

STATE WATER RESOURCES CONTROL BOARD
RESOLUTION NO. 2003 - 0060

APPROVING AN AMENDMENT TO THE WATER QUALITY CONTROL PLAN FOR
THE CENTRAL COAST REGION TO ESTABLISH A TOTAL MAXIMUM DAILY LOAD FOR PATHOGENS FOR
MORRO BAY AND CHORRO AND LOS OSOS CREEKS

WHEREAS:

1. The Central Coast Regional Water Quality Control Board (Regional Board) adopted a revised Water Quality Control Plan (Basin Plan) on February 11, 1994, which was approved by the State Water Resources Control Board (SWRCB) on May 18, 1994, by the Office of Administrative Law (OAL) on September 7, 1994, and by the U.S. Environmental Protection Agency (USEPA) on May 29, 2000.
2. Morro Bay was identified in 1998 as water quality limited by pathogens for Shellfish Harvesting and Water Contact Recreation.
3. On December 13, 2002, the Regional Board adopted Resolution No. R3-2002-0117 to incorporate a Total Maximum Daily Load (TMDL) for pathogens in Morro Bay, Chorro and Los Osos Creeks, and freshwater seeps into the Basin Plan; and on May 16, 2003, the Regional Board adopted revisions to the TMDL (Attachment 1).
4. SWRCB finds that the Basin Plan amendment titled "A total maximum daily load and implementation plan for pathogens for Morro Bay and Chorro and Los Osos Creeks" is in conformance with the requirements for TMDL development specified in section 303(d) of the Federal Clean Water Act.
5. Regional Board Resolution No. 2002-0117 delegated to the Regional Board Executive Officer authority to make minor, non-substantive corrections to the adopted amendment, if needed, for clarity or consistency. By memorandum dated August 12, 2003, the Regional Board Executive Officer has made the necessary corrections to the amendment (Attachment 2).
6. The Regional Board prepared documents and followed procedures satisfying environmental documentation requirements in accordance with the California Environmental Quality Act and other State laws and regulations.
7. A Basin Plan amendment does not become effective until approved by SWRCB and until the amendment's regulatory provisions are approved by OAL.

THEREFORE BE IT RESOLVED THAT:

SWRCB:

1. Approves the amendment to the Regional Board Basin Plan adopted under Regional Board Resolution No. R3-2002-0117 as corrected by the Executive Officer.
2. Authorizes the Executive Director or designee to transmit the amendment and administrative record for this action to OAL and the TMDL to USEPA for approval.

CERTIFICATION

The undersigned, Clerk to the Board, does hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the State Water Resources Control Board held on September 16, 2003.


Debbie Ivun
Clerk to the Board

Resolution No. R3-2002-0117
Attachment A

May 16, 2003

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
San Luis Obispo, California

RESOLUTION NO. R3-2002-0117
REVISED MAY 16, 2003
AMENDING THE WATER QUALITY CONTROL PLAN
FOR THE CENTRAL COAST BASIN
TO INCLUDE
A TOTAL MAXIMUM DAILY LOAD AND IMPLEMENTATION PLAN
FOR PATHOGENS FOR MORRO BAY AND CHORRO AND LOS OSOS CREEKS

The California Regional Water Quality Control Board Central Coast Region hereby finds:

- 1 The California Regional Water Quality Control Board, Central Coast Region (Regional Board), adopted the Water Quality Control Plan for the Central Coastal Basin (Basin Plan), on September 8, 1994. The Basin Plan includes beneficial use designations, water quality objectives, implementation plans for point source and nonpoint source discharges, and statewide plans and policies.
- 2 The Regional Board periodically revises and amends the Basin Plan. The Regional Board has determined the Basin Plan requires further revision and amendment to incorporate a Total Maximum Daily Load (TMDL) and Implementation Plan for Pathogens for Morro Bay and Chorro and Los Osos Creeks.
- 3 The Regional Board proposes to amend the Basin Plan by inserting amendments into Chapter Four, Section IX (Total Maximum Daily Loads).
- 4 Section 303(d) of the Clean Water Act requires States to identify and to prepare a list of water bodies that do not meet water quality objectives and to establish TMDLs for the listed water bodies. A TMDL is the pollutant loading that a water body can accept while protecting the identified beneficial uses.
- 5 Morro Bay was identified as impaired by pathogens on the 1998 Clean Water Act Section 303(d) list of impaired water bodies. Therefore, the Regional Board is required to adopt a TMDL for this water body and incorporate the TMDL and associated Implementation Plan into the Basin Plan (40 CFR 130.6(c)(1), 130.7, Water Code section 13242).
- 6 Morro Bay, Chorro and Los Osos Creeks are located entirely within San Luis Obispo County.
- 7 The TMDL Report contains a Problem Statement, Numeric Targets, Source Analysis, Total Maximum Load, Linkage Analysis, Load Allocations, Margin of Safety, an Implementation Plan, and a Monitoring Plan.

8. The problem is as follows: Numeric water quality objectives for fecal coliform bacteria set by the Regional Board and standards set by the United States Department of Health Services Food and Drug Administration's National Shellfish Sanitation Program and implemented by California Department of Health Services (DHS) have been exceeded for shellfish harvesting and water contact recreation in Morro Bay. Elevated levels of fecal coliform bacteria in Morro Bay and Chorro and Los Osos Creeks indicate that pathogens are impairing the beneficial use of water contact recreation and shellfish harvesting (in Morro Bay only). High levels of pathogens may cause disease in humans and may also adversely affect marine animals, such as sea otters. Portions of Morro Bay have been closed by DHS for commercial shellfish harvesting since 1996, and advisories have been posted in the past to warn the public to avoid water contact activities.
9. The numeric targets are as follows: Pathogenic input to Chorro and Los Osos Creeks shall not exceed the geometric mean of 200 Most Probable Number (MPN)/100 milliliter (mL) concentration of fecal coliform bacteria based on not less than five samples in any 30-day period and no more than 10% of the samples shall exceed 400 MPN/100 mL fecal coliform bacteria in any 30-day period; at all areas of Morro Bay, the geometric mean of fecal coliform bacteria shall not exceed 14 MPN/100 mL based on monthly sampling evaluated over an annual and triennial basis and not more than 10% of the samples shall exceed 43 MPN/100 mL of fecal coliform evaluated over an annual and triennial basis. These numeric targets will be protective of the beneficial uses of both shellfishing and recreational contact (shellfishing beneficial use being more sensitive than recreational contact).
10. The sources appear to be coming mainly from birds, humans, livestock and domestic animals, in that order. There is also a small percent contribution from wild animals (non-bird wild animals). These sources were identified based on a study that used a DNA fingerprinting technique. Fecal matter most likely enters Morro Bay from Chorro and Los Osos Creeks, groundwater seeps, rangeland runoff, leaking/failing septic systems, stormwater, wastewater treatment plant failures, and direct deposition.
11. A TMDL is the loading capacity of a pollutant that a water body can accept while protecting beneficial uses. Normally, TMDLs are expressed as loads (pollutant concentration multiplied by the volumetric flow rate), but in the case of pathogens, it is more logical for the TMDL to be based only on concentration. TMDLs can be expressed in terms of either mass per time, toxicity or other appropriate measure [40 CFR §130.2(f)]. A concentration based TMDL makes more sense in this situation because the public health risks associated with recreating in, or eating shellfish from, contaminated waters scales with organism concentration, and pathogens are not readily controlled on a mass basis. Therefore, as other regional boards have done, we are establishing a concentration based TMDL for pathogens in Morro Bay.
12. The TMDL will be implemented as follows: The bacterial load to Morro Bay derives from nonpoint sources (NPS) and point sources. As such, implementation will rely on the State Plan for NPS pollution control and continued implementation of regulatory controls as appropriate on point sources, including storm water. For the point source, the implementation relies on the National Pollutant Discharge Elimination System (NPDES) permit in place for the California Men's Colony wastewater treatment plant and the City of Morro Bay/Cayucos wastewater treatment plant, Waste Discharge requirements and on the implementation and enforcement of Section 13267 of the California Water Code.

13. The TMDL will be monitored as follows: Monitoring will take place to ensure that numeric targets are met and implementation actions are taking place.
 14. Regional Board Staff has conducted TMDL outreach by coordinating the TMDL with the Morro Bay Shellfish Technical Advisory Committee and presenting status reports at the Morro Bay National Estuary Program's committee meetings. In addition, public review and comment through this board hearing process provides another formal opportunity for public input for adoption of this TMDL as a Basin Plan amendment.
 15. The Morro Bay National Estuary Program's Comprehensive Conservation and Management Plan for Morro Bay Estuary advocates Total Maximum Daily Loads for pathogens, as a means to protect the beneficial uses of Morro Bay, Chorro and Los Osos Creeks.
 16. The Regional Board submitted the TMDL Report to an external scientific review panel. On July 24 & 25, 2002, the review panel submitted its responses to the Regional Board, which stated that in general, the TMDL Report presented a sound and scientifically justifiable program for [reducing pathogens...]. In addition, the review panel identified several specific areas of concern. The Regional Board revised the proposed Basin Plan amendment in response to the comments submitted by the review panel, or provided a written response which explained the basis for not incorporating their comments.
 17. Staff considered costs of preventing pathogen discharges via implementation of Best Management Practices. The cost of implementing actions to reduce pathogens will be incurred by the implementers and offset with grants, loans, in-kind donations, and matching funds as much as possible.
 18. This Basin Plan amendment must be submitted for review and approval by the State Water Resources Control Board and the State Office of Administrative Law (OAL). The Basin Plan amendment will become effective upon approval by the State Board OAL. The TMDL must further be approved by the United States Environmental Protection Agency (USEPA).
 19. This amendment meets the "Necessity" standard of the Administrative Procedure Act, Government Code §11353(b).
 20. The Regional Board has determined that the TMDL for pathogens for Morro Bay and Chorro and Los Osos Creeks is set at levels necessary to attain and maintain the applicable numeric water quality objectives taking into account seasonal variations and any lack of knowledge concerning the relationship between effluent limitations and water quality (40 CFR 130.7(c)(1)).
 21. The basin planning process has been certified as functionally equivalent to the California Environmental Quality Act requirements for preparing environmental documents (Public Resources Code, Section 21000 et seq.) and as such, the required environmental documentation has been prepared. Drafts of the Notice of Filing, staff report, environmental checklist, alternatives analysis and proposed amendment have been prepared and distributed to interested persons and agencies for review and comment in accordance with Title 23 California Code of Regulations section 3777. All public comments were considered. No significant environmental impacts will result from approval of this Basin Plan amendment.
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22. The proposed amendments to the Basin Plan were developed in accordance with CWC Section 13240 et seq.
23. Notice of public hearing was given by advertising in newspapers of general circulation within the Region and by mailing a copy of the notice to all persons requesting such notice and applicable government agencies.
24. The amendment to the Basin Plan will result in no potential adverse effect, either individually or cumulatively, on wildlife and so is exempt from fee payments to the Department of Fish and Game under the California Fish and Game Code
25. On December 13, 2002 in San Luis Obispo, California, the Regional Board held a public hearing and heard and considered all public comments and evidence in the record.
26. On December 13, 2002, the Regional Board adopted resolution no. R3-2002-0117.
27. On March 17, 2003, State Board returned the Administrative Record to the Regional Board with a memo stating that Regional Board adoption procedures did not comply with section 3777 of Title 23 California Code of Regulations which requires consideration of reasonable alternatives to the proposed amendment that would achieve the stated goal.
28. On May 16, 2003, in Watsonville, California, the Regional Board held a public meeting and re-heard this item to correct the omission stated above (45 days public notice were given). The Regional Board heard and considered all public comments and evidence in the record.

THEREFORE, BE IT RESOLVED,

1. The Regional Board, after considering the entire record, including oral testimony, adopts the Basin Plan amendment shown on "Attachment-Proposed Basin Plan Amendments." The amendment will not take effect until approved by the State Board and OAL.
2. The Regional Board's Executive Officer is authorized to submit the amendment to the State Board. The State Board is requested to approve the Basin Plan Amendment in accordance with requirements of Sections 13245 and 13246 of the California Water Code, and upon approval, the State Board is requested to transmit the amendment to the OAL and USEPA for approval.
3. The environmental document prepared by Regional Board staff pursuant to Public Resource Code Section 21080.5 is hereby certified. Following approval of the revised Basin Plan by the State Board, the Regional Board shall file a Notice of Decision with the Resources Agency following USEPA approval.
4. The Regional Board's Executive Officer is authorized to sign a Certificate of Fee Exemption.
5. If during the approval process the State Board or OAL determines that minor, non-substantive corrections to the language of the amendment are needed for clarity or consistency, the Regional Board's Executive Officer may make such changes, and shall inform the Regional Board of any such changes.

consistency, the Regional Board's Executive Officer may make such changes, and shall inform the Regional Board of any such changes.

I, **ROGER W. BRIGGS**, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of the resolution adopted by the California Regional Water Quality Control Board, Central Coastal Region, on May 16, 2003.



Executive Officer

RESOLUTION NO. R3-2002-0117

ATTACHMENT - PROPOSED BASIN PLAN AMENDMENTS

1. Revise the September 8, 1994 Basin Plan, Chapter Four, as follows:

Add the following to chapter 4 after IX. D.:

IX. E. TOTAL MAXIMUM DAILY LOAD FOR PATHOGENS FOR MORRO BAY AND CHORRO AND LOS OSOS CREEKS

The Regional Water Quality Control Board adopted this TMDL on insert date.
This TMDL was approved by:

- The State Water Resources Control Board on insert date.
- The California Office of Administrative Law on insert date. (*Effective date*)
- The U.S. Environmental Protection Agency on insert date.

TMDL Elements

Element													
Problem Statement	Numeric water quality objectives for fecal coliform set by the Regional Board and standards enforced by the California Department of Health Services (DHS) pursuant to the United States Department of Health Services Food and Drug Administration's National Shellfish Sanitation Program have been exceeded for shellfish harvesting and water contact recreation in Morro Bay. Elevated levels of fecal coliform in Morro Bay and Chorro and Los Osos Creeks indicate that pathogens are impairing water contact recreation and shellfish harvesting in these water bodies. High levels of pathogens may cause disease in humans and may also adversely affect marine animals. Portions of Morro Bay have been closed by DHS for commercial shellfish harvesting since 1996, and advisories have been posted to warn the public to avoid water contact activities. Morro Bay was identified as impaired for pathogens on the 1998 Clean Water Act Section 303(d) list of impaired water bodies.												
Numeric Targets	<p>Numeric targets for <u>Morro Bay</u>, based on regulations¹ that DHS follows</p> <table border="1" style="margin-left: 20px;"> <tr> <th colspan="2" style="text-align: center;">Fecal Coliform</th> </tr> <tr> <th style="text-align: center;">Geometric Mean</th> <th style="text-align: center;">Maximum</th> </tr> <tr> <td style="text-align: center;">14 MPN/100 mL^a</td> <td style="text-align: center;">43 MPN/100 mL^b</td> </tr> </table> <p>a: Based on the geometric mean of monthly sampling b: No more than 10% of total samples may exceed this number</p> <p>Numeric targets for Chorro and Los Osos Creeks and fresh water seeps² to Morro Bay, based on Basin Plan objective</p> <table border="1" style="margin-left: 20px;"> <tr> <th colspan="2" style="text-align: center;">Fecal Coliform</th> </tr> <tr> <th style="text-align: center;">Geometric Mean</th> <th style="text-align: center;">Maximum</th> </tr> <tr> <td style="text-align: center;">200 MPN/100 mL^a</td> <td style="text-align: center;">400 MPN/100 mL^b</td> </tr> </table> <p>a: Geometric mean of not less than five samples over a period of 30 days b: Not more than 10% of total samples during a period of 30 days exceed</p>	Fecal Coliform		Geometric Mean	Maximum	14 MPN/100 mL ^a	43 MPN/100 mL ^b	Fecal Coliform		Geometric Mean	Maximum	200 MPN/100 mL ^a	400 MPN/100 mL ^b
Fecal Coliform													
Geometric Mean	Maximum												
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¹ National Shellfish Sanitation Program, Model Ordinance, Chapter IV, 0.02, D

² Seeps are defined as any surfacing ground water flowing into Morro Bay from the east shore of the Bay, south of Los Osos Creek.

Element	
Allocations and TMDL	This TMDL is expressed as concentrations that are equal to the numeric targets. For Bay waters, a geometric mean of 14 MPN/100 mL must be achieved and no more than 10% of the samples may be over 43 MPN/100 mL for <u>fecal coliform</u> . For tributaries (Chorro and Los Osos Creeks and fresh water seeps) to the Bay, the geometric mean shall not exceed 200 MPN/100 mL over a 30-day period nor shall 10% of the samples exceed 400 MPN/100 mL over any 30-day period for <u>fecal coliform</u> . Point and nonpoint sources cannot exceed the concentrations specified above. Therefore, the wasteload allocations and load allocations, which include background levels, are also equal to the numeric targets.
Margin of Safety	A margin of safety has been established implicitly through the use of protective numeric targets.
Linkage Analysis	Allocations are equal to the numeric targets which equal the water quality objectives.
Implementation	<p>The bacterial load to Morro Bay derives from nonpoint sources (NPS) and point sources. As such, implementation will rely on the State's Plan for NPS pollution control (CWC §13369) and continued implementation of existing regulatory controls as appropriate for point sources, including storm water pursuant to NPDES surface water discharge regulations and Waste Discharge Requirements (Porter Cologne).</p> <p>Implementation emphasizes the activities of the Morro Bay National Estuary Program, Coastal San Luis Resources Conservation District, Farm Bureau, University of California Cooperative Extension, Natural Resources Conservation Service, Public/Private Landowners, Morro Bay Harbor Department, California Department of Fish and Game, City of Morro Bay, United States Coast Guard, San Luis Obispo County, Division of Animal Services, all of whom are not currently identified as dischargers responsible for bacterial loading, to implement self-determined activities (see Table: Trackable Implementation Actions (self-determined)). Other actions, currently required because of another Regional Water Quality Control Board (Regional Board) regulatory program, will be evaluated to make sure progress is taking place (see Table: Trackable Implementation Actions identified under existing regulatory programs). Regional Board Staff will meet annually with the implementing parties identified in the list of Trackable Implementation Actions Tables to provide technical assistance and to evaluate and track progress (see Table: Morro Bay TMDL for Pathogens Implementation Schedule for details). If at the end of year three, implementing parties fail to initiate these self-determined activities and/or resulting management practices fail to reduce bacterial loads and/or the numeric targets are not being met, then Regional Board staff will conduct inspections and investigations to identify individual responsible dischargers (e.g., landowners or public agencies). Regional Board staff may rely on Section 13267 of the California Water Code and other appropriate authorities for investigation and identification of individual responsible dischargers. Regional Board staff will also rely on Section 13267 of the California Water Code to require reporting and/or monitoring to determine the level of implementation of identified activities to reduce bacteria. If necessary, the Regional Board may rely on enforcement authority, pursuant to California Water Code Section 13304, to require dischargers to clean-up and abate bacterial discharges and/or prevent the threat of discharges on a case-by case basis. Additionally, Implementation Actions (in the Table of Implementation Actions) may be identified as conditions of compliance with storm water permits and Waste Discharge Requirements.</p> <p>If at the end of the third year, self-determined actions have not been initiated, staff will develop a regulatory approach (rather than a self-determined approach) and present a revised implementation plan to the Regional Board as a Basin Plan Amendment.</p>
Monitoring	Monitoring will be performed and evaluated by the DHS according to their regulations, the Morro Bay National Estuary Volunteer Program and the Regional Board to ensure that numeric targets are met and implementation actions are taking place. Should the Morro Bay National Estuary Volunteer Program be unable to sample, the Regional Board will sample to the extent practicable. Regional Board staff will review data on a triennial basis, at a minimum, and determine if progress towards fecal coliform reduction is adequate and whether changes to implementation actions are warranted (as described above).

Trackable Implementation Actions (self-determined)

PROJECT NAME	ACTION	SCHEDULE	IMPLEMENTING PARTIES
Grazing Management	Implement grazing management measures that reduce bacterial levels	Ongoing - 2012	MBNEP, CSLRCD, Farm Bureau, UCCE, NRCS, Public/Private Landowners
Boat Management, Pump-outs	Upgrade pump-out facilities, provide new facilities, improve accessibility	2002-2005	MBHD
Remove unpermitted moorings	Remove illegal moorings and prevent future ones	Ongoing - 2007	CDFG, MBNEP
Remove derelict boats	Remove abandoned, derelict boats and vessels in back bay	Ongoing - 2007	CDFG, MBNEP
Manage live aboard boating situation	Continue issuing permits to live aboards, continue with inspections	Ongoing - 2012	City of Morro Bay, USCG, CDFG, MBHD
Educate Public about proper boat waste disposal	Educate public about proper waste disposal	Ongoing - 2012	MBNEP, MBHD
Pet waste management	Create an off leash dog park, provide supplies to pick-up pet waste, ordinance	Ongoing -2012	MBNEP, City of Morro Bay, San Luis Obispo County
Septic System Maintenance	Inspect and maintain all septic systems throughout the watershed	2004 - continuous	San Luis Obispo County, LOCSD
Spay/neuter pets	Educate public to promote spaying and neutering pets	Ongoing -2012	Division of animal services
Reduce the number of feral dogs/cats	Reduce the number of feral dogs/cats	Ongoing - 2012	Division of animal services, feral cat caretakers

CDFG – California Department of Fish and Game
 CSLRCD – Coastal San Luis Resources Conservation District
 MBHD – Morro Bay Harbor Department
 MBNEP – Morro Bay National Estuary Program
 NRCS – Natural Resources Conservation Service
 UCCE – University of California Cooperative Extension
 USCG – United States Coast Guard
 LOCSD – Los Osos Community Services District

Trackable Implementation Actions (under existing regulatory programs)

PROJECT NAME	ACTION	SCHEDULE	RESPONSIBLE DISCHARGERS
Phase II stormwater permit	Incorporate actions to reduce bacteria loading into Morro Bay by implementing a stormwater management plan for the City of Morro Bay and the Community of Los Osos	March 2003 - 2008	City of Morro Bay LOCSO, San Luis Obispo County
Los Osos Community Waste Water Treatment Plant	Construct and maintain a wastewater treatment plant pursuant to Waste Discharge Requirements, R3-2003-0007, Waste Discharge Identification no. 3 401078001	Ongoing - 2007	LOCSO

Implementation Schedule for Morro Bay TMDL for Pathogens

At End of Implementation Year:	IMPLEMENTATION MILESTONE	MONITORING ACTIVITY	Chorro Creek TMDL	Los Osos Creek TMDL	Morro Bay TMDL
1	<ul style="list-style-type: none"> RWQCB evaluates data collected over past year, evaluates progress on actions Meet with VMP, MBNEP, LOCSO, City of MB, County of SLO, DHS, MBHD, State Parks, CDFG, Farm Bureau to discuss progress LOCSO waste water treatment plant WDR issued Submittal of stormwater management plan and permit coverage (City of MB, LOCSO) 	Fecal coliform			
2	<ul style="list-style-type: none"> RWQCB evaluates data collected; evaluates progress on actions 				
3	<ul style="list-style-type: none"> RWQCB evaluates data collected; evaluates progress on actions Regional Board evaluates the monitoring of septic system maintenance in the watershed with the County of San Luis Obispo RWQCB, MBNEP, VMP, LOCSO, City of MB, County of SLO, DHS, MBHD, State Parks, CDFG, Farm Bureau meet to determine TMDL progress. 				
4	<ul style="list-style-type: none"> RWQCB evaluates data collected; evaluates progress on actions 				
5	<ul style="list-style-type: none"> RWQCB evaluates data collected; evaluates progress on actions 				
6	<ul style="list-style-type: none"> RWQCB evaluates data collected; evaluates progress on actions LOCSO sewer installed RWQCB, MBNEP, VMP, LOCSO, City of MB, County of SLO, DHS, MBHD, State Parks, CDFG, Farm Bureau meet to determine TMDL progress 				
7	<ul style="list-style-type: none"> RWQCB evaluates data collected; evaluates progress on actions 				
8	<ul style="list-style-type: none"> RWQCB evaluates data collected and evaluates progress on actions 				
9	<ul style="list-style-type: none"> RWQCB evaluates data collected and evaluates progress on actions RWQCB, MBNEP, VMP, LOCSO, City of MB, County of SLO, DHS, MBHD, State Parks, CDFG, Farm Bureau meet to determine TMDL progress 				
10	<ul style="list-style-type: none"> RWQCB evaluates data collected and evaluates progress on actions 				
Load Reduction Achieved; Numeric Targets Achieved			REC-1 standards achieved	REC-1 standards achieved	DHS Standards, SHELL achieved

CDFG – California Department of Fish and Game
DHS – Department of Health Services
LOCSO – Los Osos Community Services District
MB – Morro Bay
MBHD – Morro Bay Harbor Department
MBNEP – Morro Bay National Estuary Program
RWQCB – Regional Water Quality Control Board
SLO – San Luis Obispo
VMP – Volunteer Monitoring Program
WDR – Waste Discharge Requirements