diver support; equipment donated	\$ 100,000 (moderate confidence)	NOAA NMFS, Propositions, others	\$ 451,000

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		Monitor abalone restoration and reference sites	TBF	NOAA, NMFS, Cal Poly Pomona, SCMI, NFWF Bodega Marine Lab, SFSC, Paua Marine Research Group	\$ 351,000	NOAA NMFS	\$ -	N/A	\$ 100,000 (moderate confidence)	NOAA NMFS, Prop 50, others	\$ 451,000
		Captive spawn abalone	TBF	SCMI, NOAA, NMFS, Cal Poly Pomona	\$ 51,000	NOAA NMFS	\$ -	N/A	\$ 12,000 (moderate confidence)	NOAA NMFS, others	\$ 63,000
		Maintain aquaculture facility for abalone	TBF	SCMI, NOAA, NMFS, Cal Poly Pomona	\$ 301,000	NOAA NMFS	\$ -	N/A	\$ 75,000 (moderate confidence)	NOAA NMFS, others	\$ 376,000
4	Assess and restore seagrass habitats in the Santa Monica Bay and nearshore environments to benefit marine ecosystems	Survey the extent and condition of seagrasses in the Bay using R2Deep2, side-scan sonar, and SCUBA divers to inform the Comprehensive Monitoring Program	TBF	SCC, CRI, others	\$ 5,000	US EPA	\$ 10,000	Equipment donated, scientist support	\$ 500,000 (moderate confidence)	Prop. 50	\$ 515,000

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	and improve coastal resilience	* Develop restoration methods for eelgrass ( <i>Zostera pacifica</i> ) in the Santa Monica Bay	TBF	SCC, CRI, NOAA, others	\$ 5,000	US EPA	\$ 10,000	Equipment donated, scientist support, LMU match	\$ 50,000 (moderate confidence)	SeaGrant, OPC, SCC, others	\$ 65,000
		* Conduct pilot restoration project(s) of offshore eelgrass in the Bay	TBF	SCC, CRI, NOAA, others	\$ 325,000	SCC	\$ 25,000	Equipment donated, scientist support	\$ 700,000 (moderate confidence)	SCC, NOAA, TNC, private, others	\$ 1,050,000
		* Evaluate restoration potential of seagrasses in the Bay, harbor, wetlands, and nearshore environments	TBF	NOAA, CRI, UCLA	\$ 5,000	US EPA	\$ 10,000	Equipment donated, scientist support, LMU match	\$ 150,000 (moderate confidence)	SeaGrant, NOAA, OPC, SCC, others	\$ 165,000
		Contribute to better understanding of <i>Ruppia maritima</i> habitat requirements and functions	TBF	CRI, UCLA, NOAA	\$ 1,000	US EPA	\$ 5,000	Equipment donated, scientist support	\$ 25,000 (moderate confidence)	SeaGrant, NOAA, OPC, SCC, others	\$ 31,000

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5	Assess and implement offshore artificial reefs to benefit marine ecosystems and provide socioeconomic benefits to people	* Implement rocky reef restoration project off Palos Verdes	VRG	SCMI, Vantuna Research Group, PV MSRP, NOAA, SCC, TBF	\$ 1,150,000	SCC Prop. 12	\$ 5,850,000	Montrose Settlements Restoration Program	\$ - (high confidence)	N/A	\$ 7,000,000
		* Annual monitoring with the use of side scan sonar and SCUBA based surveys	VRG	Vantuna Research Group, PV MSRP, NOAA, TBF, CRI	\$ -	N/A	\$ -	N/A	\$ 1,400,000 (moderate confidence)	Prop 50, others	\$ 1,400,000
		Preliminary work regarding the benefits of dynamic revetments and nearshore reefs	VRG	TBF, CRI, others	\$ -	N/A	\$ -	N/A			\$ -
6	Restore coastal strand and foredune habitat to beaches and sandy shores to improve	Continue long-term monitoring of the Santa Monica Beach Restoration Pilot Project	TBF	City of Santa Monica, State Parks, Audubon	\$ 5,000	US EPA	\$ 4,000	Volunteer events; scientist support; equipment donated	\$ 25,000 (moderate confidence)	EPA, City of Santa Monica, Patagonia	\$ 34,000

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	coastal resilience	Conduct Phase 1 (outreach and planning) and Phase 2 (implementation) of the Malibu Living Shoreline Project	TBF	City of Malibu, LACDBH, SCC	\$ 205,000	SCC, US EPA	\$ 100,000	Volunteer events; scientist and partner support; equipment donated	\$ 20,000 (moderate confidence)	EPA, LACDBH, City of Malibu, SCC	\$ 325,000
		* Find funding for and implement another beach and bluff restoration project	TBF	City of LA, SCC, City of Manhattan Beach, City of Malibu, LACDBH	\$ 239,000	SCC, Honda Marine Science Foundation	\$ 26,000	Volunteer events; scientist and partner support; equipment donated	\$ 400,000 (high confidence)	SCC	\$ 665,000
		Support efforts to standardize sandy beach monitoring and a regional approach to restoration	TBF	Beach Ecology Coalition, CRI, SCC, others	\$ 6,000	EPA, SCC, CRI	\$ 10,000	Volunteer events; scientist support; equipment donated	\$ 250,000 (low confidence)	CRI, research grants, TBD	\$ 266,000
7	Restore and maintain the entire LAX Dunes system to support	Conduct community restoration events in the northern 48-acre dune area	TBF	LAWA, FOLD, SCC, CCC	\$ 16,000	LAWA	\$ 25,000	CRI interns; volunteer events	\$ 50,000 (moderate confidence)	SCC, others	\$ 91,000

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	native plants, wildlife, and rare species	Support LAWA in long-term maintenance and adaptive management of the 48-acre northern dune area	TBF	LAWA, LACC, RSABG, Psomas, CRC, IOEI	\$ 421,000	LAWA	\$ 5,000	CRI interns; volunteer events; equipment donated	\$ 300,000 (moderate confidence)	LAWA, restoration grants, others	\$ 726,000
		Engage underserved students and volunteers and inland communities	TBF	LAWA, SCC, LACC	\$ 6,000	LAWA	\$ 5,000	CRI interns; volunteer events	\$ 25,000 (moderate confidence)	SCC, others	\$ 36,000
		* Initiate planning for areas within the adjacent dunes, including baseline monitoring	TBF	LAWA, LACC, RSABG, Psomas, CRC, IOEI, CRI	\$ 61,000	LAWA	\$ -	SCRI interns; scientists support; equipment donated	\$ 500,000 (low confidence)	USFWS, LAWA, SCC, others	\$ 561,000
8	Restore coastal bluff habitats in the Bay watershed to support ecosystem services	* Use Beach Bluff Restoration Master Plan to explore bluff restoration and continue recovery of El Segundo Blue Butterfly	TBF	USFWS, CDFW, LAWA, City of LA, Friends of Ballona, PVPLC, others	\$ 500	US EPA	\$ 10,000	scientist support, partner support	\$ 150,000 (moderate confidence)	USFWS, SCC, municipalities, Prop. 68, others	\$ 160,500

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		* Identify partners and funding to support bluff restoration projects	TBF	PVPLC, State Parks, many others	\$ 1,000	US EPA	\$ 1,500	scientist support, partner support	\$ 5,000 (low confidence)	USFWS, others	\$ 7,500
		* Initiate restoration of one bluff restoration project	PVPLC	SCC, TBF, City of LA, LADBH, USFWS	\$ 201,000	SCC Prop. 12	\$ 280,000	NRCS, PVPLC, REI	\$ 400,000 (moderate confidence)	Propositions, others	\$ 881,000
		Initiate Pt. Dume stair replacement and bluff restoration project to benefit people and wildlife	State Parks	TBD	\$ 400,000	State Parks	\$ -	State Parks	\$ - (high confidence)	N/A	\$ 400,000
9	Implement Malibu Creek Ecosystem Restoration Project (Rindge Dam and other barrier removals) to support ecosystem restoration	Support lead agencies in efforts to complete the design and engineering plans for the Malibu Creek Ecosystem Restoration Project	State Parks, Army Corps	TBF, RCDSMM, others	\$ -				\$ 70,000 (high confidence)	State Waterboards	\$ 70,000
		Support lead agencies in identifying and obtaining funding for the project	State Parks, Army Corps	TBF, RCDSMM, others	\$ -				\$ 35,000 (moderate confidence)	State Waterboards	\$ 35,000

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10	Remove additional barriers to support fish migration and ecosystem services	Identify, prioritize, and acquire funding for barrier removal projects	RCDSMM, State Parks, NPS	many							\$ -
		Implement priority barrier removal projects	RCDSMM, State Parks, NPS	many							\$ -
11	Restore urban streams, including daylighting culverted streams, removing cement channels, and restoring riparian habitats	Identify additional urban streams for restoration and prioritize	State Parks, NPS	Municipalities, USC Sea Grant, others							\$ -
		Implement urban stream restoration projects	Municipalities								\$ -
12	Restore smaller coastal lagoons and other wetland types to increase wetland	Complete the final post-restoration assessment of the Malibu Lagoon Restoration and Enhancement Project	TBF	State Parks	\$ 5,000	US EPA	\$ 5,000	State Parks, scientist support, equipment donated, volunteers	\$ 15,000 (moderate confidence)	State Parks, Prop 50, others	\$ 25,000

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	habitat area and condition throughout the watershed	Finalize restoration planning and permitting for Topanga Lagoon restoration project and initiate project	State Parks	SCC, RCDSMM, CalTrans, Army Corps, City of Malibu	\$ 460,000	SCC Prop. 12	\$ 200,000	RCDSMM, State Parks	\$ 1,200,000 (moderate confidence)	Propositions, others	\$ 1,860,000
		Complete land acquisition, feasibility analyses, and restoration design in coordination with bridge redevelopment for Trancas Lagoon	State Parks	SCC, RCDSMM, CalTrans, Army Corps	\$ -						\$ -
		Conduct comprehensive monitoring of small lagoons in northern Bay to inform CMP and seek funding to continue Malibu Lagoon monitoring	TBF	Moss Landing Marine Labs, SCCWRP, CRI, State Parks, RCDSMM	\$ 5,000	US EPA	\$ -	CRI, universities, State Parks, RCDSMM, scientist support, volunteers	\$ 500,000 (moderate confidence)	Prop. 50	\$ 505,000

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		Assess restoration options and priorities for other wetland types (e.g. freshwater systems)	Municipalities	many	\$ -	N/A	\$ -	N/A	\$ 250,000 (low confidence)	Prop. 50, others	\$ 250,000
13	Restore Ballona Wetlands Ecological Reserve to enhance wetland habitats and benefits to people	Support the lead agencies by contributing technical information to the Final Environmental Impact Statement and Report and permitting	CDFW	CDFW, Army Corps, TBF	\$ 1,000	US EPA	\$ -	Scientist and agency support	\$ 4,000 (moderate confidence)	US EPA	\$ 5,000
		Continue community engagement and hand-restoration within the Reserve with FBW	TBF	CDFW, Friends of Ballona Wetlands, SCC	\$ 105,000	SCC, NFWF	\$ -	Volunteer events; scientist support; equipment donated	\$ 25,000 (moderate confidence)	Volunteers, US EPA, TBD	\$ 130,000
		Support lead agencies to identify and obtain restoration funding	CDFW	CDFW, Army Corps, TBF	\$ 500	US EPA		Agency and stakeholder support	\$ 2,000 (moderate confidence)	US EPA	\$ 2,500

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14	Implement wildlife crossings and other innovative projects for benefits to wildlife and people	Support lead agencies to find funding for Phase 2 of the Liberty Canyon Wildlife Crossing project	State Parks	RCDSMM, Assm. Bloom, MRCA, SCC, CalTrans	\$ -				\$ 35,000 (moderate confidence)	State Waterboards	\$ 35,000
		Support lead agencies in permitting and environmental review of Liberty Canyon Wildlife Crossing project	State Parks	RCDSMM, Assm. Bloom, MRCA, SCC, CalTrans	\$ -				\$ 35,000 (moderate confidence)	State Waterboards	\$ 35,000
		Identify additional locations for wildlife crossings	CalTrans	many	\$ -				\$ 35,000 (moderate confidence)	State Waterboards	\$ 35,000
15	Implement projects that improve understanding and/or enhance endangered and threatened species populations (e.g. habitat improvements for	Support Southern California Steelhead Trout genetic banking study	RCDSMM	NPS, State Parks, others	\$ -						\$ -
		* Support restoration and monitoring activities to benefit California red legged frog populations	NPS	SCC, State Parks, RCDSMM, TBF	\$ 200,000	SCC Prop. 12	\$ 340,000	NPS, Disney Conservation Fund, Santa Barbara Zoo	\$ 700,000 (moderate confidence)	NPS, rare species grants, restoration grants	\$ 1,240,000

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	Western Snowy Plover, genetic banking)	* Support projects within western snowy plover critical habitat	TBF	LACDBH, City of Santa Monica, City of LA, City of Malibu, Audubon	\$ 3,000	US EPA			\$ 100,000 (moderate confidence)	USFWS, CDFW, others	\$ 103,000
16	Support the implementation of activities and projects such as those in Enhanced Watershed Management Plans (EWMPs) and activities identified in the TMDL implementation schedule to help achieve TMDL goals for 303d listed waterbodies in the Bay and its watershed	Continue to support implementation of projects identified in EWMPs and WMPs	SMBRC	SWRCB, municipalities	\$ 45,000	State Waterboards	\$ -	N/A	\$ 120,000 (moderate confidence)	State Waterboards	\$ 165,000
		Continue implementation of LA IRWMP	LACFCD	SMBRC, others	\$ -						\$ -
		Facilitate other sources of State funding	SCC, State Waterboards	municipalities	\$ -	N/A	\$ -	N/A	\$ 90,000 (low confidence)	State Waterboards	\$ 90,000

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17	Infiltrate, capture, and reuse stormwater and dry-weather runoff through green infrastructure, LID, and other multi-benefit projects and improve understanding of ecosystem services provided	Complete rain garden metal fate study with CRI	TBF	CRI	\$ -	N/A	\$ 1,500	Scientist support	\$ - (high confidence)	N/A	\$ 1,500
		Complete additional LID projects throughout the watershed	Municipalities	City of LA, City of Torrance, LA County, other watershed cities, LA County, NPS	\$ 3,516,000	SCC Prop. 12	\$ 6,360,000	Helium Act Fund, NPS,	\$ - (high confidence)	N/A	\$ 9,876,000
		Promote adoption of local ordinances to require projects in public right-of-way to mitigate stormwater	Municipalities	many	\$ -	N/A	\$ -	N/A	\$ 120,000 (low confidence)	State Waterboards	\$ 120,000
		Seek funding and partnerships to conduct a cost-benefit analysis of LID projects	TBF	CRI, other universities	\$ -	US EPA	\$ -	N/A	\$ 750,000 (low confidence)	Prop. 50, Measure W	\$ 750,000
18	Support installation and monitoring of additional sewage and bilge pumpout facilities in	Continue quarterly monitoring of public sewage pumpout stations	TBF	CDBW, marina operators	\$ 30,000	CDBW-CVA	\$ -	N/A	\$ 120,000 (high confidence)	CDBW-CVA	\$ 150,000
		Update CA Vessel Waste Disposal Plan	CDBW	TBF, SFEP	\$ 46,875	CDBW-CVA	\$ -	N/A	\$ -		\$ 46,875

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	Southern California harbors	Support installation of sewage pumpouts in Marina del Rey or King Harbor	TBF	CDBW, marina operators	\$ 3,750	CDBW-CVA	\$ -	N/A	\$ 15,000 (high confidence)	CDBW-CVA	\$ 18,750
		Support installation of bilge pumpouts in Marina del Rey or King Harbor	TBF	marina operators	\$ -				\$ 16,000 (low confidence)	CalRecycle, municipalities	\$ 16,000
		Support efforts of neighboring harbors in installation of bilge and sewage pumpouts in southern California	TBF	CDBW, marina operators	\$ 3,750	CDBW-CVA	\$ -	N/A	\$ 15,000 (high confidence)	CDBW-CVA	\$ 18,750
19	Support minimization of biological impacts of water intake and	Educate and increase public support of the state-wide desalination requirements	SWRCB	LARWQCB	\$ -				\$ 200,000 (high confidence)	State Waterboards; OPC; grants	\$ 200,000

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	discharge from coastal power generation and desalination facilities, including public engagement and education	Support development of alternative and advanced mitigation measures to minimize seawater intake by desalination	SWRCB	LARWQCB	\$ -				\$ 500,000 (high confidence)	State Waterboards; OPC; grants	\$ 500,000
20	Support elimination of non-point pollution from onsite wastewater treatment systems	Complete sewer connections of residential properties to the centralized wastewater treatment facility in the Malibu Civic Center area	LARWQCB	City of Malibu	\$ -						\$ -
		Continue the coordinated OWTS identification, permitting, and inspection system between the LARWQCB and the cities and counties in the watershed	LARWQCB	Watershed municipalities	\$ -						\$ -

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21	Support policies that promote reuse, recycling, and advanced wastewater treatment to reduce reliance on imported water sources	Support recycled wastewater efforts by JWPCP of LACSD	LACSD	SMBRC	\$ -						\$ -
		Hyperion Treatment Plant to implement pilot project for recycled water	LASAN	SMBRC	\$ -						\$ -
		Support recycled wastewater efforts by Tapia Water Reclamation Facility and others through expansion of distribution system and regional partnerships	LVMWD	US Bureau of Reclamation, LV-Triunfo JPA, SMBRC	\$ 925,000	SCC Prop. 12	\$ 1,818,000	US Bureau of Reclamation, LV-Triunfo JPA	\$ - (high confidence)		\$ 2,743,000
22	Support policies and implement projects that divert landfill waste and encourage composting to improve water	Support continuation of Table to Farm compost hubs	Schools	TBF, Social Justice Learning Institute, Restaurants, LA Compost, LA Food Waste Group	\$ 3,000	SoCalGas	\$ 5,000	Partner staff time	\$ 40,000 (moderate confidence)	SoCalGas, CalEPA EJ grant, US EPA EJ grant, Strategic Growth Council, CalRecycle	\$ 48,000

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	quality and lower greenhouse gas emissions	Find funding for and implement an additional community composting hub in Santa Monica Bay watershed	TBF	Schools, Restaurants, LA Compost, LA Food Waste Group	\$ 18,000	SoCalGas, US EPA	\$ -	N/A	\$ - (high confidence)	N/A	\$ 18,000
		Support expansion, outreach and implementation for residential and commercial organics collection and recycling	Municipalities	TBF, CalRecycle, LA Food Waste Group	\$ 3,000	US EPA	\$ -	N/A	\$ 12,000 (low confidence)	US EPA	\$ 15,000
23	Facilitate development and adoption of natural stream and riparian protection policies, including restoration	Complete and adopt LA City stream protection policy	City of LA	Heal the Bay, Surfrider, TBF							\$ -
		Inform other regional ordinances	Municipalities	many							
24	Support the inclusion of coastal resilience through natural means and	Attend stakeholder meetings for local cities LCP development / updates / implementation	Municipalities	LACDBH, TBF							\$ -

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	softscape measures into local coastal plan updates	Opportunistically assist cities in the development of sea level rise vulnerability studies	Municipalities	USGS, TBF							\$ -
		Use data collected from beach restoration "softscape" projects to inform and assist LCP development	TBF	LACDBH, municipalities							\$ -
25	Support best management practices, increased public access, and improved public facilities for beaches and other public trail systems to support both enhanced	Support implementation of identified actions within plans such as the LACDBH Sea Level Rise Vulnerability Assessment	Municipalities	LACDBH, SCC, City of Los Angeles, City of Manhattan Beach, State Parks, TBF							\$ -
		Support creation of increased public transit to and from beaches to enable access	SCC	CCC, others							\$ -

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	natural resources values and benefits to people	Continue to advise BMPs for beaches that promote habitat condition improvements and support for unique species	LACDBH	LACDBH, Pepperdine, Beach Ecology Coalition, beach managers, Audubon, TBF, CRI							\$ -
26	Participate in research, education, outreach, and policy on invasive species removal and control	Conduct New Zealand Mudsnail surveys	Heal the Bay	TBF, SMBRC					\$ 70,000 (moderate confidence)	State Waterboards, grants	\$ 70,000
		Attend and participate in Invasive Species Council of California (ISCC) and regional meetings focused on management of invasive species	SMBRC	CDFW					\$ 35,000 (moderate confidence)	State Waterboards, grants	\$ 35,000
		Conduct additional studies and outreach efforts to control impacts of, manage, or reduce the sale of invasive species	SMBRC	TBF, CRI, others					\$ 250,000 (moderate confidence)	State Waterboards, grants	\$ 250,000

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27	Produce educational resources and materials and conduct outreach to improve best management practices for Southern California boaters (e.g. fuel, sewage, and hazardous waste management)	Produce educational materials	TBF	CCC, CDBW, SFEP	\$ 21,000	CDBW-CVA	\$ 4,000	agency staff support	\$ 120,000 (high confidence)	CDBW- CVA	\$ 145,000
		Conduct outreach	TBF	CCC, CDBW	\$ 164,500	CDBW-CVA	\$ 66,100	agency staff support, discounts, cash match, volunteer time	\$ 120,000 (high confidence)	CDBW- CVA	\$ 350,600
		Manage Pumpout Nav app	SFEP	CDBW, TBF	\$ 5,000	CDBW-CVA	\$ 10,000	developer discount	\$ 120,000 (high confidence)	CDBW- CVA	\$ 135,000
		* Research public engagement metrics and specific engagement tools on reduction of pollutants to waterways	TBF	CCC, CDBW, CRI	\$ 1,000	US EPA	\$ -	N/A	\$ 5,000 (low confidence)	EPA 320	\$ 6,000
		Find funding and implement fuel spill prevention tools and outreach	TBF	Fuel docks, marina operators, CCC, CDBW	\$ 1,000	US EPA	\$ -	N/A	\$ 40,000 (moderate confidence)	11th Hour Racing Grant, Boat US, CalRecycle	\$ 41,000
		Support and develop marine debris reduction and cleanup efforts	TBF	CCC, marina operators	\$ 1,000	US EPA	\$ -	N/A	\$ 50,000 (low confidence)	CCC Whale Tail Grant, Boat US, 11th Hour Racing Grant	\$ 51,000

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28	Support efforts of disadvantaged communities to achieve healthy habitats, implement green infrastructure, and reduce pollution	Support WMPs and EWMPs to prioritize projects that produce multi-benefits	SMBRC	Municipalities, agencies, others	\$ -	N/A	\$ -	N/A	\$ 70,000 (low confidence)	State Waterboards	\$ 70,000
		Utilize the Ballona Creek Greenway Plan to identify parcels in disadvantaged communities for implementation	Baldwin Hills Conserv.	City of Culver City, City of LA							\$ -
		Support IRWMP and similar programs to preferentially invest in disadvantaged communities	SMBRC	LA County, other watershed cities	\$ 45,000	State Waterboards	\$ -	N/A	\$ 180,000 (low confidence)	State Waterboards	\$ 225,000
		Support research efforts to quantify multi-benefits of green spaces to communities	SMBRC	LA County, other watershed cities, CRI	\$ -	N/A	\$ -	N/A	\$ 200,000 (high confidence)	IRWMP (Prop. 1)	\$ 200,000
29	Reduce health risks of swimming in contaminated waters and consuming contaminated	Continue implementation and improvement of beach water quality monitoring and reporting system	SWRCB	LARWQCB, LAC-DPH, Heal the Bay							\$ -

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	d seafoods through more comprehensive source control and, advanced monitoring and public notification	Update fish contamination advisory and associated public education materials based on new data	OEHHA	State DPH, LAC-DPH							\$ -
		Maintain and enhance the existing seafood contamination education and enforcement program	EPA Superfund	FCEC partners							\$ -
		Develop NowCast for freshwater systems to inform recreation (e.g. swimming holes)	Heal the Bay	LACDPH							\$ -
30	Conduct community engagement, education, and inform policies related to water conservation and reuse to reduce water	Link water conservation with outreach events and social media	TBF	LADWP, MWD, municipalities, many							\$ -
		Educate, engage communities, and provide resources that promote the importance of native plants	TBF	LADWP, municipalities, many							\$ -

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	demand and reliance on imported sources	Support efforts by water agencies to promote water conservation and reuse including dissemination of materials	LADWP	LADWP, municipalities, many							\$ -
		* Develop funding to support the expansion of best management practices to incorporate other business sectors	TBF	municipalities, businesses					\$ 100,000 (low confidence)		\$ 100,000
31	Achieve water quality benefits by businesses through community engagement and implementation of best management practices	Research contaminants, environmental laws, sustainability, pollution prevention standards, and BMPs for commercial businesses such as nurseries, landscapers, restaurants, and horse stables.	TBF	CRI					(low confidence)		\$ -

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		Distribute restaurant engagement tools	TBF	municipalities					\$ 50,000 (low confidence)	LADWP, municipalities	\$ 50,000
		Develop funding to support the expansion of best management practices to incorporate other business sectors	TBF	municipalities, businesses					\$ 100,000 (low confidence)		\$ 100,000
32	Reduce marine debris by supporting bans on single-use items, conducting outreach, and participating in trash reduction programs	Find funding for and continue ReThink Disposable LA	TBF	Clean Water Action/ Clean Water Fund, commercial businesses					\$ 50,000 (low confidence)		\$ 50,000
		Support municipality bans of polystyrene, non-recyclable plastics, and single use items	Municipalities	TBF, Surfrider Foundation, Heal the Bay, 5 Gyres, Algalita, OPC, NOAA, USEPA, other stakeholders					\$ 8,000 (high confidence)	EPA 320	\$ 8,000

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33	Monitor microplastics (including microfibers) and other marine debris in the Bay and coastal environments to inform management actions	Complete the development of a microplastics in sediment extraction and analysis method	CRI	TBF	\$ 6,000	US EPA	\$ 4,000	Scientist support, equipment donated	\$ 7,000 (moderate confidence)	Grants	\$ 17,000
		Publish a manuscript on the results of the Bay studies	CRI	TBF	\$ -	N/A	\$ 4,000	Scientist support, equipment donated	\$ - (high confidence)	N/A	\$ 4,000
		Conduct additional studies to inform the transport, accumulation, and fate of microplastics in our marine and nearshore environments	CRI	TBF	\$ 4,000	US EPA	\$ 5,000	Scientist support, equipment donated	\$ 250,000 (moderate confidence)	NOAA Marine Debris, others	\$ 259,000
34	Improve understanding of emerging contaminants through monitoring and research to inform	Conduct more studies to assess the effects of emerging contaminants on riparian and marine ecosystems and human health	SCCWRP	TBF, CRI, universities							\$ -

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	source control and reduce loading (e.g. fire retardants), especially in the context of climate change	Improve analytical methodology and standardize monitoring of more emerging contaminants	SCCWRP	SWRCB							\$ -
		Enhance and expand existing educational programs and enforcement efforts to reduce the use and dispersal of emerging contaminants	SCCWRP	TBF, CRI, others							
35	Monitor and inform management actions for Harmful Algal Blooms (HABs)	Continue to support research and monitoring efforts for HABs, especially in context of climate change and CMP implementation	SCCWRP	CRI, JPL/NASA, SCCOOS							\$ -
		Conduct monthly maintenance of SCCOOS shore station at Santa Monica Pier and seek support for additional sensors	SCCOOS	LA Waterkeeper	\$ 10,000	US EPA	\$ 2,000	equipment support	\$ 40,000 (high confidence)	US EPA	\$ 52,000



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37	Increase understanding of deep water habitats such as submarine canyons, deep reefs, and outfall pipes	* Conduct ROV surveys to collect physical, chemical, and visual data	TBF	TAC, CRI							\$ -
		Identify and apply emerging technology and techniques to better characterize Bay habitats, including recommendations	many	TAC, USC Sea Grant, SCMI, CRI, Blue Robotics, City of LA EMD, LA CO Sanitation Districts, CRI							\$ -
38	Monitor and improve understanding of rocky intertidal habitats to inform restoration actions	Support study recommendations and outreach efforts for improved protection	UCLA	CRI, MARINE							\$ -
		Develop mitigation measures for rocky intertidal habitats, including restoration and enhancement of physical structure	UCLA	CRI, MARINE							\$ -

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39	Monitor and inform effective management of Marine Protected Areas, Fishery Management Plans, and local fisheries for recreational and commercially important species	Support MDRA in their implementation of the youth and veteran fishing program	MDRA	TBF	\$ 7,000	US EPA			\$ 4,000 (high confidence)	EPA 320	\$ 11,000
		Support MDRA in the completion of a halibut FMP	MDRA								\$ -
		Continue opportunistic aerial surveys to track boating and vessel activity	Lighthawk	TBF	\$ 10,000	US EPA	\$ 48,000	Volunteer pilots	\$ 100,000 (moderate confidence)	Lighthawk	\$ 158,000
		Conduct MPA Watch to monitor and inform use of MPAs in the Bay	LA Waterkeeper	Heal the Bay, LA MPA Collaborative							\$ -
40	Research and inform best management and pollution reduction practices to address non-	Identify partners and identify funding sources for long-term monitoring efforts for LID and water conservation efforts	municipalities	LA County, many						\$ -	

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	point source pollution and facilitate reduction	Implement monitoring programs for long-term monitoring and to inform effectiveness of LID/BMP implementation projects	municipalities	TAC, CRI, many others							\$ -
41	Facilitate research, monitoring, and assessments that inform more accurate waste load allocations and development of new water, sediment, and biological objectives	Conduct or support monitoring and technical studies to characterize pollutant loading, impacts and effectiveness of pollutant control measures	SWRCB, LARWQCB	Watershed cities, SCCWRP	\$ -	N/A	\$ -	N/A	\$ 1,000,000 (moderate confidence)	Prop. 50, Measure W	\$ 1,000,000
		Conduct or support data collection for water quality objective development	SWRCB, LARWQCB	SCCWRP	\$ -	N/A	\$ -	N/A	\$ 1,000,000 (moderate confidence)	Prop. 50	\$ 1,000,000

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42	Inform strategies to reduce greenhouse gas emissions and increase carbon sequestration in support of existing state actions and policies	Research landfill diversion's reduction on greenhouse gas emissions and carbon sequestration due to compost application	LASAN	TBF, many							\$ -
		* Conduct research to establish rate of carbon sequestration associated with key habitats in the Santa Monica Bay and its watershed	TBF	SCC, local cities, CRI, others							\$ -
		Identify projects or programs that will prioritize carbon sequestration and resilience	TBF	SCC, many							\$ -
		Explore innovative concepts like sinking whale carcasses as potential opportunities for carbon sinks	LAC Lifeguards	LACSD, LASAN, TBF, CRI, universities, others							\$ -

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43	Implement the County-wide Safe Clean Water Program to support stormwater pollution control projects (if approved by voters in 2018)	Support passage of Measure W, the Safe Clean Water parcel tax	SMBRC	many	\$ -	N/A	\$ -	N/A	\$ -	N/A	\$ -
		Participate in advisory board and support implementation of projects from the new funding mechanism	SMBRC	LA County, municipalities	\$ 45,000	State Waterboards	\$ -	N/A	\$ 180,000 (low confidence)	State Waterboards, Measure W	\$ 225,000
44	Support the development and implementation of a comprehensive regional sediment management plan for restoring natural hydrological functions of river systems and mitigating	Convene meetings to initiate program development and identify opportunities	TBD	TBF							\$ -
		Develop plans and/or update existing plans to promote sediment transport and deposition along the coast based on hydrodynamic modeling and analyses	many	USGS, CRI, USC Sea Grant, State Parks, CCC, SCC							\$ -

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	impacts from climate change	Build capacity and conduct pilot projects to inform future actions and advance program development/design	many	State Parks, municipalities, agencies							\$ -
		SMBNEP Support / CCMP Tracking	TBF, SMBRC	----	\$ 128,000	US EPA					\$ 128,000