

SMBNEP Finance Plan (2019) - Management Conference Comments and SMBNEP Responses

Commenting Entity	Action #	CCMP Action (or summary of action)	Next Step #	CCMP Next Step(s) / Project Activity Name	Current or Secured Funding (Comments)	Needs for Implementation (Comments)	Additional Comments	SMBNEP RESPONSE TO COMMENTS
City of Santa Monica	1	Acquire open space for preservation of habitat and ecological services	3	Support partners in identification and prioritization of key acquisition or conservation easement properties	N/A	TBD	City supports	Comment noted.
City of Santa Monica	2	Restore kelp forests in the Bay to improve the extent and condition of the habita	General Comment	N/A	N/A	N/A	City supports	Comment noted.
City of Santa Monica	6	Restore coastal strand and foredune habitat to beaches and sandy shores to improve coastal resilience	1	Continue long-term monitoring of the Santa Monica Beach Restoration Pilot Project	\$55K, funded by USEPA, Annenberg Metabolic Studio, Patagonia	\$20K for monitoring, CAL EPA grants, California Natural Resources Agency	N/A	Comment regarding funding needs was incorporated. However, the 'current funding' sources suggested by the City are all grants that have funded this project in the past and are completed; thus, they are not included in the strategic planning document.
City of Santa Monica	7	Restore and maintain the entire LAX Dunes system to support native plants, wildlife, and rare species	General Comment	N/A	N/A	N/A	City supports	Comment noted.
City of Santa Monica	13	Restore Ballona Wetlands Ecological Reserve to enhance wetland habitats and benefits to people	General Comment	N/A	N/A	N/A	City supports	Comment noted.
City of Santa Monica	15	Implement projects that improve understanding and/or enhance endangered and threatened species populations (e.g. habitat improvements for Western Snowy Plover, geneti	3	Support projects within western snowy plover critical habitat	Same as action 6	\$15K, maintenance of dune restoration pilot, CALEPA, CNRA	N/A	Comment overlapping with Action #6 was included above.
City of Santa Monica	16	Support the implementation of activities and projects such as those in Enhanced Watershed Management Plans (EWMPs) and	1	Continue to support implementation of projects identified in EWMPs and WMPS	N/A	\$25,000,000 - Prop 1 Stormwater, County Measure W, Local funds Measure V	N/A	Comment incorporated into Narrative document.
City of Santa Monica	17	Infiltrate, capture, and reuse stormwater and dryweather runoff through green infrastructure, LID, and other multibenefit projects and improve understanding of ecosystem services provided	2	Complete additional LID projects throughout the watershed	N/A	\$16,400,000 - Prop 1 Stormwater, County Measure W, Local funds Measure V	N/A	Comment incorporated into Narrative document.
City of Santa Monica	17	Infiltrate, capture, and reuse stormwater and dryweather runoff through green infrastructure, LID, and other multibenefit projects and improve understanding of ecosystem services provided	3	Promote adoption of local ordinances to require projects in public right-of-way to mitigate stormwater	N/A - already adopted	N/A	N/A	Comment noted for City of Santa Monica. Other cities in the SMBNEP study area have not yet adopted these ordinances, so it will remain.

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City of Santa Monica	21	Support policies that promote reuse, recycling, and advanced wastewater treatment to reduce reliance on imported water sources	Add activity	implement Sustainable Water Infrastructure Project, which would construct the Advanced Water Treatment Facility to reduce reliance on imported water.	\$96M; Clean Water State Revolving Fund loan, City local funds	N/A	N/A	The CCMP Action Plan was finalized in October 2018 with significant input from the Management Conference. At this time, the NEP is not further revising the Action Plan, including addition of activities. SMBNEP acknowledges partners' efforts to implement this Action and encourages continued assistance in tracking this project for incorporation in the next Work Plan.
City of Santa Monica	22	Support policies and implement projects that divert landfill waste and encourage composting to improve water quality and lower greenhouse gas emissions	3	Support expansion, outreach and implementation for residential and commercial organics collection and recycling	N/A	\$1,000,000, TBD	N/A	Comment incorporated.
City of Santa Monica	24	Coastal Resilience in LCP	1	Adopted LCP, includes coastal resilience efforts	funding by private developers	N/A	N/A	Comment incorporated.
City of Santa Monica	24	Coastal Resilience in LCP	2	sea level rise studies have already been conducted	funding by private developers	N/A	N/A	Comment incorporated.
City of Santa Monica	25	Support best management practices, increased public access, and improved public facilities for beaches and other public trail systems to support both enhanced natural resources values and benefits to	Add Activity:	Improve multimodal access (pedestrian and bicyclist)to and along beaches	\$11.2M, local funds	N/A	N/A	Comments regarding funding and partners were incorporated into Action 25, next step #2. However, the CCMP Action Plan was finalized in October 2018 with significant input from the Management Conference. At this time, the NEP is not further revising the Action Plan, including adding new activities.
City of Santa Monica	30	Conduct community engagement, education, and inform policies related to water conservation and reuse to reduce water demand and reliance on imported sources	1 to 4	N/A	\$1.7M, local funds	\$17M, local funds	N/A	Comments regarding current funding and partners were incorporated into Action 30, next step #3. However, future projected funds was included as 'unknown' due to scope of next step and potential other engaged municipalities.
City of Santa Monica	31	Achieve water quality benefits by businesses through community engagement and implementation of best management practices	2	Distribute restaurant engagement tool	N/A	TBD, local funds or any county/state funds for program implementation	N/A	Comment incorporated.
City of Santa Monica	32	Reduce marine debris by supporting bans on single-use items, conducting outreach, and participating in trash reduction programs	2	Support municipality bans of polystyrene, non-recyclable plastics, and single use items	\$12K/year (outreach, education), Green Cities California, Urban Sustainability Director's Network, local funds	\$12K/year, grants from GCC and USDN	N/A	Comment incorporated.
City of Santa Monica	33	Monitor microplastics (including microfibers) and other marine debris in the Bay and coastal environments to inform	General Comment	N/A	N/A	N/A	City supports	Comment noted.

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City of Santa Monica	36	Monitor chemical, physical, and biological characteristics in the Bay to inform climate change impacts such as ocean acidification	General Comment	N/A	N/A	N/A	City supports	Comment noted.
City of Santa Monica	40	Research and inform best management and pollution reduction practices to address non-point source pollution and facilitate	1	Identify partners and identify funding sources for long-term monitoring efforts for LID and water conservation efforts	\$60K; local funds	\$60K/year local funds	N/A	Comment incorporated.
City of Santa Monica	42	Inform strategies to reduce greenhouse gas emissions and increase carbon sequestration in support of existing state actions and policies	2	Identify projects or programs that will prioritize carbon sequestration and resilience	N/A	\$800M, Cal Air Resources Board, CAL EPA, AQMD grants, Cap and Trade Dollars, Transformative Climate Community	N/A	Comment regarding potential funding sources was incorporated into Action 42, next step #2. However, future projected funds was included as 'unknown' due to scope of next step and potential other engaged municipalities.
City of Santa Monica	43	Implement the County-wide Safe Clean Water Program to support stormwater	2	Participate in advisory board and support implementation of projects from the new funding mechanism	N/A - Santa Monica already participates	N/A	N/A	Comment noted.
California State Coastal Conservancy (Megan Cooper)	General Comment	N/A	N/A	N/A	N/A	N/A	It would be more helpful to have names of projects in the CCMP Next Step/Project Activity Name column	The CCMP Action Plan was finalized in October 2018 with significant input from the Management Conference. At this time, the NEP is not further revising the Action Plan, including updating project names.
California State Coastal Conservancy (Megan Cooper)	General Comment	N/A	N/A	N/A	N/A	N/A	The Finance Plan would be more useful from a fundraising perspective if it had a total estimated cost.	Total estimated costs assessed by next step can be found in the column furthest to the right of the table. Total finance plan estimates can be found at the bottom of the table and in the associated Narrative document.
California State Coastal Conservancy (Megan Cooper)	General Comment	N/A	N/A	N/A	N/A	N/A	I would remove projects with vague descriptions and no cost estimates. For instance, Action #10 is "remove additional fish barriers", the two project descriptions are very broad, the partners listed are "many", and there are no cost estimates. There are a few other examples like this throughout the document.	The CCMP Action Plan was finalized in October 2018 with significant input from the Management Conference. At this time, the NEP is not further revising the Action Plan.
California State Coastal Conservancy (Megan Cooper)	9	Implement Malibu Creek Ecosystem Restoration Project and other barrier removals	1 and 2	N/A	N/A	N/A	Need a better cost estimate for Rindge Dam. Current estimate over the next five years is only \$105,000. It is my understanding that they need significant funding for engineering, barrier removal upstream of the Dam, and funding for dam removal itself.	This Finance Plan is focused on cost estimates associated with the timeline in the CCMP Action Plan; the next steps are focused on supporting roles, not the full cost of the Malibu Creek Ecosystem Restoration Project.
California State Coastal Conservancy (Megan Cooper)	12	Restore smaller coastal lagoons and other wetland types to increase wetland habitat area and condition throughout the watershed	Add activity;	Redondo Beach AES Wetland Restoration Project	Lead: City of Redondo Beach, Partners: SCC, CNRA	\$50M	Add the AES Power Plant redevelopment and wetland restoration in Redondo Beach. Cost estimate is around \$50M. Lead entity is City of Redondo Beach. Partners are SCC, CNRA.	Comment was incorporated into Action 12, next step #5 in updated partners. However, a new specific activity was not added because the CCMP Action Plan was finalized in October 2018 with significant input from the Management Conference. At this time, the NEP is not further revising the Action Plan, including addition of activities. SMBNEP acknowledges partners' efforts to implement this Action and encourages continued assistance in tracking this project for incorporation in the next Work Plan. Specifically, it would be helpful to know the cost of wetland restoration separately from powerplant redevelopment in the context of Action 12.

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California State Coastal Conservancy (Megan Cooper)	13	Restore Ballona Wetlands Ecological Reserve to enhance wetland habitats and benefits to people	Add activity:	Engineering and Design of Ballona Wetlands Retoration Project	Lead: CDFW, Partner: SCC	\$2M	Add Engineering and Design of Ballona Wetlands Restoration Project. Cost estimate is \$2M. DFW is lead. SCC is partner	Financial cost estimate was included in the '5-Year Funding' need. The CCMP Action Plan was finalized in October 2018 with significant input from the Management Conference. At this time, the NEP is not further revising the Action Plan, including addition of activities.
California State Coastal Conservancy (Megan Cooper)	21	Support policies that promote reuse, recycling, and advanced wastewater treatment to reduce reliance on imported water sources	3	Support recycled wastewater efforts by Tapia Water Reclamation Facility and others through expansion of distribution system and regional partnerships	Funding: remove SCC Prop 12	N/A	SCC Prop 12 is not funding the Tapia Water Reclamation Facility (Action 21)	See response to California State Coastal Conservancy (Kara Kemmler) below.
California State Coastal Conservancy (Megan Cooper)	25	Support best management practices, increased public access, and improved public facilities for beaches and other public trail systems to support both enhanced natural resources values and benefits to people	2	Support creation of increased public transit to and from beaches to enable access	N/A	N/A	SCC is not the lead entity on supporting creation of increased public transit to and from beaches (Action 25)	Comment incorporated.
California State Coastal Conservancy (Megan Cooper)	General Comment	N/A	N/A	N/A	N/A	N/A	What do the asterisks refer to in the CCMP Next Steps column	Comment incorporated. Asterisks were an accidental hold over copied from a previous document; they have been deleted.
California State Coastal Conservancy (Kara Kemmler)	1	Acquire open space for preservation of habitat and ecological services	2	Bond funded acquisitions	N/A	Remove SCC	Project name should be included: Carbon Canyon Acquisition. There is green highlighted funding need for next 5 years for which the total is \$0 and SCC is listed as a funding source. Is it appropriate to list a source if there is no need? Suggest the first 2 orange columns be blank unless there is an identified funding need.	Comment regarding future funding needs was incorporated. However, the CCMP Action Plan was finalized in October 2018 with significant input from the Management Conference. At this time, the NEP is not further revising the Action Plan, including addition of specific project names. SMBNEP acknowledges partners' efforts to implement this Action and encourages continued assistance in tracking this project for incorporation in the next Work Plan.
California State Coastal Conservancy (Kara Kemmler)	4	Assess and restore seagrass habitats in the Santa Monica Bay and nearshore environments to benefit marine ecosystems and improve coastal resilience	3	Conduct pilot restoration project(s) of offshore eelgrass in the Bay	N/A	N/A	Project name should be included: LA Living Shorelines project at Dockweiler Beach.	The CCMP Action Plan was finalized in October 2018 with significant input from the Management Conference. At this time, the NEP is not further revising the Action Plan, including addition of specific project names. SMBNEP acknowledges partners' efforts to implement this Action and encourages continued assistance in tracking this project for incorporation in the next Work Plan.
California State Coastal Conservancy (Kara Kemmler)	5	Assess and implement offshore artificial reefs to benefit marine ecosystems and provide socioeconomic benefits to people	1	Implement rocky reef restoration project off Palos Verdes	N/A	N/A	Project name should be included: Palos Verdes Reef Restoration.	See response above.

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California State Coastal Conservancy (Kara Kemmler)	8	Retore coastal bluff habitats in the Bay watershed to support ecosystem services	3	Initiate restoration of one bluff restoration project	N/A	\$100K (additional needs), private donors/foundations	Project name should be included: Abalone Cove Habitat Restoration. I'm not aware of the \$400k 5-year funding need- project proponent (PVPLC) estimates 5-year funding need to be approx. \$100k with potential sources to be private donors/foundations.	Comment regarding future funding needs was incorporated. However, the CCMP Action Plan was finalized in October 2018 with significant input from the Management Conference. At this time, the NEP is not further revising the Action Plan, including addition of specific project names. SMBNEP acknowledges partners' efforts to implement this Action and encourages continued assistance in tracking this project for incorporation in the next Work Plan.
California State Coastal Conservancy (Kara Kemmler)	12	Restore smaller coastal lagoons and other wetland types to increase wetland habitat area and condition throughout the watershed	2	Finalize restoration planning and permitting for Topanga Lagoon restoration project and initiate project	\$717,500 (Partners: remove Army Corps and City of Malibu, add LA County Beach and Harbors, others)	CCC	The words "initiate project" should be deleted from this activity description. If implementation is to be included in the goals for the next 5 years (now 4 years), it should be separated from the planning activity so that there is clarity in goals and funding needs. Propose this activity to be rephrased as Topanga Lagoon Restoration Planning with additional activity line for implementation if State Parks thinks it is likely to happen in this plan's timeframe (ending 2023?) and can provide funding estimate. Partners should be revised to delete Army Corps and City of Malibu, and add in LA County Beach and Harbors and "others". There are many collaborators on this project but this more accurately represents the primary partners on the project. Current/Secured funding should be changed to \$717,500. CCC should be added to potential fund source in Needs for Implementation column.	Comments regarding funding and partners were incorporated. However, the CCMP Action Plan was finalized in October 2018 with significant input from the Management Conference. At this time, the NEP is not further revising the Action Plan.
California State Coastal Conservancy (Kara Kemmler)	12	Restore smaller coastal lagoons and other wetland types to increase wetland habitat area and condition throughout the watershed	3	Complete land acquisition, feasibility analyses, and restoration design in coordination with bridge redevelopment for Trancas Lagoon	Partners: remove SCC	N/A	SCC is not a partner on this project.	Comment incorporated.
California State Coastal Conservancy (Kara Kemmler)	12	Restore smaller coastal lagoons and other wetland types to increase wetland habitat area and condition throughout the watershed	Add activity:	Redondo Beach AES Acquisition	\$4.829M, CNRA	\$45.2M, Props, LA County tax	Redondo Beach AES project should be added. City of Redondo Beach is the lead. SCC, CNRA, and LA County are partners. There are 2 activities ongoing: acquisition and planning. Acquisition: \$4.829M secured funding, source CNRA. 5-year need \$45.2M. Potential sources include Props, LA County tax. Total \$50M.	See response to California State Coastal Conservancy above.
California State Coastal Conservancy (Kara Kemmler)	12	Restore smaller coastal lagoons and other wetland types to increase wetland habitat area and condition throughout the watershed	Add activity:	Redondo Beach AES Planning	\$500K, SCC. \$115K In-Kind match, City, South Bay Parkland Conservancy	\$1.4M, Props, City, Fed grants	Redondo Beach AES project - Planning: \$500k secured funding, source SCC. \$115k in-kind match from City, South Bay Parkland Conservancy. 5-year need \$1.4M. Potential sources include Props, City, Fed grants. Total \$2M.	Comments regarding secured funding, match, and potential sources were incorporated into Action 12, next step #4. However, the CCMP Action Plan was finalized in October 2018 with significant input from the Management Conference. At this time, the NEP is not further revising the Action Plan, including new activities. Additionally, there are many projects that could fit into this next step; thus, future funding need is included as 'unknown'.
California State Coastal Conservancy (Kara Kemmler)	14	Implement wildlife crossings	1	Add activity:	N/A	\$8.5M, SCC, others	Funding for Final/100% Design (Phase 2?) for the Liberty Canyon Wildlife Crossing is actively being sought currently and anticipated timeline is within the 5 year timeframe so this activity should be included, not just support in finding funding for this activity. Funding need is \$8.5M. SCC is one potential source, there may be others identified.	Comment regarding funding need was incorporated. However, the CCMP Action Plan was finalized in October 2018 with significant input from the Management Conference. At this time, the NEP is not further revising the Action Plan, including updates to activities and new activities.

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California State Coastal Conservancy (Kara Kemmler)	15	Implement projects that improve understanding and/or enhance endangered and threatened species populations (e.g. habitat improvements for Western Snowy Plover)	2	Support restoration and monitoring activities to benefit California red legged frog populations	\$202K, SCC Prop 12	N/A	\$202k funded by SCC Prop 12.	Comment incorporated.
California State Coastal Conservancy (Kara Kemmler)	21	Support policies to reduce reliance on imported water	3	Support recycled wastewater efforts by Tapia Water Reclamation Facility and others through expansion of distribution system and regional partnerships	N/A	N/A	Megan Cooper previously submitted an erroneous comment that this is not our funded project because it did not name the project which caused confusion. The project name should be included: Pure Water Demonstration Project. The secured fund amount and source is correct.	Comment regarding funding noted and will remain. The CCMP Action Plan was finalized in October 2018 with significant input from the Management Conference. At this time, the NEP is not further revising the Action Plan, including addition of specific project names. SMBNEP acknowledges partners' efforts to implement this Action and encourages continued assistance in tracking this project for incorporation in the next Work Plan.
California State Coastal Conservancy (Kara Kemmler)	25	Support best management practices, increased public access, and improved public facilities for beaches and other public trail systems to support both enhanced natural resources values and benefits to people	2	Support creation of increased public transit to and from beaches to enable access	Lead: remove SCC	N/A	To reiterate Megan Cooper's comment that SCC is not lead on this activity.	Comment noted. See response to California State Coastal Conservancy above.
California Department of Fish and Wildlife (Craig Shuman, Ed Pert)	General Comment	N/A	N/A	N/A	N/A	N/A	The California Department of Fish and Wildlife (Department) has reviewed the Draft Financial Plan for the Santa Monica Bay Comprehensive Conservation and Management Plan (Financial Plan). The Department understands that the Financial Plan is a strategic document that will assist the Santa Monica Bay National Estuary Program implement their Action Plan that was approved in October 2018. The Department appreciates the Santa Monica Bay Restoration Commission's ongoing interest and efforts to protect the resources of the State. Although the request for comments focused on funding, it also identified the opportunity to provide additional information or corrections to the actions, next steps, lead entities, and partners. The Department's comments are focused on the latter. The Department is responsible for the management and sustainability of the resources of the State of California and the habitats on which they depend. We have jurisdiction and authority for the protection, conservation, and use of those resources (Fish and G. Code, Section 1802). In this capacity, the Department administers the California Endangered Species Act, the Native Plant Protection Act, and other provisions of the California Fish and Game Code that afford protection to the State's fish and wildlife resources. The Department is also responsible for marine biodiversity protection under the Marine Life Protection Act (MLPA) in coastal marine waters of California and is recognized as a "Trustee Agency" under the California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq. We have policy, permitting, and regulatory obligations.	Comment noted. However, the CCMP Action Plan was finalized in October 2018 with significant input from the Management Conference, including CDFW. At this time, the NEP is not further revising the Action Plan, including updates to actions or next steps. Updates to lead entities and partners are incorporated as noted below.

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California Department of Fish and Wildlife (Craig Shuman, Ed Pert)	1-16; 23-27; 35-38;42-44; 7	N/A	N/A	N/A	Partners: add CDFW	N/A	In reviewing the Financial Plan, we were surprised to see that Action items 1-16; 23-27; 35-39;42-44 in their entirety or in parts, overlap with the Department's authority and/or jurisdiction and yet the Department is not identified as a lead agency or partner in any Action Item except for the restoration of Ballena Wetlands. There are many Action items that will require permits from the Department (e.g., Fish and Game code§ 1002 and§ 1602 et seq) before any work can be completed. Additionally, some Action items are already being performed by the Department and our partners. For example, the South Coast Region is funding the restoration of LAX dunes through Section 6 grants (Action Item 7) and are not listed as a partner or lead agency. Similarly, the Department's Marine Region is responsible for developing a Fisheries Management Plan for Halibut (Action item 39) but is not mentioned in the lead agency or partner column. We are interested in engaging in future conversations about your efforts and how best to coordinate with the Department.	Comment incorporated. CDFW added as partner or lead across many Actions throughout the Finance Plan.
California Department of Fish and Wildlife (Craig Shuman, Ed Pert)	7	Restore and maintain the entire LAX Dunes system to support native plants, wildlife, and rare species	1 to 4	N/A	Funding source: Section 6 grant (CDFW). Partners: add CDFW	N/A	N/A	Comment incorporated. CDFW added as partner on next steps #2 and 4 (#1 and 3 are for very specific projects).
California Department of Fish and Wildlife (Craig Shuman, Ed Pert)	39	Monitor and inform MPAs, FMPs, and local fisheries	2	Support MDRA in the completion of a halibut FMP	Lead: add CDFW	N/A	N/A	See response to Marina Del Rey Anglers below.
City of Redondo Beach	12	Restore smaller coastal lagoons and other wetland types to increase wetland habitat area and condition throughout the watershed	Add activity:	Redondo Beach AES	\$5.3M, SCC Prop 12, CalNRA	N/A	Mostly our comments should be around the wetland restoration opportunity at the 50-acre AES Redondo site. The Coastal Commission has determined that 6 acres are active, jurisdictional wetland, and State Coastal Conservancy recently awarded us a \$500,000 planning grant for the site. And Just yesterday, the California Natural Resources Agency awarded Redondo Beach \$4.8 million to purchase a portion of this site, the largest award from this section of Proposition 68 - see attached. The Finance Plan of the Santa Monica Bay CCMP should specifically mention this incredible opportunity to restore an active wetland located on a power plant site that is due to retire on Dec. 31, 2020. There is no better opportunity in the Santa Monica Bay to restore an active wetland.	See response to California State Coastal Conservancy above.
LA County Sanitation Districts	General Comment	N/A	N/A	N/A	N/A	N/A	Thanks for the opportunity to comment. I was a bit confused going through this because there are so many actions and as you know some SMBRC is just tracking because they are led by others. Do you need to track finance plan for work done by others? Not sure how this fits in Finance Plan and if your expectation is that you'll get funding values for every action, every year? That is pretty significant task specially since some actions are very broad efforts.	This Finance Plan was intended to help SMBNEP and its partners strategically assess funding opportunities and needs to implement the CCMP Action Plan over the course of the next five years and beyond. The table and narrative will be used as strategic tools to evaluate which programs or actions are underfunded. It is recognized and accepted that not every action will have currently identified funding.

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LA County Sanitation Districts	General Comment	N/A	N/A	N/A	N/A	N/A	Also, maybe I am just new but it would be helpful if you can review for me a few items. First, I understand we have the CCMP that includes 44 actions. The past months, you have shared the workplan for FY 20, and in there was a reference to estimated FY 20 budget (that I don't remember if I saw the attachment) and now there is a finance plan that you are asking for input. What is else is coming for FY 20? I guess maybe I can look at website to try to figure this out but this is where some Board member orientation information would be helpful.	The CCMP has several components including the Action Plan and the Finance Plan. The Action Plan was adopted by the Governing Board October 2018 and serves as a long-term framework for action in the Santa Monica Bay and its watersheds. The Finance Plan is a strategic planning tool for assessing funding opportunities and needs to implement these 44 actions. All components of the CCMP are updated every 5 years. The SMBNEP Work Plans build off the updated Action Plan, but focus on a subset of Actions and Next Steps in the Action Plan. The purpose of a Work Plan is to identify specific program objectives, tasks, and timelines of the work to be performed during the federal fiscal year, October 1 to September 30 of any given year(s). Every year, the Governing Board reviews and approves the annual Work Plan for the following fiscal year. In FY20, the Governing Board will review for approval the FY21 Work Plan.
LA County Sanitation Districts	General Comment	N/A	N/A	N/A	N/A	N/A	Also, at what point do we get to see how the money from the NEP was actually spent in the fiscal year?	Comment noted.
LA County Sanitation Districts	21	Support policies that promote reuse, recycling, and advanced wastewater treatment to reduce reliance on imported water sources	1	Support recycled wastewater efforts by JWPCP of LACSD	\$1M, LACSD	N/A	I assume you are looking for what funds are needed by SMBNEP to support this action? But I noticed that one of the columns has "or partner funding" so does this mean money we are spending? I think on your end you are just tracking this effort and you would need no funds for this activity, is that correct? If you are looking at Partner Funding, every year we (LACSD) budget on our end funds, around 1 million dollars for support work. MWD has budgeted \$17 million dollars for construction of demonstration plant, which has been spent already and there is a lot of other work going on. The operating budget for the 0.5 mgd demo facility once it is operating is about \$3 to 5 million/year (this is still being evaluated). My suggestion is that you don't include our costs because it gets complicated, things change and not sure it is helpful to you. Please let me know what you think.	Comment regarding LACSD support funding incorporated as current/secured funding.
LA County Sanitation Districts	36	Monitor chemical, physical, and biological characteristics in the Bay to inform climate change impacts	2	Support OA sensor array maintenance, calibration and data downloads in accordance with SOP	In-Kind: \$20K, LACSD	Additional: \$80K, LACSD/MBL	I think for this action, our staff has sent you some information and the \$12,000 listed is what SMBNEP is expected to contribute. On our end, for in kind services for this effort, our Marine Biology Laboratory staff spent about \$10,000 in one year, so yearly this about what we would expect to spend. Staff in our Reuse and Compliance Section, who support some of the activities of the Marina Biology Lab, and also track other SMBRC efforts account for another \$10,000 in in kind support. Not sure if you need to include this but I thought I would share the information.	Comment incorporated.
Supervisor Kuehl's Office	13	Restore Ballona Wetlands Ecological Reserve to enhance wetland habitats and benefits to people	1 to 3	N/A	Partners: add LACFCD	N/A	Add to collaborating partners: LACFCD; LAC (SD4 very involved – the Ocean Cleanup has decided to pilot their trash cleanup solutions at Ballona)	Comment incorporated.
Supervisor Kuehl's Office	16	Support activities to achieve TMDLS	1 to 3	N/A	Partners: add LACFCD	N/A	Add to collaborating partners: LACFCD – Safe, Clean Water and County's Water Plan (upcoming)	Comment incorporated.
Supervisor Kuehl's Office	17	Implement and study runoff capture projects	2	Complete additional LID projects throughout the watershed	N/A	N/A	Priority: LAC Department of Public Works doing a lot of work on this within their stormwater division; they are partnering with TreePeople on expanding home-based capture systems and LID guidelines/support for homeowners	Comment noted.
Supervisor Kuehl's Office	21	Support policies to reduce reliance on imported water	1 to 3	N/A	N/A	N/A	Priority: LAC: LACFCD working on County's Water Plan that will focus on this; Our County Sustainability Plan also highlights this as a target goal	Comment noted.

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<b>Commenting Entity</b>	<b>Action #</b>	<b>CCMP Action (or summary of action)</b>	<b>Next Step #</b>	<b>CCMP Next Step(s) / Project Activity Name</b>	<b>Current or Secured Funding (Comments)</b>	<b>Needs for Implementation (Comments)</b>	<b>Additional Comments</b>	<b>SMBNEP RESPONSE TO COMMENTS</b>
Supervisor Kuehl's Office	22	Implement composting and landfill diversion projects	1 to 3	N/A	N/A	N/A	LAC Public Works: Roadmap to Zero Waste Future; K-12 education program	Comment noted.
Supervisor Kuehl's Office	28	support disadvantaged communities	1 to 4	N/A	Lead: add LACDPW	N/A	Move to lead: LAC Public Works and Parks (Measures A & W have designated percentages for DACs, also the LA River Master Plan); TreePeople	Comment incorporated.
Supervisor Kuehl's Office	30	engage community in water conservation and reuse	1 to 4	N/A	Partners: add TreePeople, LAUSD	N/A	Add TreePeople (Generation Earth Program), LAUSD	Comment incorporated.
Supervisor Kuehl's Office	32	Reduce Marine Debris	2	Support municipality bans of polystyrene, non-recyclable plastics, and single use items	Lead: add LA County	N/A	Priority: Move to Lead: LA County Chief Sustainability Office and Public Works; Under Next steps: to support policies by BOS to reduce and/or eliminate single-use plastics; We will engage them in our stakeholder process	Comment incorporated.
Supervisor Kuehl's Office	34	improve understanding of emerging contaminants	1 to 3	N/A	Partners: add LARWQCB, Physicians for Social Responsibility, Water Foundation	N/A	Add to partners: regional water boards, Physicians for Social Responsibility, Water Foundation (as it relates to drinking water)	Comment incorporated.
Supervisor Kuehl's Office	40	Inform non-point source pollution	1 and 2	N/A	Partners: add LACDPW, Our Water LA coalition	N/A	Add to partners: LAC Public Works Stormwater Division, Our Water LA coalition	Comment incorporated.
Santa Monica Mountains Conservancy	1	Acquire open space for preservation of habitat and ecological services	2	Bond funded acquisitions	Lead: remove Trust for Public Land, add SMMC, SCC, CNRA, Wildlife Conservations Board. Partners: remove SMMC, add SCC	N/A	The lead entity is not Trust for Public Land. Instead, insert SMMC, SCC, CNRA, Wildlife Conservations Board. The Partner is SCC.	Comment regarding Lead and Partners incorporated, with the exception of the addition of SCC. See response to California State Coastal Conservancy below.
Santa Monica Mountains Conservancy	14	Implement wildlife crossings	1	Support lead agencies to fund for Phase 2 of the Liberty Canyon Wildlife Crossing project	\$10M, NWF (Lead: only CalTrans, MRCA) (Partners: add SMMC, NWF)	None (funding already acquired, Next Step complete).	Lead entities: CalTrans and MRCA, remove State Parks (no direct involvement). Add SMMC and National Wildlife Federation to Partners. The Phase2 of Liberty Crossing project(the Design and Engineering phase), is already fully funded and underway by Caltrans, approx.. \$10 million.Funding sources:NWF private fundraising (approx. 6 million; SMMC Prop 68 grant of \$3 million, SCC 1 million).	Comments incorporated.
Santa Monica Mountains Conservancy	14	Implement wildlife crossings	2	Support lead agencies in permitting and environmental review of Liberty Canyon Wildlife Crossing project	\$250k, SMMC, NWF, SCC grant (Lead: CalTrans, MRCA) (Partners: SMMC, NWF)	None (permitting and environmental review completed, Next Step complete). (Needs for full implementation: \$60-80M, Prop 68)	Lead entities: CalTrans and MRCA, remove State Parks (no direct involvement). Add SMMC and National Wildlife Federation to Partners. This Next Step was Phase 1 and Caltrans has already completed that phase, with \$250 K SMMC, NWF private fundraising, SCC grant (\$1 million?).No phase 3 box, but implementation/building the wildlife bridge is estimated . at another \$60-80 million, with NWF fundraising.Wildlife Conservation Board indicates it will grant \$5 million in Prop 68 funds for this phase.Actually, only wildcard permitting issue may be with the City of Agoura Hills re the bridge extension over Agoura Road. (however, if "permitting" was also envisioned to include utilities relocations, those costs were included in Caltrans original estimates and covered in their environmental document.)	Comment incorporated.
Santa Monica Mountains Conservancy	14	Implement wildlife crossings	3	Identify additional locations for wildlife crossings	Lead: add NPS	N/A	Lead entity: Add NPS along with Caltrans.	Comment incorporated.
Santa Monica Mountains Conservancy	14	Implement wildlife crossings	1 and 2	Liberty Canyon Wildlife Crossing project	Lead: remove State Parks, add CalTrans and MRCA	N/A	Item 14, remove State Parks as lead entity (they're not active partners on the Liberty wildlife bridge project), and replace with Caltrans and MRCA	Comment incorporated.

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LARWQCB (Eric Wu, Groundwater Permitting Unit)	20	Support elimination of non-point pollution from onsite wastewater treatment systems	1	Complete sewer connections of residential properties to the centralized WTF in Malibu Civic Center area (i.e. "Phase 2" of Malibu Civic Center Water Treatment Facility implementation)	\$3.6M, Private funds. In-Kind Support: \$66K, LARB (staff time, report review/coordination)	\$45.6M (additional needs), \$49.2M (total est. cost) unidentified State Water Board funds	Comment summary: The Malibu Civic Center Water Treatment Facility (CCWTF) is a centralized wastewater treatment facility that will address groundwater and surface water contamination issues from onsite wastewater treatment systems in the area. The first phase of the project, construction of the treatment facility and connection to nearby commercial properties, was completed in October 2018. The total cost of Phase One was about \$60.1 million, with approximately \$9.5 million from Prop 1 grant funds. Phase Two encompasses extending connections to 445 additional properties at an estimated total cost of \$49.2 million. The project is currently in the preliminary design stage of Phase Two, involving the completion of the design and engineering assessments. The cost of the necessary assessments, estimated at \$3.6 million, will be provided by and reimbursed to a private local entity, HRL Laboratories, LLC. The City of Malibu will be seeking wastewater and recycled water grants and low interest loans from the State Water Board to fund the remainder of Phase Two. The anticipated date of establishing the required local assessment district is November 2021 with construction beginning as early as November 2022. The mandated completion date for Phase Two is November 2024. The Los Angeles Regional Water Quality Control Board (Regional Board) oversees the implementation of the CCWTF, including reviewing facility designs and ensuring assessment district formation.	Comment incorporated.
LARWQCB (Eric Wu)	20	Support elimination of non-point pollution from onsite wastewater treatment systems	2	Continue the coordinated OWTS identification, permitting, and inspection system between LARWQCB and the cities and Counties in the watershed	N/A	\$950K, LARB (staff time to 2023)	Comment summary: The Los Angeles Regional Water Quality Control Board (Regional Board) regulates and issues permits for onsite wastewater treatment systems (OWTS) that require corrective action or exceed maximum daily wastewater flows. Currently, the Regional Board has 4 staff members handling approximately 600 cases. Continued coordination of OWTS identification, permitting, and inspecting is expected to require about \$950,000 in Regional Board staff time over the next 5 years.	Comment incorporated.
LARWQCB (Jun Zhu)	41	Facilitate research, monitoring, and assessments that inform more accurate waste load allocations and development of new water, sediment, and biological objectives	1	Conduct or support monitoring and technical studies to characterize pollutant loading, impacts and effectiveness of pollutant control measures	Unknown	Unknown	Comment summary: The Los Angeles Regional Water Board's Nonpoint Source (NPS) Program developed an implementation plan for 2020 to 2025. In the Santa Monica Bay watershed, the Plan focuses on implementing the load allocations for Marina del Rey Harbor sediments, reducing NPS discharges from biocides from boats in the Marina del Rey Harbor, and implementing of Malibu Creek and Lagoon Sedimentation and Nutrients TMDLs. To ensure attainment of load allocations in Marina del Rey Harbor, the NPS Program expects to complete review and comments of the Contaminated Sediment Management Plan submitted by the Los Angeles County by April 2020. A timeline for approval of the final Contaminated Sediment Management Plan, which would allow the Los Angeles County to begin implementation, has not been set. To reduce NPS discharges from biocides from boats in the Marina del Rey Harbor, the Regional Board expects to adopt a conditional waiver of Waste Discharge Requirements (WDRs) for the discharge of biocides from boats in the Marina del Rey Harbor by March 31, 2020. The NPS Program will review and comment on annual reports on an ongoing basis with the goal of achieving the load allocation compliance by March 2024. Livestock and golf courses were identified as nonpoint sources for Malibu Creek and Lagoon TMDLs. To reduce NPS discharge from these sources, the NPS program aims to adopt regulatory programs by 2025.	Comment noted.

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LARWQCB (Celine Gallon)	41	Facilitate research, monitoring, and assessments that inform more accurate waste load allocations and development of new water, sediment, and biological objectives	2	Conduct or support data collection for water quality objective development	Unknown	Unknown	Comment summary: The Los Angeles Regional Water Board's Regional Programs staff are preparing the 2020-2022 Triennial Review, a stakeholder-involved process for reviewing water quality standards and soliciting public comment on issues the Los Angeles Water Board should address through the Basin Plan amendment process. Current priorities for the Program include evaluating the influence of climate change on the Basin Plan, such as defining natural backgrounds for temperature water quality objectives, and incorporating tribal beneficial uses in the Basin Plan.	Comment noted.
LACDPW (Cung Nguyen)	11	Restore urban streams, including daylighting culverted streams, removing cement channels, and restoring riparian habitats	2	Implement urban stream restoration projects	N/A	\$28.8M, Measure W	There are no current or future efforts by the County to implement urban stream restoration projects.  For SCW, County UA is applying for regional funds for 11 projects for the first application opportunity which closes 12/15. Below are the four County led projects that will address developed areas tributary to the Santa Monica Bay: <ul style="list-style-type: none"> <li>Ladera Park Stormwater Improvements Project (Request \$2.8 M), Central Santa Monica Bay</li> <li>Monteith Park and View Park Alley Stormwater Improvements Project (Request \$3.1 M), Central Santa Monica Bay</li> <li>Viewridge Road Super Green Streets Project (Request \$2.9 M), North Santa Monica Bay</li> <li>Alondra Park Multi-Benefit Stormwater Capture Project (Request \$20.0 M), South Santa Monica Bay</li> </ul>	Comment noted. Comments regarding funding needs were incorporated into Narrative document.
LACDPW (Cung Nguyen)	16, 17, 23, 28, 40	N/A	N/A	N/A	N/A	N/A	Comment summary: Measure W (Safe Clean Water Program) is a large potential funding source for multi-benefit, nature-based solutions for safe, clean, and reliable water in Los Angeles County.	Comment incorporated into Narrative document.
LACDPW (Cung Nguyen)	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	1	Continue to support implementation of projects identified in EWMPs and WMPs	N/A	\$4.4B	Summing up the EWMP implementation and O&M cost, it's approximately \$6 Billion over the next 20 years. Over the next five years, it's ~\$4.4 B. Most of the projects are implemented in the next 5 years and the next 15 years would be mostly O&M cost.	Comment incorporated into Narrative document.
LACDPW (Cung Nguyen)	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	2	Complete additional LID projects throughout the watershed	N/A	N/A	The County has a Low Impact Development Ordinance but I'm not aware of any current or future efforts to perform cost-benefit analysis of LID projects. We are currently developing a Triple Bottom Line Tool. However, the BLT tool is not available at this time.	Comment noted.

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LACDPW (Cung Nguyen)	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	3	Promote adoption of local ordinances to require projects in public right-of-way to mitigate stormwater	N/A	N/A	We are doing more Green Street projects to capture stormwater runoff in public right-of-way. Green Streets are a critical piece of EWMP implementation (see attached EWMP spreadsheet). Please note that I don't have a cost associated with this chart.	Comment noted.
LACDPW (Cung Nguyen)	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	4	Seek funding and partnerships to conduct a costbenefit analysis of LID projects	N/A	N/A	The County has a Low Impact Development Ordinance but I'm not aware of any current or future efforts to perform cost-benefit analysis of LID projects. We are currently developing a Triple Bottom Line Tool. However, the BLT tool is not available at this time.	Comment noted.
LACDPW (Cung Nguyen)	23	Facilitate development and adoption of natural stream and riparian protection policies, including restoration	1	Complete and adopt LA City stream protection policy	N/A	N/A	I'm not aware of any stream protection ordinances or plans to develop and/or adopt stream protection policy.	Comment noted.
LACDPW (Cung Nguyen)	40	Research and inform best management and pollution reduction practices to address non-point source pollution and facilitate reduction	2	Implement monitoring programs for longterm monitoring and to inform effectiveness of LID/BMP implementation projects	N/A	N/A	I'm not aware of any current for proposed plan by LACFCD for water conservation projects in the Santa Monica Bay. Please note that the subsurface geology (confined aquifers) does not support groundwater infiltration.  All the cities are implementing EWMP projects. We are planning to work with SCCWRP to develop a monitoring/effectiveness program for first UA projects but those discussions are still very early and we don't have a cost yet.	Comment noted.
Ballona Wetlands Land Trust	13	Ballona Wetlands Restoration Project	1	Support the lead agencies by contributing technical information to the Final Environmental Impact Statement and Report and permitting.	N/A	N/A	The only listed CCMP next step related to the larger restoration project entails supporting the lead agencies with technical information.The estimated budget needs over five years for this task is \$5,000, which seems to suggest a substantially diminished role for the NEP.An explanation of this role reduction would be helpful in understanding the financial needs.	Comment noted.
Ballona Wetlands Land Trust	13	Ballona Wetlands Restoration Project	3	Support lead agencies to identify funding and obtain restoration funding	N/A	N/A	Additionally, SMBRC has a long and well-documented role of helping to identify funding for the actual restoration project itself, which is anticipated to cost between roughly 132 and 184 million dollars.The finance plan would seem to be a useful tool to track progress on the status of any potential project funds. An explanation of why there is no discussion of the anticipated needs and funding sources for this project would be helpful.	Comment noted. See comment from State Coastal Conservancy (above) for Action 13.
Ballona Wetlands Land Trust	13	Ballona Wetlands Restoration Project	2	Ballona Wetlands Community Restoration	N/A	N/A	The finance plan indicates that the projected budget for this project over the next five years has risen from \$28,000 in 2015 to \$130,000 in the plan, \$105,000 has already been secured.A discussion of this substantial cost increase would help decison-makers and the public better understand the fiscal impact of the project.The Land Trust has reason to believe that costs for this project will continue to rise as a result of vegetation efforts not being implemented in a more timely manner, giving invasive weeds a stronger foothold in much of the project area.	Comment noted.

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Ballona Wetlands Land Trust	42	Reducing greenhouse gas emissions	N/A	N/A	N/A	N/A	Climate change poses the single greatest threat to the planet in history. There has been discussion of using funds set aside for reducing greenhouse gas emissions on projects that may have no benefit or negligible benefit on GHG emissions. Limited funds set aside for addressing GHG emissions must be optimized for that purpose, and SMBRC should establish clear guidelines regarding how to determine the impact of a project on GHG emissions, and clear guidelines that the NEP will not seek funds set aside for GHG emissions reduction unless it can be shown that the funds will have a proportionally substantial impact on GHG emissions.	Comment noted.
Ballona Wetlands Land Trust	General Comment	N/A	N/A	N/A	N/A	N/A	Comparative needs analysis: To facilitate the financial plan's use as a strategic planning document, it would be helpful to have some sense of the priorities of the NEP. Which underfunded actions or next steps are the most critical? Similarly, which potential funding sources would require the least effort to obtain?	This Finance Plan was intended to help strategically assess funding opportunities and needs to implement the CCMP Action Plan. The table and narrative will be used as strategic tools to identify which programs or actions are underfunded.
Ballona Wetlands Land Trust	General Comment	N/A	N/A	N/A	N/A	N/A	Explanation of NEP financial model: Much of the NEP financial model seems to be heavily focuses on "leveraging" funds. It would be helpful to have an explanation in the finance plan of which funds are legitimately described as leveraged funds, and which aren't. It is generally understood that leveraged funds are those funds that are "unlocked" by the base investment and which otherwise would not be available. However, it appears that the NEP sometimes counts any funds from any source being spent on projects in the annual work plans as leveraged funds, even when expenditure of those funds toward restoration activities was not dependent on the applicable base investment. This seems to have been the case with the Ballona Wetlands Community Iceplant Removal Project, in which what was actually a cost overrun was treated as leveraged funds.	Comment noted. The Finance Plan is intended to help strategically assess funding opportunities and needs to implement the CCMP Action Plan, not to identify leveraged funds. The completed products will be used as tools by SMBNEP and partners.
Ballona Wetlands Land Trust	1	Acquire open space for preservation of habitat and ecological services	2	Bond funded acquisitions	N/A	N/A	Acquisition is perhaps the most important element of conservation as land and other natural resources must be spared from development in order to be restored or enhanced. It would be extremely helpful to have a list of potential acquisition parcels with details such as whether there is a willing seller, the relative conservation value of the parcel, the permitting status of the parcel, and similar information. For instance, numerous parcels in the vicinity of the Ballona Wetlands have made news regarding their development status, including Toew's Beach, the land at the confluence Ballona and Centinela Creeks, and the land between the 90 freeway and the Villa Marina housing development. The Land Trust would be happy to assist in the development of such a list.	Comment noted. This information could be helpful in identifying opportunities for acquisition. There may be potential for inclusion in future annual Work Plans. Please submit via email to Guangyu Wang at your earliest convenience.

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LASAN (Timeyin Dafeta)	21	Support policies that promote reuse, recycling, and advanced wastewater treatment to reduce reliance on imported water sources	2	Hyperion Treatment Plant to implement pilot project for recycled water	\$13.2M, LASAN, LADWP, WBMWD	None identified	Comment summary: To increase local water resilience, Hyperion's Water Reuse and Resiliency Program (Program) aims to recycle 100% of available treated wastewater for beneficial reuse from the Hyperion Water Reclamation Plant by 2035. The Program, a partnership among LADWP, LA Sanitation & Environment (LASAN), the Water Replenishment District of Southern California (WRD) and Metropolitan Water District of Southern California (MWD), plans to retrofit Hyperion for purified recycled water production and to convey this water for groundwater replenishment and storage. Ongoing efforts include Hyperion's Nitrified-Denitrified (NdN) Membrane Bioreactor (MBR) Pilot Facility and the Advanced Water Purification Facility (AWPF) Demonstration Project. The NdN MBR Pilot Facility will test new methods of treating recycled water sent from Hyperion to a nearby treatment center run by West Basin Municipal Water District (WBMWD). The NdN MBR pilot facility is expected to be fully built by 2022 with LASAN, LADWP, and WBMWD collectively covering up to \$13.2 million of the costs. The flow variations, equalization and other issues mentioned by Hub Cox at the workshop are not for the MBR Pilot but rather are challenges we expect to resolve in the planning for 100% water recycling by 2035. The 1.5 mgd AWPF project is a proof of concept facility that will supply water for use at Hyperion and LAX and is expected to be completed in 2022 also. The AWPF will be funded by LASAN and LADWP.	Comment incorporated.
LASAN (Wing Tam)	23	Facilitate development and adoption of natural stream and riparian protection policies, including restoration	1 and 2	Complete and adopt LA City stream protection policy and Inform other regional ordinances	None	Unknown	Comment summary: To protect remnant natural streams from further development, the City of Los Angeles identified streams within its boundaries and proposed buffer zones and other minimal acceptable requirements. However, due to legal obstacles regarding private land ownership and limited resources, adoption of the stream protection policy has been postponed. The City is currently focusing its efforts on project implementation such as achieve Enhanced Watershed Management Plan goals.	Comment incorporated.
LASAN (Wing Tam)	41	Facilitate research, monitoring, and assessments that inform more accurate waste load allocations and development of new water, sediment, and biological objectives	1	Conduct or support monitoring and technical studies to characterize pollutant loading, impacts and effectiveness of pollutant control measures	None	Needs unknown, Measure W	Comment summary: Partners in the Santa Monica Bay watershed have expressed an interest in identifying more appropriate bacteria indicators for assessing water quality and risks to human health. While the project is still in the conceptual stage, potential sources of funding may include Measure W.	Comment incorporated.
Heal the Bay (Luke Ginger)	29	Reduce health risks of swimming in contaminated waters and consuming contaminated seafoods through more comprehensive source control and, advanced monitoring and public notification	1	Continue implementation and improvement of beach water quality monitoring and reporting system (e.g. Heal the Bay's NowCast system)	\$120K, HtB. In-Kind Support: None	\$580K (additional needs), \$700K (total est. cost) HtB, other unidentified sources	Comment summary: Since the 1990s, Heal the Bay's (HtB) Beach Report Card has been providing reliable and straightforward water quality information for the beaches of California. In their annual beach water quality report, HtB identifies beach water quality trends, major impacts, and areas for improvement. Weekly and annual water quality grades are available for 15 beaches across the Santa Monica Bay watershed. As of 2017, two of these beaches, Santa Monica Pier and Redondo Beach Pier, participate in HtB's NowCast system, providing daily beach water quality predictions based on environmental data. These beach water quality reporting systems are currently funded by HtB with an estimated annual cost of \$120,000 and 5-year total cost of \$600,000 for operational and personnel expenses. Improvements to the systems, such as updating the systems' methodologies, are estimated to require an additional \$100,000, but sources of these funds have yet to be identified.	Comment incorporated.

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Heal the Bay (Luke Ginger)	29	Reduce health risks of swimming in contaminated waters and consuming contaminated seafoods through more comprehensive source control and, advanced monitoring and public notification	4	Develop NowCast for freshwater systems to inform recreation (e.g. swimming holes)	None	\$100K (additional needs), \$100K (total est. cost), no identified sources	Comment summary: To better inform recreation, Heal the Bay aims to expand the Beach Report Card's NowCast predictions to include freshwater. Expansion of NowCast to provide daily freshwater quality predictions based on environmental characteristics is estimated to require \$100,000, but the sources of these funds have yet to be identified.	Comment incorporated.
Heal the Bay (Katherine Pease)	23	Facilitate development and adoption of natural stream and riparian protection policies, including restoration	1	Complete and adopt LA City stream protection policy	Not currently funded	Unknown	no current or secured funding that I know of, 5 year funding & total cost – uncertain	Comment incorporated.
Heal the Bay (Katherine Pease)	29	Reduce health risks of swimming in contaminated waters and consuming contaminated seafoods through more comprehensive source control and, advanced monitoring and public notification	1	Continue implementation and improvement of beach water quality monitoring and reporting system (e.g. Heal the Bay's NowCast system)	N/A	N/A	possible source of funding: Prop 1; For HtB specifically, to run our BRC and NowCast annually, cost is approximately 100- 200k (200K allows us to expand number of beaches/do research project, etc) - so the five year cost is 500K- 1M. We have 300K secured through a Foundation currently	Comment incorporated.
Heal the Bay (Katherine Pease)	29	Reduce health risks of swimming in contaminated waters and consuming contaminated seafoods through more comprehensive source control and, advanced monitoring and public notification	3	Maintain and enhance the existing seafood contamination education and enforcement program	N/A	N/A	we have a grant from EA Engineering, Science, and Technology Inc for our Angler Outreach Program through the FCEC – they are subcontractors through EPA – obviously lots of other partners have grants too – not sure on the total amount	Comment incorporated.
Heal the Bay (Katherine Pease)	29	Reduce health risks of swimming in contaminated waters and consuming contaminated seafoods through more comprehensive source control and, advanced monitoring and public notification	4	Develop NowCast for freshwater systems to inform recreation (e.g. swimming holes)	N/A	500000	this is also tied to providing grades for freshwater sites through our River Report Card, updating our grading methodology, and determining whether we can NowCast for freshwater sites – we currently have no funding for this but are looking for funding – under needs for implementation, 5 year and total cost – I would estimate between 50k-100k per year so 250k to 500k for 5 years/total cost. Not sure about possible funding sources – maybe Prop 1 again	Comment incorporated.
Heal the Bay (Katherine Pease)	32	Reduce marine debris by supporting bans on single-use items, conducting outreach, and participating in trash reduction programs	2	Support municipality bans of polystyrene, non-recyclable plastics, and single use items	100000	N/A	HtB and our Coalition Reusable LA have a 100K grant secured from a Foundation for single use plastic advocacy work - other possible source of funding is through NOAA marine debris program - total costs would be quite large	Comment incorporated.
Heal the Bay (Katherine Pease)	39	Monitor and inform effective management of Marine Protected Areas, Fishery Management Plans, and local fisheries for recreational and commercially important species	4	Conduct MPA Watch to monitor and inform use of MPAs in the Bay	65000	325K ++	Heal the Bay has a 65K grant currently for MPA Watch through a Foundation - definite in-kind volunteer hours since it's a community science program - estimate of 20K annually for in-kind for HtB (400 surveys x 2 hours x \$25/hr) - Sources of funding for future are OPC and Foundations - I'd say the 5 year cost for HtB is about \$325K – *LAW MPA Watch costs not included	Comment incorporated.

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Heal the Bay (Katherine Pease)	26	Participate in research, education, outreach, and policy on invasive species removal and control	N/A	N/A	N/A	N/A	we should be removed from this action item	Comment incorporated.
Heal the Bay (Katherine Pease)	24	Support the inclusion of coastal resilience through natural means and softscape measures into local coastal plan updates	N/A	N/A	N/A	N/A	You could add us as a partner to this action item – I don't have any financial info to add on this unfortunately	Comment incorporated.
Heal the Bay (Katherine Pease)	25	Support best management practices, increased public access, and improved public facilities for beaches and other public trail systems to support both enhanced natural resources values and benefits to people	3	Continue to advise BMPs for beaches that promote habitat condition improvements and support for unique species	N/A	N/A	I see us fitting in as a partner in the last row specifically – we are a part of the Beach Ecology Coalition so not sure it is worth calling us out specifically but you can if you like – don't have any financial info to add here	Comment incorporated.
Heal the Bay (Katherine Pease)	26	Participate in research, education, outreach, and policy on invasive species removal and control	1 / 3	----	N/A	N/A	As described above, we should be removed as lead for first row but could be added as a partner for last row	Comment incorporated.
Heal the Bay (Katherine Pease)	28	Support efforts of disadvantaged communities to achieve healthy habitats, implement green infrastructure, and reduce pollution	1	Support WMPs and EWMPs to prioritize projects that produce multi-benefits	N/A	N/A	Please add us as a partner to the first row – alternately it might make most sense to add OurWater LA Coalition – HtB has some foundation funding to support this work – maybe about \$12.5K for 2020 – not sure on an estimate for 5 year funding	Comment incorporated.
Heal the Bay (Katherine Pease)	30	Conduct community engagement, education, and inform policies related to water conservation and reuse to reduce water demand and reliance on imported sources	1	Link water conservation with outreach events and social media	N/A	N/A	You can add us as a partner to row 1 – our Know the Flow talk and Speakers Bureau program would fit in here – we don't have funding for this specifically other than general funds	Comment incorporated.
Heal the Bay (Katherine Pease)	13	Restore Ballona Wetlands Ecological Reserve to enhance wetland habitats and benefits to people	2	Continue community engagement and hand-restoration within the Reserve with FBW	N/A	N/A	Add HtB as a partner to row 2 for community engagement on Ballona Restoration – we don't have funding for this work currently	Comment incorporated.
California Department of Water Resources	19	Support minimization of biological impacts of water intake and discharge from coastal power generation and desalination facilities, including public engagement and education	1 and 2	N/A	N/A	N/A	Comment summary: DWR provides grants to local agencies for the planning, design, and construction of potable water desalination facilities for both brackish and ocean water. It also provides grants for pilot, demonstration, and research projects. All projects must meet State Waterboard's Ocean Plan Amendment and CEQA requirements. Remaining funds from Prop 1 and Prop 50 may be redistributed in the next few years.	Comment noted.

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California Department of Water Resources	19	Support minimization of biological impacts of water intake and discharge from coastal power generation and desalination facilities, including public engagement and education	2	Support the development of alternative and advanced mitigation measures to minimize seawater intake by desalination	N/A	N/A	The Department of Energy recently established the Energy-Water Desalination Hub for funding early-stage research and development for energy-efficient and cost-competitive desalination technologies. There may be future opportunities for the SMBRC to influence project priorities for consideration of minimization of biological impacts.	Comment noted.
SWRCB (Daniel Ellis)	19	Support minimization of biological impacts of water intake and discharge from coastal power generation and desalination facilities, including public engagement and education	1	Educate and increase public support of the state-wide desalination policy	None	Unknown	Comment summary: No current public outreach campaign for the statewide-desalination policy.	Comment incorporated.
SWRCB (Jonathan Dolan)	19	Support minimization of biological impacts of water intake and discharge from coastal power generation and desalination facilities, including public engagement and education	2	Support the development of alternative and advanced mitigation measures to minimize seawater intake by desalination	None	Unknown	It is possible that a review of the desalination implementation provisions in the Ocean Plan may include special studies or an expert panel to explore mitigation measures. However, the triennial review [of the Ocean Plan] is only intended to identify issues and it does not specify or preclude project actions. Thus, while all available information will be reviewed if this issue is selected as a project, there is not a guarantee that it would include these particular investigatory measures. In regards to timing, this is dependent on available resources and priorities of the State Water Board. However, it is likely that this issue would be developed in coming years if it is selected as a project.	Comment incorporated.
SWRCB (Michelle Tang)	29	Reduce health risks of swimming in contaminated waters and consuming contaminated seafoods through more comprehensive source control and, advanced monitoring and public notification	1	Continue implementation and improvement of beach water quality monitoring and reporting system (e.g. Heal the Bay's NowCast system)	\$8.2K, SWRCB (staff time). In-Kind Support: None	\$2.4K, SWRCB (staff time)	Comment summary: The Safe-to-Swim map is an interactive map displaying bacteria levels in coastal and inland waters. The map compares open-source sampling data to statewide bacteria water quality objectives for nearly 250 monitoring locations in the watershed. The map is managed and funded by the State Water Board under the Surface Water Ambient Monitoring Program. Since 2018, staff have contributed approximately 180 hours for map development and maintenance at an estimated cost of \$5,700. Improvements to the map, such as increasing the frequency of data refreshes and incorporating new data sources, are expected to be completed by late 2019 to early 2020. These improvements are likely to require an additional 80 hours in staff time, or approximately \$2,500. Future needs are unknown as additional improvements have not been identified. At a minimum, annual maintenance of 18 hours in staff time, or about \$600 in personnel costs, is likely to continue over the next 5 years.	Comment incorporated.
SWRCB (Michelle Tang)	29	Reduce health risks of swimming in contaminated waters and consuming contaminated seafoods through more comprehensive source control and, advanced monitoring and public notification	4	Develop NowCast for freshwater systems to inform recreation (e.g. swimming holes)	None	Unknown	Comment summary: Freshwater quality data is currently available through the Safe-to-Swim map, providing inland water quality information for nearly 50 locations in the Santa Monica Bay watershed. The map is managed and funded by the State Water Board under the Surface Water Ambient Monitoring Program. There are no known efforts to utilize NowCast by the State Waterboard.	Comment incorporated.

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USEPA Region 9 (Judy Huang)	29	Reduce health risks of swimming in contaminated waters and consuming contaminated seafoods through more comprehensive source control and, advanced monitoring and public notification	2	Update fish contamination advisory and associated public education materials based on new data	None	Unknown	Comment summary: Updating fish contamination advisories, and associated public education materials, based on new data is pending due to limited staff resources. Estimates on necessary funding and funding sources is currently unknown.	Comment incorporated.
USEPA Region 9 (Judy Huang)	29	Reduce health risks of swimming in contaminated waters and consuming contaminated seafoods through more comprehensive source control and, advanced monitoring and public notification	3	Maintain and enhance the existing seafood contamination education and enforcement program	\$1.43M, USEPA Superfund. In-Kind Support: \$800, SMBRC (staff time)	\$4M (additional needs), \$5M (total est. cost), USEPA Superfund	Comment summary: The Palos Verde Shelf (PV Shelf) is a USEPA Superfund site consisting of DDT- and PCB-contaminated sediment. A component of the initial remedial action, sediment capping, has been postponed following indications of decreasing DDT and PCB sediment concentrations. The USEPA is currently reviewing proposals for contractors to complete a new feasibility study based on updated characterizations of the site. Once a contractor is selected, the Technical Information Exchange Group (TIEG) expects to hold a kick-off meeting for stakeholders to discuss all possible remedial actions, including bioremediation and activated carbon. The cost for completing the feasibility study is currently unknown. USEPA and partners will continue to implement institutional controls and monitor natural recovery (MNR) as interim remedies. The institutional controls, consisting of public outreach and education, fish monitoring, and enforcement, is expected to continue in the same magnitude, with estimated annual costs of \$1.43 million funded by the USEPA. The public outreach and education component, organized under the Fish Contamination Education Collaborative (FCEC), is currently strengthening its effectiveness by updating outreach materials and the FCEC website. Improvements to fish monitoring for evaluating and tracking contaminant concentrations in fish caught at or near the site as well as those sold in retail fish markets and served in restaurants are being considered, as well.	Comment incorporated.
Marina Del Rey Anglers	39	Monitor and inform MPAs, FMPs, and local fisheries	1	Support MDRA in their implementation of the youth and veteran fishing program	\$25K, MDRA, Type: Intern volunteers	Additional: \$100K, Source: MDRA, Total: \$125K, Likely	Our Youth and Vets Fishing trips cost the MDRA about \$25,000 per year. We self fund these trips but we do need support from volunteers to mentor the anglers and supervise the trips. The limiting issue is not money it is volunteers. We plan to run 24 half day trips per year. We need a supervisor and five mentors each trip.	Comment incorporated.
Marina Del Rey Anglers	39	Monitor and inform MPAs, FMPs, and local fisheries	2	Support MDRA in the completion of a halibut FMP	\$25K, MDRA, Type: Scientific	Additional: \$25K, Source: OREHP, Total: \$50K, Likely	Lead entity: CDFW, Partners: Ocean Resource Enhancement Hatchery Project (OREHP), Hubbs Research Institute (HSWRI), MDRA	Comment incorporated.

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Marina Del Rey Anglers	39	Monitor and inform MPAs, FMPs, and local fisheries	Add activity:	Support seabass Restoration Project in Marina Del Rey	\$1.5K, MDRA, Type: Fingerlings	Additional: \$6K, Source: MDRA, Total: \$7.5K, Likely	Lead entity: MDRA, Partners: OREHP, HSWRI. MDRA has raised and released over 100,000 white seabass into the Bay since 1995. One of our tagged fish was recaptured after 14 years. Our fish pens are in Chace Park maintained by volunteers. Fingerlings are supplied by HSWRI and the fish food is funded by OREHP from fishing licenses. This project costs MDRA about \$1500 per year from member donations. The proposed addition (3.) to the Work Plan, specifically addresses the "fin fish sustainability goal" required by the Marine Life Management Act (2018)The Marina Del Rey Anglers, a stakeholder, participated in the formulation of the Fishery Management Plan (FMP) for white seabass and have actively worked with the Dept of Fish and Wild life on halibut stock assessments. We need the SMBRC to get behind the need for a sustainable fishery in Santa Monica Bay. Including our proposed addition would be a step in the right direction. Assembly Bill 1414 called for FMPs on both white seabass and halibut was extended indefinitely by SB58-Alpert (Ch89, stats. 2001)The ultimate goal of this legislation is to enhance populations of marine fin fish species through the Ocean Resources Enhancement and Hatchery Program (OREHP). OREPH oversees and manages distribution of license stamp fees to the Hatchery at Carlsbad (HSWRI).The MDR Anglers have worked closely with HSWRI for over 20 years The Anglers have provided halibut brood stock and funding for halibut grow out tanks. Halibut aquaculture has been successful in other areas and we are confident it will work in SM Bay if given a chance.	The CCMP Action Plan was finalized in October 2018 with significant input from the Management Conference. At this time, the NEP is not further revising the Action Plan, including addition of activities. SMBNEP acknowledges partners' efforts to implement this Action and encourages continued assistance in tracking this project for incorporation in the next Work Plan.
SMBRC	28	Support efforts of disadvantaged communities to achieve healthy habitats, implement green infrastructure, and reduce pollution	1 and 2				SMBRC's contribution to this Action was incorporated in Action #43.	Comment incorporated.
RCDSMM (Rosi Dagit)	9	Implement Malibu Creek Ecosystem Restoration Project (Rindge Dam and other barrier removals) to support ecosystem restoration	1 and 2	Support lead agencies in efforts to complete the design and engineering plans for the Malibu Creek Ecosystem Restoration Project	None currently	Unknown	RCD doesn't have current funding for anything in Malibu Creek at this time, but is interested in future projects and supporting/partnering with State Parks on Rindge Dam removal efforts. Amount is unknown at this time, but will be pursued in the future.	Comment incorporated.
RCDSMM (Rosi Dagit)	10	Remove additional barriers to support fish migration and ecosystem services	1	Identify, prioritize, and acquire funding for barrier removal projects	None currently	\$250,000 is needed for planning for additional barrier removal projects	Potential sources include proposition 1 and other opportunities	Comment incorporated.
RCDSMM (Rosi Dagit)	10	Remove additional barriers to support fish migration and ecosystem services	2	Implement priority barrier removal projects	None currently	Unknown	While the amount needed for implementation is unknown at this time (further in the future probably than this CCMP timeframe), one potential future source is the North SM Bay IRWMP	Comment incorporated.
RCDSMM (Rosi Dagit)	12	Restore smaller coastal lagoons and other wetland types to increase wetland habitat area and condition throughout the watershed	3	Complete land acquisition, feasibility analyses, and restoration design in coordination with bridge redevelopment for Trancas Lagoon	None currently	\$450,000 is needed for easement acquisition, finalizing designs, and completing planning	Feasibility analyses have been completed for the Lagoon restoration project. Easement acquisition is next step; CalTrans bridge is in process. Next steps (including easement and restoration design / planning) budget needs are 450K and could be from propositions or other state sources.	Comment incorporated.
RCDSMM (Rosi Dagit and Clark Stevens)	14	Implement wildlife crossings and other innovative projects for benefits to wildlife and people	2	Support lead agencies in permitting and environmental review of Liberty Canyon Wildlife Crossing project	\$400,000	N/A	RCD currently has 400K to complete Phase 1 of Liberty Canyon and complete all steps required to begin Phase 2. The 400K is sort of for a mix of steps 1 and 2, so could merge them in the form. Phase 2 will require \$85 million and the target goal for fundraising is 2020. So far, over \$13.5 million has been obtained. For additional information: <a href="https://savelacougars.org/">https://savelacougars.org/</a>	Comment incorporated.

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RCDSMM (Rosi Dagit)	14	Implement wildlife crossings and other innovative projects for benefits to wildlife and people	3	Identify additional locations for wildlife crossings	Not currently funded	Future needs for this will be high, but no budget has been identified yet.	Likely, this will be a priority for the next CCMP.	Comment noted.
RCDSMM (Rosi Dagit)	15	Implement projects that improve understanding and/or enhance endangered and threatened species populations (e.g. habitat improvements for Western Snowy Plover, genetic banking)	1	Support Southern California Steelhead Trout genetic banking study	Not currently funded	The budget for this study has been identified as \$50,000 and will be implemented by US Fish and Wildlife Service	Unknown funding source at this time, but possibly propositions or other opportunities will be explored. This is a high near term future priority for RCD.	Comment incorporated.
State Parks (Danielle Le Fer)	2	Restore kelp forests in the Bay to improve the extent and condition of the habitat	3	Develop recommendations for the deposition of materials from Rindge Dam or other suitable sources to <u>augment sediment supply</u>	Not currently funded	Unknown	Not currently funded; design for Rindge Dam removal is not completed. Unknown funding for future needs associated with this task because it will be determined as part of the EIR process.	Comment incorporated.
State Parks (Danielle Le Fer)	8	Restore coastal bluff habitats in the Bay watershed to support ecosystem services	4	Initiate Pt. Dume stair replacement and bluff restoration project to benefit people and wildlife	\$400,000	Unknown	This project is funded but we don't have a specific price tag for it at the moment - \$400,000 is an approximation. Contractor will be selected and begin work soon. State Parks District is leading / contracting for implementation.	Comment incorporated.
State Parks (Danielle Le Fer)	9	Implement Malibu Creek Ecosystem Restoration Project (Rindge Dam and other barrier removals) to support ecosystem restoration	1	Support lead agencies in efforts to complete the design and engineering plans for the Malibu Creek Ecosystem Restoration Project	\$1,200,000	Unknown	State Parks currently has a grant for \$610,000 from the Wildlife Conservation Board to implement this task. Army Corps is matching at an estimated 50:50.	Comment incorporated.
State Parks (Danielle Le Fer)	9	Implement Malibu Creek Ecosystem Restoration Project (Rindge Dam and other barrier removals) to support ecosystem restoration	2	Support lead agencies in identifying and obtaining funding for the project	Not currently funded	Unknown	Not currently funded; design for Rindge Dam removal is not completed. Unknown funding for future needs associated with this task because it will be determined as part of the EIR process.	Comment incorporated.
State Parks (Danielle Le Fer)	10	Remove additional barriers to support fish migration and ecosystem services	1	Identify, prioritize, and acquire funding for barrier removal projects	Not currently funded	Unknown	In process of seeking funding for barrier removals, but none identified to date.	Comment incorporated.
State Parks (Danielle Le Fer)	10	Remove additional barriers to support fish migration and ecosystem services	2	Implement priority barrier removal projects	Not currently funded	Unknown	In process of seeking funding for barrier removals, but none identified to date.	Comment incorporated.
State Parks (Danielle Le Fer)	11	Restore urban streams, including daylighting culverted streams, removing cement channels, and restoring riparian habitats	1	Identify additional urban streams for restoration and prioritize	Not currently funded	Unknown	N/A	Comment incorporated.
State Parks (Danielle Le Fer)	11	Restore urban streams, including daylighting culverted streams, removing cement channels, and restoring riparian habitats	2	Implement urban stream restoration projects	Not currently funded	Unknown	N/A	Comment incorporated.

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State Parks (Danielle Le Fer)	14	Implement wildlife crossings and other innovative projects for benefits to wildlife and people	1, 2, + 3	Identify additional locations for wildlife crossings	Not currently funded	Unknown	Remove State Parks as lead agency. No current funding identified for future wildlife crossing projects.	Comment incorporated.
State Parks (Danielle Le Fer)	15	Implement projects that improve understanding and/or enhance endangered and threatened species populations (e.g. habitat improvements for Western Snowy Plover, genetic banking)	N/A	N/A	N/A	N/A	Information is correct.	Comment noted.
State Parks (Danielle Le Fer)	25	Support best management practices, increased public access, and improved public facilities for beaches and other public trail systems to support both enhanced natural resources values and benefits to people	1	Support implementation of identified actions within plans such as the LACDBH Sea Level Rise Vulnerability Assessment	Unknown	Unknown	Funding unknown	Comment incorporated.
SCCWRP (Charles Wong)	33	Monitor microplastics (including microfibers) and other marine debris in the Bay and coastal environments to inform management actions	1	Complete the development of a microplastics in sediment extraction and analysis method	749000	N/A	We have \$749K from the SWRCB to do the drinking water/surface water interlab calibration study. The sediment portion is being done for the ride.	Comment incorporated.
SCCWRP (Charles Wong)	33	Monitor microplastics (including microfibers) and other marine debris in the Bay and coastal environments to inform management actions	3	Conduct additional studies to inform the transport, accumulation, and fate of microplastics in our marine and nearshore environments	300000	N/A	I've got \$300K pending from SWAMP to assess microplastics in the LA and San Gabriel rivers. Likely to get this, around mid-'20.	Comment noted. These studies are outside the NEP study area.
SCCWRP (Charles Wong)	33	Monitor microplastics (including microfibers) and other marine debris in the Bay and coastal environments to inform management actions	3	Conduct additional studies to inform the transport, accumulation, and fate of microplastics in our marine and nearshore environments	N/A	250000	I'd agree that around the \$250K would be necessary to do at least some sort of reasonable monitoring study.	Comment incorporated.
SCCWRP (Charles Wong)	34	Improve understanding of emerging contaminants through monitoring and research to inform source control and reduce loading (e.g. fire retardants), especially in the context of climate change	1	Conduct more studies to assess the effects of emerging contaminants on riparian and marine ecosystems and human health	262000	N/A	Alvina and I currently have \$262K pending from SWAMP for bioassay work in the LA and San Gabriel rivers. Likely to arrive mid-'20.	Comment noted. These studies are outside the NEP study area.

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SCCWRP (Charles Wong)	34	Improve understanding of emerging contaminants through monitoring and research to inform source control and reduce loading (e.g. fire retardants), especially in the context of climate change	1	Conduct more studies to assess the effects of emerging contaminants on riparian and marine ecosystems and human health	N/A	250000	At least \$250K would be needed for a basic monitoring/occurrence study with a limited number of sites.	Comment incorporated.
SCCWRP (Charles Wong)	34	Improve understanding of emerging contaminants through monitoring and research to inform source control and reduce loading (e.g. fire retardants), especially in the context of climate change	2	Improve analytical methodology and standardize monitoring of more emerging contaminants	235000	N/A	I have, through a project with Griffith, about \$235K to standardize targeted and nontargeted analysis along the beaches in the Channel Islands Harbor area. This \$ is from various sources in Ventura County, including the county itself as a member agency.	Comment noted. These studies are outside the NEP study area.
SCCWRP (Charles Wong)	34	Improve understanding of emerging contaminants through monitoring and research to inform source control and reduce loading (e.g. fire retardants), especially in the context of climate change	2	Improve analytical methodology and standardize monitoring of more emerging contaminants	N/A	500000	At least \$500K would be useful for a viable monitoring study to evaluate occurrence, loading, and fate of CECs	Comment incorporated.
SCCWRP (Martha Sutula)	42	Inform strategies to reduce greenhouse gas emissions and increase carbon sequestration in support of existing state actions and policies	N/A	N/A	N/A	N/A	Action 42 (and Action 2 - kelp sequestration study) -- reduce greenhouse gases: modeling studies can help us quantify coastal N2O emissions, quantify effects of local pollution on C cycling, and estimate contribution of natural kelp and kelp culture for C sequestration and OA buffering  Partner funding: 1.2 million Source: UCI, UCLA and SCCWRP via ARPA-E grant 5-year funding: \$250,000 for kelp sequestration; \$150K for regional N2O emission studies Source: ?	Comment incorporated into Action 42, next step #2. No changes were made to language of next step at this time as the CCMP Action Plan was completed in 2018 with significant input from SMBNEP's Management Conference.
SCCWRP (Martha Sutula)	21	Facilitate research, monitoring, and assessments that inform more accurate waste load allocations and development of new water, sediment, and biological objectives	N/A	N/A	N/A	N/A	Action 21 : support policies that promote reuse, recycling and advance wastewater treatment  Need modeling study to run scenarios of reduced wastewater on acidification, hypoxia and harmful algal blooms List SCCWRP and UCLA as partners, \$250K for each of LA County San and Hyperion in the 5-year implementation needs I don't have suggestions for funding sources, perhaps the wastewater agencies themselves. OCSd is funding SCCWRP to do a similar study now.	Comment regarding partner additions incorporated into Action 21, next step #3 as closest fit. No changes were made to language of next step at this time as the CCMP Action Plan was completed in 2018 with significant input from SMBNEP's Management Conference. Other comments were included from LA County San (see above).

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SCCWRP (Martha Sutula)	33	Monitor microplastics (including microfibers) and other marine debris in the Bay and coastal environments to inform management actions	N/A	N/A	N/A	N/A	33. Monitoring microplastics..we have a NOAA marine debris modeling study (UCR, SCCWRP, UCLA) for \$350 K. If you want to add to this study, then \$100K for Microplastics during dry weather in Creek, and \$20K for City of Hyperion effluent characterization and \$50K for modeling scenarios to inform management.	Comment incorporated.
SCCWRP (Martha Sutula)	35	Monitor and inform management actions for Harmful Algal Blooms (HABs)	N/A	N/A	N/A	N/A	35. Monitoring and support research on HABs. UCLA, SCCWRP, UCSC an SCOOS have a ECHAB modeling project to develop a model of PN for SCB. \$750K  We need validation data for coastal systems influenced by anthropogenic nutrients. ~\$500K Sources: OPC, NOAA MERHAB program	Comment incorporated.
SCCWRP (Martha Sutula)	41	Facilitate research, monitoring, and assessments that inform more accurate waste load allocations and development of new water, sediment, and biological objectives	1	Conduct or support monitoring and technical studies to characterize pollutant loading, impacts and effectiveness of pollutant control measures	N/A	N/A	41: SCCWRP and UCLA Modeling studies (\$1 million) are a match, but funding ends in ~6 months. We are expecting supplemental funding from OPC, to be determined	Comment incorporated.