



Los Angeles Regional Water Quality Control Board

April 19, 2016

Permittees of the North Santa Monica Bay Watershed Management Group¹ (See Distribution List)

APPROVAL OF THE NORTH SANTA MONICA BAY WATERSHED MANAGEMENT GROUP'S ENHANCED WATERSHED MANAGEMENT PROGRAM (EWMP), PURSUANT TO PART VI.C OF THE LOS ANGELES COUNTY MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) PERMIT (NPDES PERMIT NO. CAS004001; ORDER NO. R4-2012-0175 AS AMENDED BY STATE WATER BOARD ORDER WQ 2015-0075)

Dear Permittees of the North Santa Monica Bay Watershed Management Group:

On November 8, 2012, the California Regional Water Quality Control Board, Los Angeles Region (Los Angeles Water Board or Board) adopted Order No. R4-2012-0175, Waste Discharge Requirements for Municipal Separate Storm Sewer System (MS4) Discharges within the Coastal Watersheds of Los Angeles County, except those Discharges Originating from the City of Long Beach (hereafter, LA County MS4 Permit). Part VI.C of the LA County MS4 Permit allows Permittees the option to develop either a Watershed Management Program (WMP) or an Enhanced Watershed Management Program (EWMP) to implement permit requirements on a watershed scale through customized strategies, control measures, and best management practices (BMPs). Development of a WMP or EWMP is voluntary and allows a Permittee to address the highest watershed priorities, including complying with the requirements of Part V.A (Receiving Water Limitations), Part VI.E and Attachments L through R (Total Maximum Daily Load Provisions), and by customizing the control measures in Parts III.A (Prohibitions - Non-Storm Water Discharges) and VI.D (Minimum Control Measures), except the Planning and Land Development Program. Pursuant to Part VI.C.4.c.iv of the LA County MS4 Permit, the North Santa Monica Bay Watershed Management Group (Group) submitted a draft EWMP on June 29, 2015 to the Los Angeles Water Board for review.

Public Review and Comment

On July 1, 2015, the Los Angeles Water Board provided public notice and a 61-day period to allow for public review and written comment on the draft EWMPs. A separate notice of availability regarding the draft EWMPs was directed to State Senators and Assembly Members

¹ Permittees of the North Santa Monica Bay Watershed Management Group include the City of Malibu, County of Los Angeles, and Los Angeles County Flood Control District.

within the Coastal Watersheds of Los Angeles County. The Board received four written comment letters in total. The comment letter submitted by the Construction Industry Coalition on Water Quality (CICWQ) had comments on the twelve EWMPs generally. The comment letter submitted jointly by the Natural Resources Defense Council (NRDC). Heal the Bay, and Los Angeles Waterkeeper (Environmental Groups) contained specific comments on four of the twelve EWMPs²; comments specific to the North Santa Monica Bay EWMP were raised. The two remaining letters, from the Los Angeles County Sanitation Districts and Ms. Joyce Dillard, contained specific comments on various EWMPs; however, no comments specific to the North Santa Monica Bay EWMP were raised.

On July 9, 2015, the Board held a public workshop at its regularly scheduled Board meeting on the draft EWMPs. On November 5, 2015, again during its regularly scheduled Board meeting, the Board held a second public workshop on the draft EWMPs. The Board held a third public workshop on March 3, 2016 for Permittees and interested persons to comment on and discuss the revised EWMPs with the Executive Officer, Board members, and staff. During our initial review of the draft EWMP and our review of the revised EWMP, the Los Angeles Water Board considered written comments and comments made at these workshops that were applicable to the Group's EWMP.

Los Angeles Water Board Review

Concurrent with the public review, the Los Angeles Water Board reviewed the draft EWMP. As part of the review process, the Los Angeles Water Board staff corresponded with the consultants for this EWMP Group on August 6, 2015, in order to obtain some modeling files. On October 21, 2015, the Los Angeles Water Board sent a letter to the Group detailing the Board's comments on the draft EWMP and identifying the revisions that needed to be addressed prior to the Board's approval of the EWMP. Where appropriate, the public's comments were incorporated into the Board's review letter on the draft EWMP to ensure that the public's comments were addressed appropriately in the revised EWMP.

The Group submitted a revised EWMP on January 19, 2016 for Los Angeles Water Board review and approval. After the Group's submittal of the revised EWMP, Board staff had several telephone and email exchanges with the Group's representatives and consultants to discuss the Board's remaining comments and necessary modifications to the January 19, 2016 revised EWMP. On April 1, 2016, the Group submitted a second revised EWMP for Los Angeles Water Board review and approval. There were a small number of minor changes requested by Regional Boards staff to the April 1, 2016 version of the EWMP. The final version was submitted on April 7, 2016.

² These four EWMPs were the North Santa Monica Bay EWMP, Upper San Gabriel River EWMP, Upper Los Angeles River EWMP, and Beach Cities EWMP.

Approval of EWMP

The Los Angeles Water Board hereby approves the Group's revised EWMP as submitted on April 7, 2016.

Determination of Compliance with EWMP

Pursuant to Part VI.C.6 of the LA County MS4 Permit, the Permittees of the North Santa Monica Bay Watershed Group shall begin implementation of the approved EWMP immediately. To continue to be afforded the opportunity to implement permit provisions within the framework of the EWMP, Permittees must fully and timely implement all actions per associated schedules set forth in the approved EWMP regardless of any contingencies indicated in the approved EWMP (e.g., funding) unless a modification to the approved EWMP, including any extension of deadlines where allowed, is approved by the Los Angeles Water Board pursuant to Part VI.C.6.a or Part VI.C.8.a.ii-iii of the LA County MS4 Permit. The Los Angeles Water Board will determine the Permittees' compliance with the EWMP on the basis of the compliance actions and milestones included in the EWMP including, but not limited to, the following:

- Table 5. Final RWLs and WQBELs for NSMBCW TMDLs
- Table 6. Single Sample Allowable Exceedance Days for NSMBCW Bacteria Monitoring Stations
- Figure 2. Compliance Monitoring Locations
- Table 7. General Timeline for FCS Installation
- Table 10. Dry Weather Permit Limits (Final Compliance Limits)
- Table 11. Non-Stormwater Outfall Screening and Monitoring Program Summary
- Section 5 Santa Monica Bay Watershed Demonstration of Compliance
 - Wet Weather Target Load Reductions
 - Best Management Practices
- Table 22. Allowable Discharge Days for each Modeled Analysis Region
- Table 23. Target Load Reductions for the Santa Monica Bay Watershed
- Table 24. TMDL Effective Dates and Final Compliance Dates
- Table 25. Common MCM Modifications/Enhancements for City and County
- Table 28. Proposed Distributed BMPs in the NSMBCW EWMP Area
- Figure 24. BMP Locations in Santa Monica Bay Watershed
- Section 6 Santa Monica Bay Watershed Demonstration of Compliance
 - Wet Weather Target Load Reductions
 - Best Management Practices
- Table 33. TMDL Effective Dates and Final Compliance Dates
- Section 7: EWMP Compliance Schedule
- Table 35. TMDL Compliance Dates and Load Reduction Requirements for WBPCs Within the NSMBCW EWMP Area
- Table 37. Proposed Implementation Schedule for NSMBCW EWMP BMPs

Pursuant to Parts VI.C.3 and VI.E.2.d.i.(4)(a) of the LA County MS4 Permit, the Permittees' full and timely compliance with all actions and dates for their achievement in their approved EWMP shall constitute compliance with permit provisions pertaining to applicable water quality-based effluent limitations (WQBELs)/wasteload allocations (WLAs) in Part VI.E and Attachment M of the LA County MS4 Permit. Further, per Part VI.C.2.b of the LA County MS4 Permit, The Permittees' full compliance with all requirements and dates for their achievement in its approved EWMP constitutes compliance with the receiving water limitations provisions of Part V.A of the LA County MS4 Permit for the specific waterbody-pollutant combinations addressed by the approved EWMP.

If the Permittees fail to meet any requirement or date for its achievement in the approved EWMP, which will be demonstrated through the Group's Annual Reports and program audits (when conducted), the Permittees shall be subject to the baseline requirements of the LA County MS4 Permit, including but not limited to demonstrating compliance with applicable receiving water limitations and TMDL-based WQBELs/WLAs through outfall and receiving water monitoring. See Parts VI.C.2.c and VI.E.2.d.i.(4).(c) of the LA County MS4 Permit.

Annual Reporting

The Permittees shall report, as a group, on achievement of actions and milestones within the reporting year, as well as progress towards future milestones related to multi-year projects, through their Annual Report per Attachment E, Part XVIII of the LA County MS4 Permit. For multi-year efforts, the Permittees shall include the status of the project, which includes the status with regard to standard project implementation steps. These steps include, but are not limited to, adopted or potential future changes to municipal ordinances to implement the project, site selection, environmental review and permitting, project design, acquisition of grant or loan funding and/or municipal approval of project funding, contractor selection, construction schedule, start-up, and effectiveness evaluation (once operational), where applicable. For all stormwater retention projects, including LID BMPs implemented in compliance with new/redevelopment provisions, green streets provisions, and regional BMPs, the Permittees shall report annually on the volume of stormwater retained in each subwatershed area.

The Permittees shall also include in their Annual Report the source(s) of funds used during the reporting year, and those funds proposed for the coming year, to meet necessary expenditures related to implementation of the actions identified in their EWMP per Part VI.A.3 of the LA County MS4 Permit. Further, as part of the annual certification concerning a Permittee's legal authority required by Part VI.A.2.b of the LA County MS4 Permit, each Permittee shall also certify in the Annual Report that they have the necessary legal authority to implement the actions and milestones in the approved EWMP as required by Part VI.C.5.b.iv.(6). If a Permittee does not have legal authority to implement an action or milestone at the time the Group submits their Annual Report, the Permittee(s) shall propose a schedule to establish and maintain such legal authority.

Adaptive Management

The Permittees, as a group, shall conduct a comprehensive evaluation of their EWMP no later than two years after the date of this approval (i.e., by April 19, 2018), and subsequently, every two years thereafter pursuant to the adaptive management process set forth in Part VI.C.8 of the LA County MS4 Permit. As part of this process, the Permittees must evaluate progress toward achieving:

- Applicable WQBELs/WLAs in Attachment M of the LA County MS4 Permit according to the milestones set forth in their EWMP;
- Water quality objectives applicable to receiving waters within ASBS 24, as set forth in the California Ocean Plan;
- Improved water quality in MS4 discharges and receiving waters;
- Diversion of non-storm water discharges that would otherwise discharge to receiving waters within ASBS 24 to a sanitary sewer, where capacity and infrastructure exists;
- Stormwater retention milestones; and
- Multi-year efforts that were not completed in the current year and will continue into the subsequent year(s), among other requirements.

As part of the adaptive management process, the Permittees shall also re-evaluate their Category 2 and Category 3 water quality priorities based on data collected through their Coordinated Integrated Monitoring Program (CIMP) as well as any additional data collected from receiving waters within ASBS 24, and discharges from MS4 outfalls to ASBS 24, as required by the California Ocean Plan. When re-evaluating water quality priorities within ASBS 24, Permittees shall also consider attainment of applicable water quality objectives in the California Ocean Plan as well as any undesirable alteration in natural water quality. Where new water quality priorities are identified, the Permittees shall conduct a RAA for the pollutants and identify and incorporate into their EWMP appropriate watershed control measures to address them.

The Permittees' evaluation of the above shall be based on both progress implementing actions in the EWMP and an evaluation of outfall-based monitoring data and receiving water monitoring data. Per Attachment E, Part XVIII.6 of the LA County MS4 Permit, the Permittees shall implement adaptive management strategies, including but not limited to:

- Refinement and recalibration of the Reasonable Assurance Analysis (RAA) based on data specific to the Group's EWMP area that are collected through the Group's CIMP and other data, as appropriate;
- Identifying the most effective control measures, why they are the most effective, and how other control measures can be optimized based on this understanding;
- Identify the least effective control measures, why they are ineffective, and how the control measures can be modified or replaced to be more effective;
- Identify significant changes to control measures during the prior year(s) and the rationale for the changes; and

• Describe all significant changes to control measures anticipated to be made in the next year(s) and the rationale for each change.

As part of the adaptive management process, any modifications to the EWMP, including any requests for extension of deadlines not associated with TMDL provisions, must be submitted to the Los Angeles Water Board for review and approval. The Permittees must implement any modifications to the EWMP upon approval by the Los Angeles Water Board or its Executive Officer, or within 60 days of submittal of modifications if the Los Angeles Water Board or its Executive Officer expresses no objections. Note that while the first adaptive management process is scheduled for April 19, 2018, the Group's Report of Waste Discharge (ROWD) is due no later than July 1, 2017. The Group should conduct a preliminary evaluation of its EWMP in the spring of 2017 and present the results of the evaluation and any proposed modifications to the EWMP in the Group's ROWD.

The Los Angeles Water Board appreciates the participation and cooperation of the Permittees in the North Santa Monica Bay Watershed Management Group in the implementation of the LA County MS4 Permit. If you have any questions, please contact Mrs. Deborah Brandes of the Storm Water Permitting Unit at Deborah Brandes of the Storm Water Permitting Unit at Deborah.Brandes@waterboards.ca.gov or by phone at (213) 576-6688. Alternatively, you may also contact Mr. Ivar Ridgeway, Chief of the Storm Water Permitting Unit, at Ivar.Ridgeway@waterboards.ca.gov or by phone at (213) 620-2150.

Sincerely,

Samuel Unger, P.E.

Samuel Urgan

Executive Officer

Enclosures: North Santa Monica Bay Watershed Management Group Distribution List

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Los Angeles Water Board Response to Written Comments by the Construction Industry Coalition on Water Quality (CICWQ), dated August 31, 2015, on the Twelve Draft EWMPs

Comment No.	CICWQ Comment	Los Angeles Water Board Response
	Aggregation of Watershed Management Plan Data is Necessary to Understand the Entirety of the Compliance Obligation After a review of the 12 EWMPs, it is our recommendation that Regional Board staff aggregate important physical, hydrological, demographic, best practices implementation, and cost data, and place the data collected in context with the entirety of the MS4 permit compliance obligation that is theoretically being addressed through the preparation of Watershed (WMPs) and Enhanced Watershed Management Plans. At the current time, there is no clear comprehensive picture of what is being proposed, and what the proposal will cost. There are 12 different plans prepared, with no understanding of their interconnections, or their interconnections to any other WMPs or individual Plans. We requested such an aggregation approximately one year ago when the DRAFT WMPs were released for public review and note that no aggregation has been provided to date.	Comment and recommendation noted. There may be value in a comprehensive aggregation of information as proposed in the comment. However, this aggregation is not necessary for the review of, or final determinations regarding, the EWMPs since: 1. Each draft EWMP was proposed individually and was reviewed by the Board on an individual basis. Final determinations were also made on an individual basis for each EWMP. 2. Some EWMPs may include specific information/data that may not be readily compatible with information from other EWMPs. Such information would need to be converted, potentially introducing additional assumptions and/or errors. 3. Permittees have had time since the issuance of the Los Angeles County MS4 Permit in November 2012 to collaborate with one another through the permit-established Technical Advisory Committee (TAC), as well as the Permittee-established Watershed Management Program coordinators' meetings. This time allowed Permittees to find interconnections and propose cost-effective strategies that take advantage of such interconnections among other EWMPs, WMPs, and individual Permittee efforts. 4. Such an aggregation will take considerable Board time and resources. To date, this time and these resources have been committed to the thorough review of each EWMP within the timeframe prescribed in the Los Angeles County MS4 Permit.
		Based on the data and information submitted in the Annual Reports

Comment No.	CICWQ Comment	Los Angeles Water Board Response
		required by the permit, a targeted aggregation of actions/projects undertaken to comply with the permit, on a yearly basis, may be possible.
II.	The Timing of Monitoring and Capital Expenditures for Monitoring Should Be Commensurate with Installation of Appropriate Best Practices	Monitoring during both dry and wet weather is an integral and required part of the Los Angeles County MS4 Permit. While the comment implies that stormwater discharge monitoring during wet weather is premature "at the outset of watershed plan implementation," it is important to recognize that MS4 discharges in Los Angeles County have been
	Reviewed collectively, the Plans all appear to place a heavy emphasis and requirement to monitor stormwater discharges during wet weather events at hundreds and perhaps even thousands of locations throughout Los Angeles County. Requiring extensive and costly stormwater discharge monitoring at the outset of watershed plan implementation is	regulated for over 25 years - since 1990 - with very limited monitoring requirements given the scope and complexity of the MS4. The limited monitoring data generated under previous iterations of the Los Angeles County MS4 Permit has hindered Permittees' efforts to adaptively manage their programs to increase their effectiveness in achieving improvements in water quality and has hindered the Board's efforts to assess compliance with permit requirements.
	counter intuitive and, in our opinion, a waste of financial resources and should be performed in opposite order. Only after the planned networks of regional and distributed best practices are implemented over the years should additional monitoring be required, as this would then inform the Regional Board and stakeholders of effectiveness at an appropriate time.	The State Water Resources Control Board recognized in Order WQ 2015-0075 that "Wet weather receiving water monitoring is fundamental to assessing the effects of storm water discharges in water quality and determining the trends in water quality as Permittees implement control measures." (pp. 65-66.) More robust monitoring, including outfall monitoring, supports assessing compliance with and progress towards achievement of interim and final water quality-based effluent limitations and receiving water limitations. In addition, the WMP/EWMP Adaptive Management Process provisions of the permit rely on monitoring data so that Permittees can make their programs more effective and
	Requiring more and expensive monitoring at this time is both unnecessary and unhelpful to achieving compliance. Current monitoring programs have demonstrated where impairments or problem areas exist very clearly, and the RAA done for all the Plans acknowledges this fact and lays out a modeled approach for meeting water quality	Reasonable Assurance Analyses more accurate. The Los Angeles Water Board has allowed for delayed monitoring implementation in certain situations. Several Coordinated Integrated Monitoring Programs (CIMPs) and Integrated Monitoring Programs (IMPs) include the "phased" implementation of monitoring requirements in which the commencement of monitoring is spread out over the course of several years or increased monitoring frequency is only

Comment No.	CICWQ Comment	Los Angeles Water Board Response
	objectives through implementation of existing structural and operational controls and planned structural best practices for installation at a future date. Monitoring is needed when additional best practices are in place, not vice versa. We urge the Regional Board to re-think and change its approach to monitoring.	triggered after a final deadline is reached.
III.	The Capital Expenditures Required for Plan Implementation are Staggering	Comment considered.
	Using data contained in the twelve EWMPs, the combined cost of implementation is approximately \$17.3 Billion, and in most instances this amount appears to also include annual operations and maintenance for time periods running generally through the years 2025 to 2030, although this is not always clear in the Plan documents. In addition, in reviewing the EWMPs and their companion CIMPs, we could not determine each of the 12 CIMP implementation costs, and whether or not these costs were included as part of the annual O&M costs presented in the 12 EWMPs. We ask and urge the Regional Board to make it clear to stakeholders the	The Los Angeles Water Board recognizes the sizable investment that Permittees will need to comply with the EWMPs and has committed to supporting, as it is able, Permittees' efforts to secure funding. As noted, the costs of implementation will be spread across the region and over many years. In several watersheds, final deadlines are in 2037 to 2040 – 21 to 24 years from now. Additionally, there are several regulatory avenues, such as schedule modifications where allowed by the permit and time schedule orders, that can provide additional time for implementation, if and where schedule extensions are justified. Since submittal of the draft EWMPs, and in response to concerns raised regarding the cost of EWMP implementation such as expressed in this comment, the Board has held and invited Permittees and other stakeholders to attend two additional workshops on the proposed EWMPs on November 5, 2015 and March 3, 2016. The costs of EWMP implementation were a central topic of both workshops.
	total cost of program implementation, and the relative proportions that constitute to the total	In particular, the November 2015 workshop included a staff
	cost. Regardless of the completeness of the cost obligation presented in the EWMPs, the combined costs of EWMP implementation are	presentation on cost considerations and a focused "funding strategies panel" that included presentations from the authors of the <i>Stormwater Funding Options</i> report prepared for the California Contract Cities Association and the League of California Cities (Los Angeles County Division); the City of Los Angeles; Heal the Bay; and the State Water

Comment No.	CICWQ Comment	Los Angeles Water Board Response
	staggering, and we do not believe given the current state of stormwater management funding that there is any possibility that LA County or its municipal co-permittees will have the resources to fund EWMP implementation, nor implementation of any group or individual WMPs. Dividing the total proposed EWMP cost of implementation of \$17.3 billion by 15 years (assuming across the board compliance in year 2030), yields an annual expenditure of more than \$1 billion per year to achieve compliance. This level of annual expenditure appears infeasible, and we can imagine the participating municipalities will have their own challenges in obtaining funding when other pressing needs exist for community health and wellbeing, and public safety and protection. We urge the Regional Board to recognize and address our request to aggregate all the Watershed Plan information, and allow those projects and practices that will yield immediate water quality improvement results, and at the same time augment regional ground water supplies. In our opinion, these projects are generally identified in the EWMPs as regional watershed control measures.	Board Office of Chief Counsel. Public comments were also heard during this workshop. The Los Angeles Water Board also coordinated with USEPA Region IX to host an "East Coast/West Coast Knowledge Exchange" on local stormwater financing strategies in February 2015, which was attended by many Permittees participating in an EWMP. Regarding the request by the commenter to allow projects and practices that will yield immediate water quality improvement results, and at the same time augment regional water supplies, this is what the EWMP permit provisions are directly designed to do. The EWMP provisions allow for an alternative compliance pathway that has provided Permittees with 40 months for planning and identification of projects and partnerships, and will provide another 4 to 24 years for implementation. These timeframes are intended to give EWMP groups the time to develop a program that maximizes the effectiveness of funds through analysis of alternatives and the selection and sequencing of actions needed to address water quality priorities and that comprehensively evaluates and identifies opportunities to maximize stormwater retention. The EWMP provisions also provide Permittees with the opportunity to incorporate effective innovative technologies, approaches, and practices, including green infrastructure, which will yield immediate water quality improvement results.





Los Angeles Regional Water Quality Control Board

TO: Los Angeles County MS4 Permittees and Other Interested Persons

Samuel Unger Samuel Voger Executive Officer FROM:

DATE: May 4, 2016

NOTICE OF AVAILABILITY OF RESPONSES TO WRITTEN COMMENTS ON SUBJECT:

> DRAFT ENHANCED WATERSHED MANAGEMENT PROGRAMS (EWMPs) SUBMITTED PURSUANT TO THE LOS ANGELES COUNTY MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) PERMIT (NPDES PERMIT NO. CAS004001; ORDER NO. R4-2012-0175 AS AMENDED BY STATE WATER

BOARD ORDER WQ 2015-0075)

On July 1, 2015, the Los Angeles Regional Water Quality Control Board (Los Angeles Water Board) provided public notice and a 61-day period to allow for public review and written comment on twelve draft EWMPs that were submitted by Los Angeles County MS4 Permittees pursuant to Part VI.C of the Los Angeles County MS4 Permit. A separate notice of availability regarding the draft EWMPs was directed to State Senators and Assembly Members within the Coastal Watersheds of Los Angeles County. By the August 30, 2015 comment deadline, four comment letters had been received on the draft EWMPs.

The Natural Resources Defense Council, Los Angeles Waterkeeper, and Heal the Bay (collectively, Environmental Groups) submitted specific written comments on four of the draft EWMPs -- the Upper Los Angeles River, Upper San Gabriel River, North Santa Monica Bay, and Beach Cities EWMPs. The Los Angeles County Sanitation Districts (LACSD) submitted specific written comments on the Palos Verdes Peninsula EWMP. Ms. Joyce Dillard submitted specific written comments on five of the EWMPs -- the Upper Los Angeles River, Dominguez Channel, Ballona Creek, Marina del Rey, and Santa Monica Bay Jurisdictional Groups 2 and 3 EWMPs. Finally, the Construction Industry Coalition on Water Quality (CICWQ) submitted general comments on all twelve draft EWMPs.

Los Angeles Water Board responses to specific comments¹ made by the Environmental Groups on the Upper San Gabriel River draft EWMP and to the comments made by CICWQ are available on the Los Angeles Water Board's web site at:

¹ On March 8, 2016, Los Angeles Waterkeeper, Heal the Bay, and Natural Resources Defense Council submitted a joint letter to the Los Angeles Water Board asserting that both federal and California law require the Board to issue written responses to comments prior to any decision by the Board or Executive Officer approving or denying the EWMPs, which were currently under review. On April 12, 2016, the Board responded to the letter disagreeing that written responses to comments are legally required prior to a decision on the adequacy of the EWMPs. However, given the public interest in the determinations on the adequacy of the EWMPs, the Board stated that it would (footnote continued on next page)

Notice of Availability of Responses to Written Comments on Draft EWMPs

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http://www.waterboards.ca.gov/losangeles/water_issues/programs/stormwater/municipal/waters hed_management/comments/9-3-2015/index.shtml

The Board's responses to the other written comments made by the Environmental Groups, LACSD, and Ms. Dillard on the draft EWMPs will be made available in the near future through a separate notice(s) of availability.

Please contact Mr. Ivar Ridgeway at (213) 620-2150 or lvar.Ridgeway@waterboards.ca.gov with any questions regarding this Notice of Availability.

(footnote continued from previous page)

nevertheless provide responses to written comments as a courtesy either before, at the same time, or within a reasonable time after determinations on the EWMPs have been made.

Los Angeles Water Board Response to Specific Written Comments by NRDC, LA Waterkeeper, and Heal the Bay, dated August 31, 2015, on the North Santa Monica Bay Coastal Watersheds (NSMBCW) Draft EWMP

Comment No.	NRDC, LA Waterkeeper, and Heal the Bay Comment	Los Angeles Water Board Response
III.A	A. The Proposed Financial Strategies are Inadequate The 2012 Permit requires that Permittees participating in an EWMP maximize the effectiveness of funding, and "[e]nsure that a financial strategy is in place" to implement the pollution control measures identified by the RAA and EWMP process. (2012 Permit, at VI.C.1.g.vi., VI.C.1.g.ix.) This Permit provision underpins the State Board's rationale for approving the EWMP process. In its Final Order upholding the 2012 Permit including its EWMP provisions, the State Board concluded that "the WMP/EWMP approach is a clearly defined, implementable, and enforceable alternative to the receiving water limitations provisions and that the alternative provides Permittees an ambitious, yet achievable, path forward for steady and efficient progress toward achievement of those limitations while remaining in compliance with the terms of the permit." However, without an adequate financial strategy to properly execute the BMPs proposed by the EWMPs, compliance with RWLs and TMDL-specific limitations will not be ensured. Failure to demonstrate a real financial commitment for implementing the EWMP, therefore, goes against the State Board's clearly stated goal of the EWMP approach – that is, to achieve compliance with water quality standards. In all of the four EWMPs that Environmental Groups reviewed, Permittees' cost estimates for implementing	These comments on the proposed financial strategy were considered and reflected as appropriate in the Los Angeles Water Board's October 21, 2015 review letter on the draft EWMP (hereafter, Review Letter). Specifically, the Board commented that the NSMBCW Group needed to provide more detail on estimated costs of non-structural BMPs and sources and amounts of past funding and existing funding for stormwater projects. The Board also commented that the draft EWMP needed to be revised to make clear the responsibilities of each participating Permittee. The Group's revised EWMP was responsive to the Board's comments. The permit requirement is to "ensure that a financial strategy is in place." The permit does not require that each element of the financial strategy is fully developed before the Board can approve an EWMP. The Board finds that the level of detail provided in Section 9 of the revised EWMP is appropriate to the permit requirement for a financial strategy. Section 9 includes: • Estimates of BMP costs; • Current budgets for Permittees' implementation of permit requirements, particularly those pertaining to the minimum control measures (MCMs); • Enumeration of past stormwater projects and the sources of funds used for those projects; • Current funds being pursued for key proposed projects in the EWMP, including the Group's largest proposed regional project - the Topanga Canyon Regional Green Street project; and

Comment No.	NRDC, LA Waterkeeper, and Heal the Bay Comment	Los Angeles Water Board Response
	the EWMP are substantial and orders of magnitude higher than have previously been committed by the agencies to their MS4 programs. For example, for the ULAR EWMP Group, the capital costs to address Water Quality Priorities by 2037 is estimated at over \$6.0 billion, with total operations and maintenance costs exceeding \$210 million per year once fully	An evaluation of potential funding sources for other EWMP projects, including the potential of the funding source, general process for pursuing the funding source, conditions for obtaining funding from the source, and challenges associated with the funding source.
	implemented. For the USGR EWMP Group, the total cost for implementation of the EWMP through 2040, including operation and maintenance, is approximately \$2.14 billion. For the NSMBCW EWMP Group, the estimated total capital and operation and maintenance	The commenters state that, at a minimum, the Financial Strategy section must describe in detail certain elements. While the permit provision does not require this degree of specificity, as noted above, the Board finds that the Group has described the elements identified by the commenters in the
	costs for proposed structural BMPs over 20 years are \$54.2 million. Lastly, for the Beach Cities EWMP Group, the total 20-year life-cycle costs to implement each structural BMP plus the associated annual operation and maintenance costs over 20 years are	revised EWMP, as indicated below. 1) Selection and prioritization of the multiple financial approaches identified; a. The Group has selected and prioritized pursuit of Proposition 1 and Proposition 84 grant
	\$150 million. Currently, none of these four watershed groups have sufficient funds or dedicated funding streams to construct the projects proposed in their EWMPs; thus, all four EWMP Groups must pursue additional stormwater funding from multiple sources in	funding for its proposed regional project and for one of its earliest distributed projects. 2) Identification of current funding streams, for each of the EWMP Group Members, sufficient to implement
	order to ensure that the <i>additional</i> costs of compliance with the 2012 Permit as a result of EWMP implementation can be covered.	existing stormwater projects; a. The Group identified its current funding streams, in terms of each Permittee's annual budget for the last four fiscal years, through 2015-16.
	Unfortunately, none of the EWMPs that Environmental Groups reviewed provides a funding roadmap, let alone demonstrates a commitment to securing funds, to implement the proposed control measures as required for achieving Permit compliance. While the EWMPs identify, to varying degrees, the potential funding sources/projects needed to achieve compliance with RWLs and TMDL-specific limitations,	3) An articulation of the relative financial responsibility and contribution of each of the EWMP Group Members to EWMP implementation, and the Memorandum of Understandings or other legal documents memorializing this organization; a. The Group articulated each Permittee's relative financial responsibility in the EWMP. For structural BMPs, see Sections 5.2.4.3.1 and

Comment No.	NRDC, LA Waterkeeper, and Heal the Bay Comment	Los Angeles Water Board Response
	without an actual step-by-step plan or strategy to carry	5.2.4.4, as well as Table 28 in conjunction with
	out the identified financial projects, however, the	Table 39.
	EWMPs are merely paper exercises. For example, the	4) An identification of the available grants, application
	potential funding sources identified in the EWMPs	timelines and requirements, and the lead EWMP
	generally included grants, bonds, State Revolving	Group Member(s) that will undertake and coordinate
	Funds, interagency partnerships, local funding	the grant-writing efforts;
	opportunities, legislative or policy changes, and public	a. The Group identified potential funding sources
	private partnerships. A couple of the EWMPs also	in Table 41, and indicated which Permittee(s)
	discuss, in general terms, barriers associated with	were undertaking efforts to secure funding for
	some of the funding sources and ways those barriers	key projects (see Section 9.4.2).
	might be overcome. However, all of the Financial	5) Model legislation or ordinance, and a timeline for
	Strategy sections reviewed end at the identification of	seeking municipal stormwater fees, if any;
	these sources and barriers. To the extent any type of	a. The County of Los Angeles and City of Malibu
	"strategy" is actually discussed, the draft EWMPs	already have developed green streets policies
	recognize the need for interagency collaboration and a coordinated, regional approach, but this need is merely	to help support implementation of distributed projects throughout the EWMP Area.
		Additionally, recently the County of Los
	described in a vague, cursory manner and again, with no specific details on how to accomplish the necessary	Additionally, recently the County of Los Angeles Board of Supervisors adopted a
	interagency and regional collaboration.	motion calling for development of a Water
	interagency and regional collaboration.	Resiliency Plan to increase stormwater capture
	Mere identification of potential funding sources, with no	and improve water quality. A task in the
	details whatsoever regarding the specific action steps	development of this plan is to evaluate and
	that Permittees will need to take in order to carry out	recommend the most appropriate funding
	some of the funding strategies proposed, does <i>not</i>	mechanism(s) to implement the plan.
	constitute a sound financial strategy sufficient to meet	6) A funding schedule, based on the interim and final
	the Permit requirement. In order for Permittees to	compliance deadlines in the 2012 Permit, which sets
	provide the level of assurance that the EWMPs will	forth the timeline for securing grants, loans,
	ultimately achieve compliance with water quality	stormwater fees, or other funding mechanisms that will
	standards as required by the State Board, the	ensure funding is in place to timely implement the
	Financial Strategy element of the programs must	EWMP measures; and
	actually be "in place" before the Regional Board can	a. The funding schedule is implicitly laid out
	approve the EWMPs. At a minimum, the Financial	based on the compliance deadlines and the
	Strategy section must describe in detail the following	project implementation schedules in Table 37.
	elements:	A demonstration that the collective mix of funding

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		sources identified in the Financial Strategy is sufficient to implement all of the proposed control measures in the EWMPs and consistent with the schedules established in the EWMPs. a. The Group has identified a wide mix of potential funding sources that could be used to implement the proposed control measures. Establishment of some of these funding sources is a work-in-progress, while funding from other sources is readily available. The Group is pursuing both immediately available funding and longer term funding sources. Regarding the commenters' concerns that there is a "failure to demonstrate a real financial commitment," the Los Angeles Water Board has made clear that once schedules are set in the EWMP, financial constraints cannot be used to justify a missed deadline. While Permittees will likely continue to refine their financial strategy and work to establish certain elements, as is appropriate, the interim and final implementation milestones in the EWMP provide sufficient accountability relative to the Los Angeles Water Board's and State Water Board's goal that implementation of the EWMPs will effectively address MS4 discharges to achieve compliance with TMDL requirements and receiving water limitations. Any extensions to the schedules in the EWMPs must be justified and approved by the Los Angeles Water Board. In addition, the Permittees in the NSMBCW Group have
	consistent with the schedules established in the EWMPs. The funding strategy aspect of the EWMP is one of, if not, the most important piece of the program because	provided evidence of their commitment to pursue funding by presenting past stormwater projects that they have successfully implemented and enumerating the various sources of funds they have secured to implement these projects.

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	without an adequate financial strategy and commitment in place, it will be impossible for Permittees to successfully implement their EWMPs and thus the entire program development process would be a futile exercise and would only result in the delay of achieving ultimate compliance with water quality standards.	Further, it must be noted that the Los Angeles Water Board recognizes the sizable investment that Permittees will need to comply with the EWMPs and has committed to supporting, as it is able, Permittees' efforts to secure funding. Since submittal of the draft EWMPs, and in response to concerns raised regarding the cost of EWMP implementation, the Board has held and invited Permittees and other stakeholders to attend two additional workshops on the proposed EWMPs on November 5, 2015 and March 3, 2016. The costs of EWMP implementation were a central topic of both workshops. In particular, the November 2015 workshop included a staff presentation on cost considerations and a focused "funding strategies panel" that included presentations from the authors of the <i>Stormwater Funding Options</i> report prepared for the California Contract Cities Association and the League of California Cities (Los Angeles County Division); the City of Los Angeles; Heal the Bay; and the State Water Board Office of Chief Counsel. Public comments were also heard during this workshop. The Los Angeles Water Board also coordinated with USEPA Region IX to host an "East Coast/West Coast Knowledge Exchange" on local stormwater financing strategies in February 2015, which was attended by many Permittees participating in an EWMP.
III.B.i	B. Proposed Compliance Schedules are in Violation of State or Federal Law or are Otherwise	This comment was not raised for, nor is it applicable to, the NSMBCW EWMP. There are no compliance schedules for
	Unreasonably Long	California Toxics Rule (CTR) criteria in the TMDL provisions of
	i. Pollutants Subject to an Established TMDL	the permit that are applicable to the NSMBCW Group.
	In several instances, Permittees incorrectly incorporate	However, even if there were, it must be noted that compliance
	interim milestones and final compliance deadlines for	schedules for TMDLs implementing CTR criteria do not violate
	certain WBPCs addressed by TMDLs. For WBPCs	state or federal law. The commenters have previously raised
	addressed by TMDLs, the 2012 Permit requires the	this assertion regarding the legality of compliance schedules
	Permittees to incorporate the compliance schedules	for CTR-based pollutants to both the Los Angeles Water
	found in Attachments L through R of the Permit into	Board and the State Water Board. The Los Angeles Water

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	the EWMP, and where necessary, develop interim milestones and dates for their achievement. (2012 Permit, at VI.C.5.c.) A Permittee participating in an EWMP that does not thereafter comply with the compliance schedule must instead demonstrate compliance with its interim water quality-based effluent limitations (WQBELs) and/or RWLs of the Permit. (Id. at VI.E.2.d.i(4)(c).) The ULAR EWMP sets interim and final compliance dates for the LAR Metals TMDL and Harbors Toxics TMDL based on their pre-established implementation schedules. The pollutants addressed by these TMDLs, however, are regulated by the California Toxics Rule (CTR), which establishes water quality standards for priority toxic pollutants in California's inland surface waters and enclosed bays and estuaries. The CTR also states that the compliance schedules for the regulated pollutants cannot extend for more than five years from the date of permit issuance; however, the provisions authorizing compliance schedules in the CTR expired on May 18, 2005. This means that permits issued after that date may not incorporate compliance schedules for CTR-regulated pollutants, therefore the interim and final compliance deadlines for LAR Metals TMDL and Harbor Toxics TMDLs established by the ULAR EWMP are illegal because they violate the CTR. Permittees of the ULAR EWMP Group must instead demonstrate immediate compliance with the pollutants addressed by these TMDLs.	Board responded to this comment during the Los Angeles Water Board's proceedings to adopt the permit and in response to the petition filed by the Environmental Groups with the State Water Board. In Order WQ 2015-0075, the State Water Board upheld the Los Angeles Water Board's inclusion of compliance schedules in the permit and stated the following with regards to CTR pollutants – "We also note that the State Water Board's Policy for the Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (2005) (State Implementation Policy) and the CTR itself (40 C.F.R. § 131.38(e)) restrict the scope of compliance schedules for effluent limitations addressing the discharge of toxic pollutants; however the policy does not apply to storm water discharges. (State Implementation Policy, p.3, fn.1.)." The compliance schedules in the NSMBCW EWMP are consistent with the TMDL implementation schedules set forth in the Los Angeles Water Board's Basin Plan and the compliance schedules set forth in Attachment M for the applicable TMDLs in the Los Angeles County MS4 Permit. The EWMP also contains interim requirements consistent with the permit requirements, where appropriate.

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	For the USGR EMWP, the same situation exists. The	
	USGR EWMP illegally incorporates interim and final	
	compliance deadlines for SGR Metals and Impaired	
	Tributaries Metals and Selenium TMDL and DC and	
	Greater LA and LB Harbor Water Toxic Pollutants	
	TMDL because the pollutants covered by these	
	TMDLs are governed by the CTR. Because these TMDLs were established based on CTR criteria, the	
	USGR EWMP (which is being developed pursuant to a	
	permit issued after May 18, 2005) may not incorporate	
	their implementation schedules, and instead, the	
	Permittees must demonstrate immediate compliance	
	with these CTR-regulated pollutants.	
	In the Beach Cities EWMP, for the Dominguez	
	Channel (DC) watershed, toxicity, copper, lead, and	
	zinc are all addressed by a Regional Board-	
	established TMDL and therefore their corresponding	
	compliance schedules are incorporated into EWMP.	
	However, copper, lead, and zinc are pollutants	
	covered by the CTR, therefore their compliance	
	schedules are illegal.	
III.B.ii	B. Proposed Compliance Schedules are in	This comment was not raised for, nor is it applicable to, the
	Violation of State or Federal Law or are Otherwise	NSMBCW EWMP.
	Unreasonably Long ii. Pollutants in the Same Class as Those	
	Addressed in a TMDL	
	In several instances, Permittees establish incorrect	
	milestones and final compliance dates for WBPCs not	
	addressed by a TMDL, but where the relevant pollutant	
	is in the same class as a TMDL pollutant and for which	
	the water body is identified as impaired on the State	
	Board's CWA section 303(d) List. For these types of	
	pollutants, the Permit requires the EWMP to	

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	incorporate a schedule consistent with the TMDL schedule for a pollutant of the same class. (Id. at Part VI.C.a.i.)	
	The ULAR EWMP lists the following pollutants as Category 2 WBPCs: dioxin, total mercury, copper, total thallium, and daizinon [sic]. The ULAR EWMP defines Category 2 pollutants as those "pollutants on the State Water Resources Control Board 2010 Clean Water Act Section 303(d) List of Impaired Water Bodies or those constituents that have sufficient exceedances to be listed." Table 3-5 indicates that the interim and final schedule milestones for dioxin are based on the dry and wet weather schedule for the LAR Bacteria TMDL. However, the LAR Bacteria TMDL is an incorrect compliance schedule source to use for dioxin because dioxin is not in the same pollutant class as bacteria. According to the Permit, pollutants are considered to be in the same class "if they have similar fate and transport mechanisms, can be addressed via the same types of control measures, and within the same timeline" (Id. at fn 21). Dioxins do not have similar fate and transport mechanisms as bacteria and cannot be addressed by all the same control measures as bacteria. Although retention BMPs would treat for both, the ULAR EWMP does not commit to specific BMP types. Design of flow-through BMPs would likely be very different if the target pollutant is bacteria versus	
	In the Beach Cities EWMP, indicator bacteria has been defined as a Category 2 WMPC for the DC watershed. The 2012 Permit defines Category 2 pollutants as those "[p]ollutants for which data indicate water quality	

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	impairment in the receiving water according to the	
	State's Water Quality Control Policy for Developing	
	California's Clean Water Act Section 303(d) List (State	
	Listing Policy) and for which MS4 discharges may be	
	causing or contributing to the impairment." (Id. at	
	VI.C.5.a.ii(2).) The final compliance date for dry	
	weather bacteria (year 2025) was selected to be	
	consistent with the draft TMDL for indicator bacteria in	
	the SGR Estuary and Tributaries, and the final	
	compliance date for wet weather bacteria (year 2032)	
	was selected to be consistent with the DC and Greater	
	LA and Long Beach Harbor Toxic Pollutants TMDL.	
	However, selecting compliance schedules from TMDLs	
	from other watersheds, or for pollutants of different	
	classes, is inconsistent with the requirements of the	
	Permit. The DC watershed discharges to Los Angeles	
	Harbor, impacting the inner channel, and the San	
	Pedro and Long Beach area beaches. Thus, a more	
	appropriate bacteria TMDL compliance schedule for	
	consideration in the DC watershed is the	
	implementation schedule for the Los Angeles Harbor	
	Bacteria TMDL, the Long Beach City Beaches and Los	
	Angeles River Estuary Bacteria TMDL, and/or the	
	Santa Monica Bay Beaches Bacteria TMDL.	
III.B.iii	B. Proposed Compliance Schedules are in	This comment was not raised for, nor is it applicable to, the
	Violation of State or Federal Law or are Otherwise	NSMBCW EWMP.
	Unreasonably Long	
	iii. Pollutants Not in the Same Class as Those	
	Addressed in a TMDL	
	In at least one instance, Permittees establish an	
	incorrect compliance schedule for WBPCs not	
	addressed by a TMDL, and not in the same class as a	
	TMDL pollutant but for which the water body is	
	identified as impaired on the State Board's CWA	

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	section 303(d) List. For these types of pollutants, if	
	retention of the 85th percentile, 24-hour storm event is	
	not feasible, the EWMP must either have a final	
	compliance deadline within the 5-year permit term or	
	Permittees are expected to initiate development of a stakeholder-proposed TMDL and incorporate a	
	compliance schedule consistent with the TMDL. (Id. at	
	VI.C.2.a.ii(5).)	
	The USGR EWMP states that indicator organisms	
	(bacteria) are the sole Group B	
	WBPC. The USGR EWMP defines Group B pollutants	
	as those "pollutants that are not in the same class as	
	those addressed in a TMDL for the watershed, but for	
	which the water body is identified as impaired on the 303(d) List as of December 28, 2012." The USGR	
	EWMP then proposes a 25-year schedule for bacteria	
	compliance in order to mimic the scheduling adopted	
	in TMDLs developed for other areas of the Basin,	
	namely the Los Angeles River Bacteria TMDL.	
	However, according to Permit requirements, the USGR	
	EWMP Group must either propose a final compliance	
	date within the 5-year term of the Permit, or initiate a	
	stakeholder-proposed TMDL and incorporate the	
	implementation schedule for that TMDL. Because the	
	Regional Board recently approved a bacteria TMDL covering the SGR Watershed, at a minimum, the	
	USGR EWMP schedule for bacteria should be	
	consistent with the Regional Board-adopted TMDL,	
	which proposes a 20-year schedule for compliance, as	
	opposed to the currently proposed schedule of 25	
	years from the Los Angeles River Bacteria TMDL.	
III.B.iv	B. Proposed Compliance Schedules are in	This comment was not raised for, nor is it applicable to, the
	Violation of State or Federal Law or are Otherwise	NSMBCW EWMP.

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	Unreasonably Long	
	iv. Exceedances of RWLs Not Addressed by a	
	TMDL	
	Lastly, for exceedances of RWLs not addressed by a	
	TMDL, the EWMP must include milestones based on	
	measurable criteria or indicators and a schedule for	
	achieving the milestones, and demonstrate that the	
	RWLs will be achieved "as soon as possible." (Id. at	
	VI.C. 5.c. iii.) The time between interim dates shall not	
	exceed one year. Milestones shall relate to a specific	
	water quality endpoint and dates shall relate to taking	
	a specific action or meeting a milestone. (ld. at VI.C.2.a.iii(2)(c).)	
	ν1.Ο.Σ.α.III(Σ)(Ο).)	
	For the ULAR EWMP, interim and final wet weather	
	Category 3 WBPCs milestones are January 11, 2024	
	and January 11, 2028, respectively. The ULAR EWMP	
	defines Category 3 pollutants are defined as those	
	"pollutants with observed exceedances that are too	
	infrequent to be listed, and parameters that are not	
	considered typical pollutants." Permittees of the ULAR	
	EWMP do not provide any explanation for why and	
	how this schedule meets the "as soon as possible"	
	standard; at the very least, some level of analysis	
	should be provided to show how Permittees arrived at this schedule. Furthermore, Permittees fail to provide	
	interim milestones, in violation of Permit requirements.	
	interim milestories, in violation of Fermit requirements.	
	The USGR EWMP concludes that most of the WBPCs	
	in Group C are of the same class as the SGR Metals	
	TMDL WBPCs, therefore it is proposed that the Group	
	C WBPCs be linked to compliance schedules	
	established in the SGR Metals TMDL Implementation	
	Plan. The final compliance deadline for SGR Metals	

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III.C	TMDL is 2032. The USGR EWMP defines Group C pollutants as those "pollutants for which there are exceedances of RWLs, but for which the water body is not identified as impaired on the 303(d) List as of December 28, 2012." The Group C pollutants identified by the USGR EWMP are: sulfate, chloride, alpha-endosulfan, MBAS, and lindane. However, fate and transport characteristics of these pollutants are different from that of metals, and potential control measures may be different, therefore these should not be categorized as being in the same class of pollutants as those addressed in the SGR Metals TMDL. Therefore, Permittees' reliance on the implementation schedule for the SGR Metals TMDL for Group C pollutants is misplaced. C. Permittees' Use of the Exceedance Volume Approach is Flawed For the ULAR and USGR EWMPs, Permittees use a concept called "Exceedance Volume" to establish targets based on BMP capacity rather than strictly BMP load reduction. The Exceedance Volume was chosen based on an analysis of the 90th percentile 24-hour storm volume over a 10-year analysis period. The Exceedance Volume is the portion of the storm volume associated with concentrations exceeding WQBELs. Environmental Groups acknowledge that there are benefits to the Exceedance Volume metric, in particular with bacteria where concentrations are known to vary widely; however, this approach is nevertheless problematic for several reasons detailed below. First, in parts of the EWMPs, for example for the	This comment was not raised for, nor is it applicable to, the NSMBCW EWMP. The NSMBCW EWMP does not use an "Exceedance Volume" approach.
	interim targets, load reductions are used as a measure	

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No.	of progress. It is assumed that these load reductions are based on the load produced from the Exceedance Volume, but this is problematic because as the EWMPs acknowledge, concentrations of pollutants may vary significantly from one storm to another. In other words, the 90th percentile storm volume may not represent the 90th percentile load. This issue is of particular concern since the EWMPs define the compliance strategy in terms of volumes of stormwater and non-stormwater to be managed rather than by specific project lists, and thus allow for a tremendous amount of flexibility with regards to project location and project type. As the two EWMPs note, "the identified BMPs (and BMP preferences) will likely evolve over the course of adaptive management" The EWMPs note that as projects change, the EWMP Groups will demonstrate equivalency between projects. While demonstrating this equivalency is critical to the success of the Exceedance Volume approach, the EWMPs fall short of providing precise details on how this will be accomplished. Of particular concern are situations where the actual BMP type is switched, for instance, from a retention-type BMP to a flow-through BMP. Establishing equivalency in this case necessitates some translation from volume managed to actual load reduced, but as noted above, it is not clear how this would be accomplished and whether the load associated with the Exceedance	Los Aligeies Water Dould Nesponse
	Volume is appropriate. Further, and importantly, the Exceedance Volume approach fails to take into account differences in loading from different land uses – load reductions from	

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	BMPs tributary to primarily low density residential	
	areas will not be equivalent to load reductions from	
	BMPs tributary to primarily industrial land uses, for	
	instance, regardless of whether their actual volumetric	
	capacities are identical. If specific projects in specific	
	locations were outlined in the EWMPs, this may not be	
	an issue; however, as noted above, both EWMPs	
	instead set targets of Exceedance Volume managed	
	rather than specific project lists. Finally, because the	
	EWMPs use the Exceedance Volume approach to set	
	metrics for compliance rather than detailing specific	
	projects, it is impossible to evaluate error in the	
	proposed compliance strategy and thereby establish	
	the degree of confidence in the proposed plans to	
	achieve compliance with water quality standards.	
III.D	D. The Implementation Strategy Relies Too Heavily	This comment was not raised for, nor is it applicable to, the
	on the Adaptive Management Process, Which Itself	NSMBCW EWMP. The NSMBCW EWMP Group does not use
	Relies on Flawed and Inadequate Monitoring	the "Exceedance Volume" approach, so the concerns
	Programs	expressed related to this approach are not applicable to this
	Due to the fact that the ULAR and USGR EWMPs use	EWMP.
	the Exceedance Volume approach to establish a	
	"recipe for compliance" rather than name specific	Nevertheless, Part VI.C.8 of the Los Angeles County MS4
	projects that will be implemented, the robustness of	Permit specifies provisions for the Adaptive Management
	the adaptive management process is critical to	process. Adaptive management is an accepted process that is
	success of the approach. As noted in the previous	used in many fields, including watershed and stormwater
	section, a detailed methodology must be developed to	management. The Los Angeles Water Board has also
	establish equivalency between projects selected and	provided additional direction to EWMP groups on the adaptive
	volume targets, particularly in cases where flow-	management process and the Board's expectations for the
	through, rather than retention BMPs are proposed. The	scope of this periodic program review and updating process.
	adaptive management sections in both EWMPs,	The Board found that the level of reliance on adaptive
	however, do not come close to providing the level of	management in the Group's EWMP is appropriate given the
	detail necessary to achieve these goals. These	time span for program implementation.
	sections merely describe the need to show	
	equivalency, while failing to actually describe how this	The comments on the CIMPs are outside the scope of the Los

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	Another issue that is significantly related to the adaptive management process and critical to its success is the strength and adequacy of the Coordinated Integrated Monitoring Programs (CIMPs). In addition to the EWMPs, Permittees also develop CIMPs to collect water quality data and measure the effectiveness of the EWMPs. The CIMPs, therefore, is the ultimate driver for Permittees' decisions regarding future adaptive management of their EWMPs. However, as Environmental Groups have pointed out previously, the draft CIMPs developed by the EWMP Groups suffered from a litany of flaws. Unfortunately, Permittees' revised CIMPs failed to address most of the Environmental Groups' concerns. Despite the deficiencies that remain in the revised CIMPs, the Regional Board Executive Officer recently conditionally approved all of the revised monitoring programs; however, the conditions are themselves insufficient because they fail to address all of the CIMP inadequacies.	Angeles Water Board's review of the EWMPs. The Environmental Groups' comments on the draft CIMPs (letter dated 9/16/2014), some of which are also raised in this comment letter (in Appendix A) were considered during the Board's review of the CIMPs and prior to the approval of each CIMP. The Los Angeles Water Board disagrees with the commenters that the NSMBCW Group's monitoring programs are flawed and inadequate. The approved NSMBCW CIMP adequately addresses requirements of Attachment E of the Los Angeles County MS4 Permit. Therefore, the NSMBCW Group's reliance on the CIMP as part of their adaptive management approach is appropriate and consistent with permit requirements.
	While Environmental Groups have not seen the final draft CIMPs that were submitted by the EWMP Groups pursuant to the conditional approval letters (and we reserve the right to comment on those final CIMPs once they are issued to the public), the current state of the revised CIMPs is alarming because without an adequate CIMP in place, Permittees cannot engage in a meaningful adaptive management process. The State Board has stated that the adaptive management provisions of the 2012 Permit is one of the main reasons the EWMP process can ensure the necessary	

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	rigor and accountability to effectively and timely	
	achieve water quality standards. However, the success	
	of the adaptive management process depends on the	
	effectiveness of the CIMPs, therefore, at a minimum, the CIMPs must meet the substantive requirements of	
	the Permit in order to ensure that Permittees can	
	appropriately adapt the EWMP in response to	
	monitoring results and make modifications only when	
	necessary.	
III.E	E. There is Insufficient Analysis to Back up the	This comment was not raised for the NSMBCW EWMP.
	Claims About What can be Achieved Through	
	Green Streets Implementation and Regional BMPs	
	Implemented on Privately Owned Lands	
	The ULAR and USGR EWMPs rely on a tremendous	
	amount of green streets implementation for	
	compliance. While Environmental Groups are in favor	
	of distributed projects conceptually, practically	
	speaking, it is unclear whether the degree of implementation proposed is achievable. We do,	
	however, commend the EWMP Groups for discussing	
	the need for streamlining the process of green	
	infrastructure project implementation, but more	
	analysis is needed to demonstrate that the amount of	
	proposed green street projects are actually feasible	
	and achievable. In addition, the EWMPs also rely	
	heavily on regional BMPs implemented on privately	
	owned lands to achieve compliance, with this portion	
	of the "recipe" accounting for around 30% of the total	
	capacity. However, due to the uncertainty around the	
	ability to acquire such lands as well as the associated	
	costs of land acquisition, the practicality and	
	achievability of this goal is questionable.	A (((T)) A () O () ((T) O) D A
III.F	F. The EWMPs Lack Sufficient Detail to Achieve	As part of the Technical Advisory Committee (TAC) RAA
	Load Reductions Assumed From Institutional	subcommittee meetings, a 5% pollutant load reduction as a

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	BMPs In all of the EWMPs reviewed by Environmental Groups, institutional BMPs are assumed to account for between 5% and 10% of the load reduction with no data to support these assumptions. These goals may be achievable but require a structure dedicated to their attainment. However, there is little evidence of the development of an institutional framework and programs to reach these levels, either in the EWMPs or, apparently, anywhere else in the jurisdiction's organizations. The mechanisms are straightforward technologically but much more complex institutionally. Applying them successfully relies on a host of actions broadly spread through the affected communities, the participation of various jurisdictional agencies and numerous agency personnel, and cooperation by	result of implementing the additional requirements included in the provisions for Permittees' stormwater management programs/minimum control measures (MCMs) in the Los Angeles County MS4 Permit was determined to be reasonable. Section 5.2.3.1 of the NSMBCW revised EWMP addresses this: "A combined credit of 5 percent load reduction was applied for all pollutants to represent the cumulative benefit from all programmatic BMPs in addition to MCM enhancements the NSMBCW EWMP Group will implement." Stormwater management programs and MCMs have been implemented by Permittees in prior permit iterations. Hence, based on the reporting in Annual Reports, a reasonable assumption can be made that Permittees already have a
	many private citizens. Lacking a structure to implement them makes the assumptions questionable and requires evaluation of the consequences of not meeting the goals.	structure to implement institutional control measures, including Enhanced MCMs. Requiring the NSMBCW Group to provide the baseline implementation structure beyond what is currently detailed in the EWMP is not required by the Permit.
	Further, the ULAR EWMP suggests that institutional controls will be sufficient to achieve compliance with Category 2 and 3 dry weather metals WBPCs, while the USGR EWMP states that these will be sufficient to control all dry weather metals. As stated above, there is little data and little structure built into the EWMPs to provide assurance that these load reductions will be achievable through these programs. In addition, it is not clear how it was determined that a 5% or 10% reduction would be what is required to achieve compliance with a number of the metals WBPCs since zinc, copper, and lead were the only metals that were modeled. The EWMPs state that this assumption is	

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	made in part due to the infrequency of dry weather metals exceedances, but it seems that the ability for minimum control measures to address these exceedances should be more dependent on the actual magnitude of the exceedances rather than their frequency.	
III.G	G. In at Least Two Instances, the RAA's Model Calibration Regularly Diverges From Observed Values at Higher Stream Flows For the ULAR and USGR EWMPs, although the model calibration met the parameters specified in the RAA Guidelines, it seems to regularly diverge from observed values at higher stream flows. Both the ULAR and USGR EWMPs are designed around a relatively extreme condition (i.e., the 90th percentile storm), yet it is not clear whether an analysis was conducted to determine how the model would perform specifically at the stream flows expected from such a storm.	This comment was not raised for, nor is it applicable to, the NSMBCW EWMP.
III.H	H. The Analysis for LID BMPs is Limited to the Consideration of Only Two Approaches: Biofiltration and Bioretention In all of the draft EWMPs that Environmental Groups reviewed, the analyses assume low impact development (LID) BMPs would be a 50/50 split between biofiltration (underdrained) and bioretention (not underdrained). First, these two practices are not the only LID BMPs that might be chosen for the applications, yet others received zero consideration. Second, their capabilities differ considerably. Opendraining bioretention can infiltrate and evaporate a large fraction, even all, of the influent runoff, thus greatly or even fully diminishing pollutant loadings. The best evidence is that underdrained biofiltration, as	Comment considered. Given that the permit requires that Permittees utilize, in order of priority, bioretention and then biofiltration BMPs in the Planning and Land Development provisions, it is reasonable that the EWMP group similarly focuses its watershed analysis on these two broad categories of LID BMP approaches in its EWMP. In addition, biofiltration and bioretention BMPs are among the most effective for a wide range of pollutants based on data in the WERF/ASCE database. Further, choosing distributed LID BMPs to achieve the water quality requirements of the permit is at the discretion of Permittees. Apart from the RAA and other permit requirements, additional analysis of other LID BMP approaches is not required by the permit.

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	normally constructed, is limited to withholding through evaporation roughly 30% of the runoff received. Load	
	reductions also benefit from pollutant concentration	
	decreases but generally do not approach those	
	achieved with open-draining bioretention.	
	Furthermore, there was no examination in the EWMPs	
	of the feasibility of reaching 50% bioretention	
	capability, or, alternatively, of surpassing it and doing	
	better with load reduction. While the best procedure	
	would be to conduct that examination, as well as to	
	consider other LID BMPs, a substitute in the absence	
	of these steps is to conduct a sensitivity analysis to examine the implications of other arrangements (e.g.,	
	a 70/30 or 30/70 split) and see how the results	
	change. The purpose in this case would be to add	
	assurance that the LID BMPs proposed would actually	
	reach the target load reductions (TLRs) if field	
	conditions ultimately dictate a different scenario than	
	represented by the primary model assumption.	
III.I	I. The Assumptions Regarding Redevelopment are	The RAA implicitly incorporates post-construction BMP
	Inadequate	implementation related to new development and significant
	For the NSMBCW and Beach Cities EWMPs,	redevelopment under the 2001 Los Angeles County MS4
	achieving TLRs further relies on BMP installation	Permit's SUSMP provisions. The RAA included validation of
	during redevelopment: (1) from 2003 to the present –	the modeling methodology; specifically, the Group verified the
	as prescribed by the 2001 MS4 Permit's Standard	linkage between modeled pollutant loads and observed
	Urban Stormwater Management Program (SUSMP)	exceedance days using shoreline monitoring data at Topanga
	provisions; and (2) from the present forward – according to the 2012 Permit's LID requirements.	Canyon between 2005 and 2013. The period reflects the period during which the 2001 MS4 Permit's SUSMP
	However, the Permittees did not conduct an	provisions were in effect. The analysis showed a reasonable
	examination of actual achievements of stormwater	correlation between modeled loads and observed exceedance
	treatment BMPs in the past. For various reasons,	days. Additional analysis is not required by the permit.
	regulatory requirements are usually not completely	asystems and your to the trought of the political
	fulfilled. Furthermore, there was no particular attention	In its Review Letter, the Los Angeles Water Board commented

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	given to an enhanced institutional framework and programs to advance application of the present Permit requirements. As with the assumptions regarding programmatic BMPs and residential incentives, lacking verification of historical performance and a solid structure to advance future implementation makes the assumptions uncertain and requires appraisal of the repercussions of that uncertainty.	that the EWMP Group "[f]urther substantiate or reference redevelopment rates on pages 89-90 of the EWMP. Redevelopment rates should be tracked and evaluated via the adaptive management process, to confirm or adjust initial assumptions." As implementation progresses, the Group will be required to evaluate its assumptions regarding redevelopment rates and modify its EWMP, if necessary.
	Moreover, Permittees' reliance on the redevelopment rates used in the EWMPs lacks justification. For example, in the Beach Cities EWMP, BMPs added through redevelopment, in the past and projected in the future, were based on redevelopment rate data from the Cities of Hermosa Beach and Manhattan Beach and, otherwise, from the Los Angeles region. There is little explanation of how the specific city rates were obtained, and no explanation at all for the regional ones. On the presumption that they are statistical means over some period, they have some statistical variance, particularly because the period over which they were likely to be derived experienced substantial economic fluctuations inevitably affecting redevelopment. This variance is one more source lending uncertainty to predictions that should be quantified and incorporated in the overall potential error analysis. For the other three EWMPs that Environmental Groups reviewed, BMPs added through redevelopment, in the past and projected in the future, were based on redevelopment rate data from the Los Angeles region. Again, there is no explanation of how	The revised EWMP was responsive to this comment and commits to updating the values based on collected data, as necessary.
III.J	these rates were obtained, and as explained above, the statistic variance is problematic.	Comment considered. Note that Figure 10 is presented as
III.J	J. In at Least Two Instances, There are Several	Comment considered. Note that Figure 10 is presented as

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	Potential Sources of Error Associated with the	Figure 11 in the revised NSMBCW EWMP. An additional
	Data Underlying the Model Calibration	figure (Figure 12) was included in response to the Los
	In the NSMBCW and Beach Cities EWMPs, there are	Angeles Water Board's comments on the draft EWMP, which
	several potential sources of error associated with the	focuses on the frequency curve for the annual runoff volume.
	data underlying modeling, with no quantitative analysis	Board staff compared the model results against the observed
	of these sources and the associated level of certainty	results at the 90% level. Board staff found that the model
	in the forecasts of load reductions and BMPs needed	results were higher, indicating that the model is a conservative
	to accomplish them. Potential error sources include:	one. In addition, visual examination of the graph alone cannot
		determine the quality of the calibration between predicted and
	 For the NSMBCW EWMP, the model flow 	actual runoff volume. The model performance with respect to
	calibration was rated as "very good" according	hydrology based on the calibration is considered "very good"
	to the Regional Board's RAA Guidance, but still	with an average relative prediction error of -0.24%.
	has associated potential error, as evident in the	Demandian Figure 44 in the dualt FWARD (which in Figure 42 in
	deviation of points from the diagonal line in	Regarding Figure 11 in the draft EWMP (which is Figure 13 in
	Figure 10. These dispersions should be	the revised EWMP), the data on fecal coliform that were used are limited (4 data points) and based on data collected from
	quantified (in terms of confidence limits or some other statistical measure of the excursion	2001-2004. The Group commits to reevaluating EMCs as
	of model predictions from measured data) and	more data become available. In addition to the model
	taken into account in an overall analysis of the	calibration in Section 4.5.2 of the revised EWMP, the Group
	level of certainty in the model predictions and	also validated its model using recent shoreline bacteria
	compliance demonstration.	monitoring results from Leo Carrillo Beach and Topanga
	For the NSMBCW EWMP, the model water	Beach. These validation steps illustrated a reasonable
	quality calibration is not as "good" as the flow	correlation between the modeled results and observed water
	calibration. Environmental Groups do not agree	quality.
	with the EWMP's conclusion that Figure 11	
	portrays "very good" agreement. The	Regarding Figure 12 in the draft EWMP (which is Figure 14 in
	distributions of modeled versus measured fecal	the revised EWMP), each of the 7 data points represents an
	coliform measurements actually deviate fairly	annual number of exceedance days; in other words, these 7
	substantially, especially in the higher portion of	data points represent water quality conditions over 7 years. A
	the data range. Again, this dispersion should	R ² (correlation coefficient) of 0.83 is considered good. ² As
	be quantified and included in the overall	noted above, the Group commits to reevaluating model inputs
	certainty analysis.	as more monitoring data are available.

² Any R² above 0.75 is considered good.

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NO.	 Neither EWMP directly models expected compliance with the bacteria exceedance day limits in the TMDL. Instead, a relationship was developed between fecal coliform loadings and exceedance days, so that the latter can be estimated from a model prediction of the former variable. Figure 12 and Figure 2-10 present the relationship, a statistical regression equation, for the NSMBWC and Beach Cities EWMPs, respectively. The R2 value presented on the graphs indicates that loading explains 83% of the variance in exceedance days. While this represents a good relationship, it is not perfect and has potential error associated with it. It is also a product of only seven data points, and a relatively small data set itself spreads the confidence interval associated with a predictive relationship. As with the other potential error sources discussed, this one too should be quantified and brought into the overall certainty analysis. When it was necessary to convert Escherichia coli (E. coli) measurements to fecal coliforms (FC), a ratio of E. coli/FC = 0.85 was assumed. A U.S. Geological Survey study found substantial variation in the ratio and quantified confidence limits. This is an additional potential source of error that should be taken into account in forecasting load reductions and specifying BMPs sufficient to provide a low risk of not meeting target reductions. 	The USGS study found a strong correlation between E. coli and fecal coliform concentrations, but also notes that the ratio between E. coli and fecal coliform concentrations is often site-specific. The USGS study examined water quality data from sites in Ohio. The ratio of 0.85 was developed based on local water quality data from the Los Angeles Region, and has been accepted by the Los Angeles Water Board as a site-specific ratio for the Los Angeles Region.
III.K	K. The Margins for Error in Reaching TLRs as a	Comment considered. Based on its review of the draft EWMP,
	Result of BMP Implementation are Extremely Small	the Los Angeles Water Board concluded that the analysis
	As explained above, for the NSMBCW and Beach	demonstrated reasonable assurance that the TLR would be

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achieved. The margins of error in the draft EWMP are in addition to the existing margins of safety included in the TMDLs. The Los Angeles County MS4 Permit does not require the Group to provide error margins for TLRs. Note that as per Part VI.C.8.a.i.(5) of the Permit, adaptive management requires the Group to evaluate BMP effectiveness. Furthermore, see the response to Comment No. III.F for response on assumptions for institutional BMPs.

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	their effects on the wet weather RAA demonstration of	
	compliance. Tables 2-16 and 3-12 summarize that	
	demonstration for the SMB watershed and DC	
	watershed, respectively. Columns toward the right side	
	of each table show cumulative pollutant load	
	reductions (resulting from all BMPs) and TLRs. Only	
	two of 18 SMB watershed analysis regions were	
	modeled to have fecal coliform TLRs. Comparison of	
	the data for these two regions in Table 2-16 shows	
	very small margins for error in reaching the TLRs	
	forecast to result from BMP implementation – only 1%	
	in one case and 4% in the other. As discussed above	
	and shown in the table, substantial, and questionable,	
	contributions to loading reductions are from	
	assumptions: (1) 5% accruing from programmatic	
	BMPs, (2) 10% participation in home downspout	
	disconnection, (3) BMPs already installed during	
	redevelopment, and (4) assumptions that Caltrans and	
	industrial areas will achieve their permit requirements.	
	In the case with only 1% margin between load	
	reduction (46% of base load) and TLR (45% of base	
	load), these highly uncertain sources of reduced	
	pollutant loadings are assumed to account in total for	
	11% of the 46%. In the case with 4% margin between	
	loading reduction (50% of base load) and TLR (46% of	
	base load), these highly uncertain sources of reduced	
	pollutant loadings are again assumed to account in total for 11% of the 50%.	
	101a1 101 1 1 76 01 1118 3076.	
	The DC watershed has zinc, copper, and fecal coliform	
	WBPCs. Only the Redondo Beach and Manhattan	
	Beach portions of the watershed were modeled for the	
	wet weather RAA. The Torrance part was not	
	appropriately modeled or subjected to an adequate	

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INO.	RAA, because beyond some non-structural measures,	
	Torrance has committed only to catch basin inserts in	
	a fraction (less than one-third) of its drain inlets.	
	Because estimated load reductions are associated	
	only with individual inserts, the estimates cannot be	
	applied to the entire analysis region. Failure to perform	
	an adequate RAA for a significant part of the	
	watershed is a violation of Permit requirements, and	
	undermines the validity of the RAA and the EWMP.	
	For the Redondo Beach and Manhattan Beach	
	portions of the DC watershed, Table 3-12 indicates the	
	final copper and fecal coliform TLRs to be met handily, but the final zinc and interim fecal coliform TLR	
	achievements to be marginal (0-0.1% difference in	
	estimated load reduction and the respective TLRs for	
	interim fecal coliforms and 3% for zinc). The	
	questionable assumptions regarding programmatic	
	BMPs, home downspout disconnection, BMPs already	
	installed during redevelopment, and the Caltrans and	
	industrial permit compliance are credited for 20% of	
	the 79% loading reduction forecast for zinc (against a	
	TLR of 76%), with 6% from the latter exceptionably	
	doubtful assumption. Thus, there is no real margin, the	
	situation also existing for the interim fecal coliform	
	requirements. The healthy margin for copper (23%) is	
	heavily influenced by brake pad reduction, which is	
	thus crucial to achieve. The margin for the final fecal	
	coliform TLR is much greater (41%) and accounted for	
	in large measure by new regional and distributed BMPs, the completion of which is thus also crucial.	
	bivirs, the completion of which is thus also crucial.	
	The larger point underlying all of the discussion in this	
	section is that, as pointed out above, there are more	

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	potential sources of error (beyond the assumptions Environmental Groups have pointed out thus far). In the face of all this uncertainty, it is highly unlikely that the generally extremely slim margins allowed will lead to compliance. The responsible and essential procedure is to quantify all of these potential sources and determine what BMPs are necessary to give some set level of assurance (e.g., 90%) of achieving compliance.	
III.L	L. In at Least Two Instances, Permittees Fail to Consider the Possible Intermingling of Privately Owned Stormwater Infrastructure Within the Full MS4 System The analyses in the NSMBCW and Beach Cities EWMPs were based entirely on publically owned drainage outfalls, without consideration of intermingling of privately owned stormwater infrastructure with the MS4 system. The MS4 system is defined by the federal regulations as "a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) [o]wned or operated by a state, city, town, borough, county, parish, district, association, or other public body (created to or pursuant to state law) including special districts under state law such as a sewer district, flood control district or drainage district" Comingled "public" and "private" stormwater, therefore, is regulated by the Permit, and is the responsibility of the municipal Permittees. Thus, the NSMBCW and Beach Cities EWMPs illegally exclude the analysis of a significant source of pollutant loads to receiving waters, and thereby limit the analysis of reductions required on that basis. Without inclusion of all MS4	Comment considered. Federal regulations at 40 CFR section 122.26(b)(8) define a MS4 as the following: Municipal separate storm sewer means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains): • Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the United States; • Designed or used for collecting or conveying storm water; • Which is not a combined sewer; and • Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

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	discharges, the EWMPs cannot ensure compliance with RWLs or TMDL-specific limitations, and therefore do not comply with the requirements of the 2012 Permit.	By its own terms, this definition does not include privately owned stormwater infrastructure. As such, privately owned stormwater infrastructure is not regulated by the Los Angeles County MS4 Permit. However, to the extent that there are discharges from privately owned infrastructure to the Permittees' MS4s, those discharged are regulated by the Los Angeles County MS4 Permit and the Permittees have provided documentation that they possess the legal authority to control such discharges through their MS4s, consistent with Part VI.A.2 of the permit.
		Further, the Los Angeles Water Board commented in its Review Letter that the Group "Address any intermingling of discharges from privately owned stormwater infrastructure into the MS4 in the appropriate elements of the revised EWMP." The revised NSMBCW EWMP included clarification responsive to this comment, stating that, "[t]he RAA was conducted based on land uses and was inclusive of private property/drains within the EWMP Area. As a result, the EWMP inherently addresses runoff from private property that enters the NSMBCW MS4."
III.M	M. In at Least One Instance, No Analysis of Standards Applicable to Discharges to ASBS are Included, and Existing Data for Discharges to ASBS are Not Included in the Modeling Exercise or the EWMP	This comment was considered and reflected in the Los Angeles Water Board's Review Letter, as appropriate. As an initial matter, the ASBS Pollution Prevention Plan is for non-point source discharges; therefore, it is not applicable to
	Beyond referencing the draft Compliance Plan and draft Pollution Prevention Plan (ASBS Plans), the NSMBCW EWMP ignores the standards applicable to the receiving waters, designated as Areas of Special	MS4 discharges. As a result, its adequacy is outside the scope of the Los Angeles Water Board's solicitation of public comments related to the draft EWMPs.
	Biological Significance (ASBS), as well as the data collected in the receiving waters pursuant to the State Board's ASBS program. The NSMBCW EWMP's approach to ASBS discharges is inadequate for at	The ASBS 24 Compliance Plan submitted by the County of Los Angeles and the City of Malibu is specifically geared toward addressing MS4 discharges from the area within the EWMP that drains to ASBS 24. In its Review Letter, the Los

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	least two reasons: 1) The draft ASBS Plans are inadequate and do not meet the requirement of either the ASBS Exception or the 2012 Permit; 2) The EWMP applies the wrong water quality standards, and ignores extensive available sampling data, rendering its analysis incomplete and inconsistent with Permit requirements. NRDC and Los Angeles Waterkeeper submitted comments on the draft ASBS Plans detailing their inadequacies in January 2015. In summary:	Angeles Water Board made several comments to the NSMBCW EWMP Group regarding its consideration of the ASBS within the NSMBCW boundaries. The revised EWMP was responsive to these comments. Specifically, the Los Angeles Water Board made the following comments. Following each comment are the actions taken/Group's responses to these comments (indicated in italics). 1. As part of the EWMP, provide specificity on the number of MS4 outfalls and their ownership within the ASBS 24 area. Ensure consistency with "Area of Special Biological Significance 24, Compliance Plan for the County of Los Angeles and City of Malibu, September 20, 2015" (ASBS 24 Compliance Plan).
	 The ASBS Plans fail to address non-stormwater discharges, which are strictly prohibited into the ASBS. Dry weather discharges were observed by Permittees 73 times in 2012 and 2013, even with reconnaissance on only eight dates; yet, the ASBS Plans propose nothing beyond existing outreach and education programs. The ASBS Plans improperly exempt pipes smaller than 18 inches diameter from meaningful pollution control. This arbitrary and 	 The number of outfalls has been added to the EWMP, and consistency with the ASBS Compliance Plan has been verified. Integrate the ASBS 24 Compliance Plan into the EWMP. a. Particular attention should be paid to integrating the actions in sections 3 and sections 6 into the appropriate elements of the EWMP. b. Ensure the actions in the EWMP are in alignment with the schedule (section 8) in the ASBS
	 illegal definition eliminates dozens of MS4 discharge pipes from control. Receiving water sampling conducted pursuant to ASBS requirements demonstrate alteration of natural water quality concerning selenium, total polyaromatic hydrocarbon, and mercury. Although end-of-pipe sampling demonstrates exceedances of Ocean Plan Instantaneous Maximum limits for ammonia and a number of 	Compliance Plan. The ASBS 24 Compliance Plan has been integrated by way of reference, and BMPs/MCMs between the EWMP and Compliance Plan have been verified to be consistent. 3. Discuss in the EWMP any unique watershed control measures to address MS4 discharges of non-stormwater and stormwater that are being taken within the ASBS 24

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	metals, the ASBS Plans neither acknowledge these exceedances, nor propose to meet compliance, either by meeting Ocean Plan	that are not being taken in areas outside of the ASBS but still within the NSMB EWMP area.
	limits or reducing baseline pollutant discharges by at least 90%.	There are no unique watershed control measures that are specific to the ASBS. Rather, the NSMBCW EWMP Group has proactively chosen to implement these BMPs throughout
	Rather than relying on these flawed plans, the NSMBCW EWMP must conduct its own RAA, based	the entire EWMP Area, as applicable.
	on all available data, and the applicable standards. Because the ASBS was the focus of regulatory	As noted above, the revised EWMP incorporates by reference the ASBS Compliance Plan. Regarding the ASBS Compliance
	attention at the State Board level for a number of years, considerable data is available. The State Board collected outfall and receiving water data in developing	Plan itself, the County of Los Angeles and the City of Malibu initially submitted a draft ASBS Compliance Plan in September 2014. The State Water Resources Control Board
	the ASBS Exception. Under the terms of the Exception, Los Angeles County and Malibu collected outfall and receiving water data beginning in 2013.	provided comments on the draft ASBS Compliance Plan on March 17, 2015. The County and City submitted a revised ASBS Compliance Plan in September 2015 and the State
	However, the NSMBCW EWMP nowhere references this data – data collected by the municipalities	Water Board is in the process of reviewing the revised plan. Comments on the adequacy of the revised ASBS Compliance
	to include the data in the modeling exercise. Further, the ASBS Exception requires that dischargers develop	Plan submitted pursuant to the requirements of the Special Protections provisions of the California Ocean Plan are therefore outside the scope of the EWMP review process.
	plans to achieve either: 1) Ocean Plan Instantaneous Maximum limits at all discharges points, or 2) 90% reduction in pollutant loads based on an articulated	However, if there are any inconsistencies between the ASBS Compliance Plan and the EWMP after the State Water
	baseline calculation. Compliance is required within six years, or 2019. Again, the NSMBCW EWMP fails completely to consider these applicable standards, or	Board's review, the Los Angeles Water Board will require the NSMBCW Group to update its EWMP through the adaptive management process to ensure consistency between the two
	the compliance deadline, as set out in the ASBS Exception.	documents. Such updates may include, but are not limited to, incorporation of additional category 3 pollutants based on an evaluation of monitoring data from the ASBS relative to
	Because the NSMBCW EWMP effectively eliminates consideration of ASBS data, or ASBS regulatory	applicable water quality objectives.
	requirements, it fails to comply with state and federal law, and the requirements of the 2012 Permit.	Finally, based on review of the draft EWMP, the Los Angeles Water Board determined that applicable water quality

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		standards were referenced and appropriate monitoring data were reviewed, including those data presented in the ASBS Compliance Plan, which as noted above, is incorporated by reference into the revised EWMP.
		Regarding the compliance deadline of 2019 for implementation of the ASBS requirements of the California Ocean Plan, the analysis and conclusions in the ASBS 24 Compliance Plan submitted by the County of Los Angeles and City of Malibu indicate that no additional structural controls (BMPs) are required based on the guidance presented within the Special Protections provisions. As noted above, the revised ASBS Compliance Plan is still under review by the State Water Board.
III.N	N. There is Insufficient Data to Demonstrate Reasonable Assurance of Compliance with Applicable Dry Weather Permit Limits For NSMBCW, the EWMP assumes reasonable assurance is demonstrated for a compliance monitoring location (CML) if any one of four criteria is	Comment considered. The Los Angeles Water Board reviewed the Group's RAA for dry weather related to the SMB Beaches Bacteria TMDL requirements and found it to be appropriate; note, however, that the RAA was not required since the final dry weather bacteria TMDL deadlines have passed.
	 met, namely: Diversion or infiltration eliminates all dry weather discharge, or disinfection is provided and is effective (claimed for two CMLs); There are no jurisdictionally owned MS4 	See also response to Comment No. III.L regarding possible intermingling of privately owned stormwater infrastructure within the MS4.
	 outfalls (claimed for eight CMLs); If all bacteria exceedance day requirements are met in four of the past five years and in the last two years (claimed for one CML); and/or If dry weather discharges have been eliminated (claimed for 18 CMLs). 	The Los Angeles Water Board has required continued re- evaluation of the dry weather RAA as new data are collected. In its Review Letter, the Los Angeles Water Board commented: "Include in the EWMP a plan to reevaluate the dry weather RAA (analysis presented in Table 29, page 111) with updated data biennially per the adaptive management process where there are any MS4 outfalls (major and minor)." The revised EWMP was responsive to this comment
	,	with updated data biennially per the adaptive manager

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	EWMP's failure to consider the interrelationship	
	between private and public drainage, the second	
	criterion and the claims asserted regarding it are	
	problematic. Concerning the fourth criterion and the extensive claims associated with it, outfalls were	
	screened on only eight dates in 2014 and 2015 for the	
	EWMP effort. There is no detail on the observations,	
	only the inclusion of a note to Table 29 stating that the	
	associated column entry of "yes" indicates that no dry	
	weather flows were present. However, the data	
	collected in the ASBS assessment and summarized	
	above shows extensive dry weather discharges	
	occurring in the ASBS portion of the study area.	
III.O	O. In at Least Two Instances, There is Very Little to	Comment was considered and reflected in the Los Angeles
	No Discussion on How Trash Reduction	Water Board's Review Letter, as appropriate. The Board
	Requirements will be Met	made several comments pertaining to the discussion of trash
	Both the NSMBCW and Beach Cities EWMPs are very	controls in the draft EWMP. The NSMBCW Group made
	weak on specifying how trash reduction requirements	revisions to Sections 2.1.2 and 7.2.2 in the revised EWMP,
	will be met. The plans say no more than there will be	which were responsive to the Board's comments.
	phased catch basin retrofits to meet the 20% per year reduction targets. Moreover, the plans give no	
	information, or any sign of thinking about, such	
	subjects as: (1) what trash source controls might be	
	brought to bear on the problem, (2) the equipment that	
	will be used in the retrofits, (3) the rate at which it must	
	be installed to meet the targets, (4) where and when it	
	can be most strategically placed, and (5) what options	
	there are if targets are not met.	
III.P	P. The Claims About Removal Efficiencies by	This comment was not raised for, nor applicable to, the
	Catch Basin Inserts are Questionable	NSMBCW EWMP. Catch basin inserts in the NSMBCW
	Appendix B of the Beach Cities EWMP covers the RAA for the DC watershed within the city of Torrance.	EWMP are for trash control, per the Santa Monica Bay Debris TMDL. Aside from trash control, the EWMP Group did not
	The central feature of Torrance's proposed	assume any other pollutant removal associated with these

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	contribution to meeting TLRs is the installation of	devices.
	inserts in less than one-third of the catch basins in the	
	subwatershed. The appendix cites insert	
	manufacturers' literature, an unreliable gauge of	
	performance without independent verification, and a few studies to claim questionably high catch basin	
	insert removal efficiencies for the pollutants of interest.	
	insert removal emolericles for the pollutarits of interest.	
	Appendix B presents what it terms a "literature review"	
	in its own Appendix B. However, this latter appendix	
	omits some studies cited in the text and contains only	
	some manufacturers' "fact sheets" and one very long	
	report of a study completely concerned with removal of	
	oil and grease, not one of the WBPCs. The items are	
	just pasted into the appendix with no assessment of	
	their contents and no development and justification of	
	conclusions used in the RAA. It is thus not a literature	
	review at all. The review also omits studies not	
	supporting its claims. A particular example is the Caltrans BMP Retrofit Pilot Program. This study found	
	two different inserts to provide only 0-7% mass loading	
	reduction efficiencies for copper, lead, and zinc. The	
	inserts also needed substantial maintenance attention,	
	including during storms; i.e., they did not operate	
	passively and unattended. With this experience,	
	Caltrans did not adopt inserts as an accepted BMP.	
	An additional weakness of the Torrance RAA coverage	
	of drain inlet inserts is citing performance in terms of	
	pollutant concentration reduction efficiency, instead of	
	mass loading reduction efficiency as used by Caltrans.	
	As has been widely discussed in the literature,	
	percentage concentration reduction efficiency is a	
	misleading concept. This measure can be manipulated	

Comment No.	NRDC, LA Waterkeeper, and Heal the Bay Comment	Los Angeles Water Board Response
	by feeding high concentrations into the unit and measuring a respectable percentage reductions but	
	still having relatively high concentrations in the effluent.	





Los Angeles Regional Water Quality Control Board

Los Angeles County MS4 Permittees and Other Interested Persons TO:

Samuel Unger Samuel Urger Executive Officer FROM:

DATE: May 11, 2016

NOTICE OF AVAILABILITY OF RESPONSES TO WRITTEN COMMENTS ON SUBJECT:

> DRAFT ENHANCED WATERSHED MANAGEMENT PROGRAMS (EWMPs) SUBMITTED PURSUANT TO THE LOS ANGELES COUNTY MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) PERMIT (NPDES PERMIT NO. CAS004001: ORDER NO. R4-2012-0175 AS AMENDED BY STATE BOARD

ORDER WQ 2015-0075)

On July 1, 2015, the Los Angeles Regional Water Quality Control Board (Los Angeles Water Board) provided public notice and a 61-day period to allow for public review and written comment on twelve draft EWMPs that were submitted by Los Angeles County MS4 Permittees pursuant to Part VI.C of the Los Angeles County MS4 Permit. A separate notice of availability regarding the draft EWMPs was directed to State Senators and Assembly Members within the Coastal Watersheds of Los Angeles County. By the August 30, 2015 comment deadline, four comment letters had been received on the draft EWMPs.

The Natural Resources Defense Council, Los Angeles Waterkeeper, and Heal the Bay (collectively, Environmental Groups) submitted specific written comments on four of the draft EWMPs - the Upper Los Angeles River, Upper San Gabriel River, North Santa Monica Bay, and Beach Cities EWMPs. The Los Angeles County Sanitation Districts (LACSD) submitted specific written comments on the Palos Verdes Peninsula EWMP. Ms. Joyce Dillard submitted specific written comments on five of the EWMPs - the Upper Los Angeles River, Dominguez Channel, Ballona Creek, Marina del Rey, and Santa Monica Bay Jurisdictional Groups 2 and 3 EWMPs. Finally, the Construction Industry Coalition on Water Quality (CICWQ) submitted general comment on all twelve draft EWMPs.

Los Angeles Water Board responses to specific comments¹ made by these commenters on the following EWMPs are available on the Los Angeles Water Board's web site:

- Beach Cities draft EWMP:
- North Santa Monica Bay Coastal Watersheds draft EWMP;
- Palos Verdes Peninsula draft EWMP; and
- Marina del Rey draft EWMP.

The web site address is:

http://www.waterboards.ca.gov/losangeles/water_issues/programs/stormwater/municipal/waters hed_management/comments/9-3-2015/index.shtml.

The Board previously made available, on May 4, 2016, its responses to written comments made by the Construction Industry Coalition on Water Quality as well as its responses to the Environmental Groups' specific written comments on the Upper San Gabriel River draft EWMP.

The Board's responses to the specific written comments made by the Environmental Groups and Ms. Dillard on other draft EWMPs will be made available in the near future through a separate notice(s) of availability.

Please contact Mr. Ivar Ridgeway at (213) 620-2150 or lvar.Ridgeway@waterboards.ca.gov with any questions regarding these documents.

¹ On March 8, 2016, Los Angeles Waterkeeper, Heal the Bay, and Natural Resources Defense Council submitted a joint letter to the Los Angeles Water Board asserting that both federal and California law require the Board to issue written responses to comments prior to any decision by the Board or Executive Officer approving or denying the EWMPs, which were currently under review. On April 12, 2016, the Board responded to the letter disagreeing that written responses to comments are legally required prior to a decision on the adequacy of the EWMPs. However, given the public interest in the determinations on the adequacy of the EWMPs, the Board stated that it would nevertheless provide responses to written comments as a courtesy either before, at the same time, or within a reasonable time after determinations on the EWMPs have been made.