### Amendment to the Water Quality Control Plan – Los Angeles Region to incorporate Implementation Provisions for the Region's Bacteria Objectives and to incorporate the Santa Monica Bay Beaches Wet-Weather Bacteria TMDL

Adopted by the California Regional Water Quality Control Board, Los Angeles Region on December 12, 2002.

#### Amendments:

#### List of Figures, Tables and Inserts

Add under Chapter 7, Section 7-4 (Santa Monica Bay Beaches Bacteria TMDL): Tables 7-4.4. Santa Monica Bay Beaches Bacteria TMDL (Wet Weather Only): Elements

7-4.4. Santa Momea Day Deaches Dacteria IMDE (Wet Weather Only). Elements
7-4.5. Santa Monica Bay Beaches Bacteria TMDL (Wet Weather Only): Final Allowable
Exceedance Days by Beach Location
7-4.6. Santa Monica Bay Beaches Bacteria TMDL (Wet Weather Only): Interim Compliance
Targets by Jurisdictional Groups
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#### Chapter 3. Water Quality Objectives, "Bacteria, Coliform"

Add under "Implementation Provisions for Water Contact Recreation Bacteria Objectives"

The single sample bacteriological objectives shall be strictly applied except when provided for in a Total Maximum Daily Load (TMDL). In all circumstances, including in the context of a TMDL, the geometric mean objectives shall be strictly applied. In the context of a TMDL, the Regional Board may implement the single sample objectives in fresh and marine waters by using a 'reference system/antidegradation ap roach' or 'natural sources exclusion approach' as discussed below. A reference system is defined as an area and associated monitoring point that is not impacted by human activities that potentially affect bacteria densities in the receiving water body.

These approaches recognize that there are natural sources of bacteria, which may cause or contribute to exceedances of the single sample objectives for bacterial indicators. They also acknowledge that it is not the intent of the Regional Board to require treatment or diversion of natural water bodies or to require treatment of natural sources of bacteria from undeveloped areas. Such requirements, if imposed by the Regional Board, could adversely affect valuable aquatic life and wildlife beneficial uses supported by natural water bodies in the Region.

Under the reference system/antidegradation implementation procedure, a certain frequency of exceedance of the single sample objectives above shall be permitted on the basis of the observed exceedance frequency in the selected reference system or the targeted water body, whichever is less. The reference system/anti-degradation approach ensures that bacteriological water quality is at least as good as that of a reference system and that no degradation of existing bacteriological water quality is permitted where existing bacteriological water quality is better than that of the selected reference system.

Under the natural sources exclusion implementation procedure, after all anthropogenic sources of bacteria have been controlled such that they do not cause or contribute to an exceedance of the single sample objectives and natural sources have been identified and quantified, a certain frequency of exceedance of the single sample objectives shall be permitted based on the residual exceedance frequency in the specific water body. The residual exceedance frequency shall define the background level of exceedance due to natural sources. The 'natural sources exclusion' approach may be used if an appropriate reference system cannot be identified due to unique characteristics of the target water body. These approaches are

consistent with the State Antidegradation Policy (State Board Resolution No. 68-16) and with federal antidegradation requirements (40 CFR 131.12).

The appropriateness of these approaches and the specific exceedance frequencies to be permitted under each will be evaluated within the context of TMDL development for a specific water body, at which time the Regional Board may select one of these approaches, if appropriate.

These implementation procedures may only be implemented within the context of a TMDL addressing municipal storm water, including the municipal storm water requirements of the Statewide Permit for Storm Water Discharges from the State of California Department of Transportation (Caltrans), and non-point sources discharges. These implementation provisions do not apply to NPDES discharges other than MS4 discharges.<sup>1</sup>

# Chapter 7. Total Maximum Daily Loads (TMDLs) Summaries, Section 7-4 (Santa Monica Bay Beaches Bacteria TMDL)

#### Santa Monica Bay Beaches Bacteria TMDL (Wet Weather Only)\*

This TMDL was adopted by the Regional Water Quality Control Board on December 12, 2002.

This TMDL was approved by:

The State Water Resources Control Board on [Insert Date]. The Office of Administrative Law on [Insert Date]. The U.S. Environmental Protection Agency on [Insert Date].

The following table summarizes the key elements of this TMDL.

<sup>&</sup>lt;sup>1</sup> Municipal storm water discharges in the Los Angeles Region are those with permits under the Municipal Separate Storm Sewer System (MS4) NPDES Program. For example, the MS4 permits at the time of this amendment are the Los Angeles County Municipal Storm Water NPDES Permit, Ventura County Municipal Storm Water NPDES Permit, City of Long Beach Municipal Storm Water NPDES Permit, and elements of the statewide storm water permit for the California Department of Transportation (Caltrans). Final – 12/12/02 2

Table 7-4.4. Santa Monica Bay	Beaches Bacteria TMDL (	(Wet Weather Only): Elements

Element	Key Findings and Regulatory Provisions
Problem Statement	Elevated bacterial indicator densities are causing impairment of the
Troblem Statement	water contact recreation (REC-1) beneficial use at many Santa Monica
	Bay (SMB) beaches. Swimming in waters with elevated bacterial
	indicator densities has long been associated with adverse health effects.
	Specifically, local and national epidemiological studies compel the
	conclusion that there is a causal relationship between adverse health effects and recreational water quality, as measured by bacterial
	indicator densities.
Numeric Target	The TMDL has a multi-part numeric target based on the bacteriological
(Interpretation of the numeric	water quality objectives for marine water to protect the water contact
water quality objective, used to	recreation (REC-1) use. These targets are the most appropriate
calculate the waste load	indicators of public health risk in recreational waters.
allocations)	indicators of public nearth risk in recreational waters.
	These bacteriological objectives are set forth in Chapter 3 of the Basin
	Plan, as amended by the Regional Board on October 25, 2001. The
	objectives are based on four bacterial indicators and include both
	geometric mean limits and single sample limits. The Basin Plan
	objectives that serve as numeric targets for this TMDL are:
	1. Rolling 30-day Geometric Mean Limits
	a. Total coliform density shall not exceed 1,000/100 ml.
	b. Fecal coliform density shall not exceed 200/100 ml.
	c. Enterococcus density shall not exceed 35/100 ml.
	2. Single Sample Limits
	a. Total coliform density shall not exceed 10,000/100 ml.
	b. Fecal coliform density shall not exceed 400/100 ml.
	c. Enterococcus density shall not exceed 104/100 ml.
	d. Total coliform density shall not exceed 1,000/100 ml, if the
	ratio of fecal-to-total coliform exceeds 0.1.
	These objectives are generally based on an acceptable health risk for
	marine recreational waters of 19 illnesses per 1,000 exposed individuals
	as set by the US EPA (US EPA, 1986). The targets apply throughout the wave The final compliance point for the targets is the wave week <sup>2</sup>
	the year. The final compliance point for the targets is the wave wash <sup>2</sup>
	where there is a freshwater outlet (i.e., publicly-owned storm drain or natural creek) to the beach, or at ankle depth at beaches without a
	freshwater outlet.
	Implementation of the above bacteria objectives and the associated
	TMDL numeric targets is achieved using a 'reference system/anti-
	degradation approach' rather than the alternative 'natural sources
	exclusion approach' or strict application of the single sample objectives.
	As required by the CWA and Porter-Cologne Water Quality Control
	Act, Basin Plans include beneficial uses of waters, water quality
	objectives to protect those uses, an anti-degradation policy, collectively
	referred to as water quality standards, and other plans and policies
	necessary to implement water quality standards. This TMDL and its
	associated waste load allocations, which shall be incorporated into
	relevant permits, are the vehicles for implementation of the Region's

 $<sup>^2</sup>$  The wave wash is defined as the point at which the storm drain or creek empties and the effluent from the storm drain initially mixes with the receiving ocean water. Final – 12/12/02 3

Attachment A to Resolution No. 2002-022         Element       Key Findings and Regulatory Provisions			
	standards.		
	The 'reference system/anti-degradation approach' means that on the basis of historical exceedance levels at existing shoreline monitoring locations, including a local reference beach within Santa Monica Bay, a certain number of daily exceedances of the single sample bacteria objectives are permitted. The allowable number of exceedance days is set such that (1) bacteriological water quality at any site is at least as good as at a designated reference site within the watershed and (2) there is no degradation of existing shoreline bacteriological water quality. This approach recognizes that there are natural sources of bacteria that may cause or contribute to exceedances of the single sample objectives and that it is not the intent of the Regional Board to require treatment or diversion of natural coastal creeks or to require treatment of natural sources of bacteria from undeveloped areas.		
	The geometric mean targets may not be exceeded at any time. The rolling 30-day geometric means will be calculated on each day. If weekly sampling is conducted, the weekly sample result will be assigned to the remaining days of the week in order to calculate the daily rolling 30-day geometric mean. For the single sample targets, each existing shoreline monitoring site is assigned an allowable number of exceedance days during wet weather, defined as days with 0.1 inch of rain or greater and the three days following the rain event. (A separate amendment incorporating the Santa Monica Bay Beaches Dry-Weather Bacteria TMDL addressed the allowable number of summer and winter dry-weather exceedance days.)		
Source Analysis	With the exception of isolated sewage spills, storm water runoff conveyed by storm drains and creeks is the primary source of elevated bacterial indicator densities to SMB beaches during wet weather. Because the bacterial indicators used as targets in the TMDL are not specific to human sewage, storm water runoff from undeveloped areas may also be a source of elevated bacterial indicator densities. For example, storm water runoff from natural areas may convey fecal matter from wildlife and birds or bacteria from soil. This is supported by the finding that, at the reference beach, the probability of exceedance of the single sample targets during wet weather is 0.22.		
Loading Capacity	Studies show that bacterial degradation and dilution during transport from the watershed to the beach do not significantly affect bacterial indicator densities at SMB beaches. Therefore, the loading capacity is defined in terms of bacterial indicator densities, which is the most appropriate for addressing public health risk, and is equivalent to the numeric targets, listed above. As the numeric targets must be met in the wave wash and throughout the day, no degradation allowance is provided.		
<i>Waste Load Allocations</i> (for point sources)	Waste load allocations are expressed as the number of sample days at a shoreline monitoring site that may exceed the single sample targets identified under "Numeric Target." Waste load allocations are expressed as allowable exceedance days because the bacterial density and frequency of single sample exceedances are the most relevant to public health protection.		

Element Key Findings and Regulatory Provisions		
	For each shoreline monitoring site and corresponding subwatershed, an allowable number of exceedance days is set for wet weather. The allowable number of exceedance days for a shoreline monitoring site for each time period is based on the lesser of two criteria (1) exceedance days in the designated reference system and (2) exceedance days based on historical bacteriological data at the monitoring site. This ensures that shoreline bacteriological water quality is at least as good as that of a largely undeveloped system and that there is no degradation of existing shoreline bacteriological water	
	All responsible jurisdictions and responsible agencies <sup>3</sup> within a subwatershed are jointly responsible for complying with the allowable number of exceedance days for each associated shoreline monitoring site identified in Table 7-4.5 below.	
	The three Publicly Owned Treatment Works (POTWs), the City of Los Angeles' Hyperion Wastewater Treatment Plant, Los Angeles County Sanitation Districts' Joint Water Pollution Control Plant, and the Las Virgenes Municipal Water Districts' Tapia Wastewater Reclamation Facility, discharging to Santa Monica Bay are each given individual WLAs of zero (0) days of exceedance during wet weather.	

<sup>&</sup>lt;sup>3</sup> For the purposes of this TMDL, "responsible jurisdictions and responsible agencies" are defined as: (1) local agencies that are responsible for discharges from a publicly owned treatment works to the Santa Monica Bay watershed or directly to the Bay, (2) local agencies that are permittees or co-permittees on a municipal storm water permit, (3) local or state agencies that have jurisdiction over a beach adjacent to Santa Monica Bay, and (4) the California Department of Transportation pursuant to its storm water permit. Final - 12/12/025

Element	Element         Key Findings and Regulatory Provisions		
Load Allocations (for nonpoint	Because all storm water runoff to SMB beaches is regulated as a point		
sources)	source, load allocations of zero days of exceedance are set in this		
	TMDL. If a nonpoint source is directly impacting shoreline		
	bacteriological quality and causing an exceedance of the numeric		
	target(s), the permittee(s) under the Municipal Storm Water NPDES		
	Permits are not responsible through these permits. However, the		
	jurisdiction or agency adjacent to the shoreline monitoring location may		
	have further obligations as described under "Compliance Monitoring"		
	below.		
Implementation	The regulatory mechanisms used to implement the TMDL will include		
	primarily the Los Angeles County Municipal Storm Water NPDES		
	Permit (MS4 Permit), the Caltrans Storm Water Permit, the three		
	NPDES permits for the POTWs, the authority contained in sections 13267 and 13263 of the Water Code, and regulations to be adopted		
	pursuant to section 13291 of the Water Code. Each NPDES permit		
	assigned a waste load allocation shall be reopened or amended at		
	reissuance, in accordance with applicable laws, to incorporate the		
	applicable waste load allocation(s) as a permit requirement.		
	The implementation schedule will be determined on the basis of the		
	implementation plan(s), which must be submitted to the Regional Board		
	by responsible jurisdictions and agencies within two years of the		
	effective date of the TMDL (see Table 7-4.7). After considering the		
	implementation plan(s), the Regional Board shall amend the TMDL at a		
	public hearing and, in doing so, will adopt an individual implementation		
	schedule for each jurisdictional group (described in paragraph 3 below)		
	that is as short as possible taking into account the implementation		
	approach being undertaken. Responsible jurisdictions and agencies		
	must clearly demonstrate in the above-mentioned plan whether they intend to pursue an integrated water resources approach. <sup>4</sup> If an		
	integrated water resources approach is pursued, responsible		
	jurisdictions and agencies may be allotted up to an 18-year		
	implementation timeframe, based on a clear demonstration of the need		
	for a longer schedule in the implementation plan, in recognition of the		
	additional planning and time needed to achieve the multiple benefits of		
	this approach. Otherwise, at most a 10-year implementation timeframe		
	will be allotted, depending upon a clear demonstration of the time		
	needed in the implementation plan.		
	The subwatersheds associated with each beach monitoring location may		

<sup>&</sup>lt;sup>4</sup> An integrated water resources approach is one that takes a holistic view of regional water resources management by integrating planning for future wastewater, storm water, recycled water, and potable water needs and systems; focuses on beneficial re-use of storm water, including groundwater infiltration, at multiple points throughout a watershed; and addresses multiple pollutants for which Santa Monica Bay or its watershed are listed on the CWA section 303(d) List as impaired. Because an integrated water resources approach will address multiple pollutants, responsible jurisdictions can recognize cost-savings because capital expenses for the integrated approach will implement several TMDLs that address pollutants in storm water. An integrated water resources approach shall not only provide water quality benefits to the people of the Los Angeles Region, but it is also anticipated that an integrated approach will incorporate and enhance other public goals. These may include, but are not limited to, water supply, recycling and storage; environmental justice; parks, greenways and open space; and active and passive recreational and environmental education opportunities.  $Final - \frac{12}{12}02$ 

Attachment A to Kesolution 100, 2002-022			
Element	Key Findings and Regulatory Provisions		
	include multiple responsible jurisdictions and responsible agencies.		
	Therefore, a "primary jurisdiction," defined as the jurisdiction		
	comprising greater than fifty percent of the subwatershed land area, is		
	identified for each subwatershed (see Table 7-4.6). <sup>5</sup> Seven primary		
	jurisdictions are identified within the Santa Monica Bay watershed,		
	each with a group of associated subwatersheds and beach monitoring		
	locations. These are identified as "jurisdictional groups" (see Table 7-		
	4.6). The primary jurisdiction of each "jurisdictional group" shall be		
	responsible for submitting the implementation plan described above,		
	which will determine the implementation timeframe for the		
	subwatershed. A jurisdictional group may change its primary		
	jurisdiction by submitting a joint, written request, submitted by the		
	current primary jurisdiction and the proposed primary jurisdiction, to		
	the Executive Officer requesting a reassignment of primary		
	responsibility. Two jurisdictional groups may also choose to change the		
	assignment of monitoring locations between the two groups by		
	submitting a joint, written request, submitted by the current primary		
	jurisdiction and the proposed primary jurisdiction, to the Executive		
	Officer requesting a reassignment of the monitoring location.		
	If an integrated water resources approach is pursued, the jurisdictional		
	group(s) must achieve a 10% cumulative percentage reduction from the		
	total exceedance-day reduction required for the group of beach		
	monitoring locations within 6 years, a 25% reduction within 10 years,		
	and a 50% reduction within 15 years of the effective date of the TMDL.		
	These interim milestones for the jurisdictional group(s) will be re-		
	evaluated, considering planning, engineering and construction tasks,		
	based on the written implementation plan submitted to the Regional		
	Board two years after the effective date of the TMDL (see Table 7-4.7).		
	If an integrated water resources approach is not pursued, the		
	jurisdictional group(s) must achieve a 25% cumulative percentage		
	reduction from the total exceedance-day reduction required for the		
	group of beach monitoring locations within 6 years, and a 50%		
	reduction within 8 years of the effective date of the TMDL (see Table		
	7-4.7).		
	For those beach monitoring locations subject to the antidegradation		
	provision, there shall be no increase in exceedance days during the		
	implementation period above that estimated for the beach monitoring		
	location in the critical year as identified in Table 7-4.5.		
	rotation in the endear year as identified in Table (-+.5.		
	The final implementation targets in terms of allowable wet-weather		
	exceedance days must be achieved at each individual beach location no		
	later than 18 years after the TMDL's effective date if an integrated		
	water resources approach is pursued, or no later than 10 years after the		
	TMDL's effective date if an integrated water resources approach is not		
	pursued. In addition, the geometric mean targets must be achieved for		
	each individual beach location no later than 18 years or 10 years after		
	the effective date, respectively, depending on whether a integrated		

 $<sup>^5</sup>$  Primary jurisdictions are not defined for the Ballona Creek subwatershed or the Malibu Creek subwatershed, since separate bacteria TMDLs are being developed for these subwatersheds. Final – 12/12/02

Element	<b>Key Findings and Regulatory Provisions</b>	
	water resources approach is pursued or not.	

Attachment A to	Resolution N	No. 2002-022
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Element     Key Findings and Regulatory Provisions			
Margin of Safety	The TMDL is set at levels that are exactly equivalent to the applicable water quality standards along with the proposed reference system/antidegradation implementation procedure.		
	An implicit margin of safety is included in the supporting water quality model by assuming no dilution between the storm drain and the wave wash, the point of compliance. This is a conservative assumption since studies have shown that there is a high degree of variability in the amount of dilution between the storm drain and wave wash temporally, spatially and among indicators, ranging from 100% to 0%.		
Seasonal Variations and Critical Conditions	Seasonal variations are addressed by developing separate waste load allocations for three time periods (wet weather, summer dry weather and winter dry weather) based on public health concerns and observed natural background levels of exceedance of bacterial indicators. (The two dry-weather periods are addressed in the Santa Monica Bay Beaches Dry-Weather Bacteria TMDL.)		
	The critical condition for this bacteria TMDL is wet weather generally, when historic shoreline monitoring data for the reference beach indicate that the single sample bacteria objectives are exceeded on 22% of the wet-weather days sampled. To more specifically identify a critical condition within wet weather in order to set the allowable exceedance days shown in Tables 7-4.5 and 7-4.6, the 90 <sup>th</sup> percentile 'storm year <sup>26</sup> in terms of wet days is used as the reference year. Selecting the 90 <sup>th</sup> percentile year avoids a situation where the reference beach is frequently out of compliance. It is expected that because responsible jurisdictions and agencies will be planning for this 'worst-case' scenario, there will be fewer exceedance days than the maximum allowed in drier years. Conversely, in the 10% of wetter years, it is expected that there may be more than the allowable number of exceedance days.		
Compliance Monitoring	Responsible jurisdictions and agencies as defined in Footnote 2 shall conduct daily or systematic weekly sampling in the wave wash at all major drains <sup>7</sup> and creeks or at existing monitoring stations at beaches without storm drains or freshwater outlets to determine compliance. <sup>8</sup> At all locations, samples shall be taken at ankle depth and on an incoming wave. At locations where there is a freshwater outlet, during wet weather, samples should be taken as close as possible to the wave wash, and no further away than 10 meters down current of the storm drain or outlet. <sup>9</sup> At locations where there is a freshwater outlet, samples shall be taken when the freshwater outlet is flowing into the surf zone.		
	If the number of exceedance days is greater than the allowable number of exceedance days for any jurisdictional group at the interim implementation milestones the responsible jurisdictions and agencies		

<sup>&</sup>lt;sup>6</sup> For purposes of this TMDL, a 'storm year' means November 1 to October 31. The 90<sup>th</sup> percentile storm year was 1993 with 75 wet days at the LAX meteorological station. <sup>7</sup> Major drains are those that are publicly owned and have measurable flow to the beach during dry

weather.

<sup>&</sup>lt;sup>8</sup> The frequency of sampling (i.e., daily versus weekly) will be at the discretion of the implementing agencies. However, the number of sample days that may exceed the objectives will be scaled accordingly. <sup>9</sup> Safety considerations during wet weather may preclude taking a sample in the wave wash.

<sup>9</sup> Final – 12/12/02

Element	Key Findings and Regulatory Provisions
	shall be considered out-of-compliance with the TMDL. If the number of
	exceedance days exceeds the allowable number of exceedance days for a target beach at the final implementation deadline, the responsible jurisdictions and agencies within the contributing subwatershed shall be considered out-of-compliance with the TMDL. Responsible jurisdictions or agencies shall not be deemed out of compliance with the TMDL if the investigation described in the paragraph below demonstrates that bacterial sources originating within the jurisdiction of the responsible agency have not caused or contributed to the exceedance.
	If a single sample shows the discharge or contributing area to be out of compliance, the Regional Board may require, through permit requirements or the authority contained in Water Code section 13267, daily sampling in the wave wash or at the existing open shoreline monitoring location (if it is not already) until all single sample events meet bacteria water quality objectives. Furthermore, if a beach location is out-of-compliance as determined in the previous paragraph, the Regional Board shall require responsible agencies to initiate an investigation, which at a minimum shall include daily sampling in the wave wash or at the existing open shoreline monitoring location until all single sample events meet bacteria water quality objectives. If bacteriological water quality objectives are exceeded in any three weeks of a four-week period when weekly sampling is performed, or, for areas where testing is done more than once a week, 75% of testing days produce an exceedence of bacteria water quality objectives, the responsible agencies shall conduct a source investigation of the subwatershed(s) pursuant to protocols established under Water Code 13178. If a beach location without a freshwater outlet is out-of-compliance or if the outlet is diverted or being treated, the adjacent municipality, County agency(s), or State or federal agency(s) shall be
	responsible for conducting the investigation and shall submit its findings to the Regional Board to facilitate the Regional Board
	exercising further authority to regulate the source of the exceedance in
Note: The complete staff report t	conformance with the Porter-Cologne Water Quality Control Act. for the TMDL is available for review upon request.

Note: The complete staff report for the TMDL is available for review upon request.

Beach Monitoring LocationFinal allowable weighter sceedance days (dially sampling)DHS 010 - Leo Carrillo Beach, at 35000 PCH1717DHS 009 - Nicholas Beach - 100 feet west of lifeguard tower1414DHS 010 - Leo Carrillo Beach, at 35000 PCH1715DHS 010 - Broad Beach1515DHS 008 - Trancas Beach entrance, 50 yards east of Trancas Bedge1717DHS 006 - Paradise Cove, adjacent to west side of Pier2317DHS 006 - Paradise Cove, adjacent to west side of Pier3017DHS 005 - Latigo Canyon Creek entrance2917DHS 003 - Sufrider Beach (second point)- weekly4517DHS 003 - Sufrider Beach (second point)- weekly4517DHS 003 - Sufrider Beach (breach point)- daily2517DHS 101 - PCH and Sunset BL-400 yards east2617DHS 102 - Mailu Pier- 50 yards east2117DHS 101 - PCH and Sunset BL-400 yards east2117DHS 101 - PCH and Sunset BL-400 yards east2117DHS 103 - Will Rogers State Beach - Temescal Canyon (25 yrds. s. of drain)17DHS 104 - Santa Monica Beach at San Vicente Bl.3117DHS 105 - Santa Monica Beach at San Vicente Bl			
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DHS 006 - Paradise Cove, adjacent to west side of Pier2317DHS 005 - Latigo Canyon Creek entrance3317DHS 005 - Lottigo Canyon Creek entrance3317DHS 005 - Corral State Beach1717DHS 001 - Las Flores Beach2917DHS 001 - Las Flores Beach2917DHS 001 - Big Rock Beach, at 19900 PCH3017DHS 003 - Malibu Point1817DHS 003 - Surfrider Beach (second point)- weekly4517S1 - Surfrider Beach (breach point)- daily4717DHS 002 - Malibu Pier - 50 yards east2617S2 - Topanga State Beach2617DHS 101 - PCH and Sunset Bl 400 yards east2517DHS 102 - 16801 Pacific Coast Highway, Bel Air Bay Club (chain fence)17S3 - Pulga Canyon storm drain- 50 yards east2317DHS 103 - Will Rogers State Beach- Temescal Canyon (25 yrds. so. of drain)11S4 - Santa Monica Canyon, Will Rogers State Beach2517DHS 104 - Santa Monica at Arizona (in front of the drain)3117S5 - Santa Monica at Arizona (in front of the drain)3117S5 - Santa Monica Beach at Strand St. (in front of the free stroms)3617DHS 106 - Ashland Av. storm drain - 50 yards north3917S7 - Ashland Av. storm drain - 50 yards north2217		19	17
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DHS 001a - Las Flores Beach2917DHS 001 - Big Rock Beach, at 19900 PCH3017DHS 003 - Malibu Point1817DHS 003a - Surfrider Beach (second point)- weekly4517S1 - Surfrider Beach (breach point)- daily4717DHS 002 - Malibu Pier - 50 yards east2617S2 - Topanga State Beach2617DHS 101 - PCH and Sunset BL - 400 yards east2517DHS 102 - 16801 Pacific Coast Highway, Bel Air Bay Club (chain fence)2817S3 - Pulga Canyon storm drain - 50 yards east2317DHS 103 - Will Rogers State Beach - Temescal Canyon (25 yrds. so. of drain)3117S4 - Santa Monica Beach at San Vicente BI.3417DHS 104 - Santa Monica at Montana Av. (25 yrds. so. of drain)3117DHS 105 - Santa Monica at Arizona (in front of the drain)3117S6 - Santa Monica Beach at Pico/Kenter storm drain4217DHS 106 - Santa Monica Beach at Strand St. (in front of the restrooms)3917DHS 106a - Ashland Av. storm drain - 50 yards south2217	DHS 005 - Latigo Canyon Creek entrance	33	17
DHS 001 - Big Rock Beach, at 19900 PCH3017DHS 003 - Malibu Point1817DHS 003 - Surfrider Beach (second point)- weekly4517S1 - Surfrider Beach (breach point)- daily4717DHS 002 - Malibu Pier- 50 yards east2617S2 - Topanga State Beach2617DHS 101 - PCH and Sunset BI 400 yards east2517DHS 102 - 16801 Pacific Coast Highway, Bel Air Bay Club (chain fence)2817S3 - Pulga Canyon storm drain- 50 yards east2317DHS 103 - Will Rogers State Beach- Temescal Canyon (25 yrds. so. of drain)3117S4 - Santa Monica Canyon, Will Rogers State Beach2517DHS 104 - Santa Monica at Montana Av. (25 yrds. so. of drain)3117DHS 105 - Santa Monica at Arizona (in front of the drain)3117S6 - Santa Monica Beach at Strand St. (in front of the restrooms)3617DHS 106 - Ashland Av. storm drain- 50 yards north2917DHS 106a - Ashland Av. storm drain- 50 yards north2217	DHS 005a - Corral State Beach	17	17
DHS 003 - Malibu Point1817DHS 003 - Surfrider Beach (second point)- weekly4517S1 - Surfrider Beach (breach point)- daily4717DHS 002 - Malibu Pier- 50 yards east4517S2 - Topanga State Beach2617DHS 101 - PCH and Sunset BI 400 yards east2517DHS 102 - 16801 Pacific Coast Highway, Bel Air Bay Club (chain fence)2817S3 - Pulga Canyon storm drain- 50 yards east2317DHS 103 - Will Rogers State Beach- Temescal Canyon (25 yrds. so. of drain)3117S4 - Santa Monica Canyon, Will Rogers State Beach2517DHS 104 - Santa Monica at Anizona (in front of the drain)3117DHS 105 - Santa Monica at Arizona (in front of the drain)3117S6 - Santa Monica Beach at Pico/Kenter storm drain4217DHS 106 - Santa Monica Beach at Strand St. (in front of the restrooms)3617DHS 106a - Ashland Av. storm drain- 50 yards south2217	DHS 001a - Las Flores Beach	29	17
DHS 003a - Surfrider Beach (second point)- weekly4517S1 - Surfrider Beach (breach point)- daily4717DHS 002 - Malibu Pier- 50 yards east4517S2 - Topanga State Beach2617DHS 101 - PCH and Sunset BI 400 yards east2517DHS 102 - 16801 Pacific Coast Highway, Bel Air Bay Club (chain fence)2817S3 - Pulga Canyon storm drain- 50 yards east2317DHS 103 - Will Rogers State Beach- Temescal Canyon (25 yrds. so. of drain)3117S4 - Santa Monica Canyon, Will Rogers State Beach2517DHS 104 - Santa Monica at Montana Av. (25 yrds. so. of drain)3117DHS 105 - Santa Monica at Arizona (in front of the drain)3117S6 - Santa Monica Beach at Strand St. (in front of the restrooms)3617DHS 106 - Ashland Av. storm drain- 50 yards north3917S7 - Ashland Av. storm drain- 50 yards south2217	DHS 001 - Big Rock Beach, at 19900 PCH	30	17
S1 - Surfrider Beach (breach point)- daily4717DHS 002 - Malibu Pier- 50 yards east4517S2 - Topanga State Beach2617DHS 101 - PCH and Sunset BI 400 yards east2517DHS 102 - 16801 Pacific Coast Highway, Bel Air Bay Club (chain fence)2817S3 - Pulga Canyon storm drain- 50 yards east2317DHS 103 - Will Rogers State Beach- Temescal Canyon (25 yrds. so. of drain)3117S4 - Santa Monica Canyon, Will Rogers State Beach2517DHS 104 - Santa Monica at Montana Av. (25 yrds. so. of drain)3117DHS 105 - Santa Monica at Arizona (in front of the drain)3117S5 - Santa Monica Beach at Strand St. (in front of the restrooms)3617DHS 106 - Santa Monica Beach at Strand St. (in front of the restrooms)3617DHS 106 - Santa Monica Beach at Strand St. (in front of the restrooms)3917DHS 106 - Ashland Av. storm drain- 50 yards south2217	DHS 003 - Malibu Point	18	17
DHS 002 - Malibu Pier- 50 yards east4517S2 - Topanga State Beach2617DHS 101 - PCH and Sunset BI 400 yards east2517DHS 102 - 16801 Pacific Coast Highway, Bel Air Bay Club (chain fence)2817S3 - Pulga Canyon storm drain- 50 yards east2317DHS 103 - Will Rogers State Beach- Temescal Canyon (25 yrds. so. of drain)3117S4 - Santa Monica Canyon, Will Rogers State Beach2517DHS 104 - Santa Monica at Montana Av. (25 yrds. so. of drain)3117DHS 105 - Santa Monica at Arizona (in front of the drain)3117S6 - Santa Monica Beach at Pico/Kenter storm drain4217DHS 106 - Santa Monica Beach at Strand St. (in front of the restrooms)3617DHS 106 - Ashland Av. storm drain- 50 yards south3917S7 - Ashland Av. storm drain- 50 yards south2217	DHS 003a - Surfrider Beach (second point)- weekly	45	17
S2 - Topanga State Beach2617DHS 101 - PCH and Sunset BL- 400 yards east2517DHS 102 - 16801 Pacific Coast Highway, Bel Air Bay Club (chain fence)2817S3 - Pulga Canyon storm drain- 50 yards east2317DHS 103 - Will Rogers State Beach- Temescal Canyon (25 yrds. so. of drain)3117S4 - Santa Monica Canyon, Will Rogers State Beach2517DHS 104 - Santa Monica Beach at San Vicente Bl.3417DHS 105 - Santa Monica at Montana Av. (25 yrds. so. of drain)3117S5 - Santa Monica Beach at Pico/Kenter storm drain3517DHS 106 - Santa Monica Beach at Strand St. (in front of the restrooms)3617DHS 106 - Ashland Av. storm drain- 50 yards south3917S7 - Ashland Av. storm drain- 50 yards south2217	S1 - Surfrider Beach (breach point)- daily	47	17
DHS 101 - PCH and Sunset BI 400 yards east2517DHS 102 - 16801 Pacific Coast Highway, Bel Air Bay Club (chain fence)2817S3 - Pulga Canyon storm drain- 50 yards east2317DHS 103 - Will Rogers State Beach- Temescal Canyon (25 yrds. so. of drain)3117S4 - Santa Monica Canyon, Will Rogers State Beach2517DHS 104a - Santa Monica Beach at San Vicente BI.3417DHS 104 - Santa Monica at Montana Av. (25 yrds. so. of drain)3117DHS 105 - Santa Monica at Arizona (in front of the drain)3117S6 - Santa Monica Beach at Pico/Kenter storm drain4217DHS 106 - Santa Monica Beach at Strand St. (in front of the restrooms)3617DHS 106 - Ashland Av. storm drain - 50 yards south3917S7 - Ashland Av. storm drain - 50 yards south2217	DHS 002 - Malibu Pier- 50 yards east	45	17
DHS 102 - 16801 Pacific Coast Highway, Bel Air Bay Club (chain fence)2817S3 - Pulga Canyon storm drain- 50 yards east2317DHS 103 - Will Rogers State Beach- Temescal Canyon (25 yrds. so. of drain)3117S4 - Santa Monica Canyon, Will Rogers State Beach2517DHS 104a - Santa Monica Beach at San Vicente Bl.3417DHS 104 - Santa Monica at Montana Av. (25 yrds. so. of drain)3117DHS 105 - Santa Monica at Arizona (in front of the drain)3117S5 - Santa Monica Beach at Pico/Kenter storm drain4217DHS 106 - Santa Monica Beach at Strand St. (in front of the restrooms)3617DHS 106 - Ashland Av. storm drain- 50 yards south3917S7 - Ashland Av. storm drain- 50 yards south2217	S2 - Topanga State Beach	26	17
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DHS 103 - Will Rogers State Beach- Temescal Canyon (25 yrds. so. of drain)3117S4 - Santa Monica Canyon, Will Rogers State Beach2517DHS 104a - Santa Monica Beach at San Vicente Bl.3417DHS 104 - Santa Monica at Montana Av. (25 yrds. so. of drain)3117DHS 105 - Santa Monica at Arizona (in front of the drain)3117S5 - Santa Monica Municipal Pier- 50 yards southeast3517S6 - Santa Monica Beach at Pico/Kenter storm drain4217DHS 106 - Santa Monica Beach at Strand St. (in front of the restrooms)3617DHS 106a - Ashland Av. storm drain- 50 yards south3917S7 - Ashland Av. storm drain- 50 yards south2217		28	17
so. of drain) S4 - Santa Monica Canyon, Will Rogers State Beach DHS 104a - Santa Monica Beach at San Vicente BI. DHS 104 - Santa Monica at Montana Av. (25 yrds. so. of drain) DHS 105 - Santa Monica at Arizona (in front of the drain) S5 - Santa Monica Municipal Pier- 50 yards southeast S6 - Santa Monica Beach at Pico/Kenter storm drain DHS 106 - Santa Monica Beach at Strand St. (in front of the restrooms) DHS 106a - Ashland Av. storm drain- 50 yards south S7 - Ashland S7 - S7	S3 - Pulga Canyon storm drain- 50 yards east	23	17
DHS 104a - Santa Monica Beach at San Vicente BI.3417DHS 104 - Santa Monica at Montana Av. (25 yrds. so. of drain)3117DHS 105 - Santa Monica at Arizona (in front of the drain)3117S5 - Santa Monica Municipal Pier- 50 yards southeast3517S6 - Santa Monica Beach at Pico/Kenter storm drain4217DHS 106 - Santa Monica Beach at Strand St. (in front of the restrooms)3617DHS 106a - Ashland Av. storm drain- 50 yards south3917		31	17
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DHS 105 - Santa Monica at Arizona (in front of the drain)3117S5 - Santa Monica Municipal Pier- 50 yards southeast3517S6 - Santa Monica Beach at Pico/Kenter storm drain4217DHS 106 - Santa Monica Beach at Strand St. (in front of the restrooms)3617DHS 106a - Ashland Av. storm drain- 50 yards north3917S7 - Ashland Av. storm drain- 50 yards south2217	DHS 104a - Santa Monica Beach at San Vicente BI.	34	17
S5 - Santa Monica Municipal Pier- 50 yards southeast3517S6 - Santa Monica Beach at Pico/Kenter storm drain4217DHS 106 - Santa Monica Beach at Strand St. (in front of the restrooms)3617DHS 106a - Ashland Av. storm drain- 50 yards north3917S7 - Ashland Av. storm drain- 50 yards south2217	DHS 104 - Santa Monica at Montana Av. (25 yrds. so. of drain)	31	17
S6 - Santa Monica Beach at Pico/Kenter storm drain4217DHS 106 - Santa Monica Beach at Strand St. (in front of the restrooms)3617DHS 106a - Ashland Av. storm drain- 50 yards north3917S7 - Ashland Av. storm drain- 50 yards south2217	DHS 105 - Santa Monica at Arizona (in front of the drain)	31	17
DHS 106 - Santa Monica Beach at Strand St. (in front of the restrooms)3617DHS 106a - Ashland Av. storm drain- 50 yards north3917S7 - Ashland Av. storm drain- 50 yards south2217	S5 - Santa Monica Municipal Pier- 50 yards southeast	35	17
restrooms) 39 17 DHS 106a - Ashland Av. storm drain- 50 yards north 39 17 S7 - Ashland Av. storm drain- 50 yards south 22 17	S6 - Santa Monica Beach at Pico/Kenter storm drain	42	17
S7 - Ashland Av. storm drain- 50 yards south   22   17		36	17
	DHS 106a - Ashland Av. storm drain- 50 yards north	39	17
DHS 107 - Venice City Beach at Brooks Av. (in front of the drain) 40 17	S7 - Ashland Av. storm drain- 50 yards south	22	17
	DHS 107 - Venice City Beach at Brooks Av. (in front of the drain)	40	17

Table 7-4.5. Final Allowable Wet-Weather Exceedance Days by Beach Location

Beach Monitoring Location	Estimated no. of wet weather exceedance days in critical year (90 <sup>th</sup> percentile)*	Final allowable no. of wet weather exceedance days (daily sampling)*
S8 - Venice City Beach at Windward Av 50 yards north	13	13
DHS 108 - Venice Fishing Pier- 50 yards south	17	17
DHS 109 - Venice City Beach at Topsail St.	38	17
S11 - Dockweiler State Beach at Culver Bl.	23	17
DHS 110 - Dockweiler State Beach- south of D&W jetty	30	17
S12 - Imperial HWY storm drain- 50 yards north	17	17
DHS 111 - Hyperion Treatment Plant One Mile Outfall	18	17
DHS 112 - Dockweiler State Beach at Grand Av. (in front of the drain)	25	17
S10 - Ballona Creek entrance- 50 yards south	34	17
S13 - Manhattan State Beach at 40th Street	4	4
S14 - Manhattan Beach Pier- 50 yards south	5	5
DHS 114 - Hermosa City Beach at 26th St.	12	12
S15 - Hermosa Beach Pier- 50 yards south	8	8
DHS 115 - Herondo Street storm drain- (in front of the drain)	19	17
S16 - Redondo Municipal Pier- 50 yards south	14	14
DHS 116 - Redondo State Beach at Topaz St north of jetty	19	17
S17 - Redondo State Beach at Avenue I	6	6
S18 - Malaga Cove, Palos Verdes Estates-daily	3	3
LACSDM - Malaga Cove, Palos Verdes Estates-weekly	14	14
LACSDB - Palos Verdes (Bluff) Cove, Palos Verdes Estates	0	0
LACSD1 - Long Point, Rancho Palos Verdes	5	5
LACSD2 - Abalone Cove Shoreline Park	1	1
LACSD3 - Portuguese Bend Cove, Rancho Palos Verdes	2	2
LACSD5 - Royal Palms State Beach	6	6
LACSD6 - Wilder Annex, San Pedro	2	2
LACSD7 - Cabrillo Beach, oceanside	3	3

Notes: \* The compliance targets are based on existing shoreline monitoring data and assume daily sampling. If systematic weekly sampling is conducted, the compliance targets will be scaled accordingly. These are the compliance targets until additional shoreline monitoring data are collected prior to revision of the TMDL. Once additional shoreline monitoring data are available, the following will be re-evaluated when the TMDL is revised 1) estimated number of wet-weather exceedance days in the critical year at all beach locations, including the reference system(s) and 2) final allowable wet-weather exceedance days for each beach location.

Interim Compliance Targets as Maximum Allowable Exceedance Days during Wet Weather\*\*\* Reduction Milestone 50% 294 197 Reduction Milestone 25% 212 324 Reduction Milestone 10% 342 221 DHS 107, S8<sup>#</sup>, DHS 108, DHS 109 S11, DHS 110, S12, DHS 111, DHS 112 DHS 101, DHS 102 S3, DHS 103 Monitoring Site(s)\*\*\* DHS 001a DHS 005a DHS 010a<sup>1</sup> **DHS 010 DHS 005 DHS 006 DHS 001 DHS 008 DHS 007** none none none none none none none S2 S4 Santa Monica Canyon Piedra Gorda Canyon Santa Ynez Canyon as Flores Canyon Escondido Canyon Los Alisos Canyon Subwatershed(s) opanga Canyon Ramirez Canyon rancas Canyon Solstice Canyon Encinal Canyon Carbon Canyon Corral Canyon -atigo Canyon Marina del Rey Pulga Canyon Pena Canyon Zuma Canyon Arroyo Sequit una Canyon Dockweiler Castlerock City of Los Angeles (Topanga Manhattan Beach (DW only) Culver City (MDR only) Santa Monica Additional Responsible Jurisdictions & Agencies Calabasas (Topanga only) County of Los Angeles El Segundo (DW only) Caltrans Malibu Caltrans only) County of Los Angeles **Primary Jurisdiction** City of Los Angeles Jurisdiction Group

Table 7-4.6. Interim Compliance Targets by Jurisdictional Group

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					Interim Comp Allowable Ex	Interim Compliance Targets as Maximum Allowable Exceedance Days during Wet Weather***	as Maximum s during Wet
Jurisdiction Group	Primary Jurisdiction	Additional Responsible Jurisdictions & Agencies	Subwatershed(s)	Monitoring Site(s)***	10% Reduction Milestone	25% Reduction Milestone	50% Reduction Milestone
m	Santa Monica	Caltrans City of Los Angeles County of Los Angeles	Santa Monica	DHS 104a, DHS 104, DHS 105, S5, S6, DHS 106, DHS 106a, S7	257	237	203
4	Malibu	Caltrans County of Los Angeles	Nicholas Canyon	DHS 009 <sup>#</sup>	41	4	14
م	Manhattan Beach	Caltrans El Segundo Hermosa Beach Redondo Beach	Hermosa	S13 <sup>#</sup> , S14 <sup>#</sup> , DHS 114 <sup>#</sup> , S15 <sup>#</sup>	29	29	29
۵	Redondo Beach	Caltrans Hermosa Beach Manhattan Beach Torrance County of Los Angeles	Redondo	DHS 115, S16 <sup>#</sup> , DHS 116, S17 <sup>#</sup>	28	57	50

					Interim Comp Allowable Ex	Interim Compliance Targets as Maximum Allowable Exceedance Days during Wet Weather***	as Maximum s during Wet
Jurisdiction Group	Primary Jurisdiction	Additional Responsible Jurisdictions & Agencies	Subwatershed(s)	Monitoring Site(s)***	10% Reduction Milestone	25% Reduction Milestone	50% Reduction Milestone
	Rancho Palos Verdes	Caltrans City of Los Angeles Palos Verdes Estates Redondo Beach Rolling Hills Rolling Hills Estates Torrance County of Los Angeles	Palos Verdes Peninsula S18#, LACSDM <sup>#</sup> , LACSDB <sup>#</sup> , LACSD1 <sup>#</sup> , LACSI LACSD6 <sup>#</sup> , LACSI LACSD6 <sup>#</sup> , LACSI	S18#, LACSDM#, LACSDB#, LACSD1#, LACSD2#, LACSD6#, LACSD5#, LACSD6*, LACSD7#	e	99 S	ő

Angeles, County Sanitation Districts of Los Angeles County, and the Los Angeles County Department of Health Services at the time of adoption of this TMDL by the Regional submitted to the Regional Board by the primary jurisdictions within two years of the effective date of the TMDL, the interim milestones will be re-evaluated on the basis of the Notes: \*Interim milestones will be re-calculated during the revision of the TMDL based on shoreline monitoring data collected from the wave wash and a re-evaluation of the identified in subsequent bacteria TMDLs to be developed for these two watersheds. \*\*\*Monitoring sites are those shoreline locations currently monitored by the City of Los most appropriate reference system and reference year. Furthermore, if an integrated water resources approach is pursued, as demonstrated by the implementation plans to be jurisdictions and agencies must establish a shoreline monitoring site if there is measurable flow from a creek or publicly owned storm drain to the beach during dry weather. Board. This list does not preclude the establishment of additional monitoring stations. For those subwatersheds without an existing shoreline monitoring site, responsible For those beach monitoring locations subject to the antidegradation provision, there shall be no increase in exceedance days during the implementation period above that implementation plan, considering planning, engineering and construction tasks. \*\*Interim milestones for the Malibu and Ballona shoreline monitoring locations will be estimated for the beach monitoring location in the critical year as identified in Table 7-4.5.

## Attachment A to Resolution No. 2002-022 Table 7-4.7. Santa Monica Bay Beaches Bacteria TMDL (Wet Weather Only): Significant Dates

Date	Action
120 days after the effective date of the TMDL	Pursuant to a request from the Regional Board, responsible jurisdictions and responsible agencies must submit coordinated shoreline monitoring plan(s) to be approved by the Executive Officer, including a list of new sites* and/or sites relocated to the wave wash at which time responsible jurisdictions and responsible agencies shall select between daily or systematic weekly shoreline sampling.
20 months after the effective date of the TMDL	Responsible jurisdictions and agencies shall provide a draft written report to the Regional Board outlining how each intends to cooperatively (through Jurisdictional Groups) achieve compliance with the TMDL. The report shall include implementation methods, an implementation schedule, and proposed milestones.
Two years after effective date of TMDL	Responsible jurisdictions and agencies shall provide a written report to the Regional Board outlining how each intends to cooperatively (through Jurisdictional Groups) achieve compliance with the TMDL. The report shall include implementation methods, an implementation schedule, and proposed milestones. Under no circumstances shall final compliance dates exceed 10 years for non-integrated approaches or 18 years for integrated water resources approaches. Regional Board staff shall bring to the Regional Board the aforementioned plans as soon as possible for consideration.
4 years after effective date of TMDL	<ul> <li>The Regional Board shall reconsider the TMDL to:</li> <li>(1) refine allowable wet weather exceedance days based on additional data on bacterial indicator densities in the wave wash and an evaluation of site-specific variability in exceedance levels,</li> <li>(2) re-evaluate the reference system selected to set allowable exceedance levels, including a reconsideration of whether the allowable number of exceedance days should be adjusted annually dependent on the rainfall conditions and an evaluation of natural variability in exceedance levels in the reference system(s),</li> <li>(3) re-evaluate the reference year used in the calculation of allowable exceedance days, and</li> <li>(4) re-evaluate whether there is a need for further clarification provision.</li> </ul>

Date	Action	
	Jurisdictions and Agencies <i>Not</i> Pursuing an Integrated ater Resources Approach	
6 years after effective date of the TMDL	Each defined jurisdictional group must achieve a 25% cumulative percentage reduction from the total exceedance-day reductions required for that jurisdictional group as identified in Table 7-4.6.	
8 years after effective date of the TMDL	Each defined jurisdictional group must achieve a 50% cumulative percentage reduction from the total exceedance-day reductions required for that jurisdictional group as identified in Table 7-4.6.	
10 years after effective date of the TMDL	Final implementation targets in terms of allowable wet- weather exceedance days must be achieved at each individual beach as identified in Table 7-4.5. In addition, the geometric mean targets must be achieved for each individual beach location.	
Significant Dates for Responsible Jurisdictions and Agencies Pursuing an Integrated Water Resources Approach to Implementation		
6 years after effective date of the TMDL	Each defined jurisdictional group must achieve a 10% cumulative percentage reduction from the total exceedance-day reductions required for that jurisdictional group as identified in Table 7-4.6.	
10 years after effective date of the TMDL	Each defined jurisdictional group must achieve a 25% cumulative percentage reduction from the total exceedance-day reductions required for that jurisdictional group as identified in Table 7-4.6.	
15 years after effective date of the TMDL	Each defined jurisdictional group must achieve a 50% cumulative percentage reduction from the total exceedance-day reductions required for that jurisdictional group as identified in Table 7-4.6.	
18 years after effective date of the TMDL	Final implementation targets in terms of allowable wet- weather exceedance days must be achieved at each individual beach as identified in Table 7-4.5. In addition, the geometric mean targets must be achieved for each individual beach location.	

Notes: \*For those subwatersheds without an existing shoreline monitoring site, responsible jurisdictions and agencies must establish a shoreline monitoring site if there is measurable flow from a creek or publicly owned storm drain to the beach during dry weather.