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ATTACHMENT G - Region-Specific Requirements

Regional Water Board-Approved TMDLs with urban runoff listed as a source

Region 1: North Coast Regional Water Board

Temperature & Dissolved Oxygen

TMDL for Shasta River Watershed – *Temperature & Dissolved Oxygen*

Effective Date: January 26, 2007

BPA: Action Plan for the Shasta River Watershed Temperature and Dissolved Oxygen Total
Maximum Daily Loads

Resolution R1-2006-0052

Phase II Entities: City of Yreka

Impaired Water Body: Shasta River

Requirements for Implementing the TMDL

The City of Yreka developed a Plan to minimize, control, and preferably prevent discharges of fine sediment, nutrients and other oxygen-consuming materials, and elevated water temperature waste discharge from affecting waters of the Shasta River and its tributaries. The Regional Water Board Executive Officer approved the City of Yreka's Plan. No later than January 1, 2019, the City of Yreka shall begin implementing the Plan.

The TMDL does not specify a wasteload or load allocation for the City of Yreka.

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Region 2: San Francisco Regional Water Board

Diazinon & Pesticide Toxicity

TMDL for Urban Creeks – Diazinon & Pesticide Toxicity

Effective Date: May 16, 2007

BPA: BPA – Chapter 3, Toxicity

Resolution No. R2-2005-0063

Phase II Entities: City of Belvedere, Town of Corte Madera, Town of Fairfax, City of Larkspur, Marin County, City of Mill Valley, City of Novato, City of Petaluma, Town of Ross, Town of San Anselmo, City of San Rafael, City of Sausalito, City of Sonoma, County of Sonoma, Town of Tiburon

Impaired Water Body: Arroyo Corte Madera del Presidio, Corte Madera Creek, Coyote Creek (Marin Co.), Gallinas Creek, Miller Creek, Novato Creek, San Antonio Creek, San Rafael Creek, Petaluma River, Calabazas Creek

Requirements for Implementing the TMDL

Urban runoff management agencies' responsibilities for addressing the allocations set in the TMDL will be satisfied by complying with the requirements set forth below. Permittees identified in this TMDL section may coordinate with the Bay Area Storm Water Management Agencies Association, the Urban Pesticide Pollution Prevention Project, the Urban Pesticide Committee, and other agencies and organizations in carrying out these activities.

A. Implement the Pesticide-Related Toxicity Control Program

To prevent the impairment of urban streams by pesticide-related toxicity, the Phase II entities identified in this TMDL section shall implement an Integrated Pest Management Policy (IPM) or Ordinance, applicable to all the permittees' operations and property, as described in the Fact Sheet of this Order.

Implementation actions shall include:

- Ensure all municipal employees who apply or use pesticides within the scope of their duties are trained in the IPM practices and policy/ordinance.
- Require all contractors to implement the IPM policy/ordinance.
- Keep the County Agricultural Commissioners informed of water quality issues related to pesticides and of violations of pesticides regulations (e.g., illegal handling) associated with storm water management.
- Conduct outreach to residents and pest control applicators on less toxic methods of pest control.
- Keep records of the permittees' own use of pesticides of concern and the pesticide use by the permittees' hired contractors. Report on pesticide use when requested by the Regional Water Board.
- Monitor water and sediment for pesticides and associated toxicity in urban creeks via an individual or regional program designed to answer the following questions:
 - Are the TMDL toxicity targets being met?
 - Is toxicity observed in urban creeks caused by a pesticide?
 - Is urban runoff the source of any observed toxicity in urban creeks?

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- How does observed pesticide-related toxicity in urban creeks (or pesticide concentrations contributing to such toxicity) vary in time and magnitude across urban creek watersheds, and what types of pest control practices contribute to such toxicity?
- Are actions already being taken to reduce pesticide discharges sufficient to meet the targets, and if not, what should be done differently?

A final deadline for attainment of the WLA is not specified in the TMDL. Therefore, municipalities identified in this TMDL section shall propose a timeline to meet the WLA in the shortest practicable time, subject to Regional Water Board Executive Officer approval. Attainment of the WLA shall be demonstrated as specified in Section E.15.a.(ii)/Section F.5.i.1.(ii) of this Order.

Pathogens

TMDL for Napa River – Pathogens

Effective Date: February 29, 2008

BPA: Chapter 7, Water Quality Attainment Strategies including TMDLs

Resolution No. R2-2006-0079

Phase II Entities: City of American Canyon, City of Calistoga, City of St. Helena, City of Napa, Napa County, Town of Yountville

Impaired Water Body: Napa River

Requirements for Implementing the TMDL

The Phase II entities identified in this TMDL section shall implement the following actions by January 1, 2019:

- i. **Public Participation and Outreach.** Educate the public regarding sources of fecal coliform and associated health risks of fecal coliform in surface waters. Educate the public regarding actions that individuals can take to reduce pathogen loading.
- ii. **Pet Waste Management.** Implement enforceable means of reducing/eliminating fecal coliform loading from pet waste.
- iii. **Illicit Discharge Detection and Elimination.** Implement strategies to detect and eliminate illicit discharges (whether mistaken or deliberate) of sewage to the Napa River.
- iv. **Pollution Prevention and Good Housekeeping.** Implement strategies to reduce/eliminate fecal coliform loading from streets, parking lots, sidewalks, and other urban areas that potentially collect and discharge fecal coliform to the Napa River.
- v. As indicated in the TMDL, participate in the Regional Water Board's stakeholder effort to conduct water quality monitoring at baseline monitoring sites.
- vi. Conduct baseline water quality monitoring to evaluate E. coli concentration trends in the Napa River and its tributaries. Table 7-g in Chapter 7, Water Quality Attainment Strategies, presents locations and frequency for the required baseline water quality monitoring.
- vii. Report yearly, in the Annual Report, (on participation in the stakeholder group and progress made on implementation of human and animal runoff reduction measures.

A final deadline for attainment of the LA is not specified in the TMDL. Therefore, municipalities identified in this TMDL section shall propose a timeline to attain the LA in the shortest

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practicable time, subject to Regional Water Board Executive Officer approval. Attainment of the LA shall be demonstrated as specified in Section E.15.a.(ii)/Section F.5.i.1.(ii) of this Order.

TMDL for Richardson Bay – Pathogens

Effective Date: December 18, 2009

BPA: Chapter 7, Water Quality Attainment Strategies including TMDLs

Resolution No. R2-2008-0061

Phase II Entities: City of Belvedere, Marin County, City of Mill Valley, City of Sausalito, City of Tiburon

Impaired Water Body: Richardson Bay

Requirements for Implementing the TMDL

The Phase II entities identified in this TMDL section shall implement the following actions by January 1, 2019:

- i. Public Participation and Outreach. Educate the public regarding sources of fecal coliform and associated health risks of fecal coliform in surface waters. Educate the public regarding actions that individuals can take to reduce pathogen loading.
- ii. Pet Waste Management. Implement enforceable means of reducing/eliminating fecal coliform loading from pet waste.
- iii. Illicit Discharge Detection and Elimination. Implement strategies to detect and eliminate illicit discharges (whether mistaken or deliberate) of sewage to Richardson Bay.
- iv. Pollution Prevention and Good Housekeeping. Implement strategies to reduce/eliminate fecal coliform loading from streets, parking lots, sidewalks, and other urban areas that potentially collect and discharge fecal coliform to Richardson Bay.
- v. Report yearly in the Annual Report on progress made on implementation of pathogen reduction measures.

A final deadline for attainment of the WLA is not specified in the TMDL. Therefore, municipalities identified in this TMDL section shall propose a timeline to attain the WLA in the shortest practicable time, subject to Regional Water Board Executive Officer approval. Attainment of the WLA shall be demonstrated as specified in Section E.15.a.(ii)/Section F.5.i.1.(ii) of this Order.

TMDL for Sonoma Creek – Pathogens

Effective Date: February 29, 2008

BPA: Chapter 7, Water Quality Attainment Strategies including TMDLs

Resolution No. R2-2006-0042

Phase II Entities: City of Sonoma, County of Sonoma

Impaired Water Body: Sonoma Creek

Requirements for Implementing the TMDL

The Phase II entities identified in this TMDL section shall implement the following actions by January 1, 2019:

- i. Public Participation and Outreach. Educate the public regarding sources of fecal coliform and associated health risks of fecal coliform in surface waters. Educate the public regarding actions that individuals can take to reduce pathogen loading.

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- ii. Pet Waste Management. Implement enforceable means of reducing/eliminating fecal coliform loading from pet waste.
- iii. Illicit Discharge Detection and Elimination. Implement strategies to detect and eliminate illicit discharges (whether mistaken or deliberate) of sewage to Sonoma Creek.
- iv. Pollution Prevention and Good Housekeeping. Implement strategies to reduce/eliminate fecal coliform loading from streets, parking lots, sidewalks, and other urban areas that potentially collect and discharge fecal coliform to Sonoma Creek.
- v. Conduct baseline water quality monitoring to evaluate E. coli concentration trends in Sonoma Creek and its tributaries. Table 7-n in Chapter 7, Water Quality Attainment Strategies, presents locations and frequency for the required baseline water quality monitoring.
- vi. Report yearly in the Annual Report on water quality monitoring results and progress made on implementation of human and animal runoff reduction measures.

A final deadline for attainment of the WLA is not specified in the TMDL. Therefore, municipalities identified in this TMDL section shall propose a timeline to attain the WLA in the shortest practicable time, subject to Regional Water Board Executive Officer approval. Attainment of the WLA shall be demonstrated as specified in Section E.15.a.(ii)/Section F.5.i.1.(ii) of this Order.

TMDL for Sonoma Creek – Pathogens (Continued)

Phase II Entities: Sonoma County Water Agency

Impaired Water Body: Sonoma Creek

Requirements for Sonoma County Water Agency for Implementing TMDL

The Sonoma County Water Agency shall:

1. Continue to implement actions as specified in the Storm Water Management Plan approved under the 2003 General Permit (State Water Board Order 2003-0005-DWQ).
2. Review annually and update the TMDL attainment actions, as necessary.
3. Report progress on TMDL implementation measures in the Annual Report.

A final deadline for attainment of the WLA is not specified in the TMDL. Therefore, Sonoma County Water Agency shall propose a timeline to attain the WLA in the shortest practicable time, subject to Regional Water Board Executive Officer approval. Attainment of the WLA shall be demonstrated as specified in Section E.15.a.(ii)/Section F.5.i.1.(ii) of this Order.

TMDL for Tomales Bay – Pathogens

Effective Date: February 8, 2007

BPA: Chapter 4, Surface Water Protection and Management, Nonpoint Source Control Resolution No. R2-2005-0046

Phase II Entities: Marin County

Impaired Water Body: Tomales Bay, Lagunitas Creek, Walker Creek, Olema Creek

Requirements for Implementing the TMDL

The Phase II entities identified in this TMDL section shall implement the following actions by January 1, 2019:

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- i. Public Participation and Outreach. Educate the public regarding sources of fecal coliform and associated health risks of fecal coliform in surface waters. Educate the public regarding actions that individuals can take to reduce pathogen loading.
- ii. Pet Waste Management. Implement enforceable means of reducing/eliminating fecal coliform loading from pet waste.
- iii. Illicit Discharge Detection and Elimination. Implement strategies to detect and eliminate illicit discharges (whether mistaken or deliberate) of sewage to Tomales Bay.
- iv. Pollution Prevention and Good Housekeeping. Implement strategies to reduce/eliminate fecal coliform loading from streets, parking lots, sidewalks, and other urban areas that potentially collect and discharge fecal coliform to Tomales Bay.
- v. Report yearly in the Annual Report on water quality monitoring results and progress made on implementation of human and animal runoff reduction measures.

A final deadline for attainment of the WLA is not specified in the TMDL. Therefore, municipalities identified in this TMDL section shall propose a timeline to attain the WLA in the shortest practicable time, subject to Regional Water Board Executive Officer approval. Attainment of the WLA shall be demonstrated as specified in Section E.15.a.(ii)/Section F.5.i.1.(ii) of this Order.

Sediment

TMDL for Napa River – Sediment

Effective Date: January 20, 2011

BPA: Chapter 7, Water Quality Attainment Strategies including TMDLs

Resolution R2-2009-0064

Phase II Entities: City of American Canyon, City of Calistoga, City of St. Helens, City of Napa, Napa County, and Town of Yountville

Impaired Water Body: Napa River

Requirements for Implementing the TMDL

A. Implementation of Sediment Wasteload Allocations (WLAs)

- i. To attain the wasteload allocation, municipalities identified in this TMDL section shall comply with the requirements in this TMDL section and the Order.

B. Implementation of Sediment Load Allocations (LAs)

- i. To attain the shared load allocation of 27,000 metric tons/year, Napa County shall implement measures to repair and/or reconstruct road crossings to minimize road-related sediment delivery (≤ 500 cubic yards/mile per 20-year period) to stream channels. Specifically, to reduce road-related erosion and protect stream-riparian habitat conditions, Napa County shall by January 1, 2019:
 - Update best management practices for maintenance of unimproved (dirt/gravel) roads to ensure that the LA will be met, and implement these best management practices,
 - Finalize a survey of stream-crossings associated with paved public roadways, and
 - By July 1, 2019 submit a schedule for the maintenance of unpaved roads and implementation of BMPs to ensure attainment of the LA and the repair and/or

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replacement of high priority crossings/culverts identified in the survey, to the Regional Water Board Executive Officer for approval.

For paved roads, erosion and sediment control actions shall primarily focus on road crossings to meet the sediment load allocation.

The final deadline for attainment of the WLA and LA is not specified in the TMDL. Therefore, municipalities identified in this TMDL section shall propose a timeline to attain the WLAs and LAs in the shortest practicable time, subject to Regional Water Board Executive Officer approval. Attainment of the WLA and LA shall be demonstrated as specified in Section E.15.a.(ii)/Section F.5.i.1.(ii). of this Order.

TMDL for Sonoma Creek – Sediment

Effective Date: September 8, 2010

BPA: Chapter 7, Water Quality Attainment Strategies including TMDLs

Resolution R2-2008-0103

Phase II Entities: City of Sonoma, County of Sonoma

Impaired Water Body: Sonoma Creek

Requirements for Implementing the TMDL

A. Implementation of Sediment Wasteload Allocations

- i. To attain the wasteload allocation, Phase II entities identified in this TMDL section shall comply with the construction and maintenance requirements, sections E.10 and E.11, of this Order.
- ii. The municipalities identified in this TMDL section shall continue to implement actions proposed in their Storm Water Management Plans approved under the 2003 Permit (State Water Board Order 2003-0005-DWQ) to attenuate peak flows and durations from new and redevelopment projects. Implementation requirements for implementation actions are incorporated herein by reference. Municipalities may propose amendments to those Implementation Actions by submitting an updated Storm Water Management Plan to the Regional Water Board.

B. Implementation of Sediment Load Allocations

- i. To attain the shared load allocation of 2,100 tons/year, municipalities identified in this TMDL section shall implement opportunities to retrofit and/or reconstruct road crossings to minimize road-related sediment delivery to stream channels. To reduce road-related erosion and protect stream-riparian habitat conditions, the municipalities shall implement by January 1, 2019 the following actions:
 - Continue to Implement best management practices for maintenance of unimproved (dirt/gravel) roads,
 - Finalize a survey of stream-crossings associated with paved public roadways, and
 - By July 1, 2019, submit a schedule for the retrofit and/or replacement of high priority crossings/culverts to the Regional Water Board Executive Officer for approval.

For paved roads, erosion and sediment control actions shall primarily focus on road crossings to meet the sediment load allocation.

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The final deadline for attainment of the wasteload allocations and load allocations is not specified in the TMDL. Therefore, municipalities identified in this TMDL section shall propose a timeline to attain the WLAs and LAs in the shortest practicable time, subject to Regional Water Board Executive Officer approval. Attainment of the WLA and LA shall be demonstrated as specified in Section E.15.a.(ii)/Section F.5.i.1.(ii) of this Order.

Municipalities identified in this section shall attenuate peak flows and durations from new and redevelopment projects by January 1, 2019.

TMDL for Sonoma Creek – Sediment (Continued)

Phase II Entities: Sonoma County Water Agency

Impaired Water Body: Sonoma Creek

Requirements for Sonoma County Water Agency for Implementing TMDL

1. The Sonoma County Water Agency shall continue to implement actions as specified in the Storm Water Management Plan approved under the prior 2003 General Permit (State Water Board Order 2003-0005-DWQ). Implementation requirements for implementation actions are incorporated herein by reference. The Sonoma County Water Agency may propose amendments to those Implementation Actions by submitting an updated Storm Water Management Plan to the Regional Water Board.
2. Report progress on TMDL implementation measures in the Annual Report.

The final deadline for attainment of the WLA and LA is not specified in the TMDL. Therefore, Sonoma County Water Agency shall propose a timeline to attain the WLAs and LAs in the shortest practicable time, subject to Regional Water Board Executive Officer approval. Attainment of the WLA and LA shall be demonstrated as specified in Section E.15.a.(ii)/Section F.5.i.1.(ii) of this Order.

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Region 3: Central Coast Regional Water Board

Fecal Coliform

TMDL for Corralitos and Salsipuedes Creeks – Fecal Coliform

Effective Date: 9/8/2011

BPA: Chapter 4

Resolution No. R3-2009-0009

Phase II Entities: County of Santa Cruz, Santa Cruz County Fairgrounds, City of Watsonville

Impaired Water Bodies: Corralitos Creek, Salsipuedes Creek

Requirements for Implementing the TMDL

By January 1, 2019, the County of Santa Cruz and the City of Watsonville (hereafter referred to in this TMDL section as MS4) shall each implement a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. By January 1, 2019 the Santa Cruz County Fairgrounds (hereafter referred to in this TMDL section as “the MS4”) shall develop, submit, and begin implementation of a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their waste load allocations. The Wasteload Allocation Attainment Programs shall include:

1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule.
2. Identification of sources of the impairment within the MS4’s jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.
3. Prioritization of sources within the MS4’s jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.
4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.
5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.
6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained.
7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4’s wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once

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the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans.

8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations.
9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL attainment schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five years commencing on January 1, 2019. The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target.
10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide.
11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.
12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule.
13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program.
14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment.

By September 8, 2024, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

TMDL for the Lower Salinas River Watershed – *Fecal Coliform*

Effective Date: 12/20/2011

BPA: Chapter 4

Resolution No. R3-2010-0017

Phase II Entities: County of Monterey

Impaired Water Body: Lower Salinas River, Old Salinas River Estuary, Tembladero Slough, Salinas Reclamation Canal, Alisal Creek, Gabilan Creek, Salinas River Lagoon (North), Santa Rita Creek

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Requirements for Implementing the TMDL

By January 1, 2019, the County of Monterey (hereafter referred to in this TMDL section as “the MS4”) shall implement a Wasteload Allocation Attainment Program that identifies the actions it will take to attain its wasteload allocation. The Wasteload Allocation Attainment Program shall include:

1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule.
2. Identification of sources of the impairment within the MS4’s jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.
3. Prioritization of sources within the MS4’s jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.
4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.
5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.
6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained.
7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4’s wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans.
8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s’ wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations.
9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL attainment schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five years commencing on

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January 1, 2019. The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target.

10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide.
11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.
12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule.
13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program.
14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment.

By December 20, 2024, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

TMDL for Pajaro River, San Benito River, Llagas Creek, Tequesquita Slough, San Juan Creek, Carnadero/Uvas Creek, Bird Creek, Pescadero Creek, Tres Pinos Creek, Furlong (Jones) Creek, Santa Ana Creek, Pachecho Creek – Fecal Coliform

Effective Date: 07/12/2010

BPA: Chapter 4

Resolution No. RB3-2009-0008

Phase II Entities: City of Gilroy, City of Hollister, County of Monterey, City of Morgan Hill, County of Santa Clara, County of Santa Cruz, City of Watsonville

Impaired Water Body: Pajaro River, San Benito River, Llagas Creek, Tequesquita Slough, San Juan Creek, Carnadero/Uvas Creek, Bird Creek, Pescadero Creek, Tres Pinos Creek, Furlong (Jones) Creek, Santa Ana Creek, Pachecho Creek

Requirements for Implementing the TMDL

By January 1, 2019, the Phase II entities identified in this TMDL section (hereafter referred to in this TMDL section as “the MS4”) shall each implement a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include:

1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule.
2. Identification of sources of the impairment within the MS4’s jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.

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3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.
4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.
5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.
6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained.
7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans.
8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations.
9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL attainment schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five years commencing on January 1, 2019. The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target.
10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide.
11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.

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12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule.
13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program.
14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment.

By July 12, 2023, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

Fecal Indicator Bacteria

TMDLs for the Santa Maria River Watershed – Fecal Indicator Bacteria

Effective Date: 2/21/2013

BPA: Chapter 4

Resolution No. R3-2012-0055

Phase II Entities: City of Guadalupe, County of San Luis Obispo, County of Santa Barbara, City of Santa Maria

Impaired Water Body: Water Bodies in the Santa Maria River Watershed, including: Blosser Channel, Bradley Channel, Main Street Canal, Nipomo Creek, Orcutt Creek, Santa Maria River Estuary, Santa Maria River

Requirements for Implementing the TMDL

By January 1, 2019, the Phase II entities identified in this TMDL section (hereafter referred to in this TMDL section as “the MS4”) shall each develop, submit, and begin implementation of a Wasteload Allocation Attainment Program, or an integrated plan, that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs or integrated plans shall include:

1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule.
2. Identification of sources of the impairment within the MS4’s jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.
3. Prioritization of sources within the MS4’s jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.
4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.
5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.

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6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained.
7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans.
8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocations. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations.
9. The MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL attainment schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five years commencing on January 1, 2019. The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not specify interim targets as described above in its Wasteload Allocation Attainment Program, the interim targets identified in the TMDL apply. If the MS4 does not achieve any interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target.
10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide.
11. A detailed description of how the MS4 proposes to assess its attainment of interim targets and the final wasteload allocation.
12. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.
13. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule.
14. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program or integrated plan.

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15. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment, including public education and participation items identified above.

By February 21, 2028, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

Nitrate Nitrogen

TMDL and Implementation Plan for San Luis Obispo Creek – Nitrate-Nitrogen

Effective Date: 8/04/2006

BPA: Chapter 4

Resolution No. R3-2005-0106

Phase II Entities: Cal Poly State University, City of San Luis Obispo, County of San Luis Obispo

Impaired Water Body: San Luis Obispo Creek

Requirements for Implementing the TMDL

By January 1, 2019, the Phase II entities identified in this TMDL section shall implement best management practices that specifically address the reduction or elimination of nutrient loading.

The Phase II entities identified in this TMDL section shall submit reports required by this Order and in those reports outline best management practices implemented to assure ongoing attainment of their allocation.

By January 1, 2019, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

Nitrogen Compounds and Orthophosphate

TMDL for the Lower Salinas River and Reclamation Canal Basin and the Moro Cojo Slough Subwatershed – Nitrogen Compounds and Orthophosphate

Effective Date: 6/7/2014

BPA: Chapter 4

Resolution No. R3-2013-0008

Phase II Entities: County of Monterey

Impaired Water Body: Lower Salinas River, Santa Rita Creek, Reclamation Canal, Gabilan Creek, Natividad Creek, Alisal Creek

Requirements for Implementing the TMDL

By January 1, 2019, the County of Monterey (hereafter referred to in this TMDL section as “the MS4”) shall develop, submit, and begin implementation of a Wasteload Allocation Attainment Program that identifies the actions it will take to attain its wasteload allocations. The Wasteload Allocation Attainment Program shall include:

1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at

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abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule.

2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.
3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.
4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.
5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.
6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained.
7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans.
8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocations. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim and final wasteload allocations.
9. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide.
10. A detailed description of how the MS4 proposes to assess its attainment of interim targets and the final wasteload allocation.
11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.
12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule.

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13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program or integrated plan.
14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment.

The MS4 shall achieve its interim wasteload allocations as specified in the Fact Sheet. If the MS4 does not achieve any interim wasteload allocation by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim or final wasteload allocations.

By May 7, 2044, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

TMDLs for the Lower Santa Maria River Watershed and Tributaries to Oso Flaco Lake – Nitrogen Compounds and Orthophosphate

Effective Date: 5/22/2014

BPA: Chapter 4

Resolution No. R3-2013-0013

Phase II Entities: City of Guadalupe, County of San Luis Obispo, County of Santa Barbara, City of Santa Maria

Impaired Water Body: Water Bodies in the Lower Santa Maria River Watershed and Tributaries to Oso Flaco Lake, including: Blosser Channel, Bradley Channel, Greene Valley Creek, Main Street Canal, North Main Street Channel, Orcutt Creek, Nipomo Creek, Santa Maria River, Santa Maria River Estuary

Requirements for Implementing the TMDL

By January 1, 2019, the Phase II entities identified in this TMDL section (hereafter referred to in this TMDL section as “the MS4”) shall each develop, submit, and begin implementation of a Wasteload Allocation Attainment Program, or an integrated plan, that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs or integrated plans shall include:

1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule.
2. Identification of sources of the impairment within the MS4’s jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.
3. Prioritization of sources within the MS4’s jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.
4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.
5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.

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6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained.
7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans.
8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocations. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim and final wasteload allocations.
9. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide.
10. A detailed description of how the MS4 proposes to assess its attainment of interim targets and the final wasteload allocation.
11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.
12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule.
13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program or integrated plan.
14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment, including public education and participation items identified above.

Waste load allocations will be achieved through implementation of management practices and strategies to reduce Nitrogen compound and Orthophosphate loading. Implementation can be conducted by MS4s specifically and/or through statewide programs addressing urban water pollution.

The MS4 shall achieve its interim wasteload allocations as specified in the Fact Sheet. If the MS4 does not achieve any interim wasteload allocation by the date specified, the MS4 shall

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develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim or final wasteload allocations.

By May 22, 2044, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

Pathogens

TMDL for Aptos Creek, Valencia Creek, and Trout Gulch – Pathogens

Effective Date: 10/29/2010

BPA: Chapter 4

Resolution No. R3-2009-0025

Phase II Entities: County of Santa Cruz

Impaired Water Body: Aptos Creek, Valencia Creek, Trout Gulch

Requirements for Implementing the TMDL

By January 1, 2019, the County of Santa Cruz (hereafter referred to in this TMDL section as “the MS4”) shall implement a Wasteload Allocation Attainment Program that identifies the actions it will take to attain its wasteload allocation. The Wasteload Allocation Attainment Program shall include:

1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule.
2. Identification of sources of the impairment within the MS4’s jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.
3. Prioritization of sources within the MS4’s jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.
4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.
5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.
6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained.
7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4’s wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once

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the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans.

8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations.
9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL attainment schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five years commencing on January 1, 2019. The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target.
10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide.
11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.
12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule.
13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program.
14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment.

By October 29, 2023, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

TMDL and Implementation Plan for Morro Bay and Chorro and Los Osos Creeks – Pathogens

Effective Date: 11/19/2003

BPA: Chapter 4

Resolution No. R3-2003-0060

Phase II Entities: City of Morro Bay, County of San Luis Obispo

Impaired Water Body: Morro Bay, Chorro Creek, Los Osos Creek, Pennington Creek, Warden Creek

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Requirements for Implementing the TMDL

By January 1, 2019, the Phase II entities identified in this TMDL section (hereafter referred to in this TMDL section as “the MS4”) shall each implement a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include:

1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule.
2. Identification of sources of the impairment within the MS4’s jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.
3. Prioritization of sources within the MS4’s jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.
4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.
5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.
6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained.
7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation achieved the MS4’s wasteload allocation. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans.
8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4’s wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment interim targets and wasteload allocations.
9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL attainment schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. Where TMDL attainment schedules have passed, but Wasteload Allocations have not

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been achieved by January 1, 2019, the MS4 shall consult with the Regional Water Board to establish dates to meet new interim targets and to achieve wasteload allocations. At least one interim target and date must occur during the five years commencing on January 1, 2019. The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target.

10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide.
11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.
12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule.
13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program.
14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment.

By January 1, 2019, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

TMDL and Implementation Plan for San Luis Obispo Creek –Pathogens

Effective Date: 7/25/2005

BPA: Chapter 4

Resolution No. R3-2004-0142

Phase II Entities: Cal Poly State University, City of San Luis Obispo, County of San Luis Obispo

Impaired Water Body: San Luis Obispo Creek, Stenner Creek, Brizziolari Creek

Requirements for Implementing the TMDL

The Phase II entities identified in this TMDL section are required to implement best management practices specifically targeting fecal coliform loading. Required actions include development and implementation of: public education regarding fecal coliform sources and associated health risk, enforceable means of addressing pet waste and wild animals that are attracted to storm water infrastructure, and elimination of illicit discharges.

By January 1, 2019, the Phase II entities identified in this TMDL section (hereafter referred to in this TMDL section as “the MS4”) shall each implement a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include:

1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at

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abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule.

2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.
3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.
4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.
5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.
6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained.
7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans.
8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations.
9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL attainment schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. Where TMDL attainment schedules have passed, but Wasteload Allocations have not been achieved by January 1, 2019, the MS4 shall consult with the Regional Water Board to establish dates to meet new interim targets and to achieve wasteload allocations. At least one interim target and date must occur during the five years commencing on January 1, 2019. The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target.

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10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide.
11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.
12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL Schedule.
13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program.
14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment.

By January 1, 2019, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

TMDL for the San Lorenzo River Estuary, San Lorenzo River, Branciforte Creek, Camp Evers Creek, Carbonera Creek, and Lompico Creek – Pathogens

Effective Date: 6/8/2011

BPA: Chapter 4

Resolution No. R3-2009-0023

Phase II Entities: City of Santa Cruz, County of Santa Cruz, City of Scotts Valley

Impaired Water Body: San Lorenzo River Estuary, San Lorenzo River, Branciforte Creek, Camp Evers Creek, Carbonera Creek, Lompico Creek

Requirements for Implementing the TMDL

By January 1, 2019, the Phase II entities identified in this TMDL section (hereafter referred to in this TMDL section as “the MS4”) shall each implement a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include:

1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule.
2. Identification of sources of the impairment within the MS4’s jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.
3. Prioritization of sources within the MS4’s jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.
4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.
5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.

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6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained.
7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans.
8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations.
9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL attainment schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five years commencing on January 1, 2019. The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target.
10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide.
11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.
12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule.
13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program.
14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment.

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By June 8, 2024, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

TMDL for Soquel Lagoon, Soquel Creek, and Noble Gulch – Pathogens

Effective Date: 9/15/2010

BPA: Chapter 4

Resolution No. R3-2009-0024

Phase II Entities: City of Capitola, County of Santa Cruz

Impaired Water Body: Soquel Lagoon, Soquel Creek, Noble Gulch

Requirements for Implementing the TMDL

By January 1, 2019, the Phase II entities identified in this TMDL section (hereafter referred to in this TMDL section as “the MS4”) shall each implement a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include:

1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL Schedule.
2. Identification of sources of the impairment within the MS4’s jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.
3. Prioritization of sources within the MS4’s jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.
4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.
5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.
6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained.
7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4’s wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans.
8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and

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progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations.

9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL attainment schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five years commencing on January 1, 2019. The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target.
10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide.
11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.
12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule.
13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program.
14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment.

By September 15, 2023, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

TMDL and Implementation Plan for Watsonville Slough – Pathogens

Effective Date: 11/20/2006

BPA: Chapter 4

Resolution No. R3-2006-0025

Phase II Entities: County of Santa Cruz, City of Watsonville

Impaired Water Body: Watsonville Slough, Struve Slough, Harkins Slough, Gallighan Slough, Hanson Slough

Requirements for Implementing the TMDL

By January 1, 2019, the Phase II entities identified in this TMDL section shall implement practices that will assure their allocation is achieved. The Phase II entities identified in this TMDL section (hereafter referred to in this TMDL section as “the MS4”) shall each implement a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include:

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1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule.
2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.
3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.
4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.
5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.
6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained.
7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans.
8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations.
9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL attainment schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. Where TMDL attainment schedules have passed, but Wasteload Allocations have not been achieved by January 1, 2019, the MS4 shall consult with the Regional Water Board to establish dates to meet new interim targets and to achieve wasteload allocations. At least one interim target and date must occur during the five years commencing on January 1, 2019. The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target

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by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target.

10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide.
11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.
12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule.
13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program.
14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment, including public education and participation. The MS4 public participation and outreach efforts must include the following tasks: a) Educating the public about sources of fecal coliform and its associated health risks in surface waters; and b) Identifying and promoting specific actions that responsible parties can implement to reduce pathogen loading from sources such as homeless encampments, agricultural field workers, and homeowners who contribute waste from domestic pets.

By January 1, 2019, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

Sediment

TMDL for Morro Bay (including Chorro Creek, Los Osos Creek, and the Morro Bay Estuary) – Sediment

Effective Date: 12/3/2003

BPA: Chapter 4

Resolution No. R3-2002-0051

Phase II Entities: County of San Luis Obispo

Impaired Water Body: Morro Bay, Los Osos Creek, Chorro Creek, Dairy Creek, Pennington Creek, Warden Creek

Requirements for Implementing the TMDL

By January 1, 2019, the County of San Luis Obispo shall implement practices that will assure their allocation is achieved, including identifying and implementing specific road sediment control measures. The County of San Luis Obispo (hereafter referred to in this TMDL section as “the MS4”) shall implement a Wasteload Allocation Attainment Program that identifies the actions it will take to attain its wasteload allocation. The Wasteload Allocation Attainment Program shall include:

1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at

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abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule.

2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.
3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.
4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.
5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.
6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained.
7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans.
8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations.
9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL attainment schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five years commencing on January 1, 2019. The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target.
10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide.

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11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.
12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule.
13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program.
14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment.

By December 3, 2053, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

TMDL and Implementation Plan for Pajaro River including Llagas Creek, Rider Creek, and San Benito River – Sediment

Effective Date: 11/27/2006

BPA: Chapter 4

Resolution No. R3-2005-0132

Phase II Entities: City of Gilroy, City of Hollister, City of Morgan Hill, Santa Cruz County Fairgrounds, City of Watsonville

Impaired Water Body: Tres Pinos, San Benito River, Llagas Creek, Uvas Creek, Upper Pajaro River, Corralitos Creek (including Rider Creek), Mouth of Pajaro River

Requirements for Implementing the TMDL

The Phase II entities identified in this TMDL section shall implement the practices specified in this Order, tailored to focus on reduction of sediment discharges to the affected waterbodies, to ensure achievement of the wasteload allocations.

By November 27, 2051, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

TMDL for San Lorenzo River (Including Carbonera Creek, Lompico Creek, and Shingle Mill Creek) – Sediment

Effective Date: 12/18/2003

BPA: Chapter 4

Resolution No. R3-2002-0063

Phase II Entities: City of Santa Cruz, County of Santa Cruz, City of Scotts Valley

Impaired Water Body: San Lorenzo River, Carbonera Creek, Lompico Creek, Shingle Mill Creek

Requirements for Implementing the TMDL

By January 1, 2019, the Phase II entities identified in this TMDL section shall implement practices that will assure their allocation is achieved, including identifying and implementing specific road sediment control measures. The Phase II entities identified in this TMDL section (hereafter referred to in this TMDL section as “the MS4”) shall each implement a Wasteload

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Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include:

1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule.
2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.
3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.
4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.
5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.
6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained.
7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans.
8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations.
9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL attainment schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five years commencing on January 1, 2019. The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target

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by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target.

10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide.
11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.
12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule.
13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program.
14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment.

By December 18, 2028, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

Toxicity and Pesticides

TMDL for the Santa Maria River Watershed – Toxicity and Pesticides

Effective Date: 10/29/2014

BPA: Chapter 4

Resolution No. R3-2014-0009

Phase II Entities: City of Guadalupe, City of Santa Maria, County of Santa Barbara

Impaired Water Body: Blosser Channel, Bradley Channel, Greene Valley Creek, Main Street Canal, Orcutt Creek, Santa Maria River

Requirements for Implementing the TMDL

By January 1, 2019, the Phase II entities identified in this TMDL section (hereafter referred to in this TMDL section as “the MS4”) shall each develop, submit, and begin implementation of a Wasteload Allocation Attainment Program, or an integrated plan, that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs or integrated plans shall include:

1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule.
2. Identification of sources of the impairment within the MS4’s jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.
3. Prioritization of sources within the MS4’s jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.

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4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.
5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.
6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained.
7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. This analysis may incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans.
8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocations. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim and final wasteload allocations. The Central Coast Water Board may approve participation in statewide or regional monitoring programs as meeting all, or a portion of monitoring requirements.
9. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide.
10. A detailed description of how the MS4 proposes to assess its attainment of interim targets and the final wasteload allocation.
11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.
12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule.
13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program or integrated plan.
14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment, including public education and participation items identified above.

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Waste load allocations will be achieved through implementation of management practices and strategies to reduce pesticide loading, and wasteload allocation attainment will be demonstrated through water quality monitoring. Implementation can be conducted by MS4s specifically and/or through statewide programs addressing urban pesticide water pollution. The Wasteload Allocation Attainment Program may include participation in statewide efforts, by organizations such as California Stormwater Quality Association (CASQA), that coordinate with Department of Pesticide Regulation and other organizations taking actions to protect water quality from the use of pesticides in the urban environment.

By November 1, 2029, the permittees shall demonstrate attainment of the pyrethroids WLA as specified in Section E.15.a.(ii). or F.5.i.1. (ii). of this Order. This estimate is based on the widespread availability of pyrethroids, including consumer usage, and current limited regulatory oversight. By November 1, 2044, the permittees shall demonstrate attainment of the organochlorine pesticides (DDT, DDD, DDE, chlordane, eldrin, toxaphene, dieldrin) WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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Region 4: Los Angeles Regional Water Board

Bacteria

TMDL for Avalon Beach – *Bacteria*

Effective Date: April 5, 2012
BPA: N/A (Issued through R4-2012-0077)
Phase II Entities: City of Avalon
Impaired Water Body: Avalon Beach

Requirements for Implementing the TMDL

City of Avalon's compliance with the MS4-specific provisions of Cease and Desist Order No. R4-2012-0077 and the applicable implementation requirements and timelines therein, in addition to compliance with all requirements of this Order, shall constitute compliance with the requirements of this Attachment.

TMDL for Ballona Creek – *Bacteria*

Effective Date: April 27, 2007
BPA Chapter 7-21
Resolution Nos.: 2006-11, R12-008 revision
Phase II Entities: University of California Los Angeles, Veteran Affairs, Greater Los Angeles Healthcare System
Impaired Water Body: Ballona Creek

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL:

1. Enter in a cooperative agreement with Phase I MS4 Permittees, in the watershed or subwatershed of the impaired water body of this Section, to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by January 1, 2019, and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized by July 1, 2019, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization.

or alternatively,

2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the

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Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the attainment schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by July 1, 2019. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data.

By January 1, 2019, the permittees shall demonstrate attainment of the Dry Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order. By July 15, 2021, the permittees shall demonstrate attainment of the Wet Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

TMDL for Los Angeles Harbor (Inner Cabrillo Beach and Main Ship Channel) – Bacteria

Effective Date: March 10, 2005

BPA Chapter 7-11

Resolution No.: 2004-011; R12-007 (revised)

Phase II Entities: Federal Correctional Institution (FCI), Terminal Island, California State University Dominguez Hills

Impaired Water Body: Dominguez Channel Watershed Management Area

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL:

1. Enter in a cooperative agreement with Phase I MS4 Permittees, in the watershed or subwatershed of the impaired water body of this Section, to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by January 1, 2019, and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized by July 1, 2019, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization.

or alternatively,

2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the attainment schedule deadline(s) identified within this specific TMDL section. The

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Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by July 1, 2019. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data.

By January 1, 2019, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

TMDL for Los Angeles River – *Bacteria*

Effective Date: March 23, 2012

BPA Chapter 7-39

Resolution No.: R10-007

Phase II Entities: California State University Los Angeles, California State University Northridge

Impaired Water Body: Los Angeles River

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL:

1. Enter in a cooperative agreement with Phase I MS4 Permittees, in the watershed or subwatershed of the impaired water body of this Section, to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by January 1, 2019, and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized by July 1, 2019, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization.

or alternatively,

2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the attainment schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los

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Angeles Regional Water Board Executive Officer approval by July 1, 2019. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data.

By March 23, 2037, the permittees shall demonstrate attainment of the Wet Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order. By March 23, 2022 to September 23, 2030, according to the following table, the permittees shall demonstrate attainment of the Dry Weather WLA, for the indicated waterbody segment, as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

Waterbody Segment	Achieve Final dry weather WLA by:
Segment B (upper and middle Reach 2)	March 23, 2022
Segment B Tributaries (Rio Hondo & Arroyo Seco)	September 23, 2023
Segment A (lower Reach 2 and Reach 1)	March 23, 2024
Segment A Tributaries (Compton Creek)	September 23, 2025
Segment E (Reach 6)	March 23, 2025
Segment E Tributaries (Dry Canyon, McCoy and Bell Creeks, and Aliso Canyon Wash)	March 23, 2029
Segment C (lower Reach 4 and Reach 3)	September 23, 2030
Segment C Tributaries (Tujunga Wash, Burbank Western Channel and Verdugo Wash)	September 23, 2030
Segment D (Reach 5 and upper Reach 4)	September 23, 2030
Segment D Tributaries (Bull Creek)	September 23, 2030

TMDL for Santa Monica Bay Beaches – *Bacteria*

Effective Date: July 15, 2003

BPA: Chapter 7-4

Resolution Nos.: 2002-04 (dry weather), 2002-022 (wet weather), R12-007 revision

Phase II Entities: Department of Parks and Recreation (Point Dume State Beach, Leo Carrillo State Beach, Robert H Meyer Memorial State Beach)

Impaired Water Body: Santa Monica Bay

Requirements for Implementing the TMDL:

The Department of Parks and Recreation (specifically, Point Dume State Beach, Leo Carrillo State Beach, and Robert H Meyer Memorial State Beach) must take either of the following actions to meet the requirements of this TMDL:

1. Enter in a cooperative agreement with Phase I MS4 Permittees, in the watershed or subwatershed of the impaired water body of this Section, to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region’s Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by January 1, 2019, and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized by July 1, 2019, and shall be submitted to the Executive Officer upon finalization.

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Or alternatively,

2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the attainment schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by July 1, 2019. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data.

By January 1, 2019, the permittees shall demonstrate attainment of the summer period Dry Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order. By January 1, 2019, the permittees shall demonstrate attainment of the winter period Dry Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order. By July 15, 2021, the permittees shall demonstrate attainment of the Wet Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

Indicator Bacteria

TMDL for San Gabriel River and Impaired Tributaries – *Indicator Bacteria*

Effective Date: June 14, 2016

BPA: Chapter 7-41

Resolution No.: R15-005

Phase II Entities: California State Polytechnic University, Pomona

Impaired Water Body: San Gabriel River and Tributaries

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL:

1. Enter in a cooperative agreement with Phase I MS4 Permittees, in the watershed or subwatershed of the impaired water body of this Section, to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by January 1, 2019, and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be

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finalized by July 1, 2019, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization.

or alternatively,

2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the attainment schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by July 1, 2019. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data.

By June 14, 2026, the permittees shall demonstrate attainment of the Dry Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order. By June 14, 2036, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

Marine Debris

TMDL for Santa Monica Bay – *Marine Debris*

Effective Date: March 20, 2012

BPA Chapter 7-34

Resolution No.: 2010-010

Phase II Entities: Department of Parks and Recreation (Point Dume State Beach, Robert H Meyer Memorial State Beach)

Impaired Water Body: Santa Monica Bay Watershed Management Area

Requirements for Implementing the TMDL:

By January 1, 2019, the Department of Parks and Recreation (at Point Dume State Beach and Robert H. Meyer Memorial State Beach) must submit for Los Angeles Regional Water Board Executive Officer approval, a Minimum Frequency of Assessment and Collection Program (MFAC)/BMP Program that meets the following criteria:

- a) The MFAC/BMP Program includes an initial minimum frequency of trash assessment and collection and suite of structural and/or nonstructural BMPs. The MFAC/BMP Program shall include collection and disposal of all trash found in the source areas and along the shoreline. Responsible jurisdictions shall implement an initial suite of BMPs based on current trash management practices in land areas that are found to be sources

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of trash to waterbodies within the Santa Monica Bay Watershed Management Area and to Santa Monica Bay.

Beaches and Harbors along Santa Monica Bay

For beaches and harbors along Santa Monica Bay, the initial minimum frequency shall be set as follows:

1. The trash source areas of beaches and harbors shall be cleaned on a daily basis year-round.
2. Trash on Santa Monica Bay shorelines shall be collected daily. An assessment shall immediately follow at the frequency specified in the Trash Monitoring and Reporting Plan (TMRP).
3. The assessment performed immediately after the collection events shall focus on the shorelines or interface along Santa Monica Bay.
4. The protocol for conducting the assessment immediately after the collection event shall include methods and frequencies of assessment, specific locations on the beaches and harbors, in the TMRP.
5. Responsible jurisdictions for beaches and harbors shall conduct routine trash generation rate evaluation on the nonpoint source areas at selected beaches or harbors under their management. Protocols, as specified in the TMRP, for this evaluation include:
 - i) The evaluation shall be performed in the late afternoon before dusk. Data collected may represent the daily trash quantity littered or deposited on the nonpoint source areas.
 - ii) Methods, locations and frequencies of evaluation on the beaches and harbors shall be included in the TMRP.
6. Water in harbors shall be inspected and all trash found on the water shall be removed at a frequency and during critical conditions as defined in the approved TMRP.
7. Compliance for jurisdictions responsible for nonpoint source trash at areas where daily cleanup is implemented, is determined by the following conditions:
 - i) The assessment conducted immediately after cleanup shall demonstrate that all trash on the shoreline or harbor is 100% removed and no trash remains.
 - ii) Responsible jurisdictions for beaches and harbors where daily cleanup is performed, shall demonstrate that the trash generation rate of the source areas does not show an increasing trend and does not exceed the benchmark of 310 pounds (lbs) per mile of beach/harbor per day, or 113,150 lbs/mile/year.
8. Should trash amounts collected during evaluation at the source areas exceed 113,150 lbs/mile/year, or not indicate a decreasing trend, the responsible jurisdictions shall immediately initiate additional BMPs as specified in the TMRP,
9. By January 1, 2019, responsible agencies and jurisdictions shall also develop a Trash Monitoring and Reporting Plan (TMRP) for Los Angeles Regional Water Board Executive Officer approval that describes the methodologies that will be used to assess and monitor trash in their responsible areas within the Santa Monica Bay Watershed Management Area or along Santa Monica Bay.

By January 1, 2019, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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Metals

TMDL for Ballona Creek – Metals

Effective Date: October 29, 2008

BPA: Chapter 7-12

Resolution No.: 2007-015; R13-010 (revised)

Phase II Entities: Veteran Affairs, Greater Los Angeles Healthcare System, University of California Los Angeles

Impaired Water Body: Ballona Creek

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL:

1. Enter in a cooperative agreement with Phase I MS4 Permittees, in the watershed or subwatershed of the impaired water body of this Section, to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by January 1, 2019, and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized by July 1, 2019, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization.

or alternatively,

2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the attainment schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by July 1, 2019. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data.

By January 1, 2019, the permittees shall demonstrate attainment of the Dry Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order. By January 11, 2021, the permittees shall demonstrate attainment of the Wet Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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TMDL for Los Angeles River and Tributaries – Metals

Effective Date: November 3, 2011

BPA: Chapter 7-13

Resolution No.: R07-014; R10-003 (revised); R15-004 (revised)

Phase II Entities: California State University Los Angeles, California State University
Northridge

Impaired Water Body: Los Angeles River

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL:

1. Enter in a cooperative agreement with Phase I MS4 Permittees, in the watershed or subwatershed of the impaired water body of this Section, to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by January 1, 2019, and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized by July 1, 2019, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization.

or alternatively,

2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the attainment schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by July 1, 2019. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data.

By January 11, 2024, the permittees shall demonstrate attainment of the Dry Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order. By January 11, 2028, the permittees shall demonstrate attainment of the Wet Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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TMDL for Los Cerritos Channel – Metals

Effective Date: March 17, 2010

USEPA Established

Phase II Entities: California State University Long Beach, Long Beach Veterans Affairs Medical Center

Impaired Water Body: Los Cerritos Channel

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL:

1. Enter in a cooperative agreement with Phase I MS4 Permittees, in the watershed or subwatershed of the impaired water body of this Section, to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by January 1, 2019, and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized by July 1, 2019, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization.

or alternatively,

2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the attainment schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by July 1, 2019. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data.

By September 30, 2023, the permittees shall demonstrate attainment of the Dry Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order. By September 30, 2026, the permittees shall demonstrate attainment of the Wet Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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Metals and Selenium

TMDL for Calleguas Creek – Metals and Selenium

Effective Date: March 26, 2007

BPA Chapter 7-19

Resolution No.: 2006-012

Phase II Entities: Naval Base Ventura County (Point Mugu), Department of Parks and Recreation (Point Mugu State Park), California State University, Channel Islands

Impaired Water Body: Calleguas Creek

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL:

1. Enter in a cooperative agreement with Phase I MS4 Permittees, in the watershed or subwatershed of the impaired water body of this Section, to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by January 1, 2019, and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized by July 1, 2019, and shall be submitted to the Regional Water Board Executive Officer upon finalization.

or alternatively,

2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the attainment schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by July 1, 2019. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data.

By March 26, 2022, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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TMDL for San Gabriel River and Impaired Tributaries – Metals and Selenium

Effective Date: March 26, 2007

USEPA Established

Phase II Entities: California State Polytechnic University, Pomona

Impaired Water Body: San Gabriel River and Tributaries

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL:

1. Enter in a cooperative agreement with Phase I MS4 Permittees, in the watershed or subwatershed of the impaired water body of this Section, to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by January 1, 2019, and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized by July 1, 2019, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization.

or alternatively,

2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the attainment schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by July 1, 2019. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data.

The final deadline for attainment of the WLA is not specified in the TMDL. Therefore, municipalities identified in this TMDL section shall propose a timeline to attain the WLA in the shortest practicable time, subject to Regional Water Board Executive Officer approval. Attainment of the WLA shall be demonstrated as specified in Section E.15.a.(ii)/Section F.5.i.1.(ii) of this Order.

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Nitrogen and Related Effects

TMDL for Los Angeles River – Nitrogen and Related Effects

Effective Date: March 23, 2004

BPA Chapter 7-8

Resolution Nos.: R03-009 (amended by R03-016, R05-014, R07-005, & R12-010)

Phase II Entities: California State University Los Angeles, California State University
Northridge

Impaired Water Body: Los Angeles River

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL:

1. Enter in a cooperative agreement with Phase I MS4 Permittees, in the watershed or subwatershed of the impaired water body of this Section, to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by January 1, 2019, and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized by July 1, 2019 and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization.

or alternatively,

2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the attainment schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by July 1, 2019. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data.

By January 1, 2019, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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Organochlorine Pesticides, Polychlorinated Biphenyls, and Siltation

TMDL for Calleguas Creek – Organochlorine Pesticides, Polychlorinated Biphenyls, and Siltation

Effective Date: March 24, 2006

BPA Chapter 7-16

Resolution No.: 2005-009

Phase II Entities: Naval Base Ventura County (Point Mugu), Department of Parks and Recreation (Point Mugu State Park), California State University, Channel Islands

Impaired Water Body: Calleguas Creek

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL:

1. Enter in a cooperative agreement with Phase I MS4 Permittees, in the watershed or subwatershed of the impaired water body of this Section, to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by January 1, 2019, and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized by July 1, 2019 and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization.

or alternatively,

2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the attainment schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by July 1, 2019. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data.

By March 24, 2026, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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Toxic Pollutants

TMDL for Ballona Creek Estuary – Toxic Pollutants

Effective Date: January 11, 2006

BPA: Chapter 7-14

Resolution No.: 2005-008; R13-010 (revised)

Phase II Entities: Veteran Affairs, Greater Los Angeles Healthcare System, University of California Los Angeles

Impaired Water Body: Ballona Creek

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL:

1. Enter in a cooperative agreement with Phase I MS4 Permittees, in the watershed or subwatershed of the impaired water body of this Section, to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by January 1, 2019 and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized by July 1, 2019 and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization.

or alternatively,

2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the attainment schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by July 1, 2019. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data.

By January 11, 2021, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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Toxics and Metals

TMDL for Los Angeles and Long Beach Harbors – Toxics and Metals

Effective Date: March 23, 2012

BPA Chapter 7-40

Resolution No.:2011-008

Phase II Entities: Federal Correction Institution (FCI), Terminal Island, Community Corrections Management (CCM), Long Beach, California State University Dominguez Hills

Impaired Water Body: Dominguez Channel Watershed

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL:

1. Enter in a cooperative agreement with Phase I MS4 Permittees, in the watershed or subwatershed of the impaired water body of this Section, to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by January 1, 2019, and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized by July 1, 2019 and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization.

or alternatively,

2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the attainment schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by July 1, 2019. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data.

By March 23, 2032, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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Toxicity

TMDL for Calleguas Creek Watershed – Toxicity

Effective Date: March 24, 2006

BPA Chapter 7-17

Resolution No.: 2005-010

Phase II Entities: Naval Base Ventura County (Point Mugu), Department of Parks and Recreation (Point Mugu State Park), California State University, Channel Islands
Impaired Water Body: Calleguas Creek

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL:

1. Enter in a cooperative agreement with Phase I MS4 Permittees, in the watershed or subwatershed of the impaired water body of this Section, to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by January 1, 2019, and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized by July 1, 2019 and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization.

or alternatively,

2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the attainment schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by July 1, 2019. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data.

By January 1, 2019, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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Trash

TMDL for Ballona Creek – Trash

Effective Date: August 28, 2002

BPA: Chapter 7.3

Resolution No.: 2001-014 2004-023 (revision), R15-006 (revision)

Phase II Entities: Veteran Affairs, Greater Los Angeles Healthcare System, University of California Los Angeles

Impaired Water Body: Ballona Creek

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section shall implement either 1) Full Capture Systems, 2) partial capture devices and the application of institutional controls, or 3) a scientifically based alternative attainment approach.

A Full Capture System is any device or series of devices that traps all particles retained by a 5 mm mesh screen and has a design treatment capacity of not less than the peak flow rate (Q) resulting from a one year, one hour, storm event. The Rational Equation is used to compute the peak flow rate (See Fact Sheet for Rational Equation).

A partial capture device does not meet the definition of a Full Capture System; a partial capture device may not trap all particles 5 mm or greater or may not have the minimum design treatment capacity of a one year, one hour, storm event. Thus, a MS4 Permittee must implement institutional controls in combination with the partial capture device to comply with the wasteload allocations. MS4 Permittees employing partial capture devices and institutional controls shall use a mass balance approach based on the trash daily generation rate, assessed annually, to demonstrate attainment. (See Fact Sheet for attainment determination information)

An alternative attainment approach to implementing either 1) a Full Capture System or 2) partial capture devices and the application of institutional controls must be submitted for approval by the Los Angeles Regional Water Board Executive Officer. By July 1, 2019, MS4 Permittees seeking approval of an alternative attainment approach, shall include in their submittal any proposed studies of institutional controls and partial capture devices for their particular subwatershed(s) or demonstrate that existing studies are representative and transferable to the implementing area. Permittees shall also provide a schedule for periodic, attainment effectiveness demonstration and evaluation.

By January 1, 2019, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

TMDL for Los Angeles River – Trash

Effective Date: September 23, 2008

BPA Chapter 7-2

Resolution No.:07-012, R15-006 (revision)

Phase II Entities: California State University Los Angeles, California State University Northridge

Impaired Water Body: Los Angeles River

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Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section shall implement either 1) Full Capture Systems, 2) partial capture devices and the application of institutional controls, or 3) a scientifically based alternative attainment approach.

A Full Capture System is any device or series of devices that traps all particles retained by a 5 mm mesh screen and has a design treatment capacity of not less than the peak flow rate (Q) resulting from a one year, one hour, storm event. The Rational Equation is used to compute the peak flow rate (See Fact Sheet for Rational Equation).

A partial capture device does not meet the definition of a Full Capture System; a partial capture device may not trap all particles 5 mm or greater or may not have the minimum design treatment capacity of a one year, one hour, storm event. Thus, a MS4 Permittee must implement institutional controls in combination with the partial capture device to comply with the wasteload allocations. MS4 Permittees employing partial capture devices or institutional controls shall use a mass balance approach based on the trash daily generation rate, assessed annually, to demonstrate attainment. (See Fact Sheet for attainment determination information)

An alternative attainment approach to implementing either 1) a Full Capture System or 2) partial capture devices and the application of institutional controls must be submitted for approval by the Los Angeles Regional Water Board Executive Officer. By July 1, 2019, MS4 Permittees seeking approval of an alternative attainment approach, shall include in their submittal any proposed studies of institutional controls and partial capture devices for their particular subwatershed(s) or demonstrate that existing studies are representative and transferable to the implementing area. Permittees shall also provide a schedule for periodic, attainment effectiveness demonstration and evaluation.

By January 1, 2019, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

TMDL for Ventura River Estuary – Trash

Effective Date: March 6, 2008

BPA Chapter 7-25

Resolution No.:07-008

Phase II Entities: Ventura County Fairgrounds (Seaside Park and Ventura County Fairgrounds)

Impaired Water Body: Ventura River

Requirements for Implementing the TMDL:

The Ventura County Fairgrounds (including Seaside Park and Ventura County Fairgrounds) shall implement Full Capture Systems. A Full Capture System is any device or series of devices that traps all particles retained by a 5 mm mesh screen and has a design treatment capacity of not less than the peak flow rate (Q) resulting from a one year, one hour, storm event. The Rational Equation is used to compute the peak flow rate (See Fact Sheet for Rational Equation).

By January 1, 2019, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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Region 5: Central Valley Regional Water Board

Diazinon & Chlorpyrifos

TMDL for Lower San Joaquin River – Diazinon & Chlorpyrifos

Effective Date: December 20, 2006

BPA: Chapter 3

Resolution No.: R5-2005-0138

Phase II Entities: City of Patterson

Impaired Water Body: San Joaquin River from Mendota Dam to Vernalis

Requirements for Implementing the TMDL and Monitoring Requirements:

The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) shall implement the following actions by January 1, 2019:

1. a. Conduct an assessment: By July 1, 2020, the Permittees shall complete and submit to the Central Valley Regional Water Board Executive Officer an assessment to, at a minimum: determine the diazinon and chlorpyrifos levels and attainment of waste load allocations in urban discharge; and evaluate attainment of established water quality objectives applicable to diazinon and chlorpyrifos for the receiving water. Assessment monitoring may be done in coordination or conjunction with other municipalities and/or Permittees. The Permittees are responsible for providing the assessment and necessary information related to the assessment to the Central Valley Regional Water Board Executive Officer for review and approval. The assessment information may come from the Permittee's monitoring efforts; monitoring programs conducted by State or federal agencies or collaborative watershed efforts; or from special studies that evaluate the effectiveness of management practices.
- b. With Central Valley Regional Water Board Executive Officer approval, the Permittees may participate in the Delta Regional Monitoring Program or other collective monitoring efforts in lieu of some or all of the individual monitoring requirements required by this section.
- c. Permittees that implement individual water quality monitoring pursuant to 1.a., above, must submit a Monitoring Plan and Quality Assurance Project Plan (QAPP) to the Executive Officer for review and approval.
 - i) Monitoring Plan – at a minimum, the Monitoring Plan must include the following information:
 - 1) Management questions to be answered by the Monitoring Plan,
 - 2) Constituents to be monitored, analytical methods, and reporting limits,
 - 3) Sampling site(s) locations, including latitude and longitude coordinates, water body name and water body segment if applicable,
 - 4) Other monitoring efforts that will provide supplemental data for the local water quality monitoring program and assessment (if any),
 - 5) Proposed schedule and level of detail for monitoring reports. If a more comprehensive report is necessary every few years, the Monitoring Plan shall

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propose a schedule and description of the level of detail (consistent with the information described below) that will be included within the Annual Reports.

- ii) Quality Assurance Project Plan (QAPP) consistent with Surface Water Ambient Monitoring Program (SWAMP). All samples shall be collected and analyzed according to the QAPP. Monitoring Reports shall be submitted with the Annual Report and include the following information (consistent with the approved Monitoring Plan):
 - 1) The purpose of the monitoring, brief contextual background, and a brief description of the study design and rationale;
 - 2) Methods used for sample collection: list methods used for sample collection, sample or data collection identification, collection date, and media if applicable;
 - 3) Identification of and rationale for any deviations from the QAPP;
 - 4) Results of data collection, including concentration detected, measurement units, reporting limits, and detection limits, if applicable;
 - 5) Quantifiable assessment, analysis and interpretation of data for each monitoring parameter;
 - 6) Comparison to reference sites (if applicable), guidelines or targets;
 - 7) Discussion of whether data collected addresses the objective(s) or question(s) of study design;
 - 8) Quantifiable discussion of program/study pollutant reduction effectiveness.

2. Pesticide Management Plans: Unless the Permittees can demonstrate attainment of the waste load allocations, the Permittee shall prepare a Pesticide Management Plan which includes a description of actions that will be taken to reduce diazinon and chlorpyrifos discharges to meet the applicable allocations. Pesticide Management Plan provisions addressing diazinon and chlorpyrifos can be included in the pesticide management plans covering current use pesticides with the goal of reducing the discharge of pesticides from municipal storm water to receiving water. Pesticide Management Plans shall address the Permittee's own use of pesticides, and to the extent authorized by law, the use of such pesticides by other sources within their jurisdictions. Pesticide Management Plans shall include identifying and promoting, within the context of integrated pest management (IPM) programs, the use of pest management practices that minimize the risk of pesticide impacts on surface water quality resulting from urban runoff discharges. Additionally, the plan shall include the integration of IPM into the Permittee's municipal operations and be promoted to residents, businesses, and public agencies within each Permittee's jurisdiction through public outreach.

The Central Valley Regional Water Board Executive Officer may require revisions to the Pest Management Plans if the Central Valley Regional Water Board Executive Officer determines that the Pest Management Plan is not likely to attain the waste load allocations. Pest Management Plans may be submitted by individual Permittee or Permittee groups and may refer to actions required by other agencies or actions required elsewhere in this permit. Pest Management Plans may include actions to reduce MS4 pesticide discharges through participation or support of a regional or statewide pesticide reduction program. To receive credit toward compliance for such participation, the Permittees must demonstrate that they have participated in the implementation of the program (i.e., contributing materially and in proportion in the size of a Permittee's service area, including, but not limited to, implementation of reduction program measures, membership, contribution of resources,

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etc.). Examples of programs that could be eligible include Our Water Our World (outreach), a recognized regional monitoring program, and California Stormwater Quality Association's (CASQA) pesticide regulatory initiative. In developing the monitoring and reporting programs for the Permittee, the Central Valley Water Board will, in coordination with the DPR, assist the Permittee in identifying diazinon and chlorpyrifos alternatives for which monitoring may be necessary.

By January 1, 2019, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

TMDL for Sacramento and Feather Rivers – Diazinon & Chlorpyrifos

Effective Date: May 3, 2007

BPA: Attachment 1

Resolution No.: R5-2007-0034

Phase II Entities: City of Anderson, County of Colusa, City of Marysville, City of Red Bluff, City of Redding, County of Shasta, County of Sutter, City of Yuba City, County of Yuba

Impaired Water Body: Sacramento River from Shasta Dam to I Street Bridge, Feather River from Fish Barrier Dam to Sacramento River

Requirements for Monitoring and Implementing the TMDL:

The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) shall implement the following actions by January 1, 2019:

1. a. Conduct an assessment: By July 1, 2020, the Permittees shall complete and submit to the Central Valley Regional Water Board Executive Officer an assessment to, at a minimum: determine the diazinon and chlorpyrifos levels and attainment of waste load allocations in urban discharge; and evaluate attainment of established water quality objectives applicable to diazinon and chlorpyrifos for the receiving water. Assessment monitoring may be done in coordination or conjunction with other municipalities and/or Permittees. Permittees are responsible for providing the assessment and necessary information related to the assessment to the Central Valley Regional Water Board Executive Officer for review and approval. The assessment information may come from the Permittee's monitoring efforts; monitoring programs conducted by State or federal agencies or collaborative watershed efforts; or from special studies that evaluate the effectiveness of management practices.
- b. With Central Valley Regional Water Board Executive Officer approval, the Permittees may participate in the Delta Regional Monitoring Program or other collective monitoring efforts in lieu of some or all of the individual monitoring requirements required by this section.
- c. Permittees that implement individual water quality monitoring pursuant to 1.a., above, must submit a Monitoring Plan and Quality Assurance Project Plan (QAPP) to the Executive Officer for review and approval.
 - i) Monitoring Plan – at a minimum, the Monitoring Plan must include the following information:
 - 1) Management questions to be answered by the Monitoring Plan,
 - 2) Constituents to be monitored, analytical methods, and reporting limits,

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- 3) Sampling site(s) locations, including latitude and longitude coordinates, water body name and water body segment if applicable,
 - 4) Other monitoring efforts that will provide supplemental data for the local water quality monitoring program and assessment (if any),
 - 5) Proposed schedule and level of detail for monitoring reports. If a more comprehensive report is necessary every few years, the Monitoring Plan shall propose a schedule and description of the level of detail (consistent with the information described below) that will be included within the Annual Reports.
- ii) Quality Assurance Project Plan (QAPP) consistent with Surface Water Ambient Monitoring Program (SWAMP). All samples shall be collected and analyzed according to the QAPP. Monitoring Reports shall be submitted with the Annual Report and include the following information (consistent with the approved Monitoring Plan):
- i) The purpose of the monitoring, brief contextual background, and a brief description of the study design and rationale;
 - ii) Methods used for sample collection: list methods used for sample collection, sample or data collection identification, collection date, and media if applicable;
 - iii) Identification of and rationale for any deviations from the QAPP;
 - iv) Results of data collection, including concentration detected, measurement units, reporting limits, and detection limits, if applicable;
 - v) Quantifiable assessment, analysis and interpretation of data for each monitoring parameter;
 - vi) Comparison to reference sites (if applicable), guidelines or targets;
 - vii) Discussion of whether data collected addresses the objective(s) or question(s) of study design;
 - viii) Quantifiable discussion of program/study pollutant reduction effectiveness.
2. Pesticide Management Plans: Unless Permittees can demonstrate attainment of the waste load allocations, Permittees shall prepare a Pesticide Management Plan which include a description of actions that will be taken to reduce diazinon and chlorpyrifos discharges to meet the applicable allocations. Pesticide Management Plan provisions addressing diazinon and chlorpyrifos can be included in pesticide management plans covering current use pesticides with the goal of reducing the discharge of pesticides from municipal storm water to receiving water. Pesticide Management Plans shall address the Permittee's own use of pesticides, and to the extent authorized by law, the use of such pesticides by other sources within their jurisdictions. Pesticide Management Plans shall include identifying and promoting, within the context of integrated pest management (IPM) programs, the use of pest management practices that minimize the risk of pesticide impacts on surface water quality resulting from urban runoff discharges. Additionally, the plan shall include the integration of IPM into the Permittee's municipal operations and be promoted to residents, businesses, and public agencies within each Permittee's jurisdiction through public outreach.

The Central Valley Regional Water Board Executive Officer may require revisions to the Pesticide Management Plans if the management plan is not likely to attain the waste load allocations. Pesticide Management Plans may be submitted by individual Permittee or Permittee groups and may refer to actions required by other agencies or actions required elsewhere in this permit. Management plans for pesticides may include actions to reduce

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MS4 pesticide discharges through participation or support of a regional or statewide pesticide reduction program. To receive credit toward compliance for such participation, the Permittees must demonstrate that they have participated in the implementation of the program (i.e., contributing materially and in proportion in the size of a Permittee's service area, including, but not limited to, implementation of reduction program measures, membership, contribution of resources, etc.). Examples of programs that could be eligible include Our Water Our World (outreach), a recognized regional monitoring program, and California Stormwater Quality Association's (CASQA) pesticide regulatory initiative. In developing the monitoring and reporting programs for Permittees, the Central Valley Water Board will, in coordination with the DPR, assist the Permittee in identifying diazinon and chlorpyrifos alternatives for which monitoring may be necessary.

By January 1, 2019, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

TMDL for Sacramento and San Joaquin Delta – Diazinon & Chlorpyrifos

Effective Date: October 10, 2006

BPA: Chapter 31

Resolution No.: R5-2006-0061

Phase II Entities: City of Lathrop, City of Lodi, City of Manteca, City of Rio Vista, County of San Joaquin, City of Tracy, City of West Sacramento

Impaired Water Body: Sacramento-San Joaquin Delta Waterways

Requirements for Monitoring and Implementing the TMDL:

The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) shall implement the following actions by January 1, 2019:

1. a. Conduct an assessment: By July 1, 2020, the Permittees shall complete and submit to the Central Valley Regional Water Board Executive Officer an assessment to, at a minimum: determine the diazinon and chlorpyrifos levels and attainment of waste load allocations in urban discharge; and evaluate attainment of established water quality objectives applicable to diazinon and chlorpyrifos for the receiving water. Assessment monitoring may be done in coordination or conjunction with other municipalities and/or Permittees. Permittees are responsible for providing the assessment and necessary information related to the assessment to the Central Valley Regional Water Board Executive Officer for review and approval. The assessment information may come from the Permittee's monitoring efforts; monitoring programs conducted by State or federal agencies or collaborative watershed efforts; or from special studies that evaluate the effectiveness of management practices.
- b. With Central Valley Regional Water Board Executive Officer approval, the Permittees may participate in the Delta Regional Monitoring Program or other collective monitoring efforts in lieu of some or all of the individual monitoring requirements required by this section.
- c. Permittees that implement individual water quality monitoring pursuant to 1.a., above, must submit a Monitoring Plan and Quality Assurance Project Plan (QAPP) to the Executive Officer for review and approval.

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- i) Monitoring Plan – at a minimum, the Monitoring Plan must include the following information:
 - 1) Management questions to be answered by the Monitoring Plan,
 - 2) Constituents to be monitored, analytical methods, and reporting limits,
 - 3) Sampling site(s) locations, including latitude and longitude coordinates, water body name and water body segment if applicable,
 - 4) Other monitoring efforts that will provide supplemental data for the local water quality monitoring program and assessment (if any),
 - 5) Proposed schedule and level of detail for monitoring reports. If a more comprehensive report is necessary every few years, the Monitoring Plan shall propose a schedule and description of the level of detail (consistent with the information described below) that will be included within the Annual Reports.
 - ii) Quality Assurance Project Plan (QAPP) consistent with Surface Water Ambient Monitoring Program (SWAMP). All samples shall be collected and analyzed according to the QAPP. Monitoring Reports shall be submitted with the Annual Report and include the following information (consistent with the approved Monitoring Plan):
 - 1) The purpose of the monitoring, brief contextual background, and a brief description of the study design and rationale;
 - 2) Methods used for sample collection: list methods used for sample collection, sample or data collection identification, collection date, and media if applicable;
 - 3) Identification of and rationale for any deviations from the QAPP;
 - 4) Results of data collection, including concentration detected, measurement units, reporting limits, and detection limits, if applicable;
 - 5) Quantifiable assessment, analysis and interpretation of data for each monitoring parameter;
 - 6) Comparison to reference sites (if applicable), guidelines or targets;
 - 7) Discussion of whether data collected addresses the objective(s) or question(s) of study design;
 - 8) Quantifiable discussion of program/study pollutant reduction effectiveness.
2. Pesticide Management Plans: Unless Permittees can demonstrate attainment of the waste load allocations, Permittees shall prepare a Pesticide Management Plan which include a description of actions that will be taken to reduce diazinon and chlorpyrifos discharges to meet the applicable allocations. Pesticide Management Plan provisions addressing diazinon and chlorpyrifos can be included in pesticide management plans covering current use pesticides with the goal of reducing the discharge of pesticides from municipal storm water to receiving water. Pesticide Management Plans shall address the Permittee's own use of pesticides, and to the extent authorized by law, the use of such pesticides by other sources within their jurisdictions. Pesticide Management Plans shall include identifying and promoting, within the context of integrated pest management (IPM) programs, the use of pest management practices that minimize the risk of pesticide impacts on surface water quality resulting from urban runoff discharges. Additionally, the Pesticide Management Plan shall include the integration of IPM into the Permittee's municipal operations and be

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promoted to residents, businesses, and public agencies within each Permittee’s jurisdiction through public outreach.

The Central Valley Regional Water Board Executive Officer may require revisions to the Pesticide Management Plans if the plan is not likely to attain the waste load allocations. Pesticide Management Plans may be submitted by individual Permittee or Permittee groups and may refer to actions required by other agencies or actions required elsewhere in this permit. Pesticide Management Plans may include actions to reduce MS4 pesticide discharges through participation or support of a regional or statewide pesticide reduction programs. To receive credit toward compliance for such participation, the Permittees must demonstrate that they have participated in the implementation of the program (i.e., contributing materially and in proportion in the size of a Permittee’s service area, including, but not limited to, implementation of reduction program measures, membership, contribution of resources, etc.). Examples of programs that could be eligible include Our Water Our World (outreach), a recognized regional monitoring program, and California Stormwater Quality Association’s (CASQA’s) pesticide regulatory initiative. In developing the monitoring and reporting programs for specific Permittees, the Central Valley Water Board will, in coordination with DPR, assist the Permittee in identifying diazinon and chlorpyrifos alternatives for which monitoring may be necessary.

By January 1, 2019, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

Methylmercury

TMDL for the Delta – Methylmercury

Effective Date: October 20, 2011

Resolution No.: R5-2010-0043

Phase II Entities: City of Lathrop, City of Lodi, City of Rio Vista, City of Tracy, City of West Sacramento, County of San Joaquin, County of Yolo

Impaired Water Body: Sacramento-San Joaquin Delta and Yolo Bypass waterways listed in Appendix 43 of the Basin Plan – Table A43-1

Requirements for Implementing the TMDL:

1. The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) shall implement best management practices (BMPs) to control erosion and sediment discharges with the goal of reducing mercury discharges. This will be implemented through compliance with the following Small MS4 Permit requirements:

- Discharge Prohibitions B.4
- Section E.6.a Legal Authority
- Section E.9 Illicit Discharge Detection and Elimination
- Section E.10 Construction Site Storm Water Runoff Control Program
- Section E.11 Pollution Prevention/Good Housekeeping
- Section E.12 Post-Construction
- Section E.13 Monitoring
- Section E.14 Program Effectiveness

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- Section E.15 Compliance with Implementation Provisions
2. Between 2014 and 2020 (Phase 1 of the Delta Mercury Control Program), the large MS4 permittees (not part of this permit) in the Delta are developing and evaluating BMPs to control methylmercury discharges in storm water. During this period, the Permittees should implement methylmercury management practices identified by the large MS4 permittees or other management practices identified by the Delta Mercury Control Program studies that are reasonable and feasible.
 3. The Permittees shall implement the Delta Mercury Exposure Reduction Program (see Water Quality Control Plan for the Sacramento River and San Joaquin River Basins, Chapter IV). This requirement may be met by ongoing participation in the collective [Mercury Exposure Reduction Program work plan](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/delta_hg/hg_exposure_reduction/2013oct_merp_wrkpln.pdf), dated October 2013 (https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/delta_hg/hg_exposure_reduction/2013oct_merp_wrkpln.pdf). Participation can include financial contributions and in-kind services that directly support exposure reduction activities.
 4. The Permittees shall document in their annual report, compliance with erosion and sediment control requirements in this Order, including a discussion of effectiveness of BMPs. The Permittees shall submit a Program Effectiveness Assessment as specified in Section E.14. of the Permit.
 5. As specified in section E.15.d, the Permittees shall document implementation of any methylmercury controls or best management practices in their Annual Reports.

Monitoring Provisions:

The following monitoring requirements apply after the Central Valley Water Board's review of Delta Mercury Control Program, (see the Delta Mercury Control Program in the Basin Plan) or 20 October 2022, whichever date occurs first.

1. a. The Permittees shall begin monitoring methylmercury loads and concentrations in storm water discharges to assess attainment with the TMDL allocations. Within one year of the Delta Mercury Control Program review, (or 20 October 2022, whichever date occurs first), the Permittees shall submit a plan, for Central Valley Regional Water Board Executive Officer approval, describing the locations and frequency of methylmercury monitoring. The Plan shall be representative of the MS4 service area. The sampling locations, frequencies, and reporting may be the same as the requirements in this Order. The Permittees shall implement the monitoring plan within six (6) months of Central Valley Regional Water Board Executive Officer approval.
- b. With Central Valley Regional Water Board Executive Officer approval, the Permittees may participate in the Delta Regional Monitoring Program or other collective monitoring efforts in lieu of some or all of the individual monitoring requirements required by this section.
- c. Permittees that implement individual water quality monitoring pursuant to 1.a., above, must submit a Monitoring Plan and Quality Assurance Project Plan (QAPP) to the Executive Officer for review and approval.

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- i) Monitoring Plan – at a minimum, the Monitoring Plan must include the following information:
 - 1) Management questions to be answered by the Monitoring Plan,
 - 2) Constituents to be monitored, analytical methods, and reporting limits,
 - 3) Sampling site(s) locations, including latitude and longitude coordinates, water body name and water body segment if applicable,
 - 4) Other monitoring efforts that will provide supplemental data for the local water quality monitoring program and assessment (if any),
 - 5) Proposed schedule and level of detail for monitoring reports. If a more comprehensive report is necessary every few years, the Monitoring Plan shall propose a schedule and description of the level of detail (consistent with the information described below) that will be included within the Annual Reports.
 - ii) Quality Assurance Project Plan (QAPP) consistent with Surface Water Ambient Monitoring Program (SWAMP). All samples shall be collected and analyzed according to the QAPP. Monitoring Reports shall be submitted with the Annual Report and include the following information (consistent with the approved Monitoring Plan):
 - a. The purpose of the monitoring, brief contextual background, and a brief description of the study design and rationale;
 - b. Methods used for sample collection: list methods used for sample collection, sample or data collection identification, collection date, and media if applicable;
 - c. Identification of and rationale for any deviations from the QAPP;
 - d. Results of data collection, including concentration detected, measurement units, reporting limits, and detection limits, if applicable;
 - e. Quantifiable assessment, analysis and interpretation of data for each monitoring parameter;
 - f. Comparison to reference sites (if applicable), guidelines or targets;
 - g. Discussion of whether data collected addresses the objective(s) or question(s) of study design;
 - h. Quantifiable discussion of program/study pollutant reduction effectiveness.
2. Progress toward attainment of the waste load allocations (WLA) shall be documented in the Annual Report by monitoring methylmercury loads from the MS4 or by quantifying the annual average methylmercury load reduced by implementing pollution prevention activities and source and treatment controls. The Delta Mercury Control Program (see Water Quality Control Plan for the Sacramento River and San Joaquin River Basins, Chapter IV) provides guidance for the calculation of methylmercury loading from urban areas and determination of attainment. The assessment information may come from the Permittee's monitoring efforts, monitoring programs conducted by State or federal agencies or collaborative watershed efforts, or from special studies that evaluate the effectiveness of management practices, as approved by the Central Valley Regional Water Board Executive Officer.

By December 31, 2030, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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Nutrients

TMDL for Clear Lake – Nutrients

Effective Date: September 21, 2007

BPA: Chapter IV-37.04

Resolution No.: R5-2006-0060

Phase II Entities: City of Clearlake, County of Lake, City of Lakeport

Impaired Water Body: Clear Lake

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) shall implement best management practices (BMPs) to control erosion and sediment discharges as a means of controlling phosphorous. These will be implemented through compliance with the following Small MS4 Permit requirements:

- Discharge Prohibitions B.4
- Section E.6.a. Legal Authority
- Section E.9. Illicit Discharge Detection and Elimination
- Section E.10. Construction Site Storm Water Runoff Control Program
- Section E.11. Pollution Prevention/Good Housekeeping
- Section E.12. Post-Construction
- Section E.13. Monitoring
- Section E.14. Program Effectiveness
- Section E.15 Compliance with Implementation Provisions

The Permittees shall document implementation of erosion and sediment BMPs in their Annual Reports as specified in Section E.15.d of this Order. Each Annual Report shall include documentation of compliance with the above Permit requirements. Permittees shall complete and submit Program Effectiveness Assessments as specified in Section E.14 of this Order. The Permittees shall use the information gained from the Program Effectiveness Assessments to improve their program and identify new BMPs or modifications of existing BMPs.

Monitoring Provisions:

1. By July 1, 2019, each Permittee shall incorporate individual monitoring and reporting plans, or the Permittees can collectively incorporate a single monitoring plan, into their respective Storm Water Management Plans approved under the previous 2003 Permit (State Water Board Order 2003-0005-DWQ). The monitoring plans shall enable the Central Valley Water Board to evaluate the MS4 Permittee's progress toward attainment of the WLAs and shall be representative of the respective MS4 service area.
2. With Central Valley Regional Water Board Executive Officer approval, the Permittees may participate in a regional monitoring program or other collective monitoring efforts in lieu of some or all of the individual monitoring requirements required by this section.
3. Permittees that implement individual water quality monitoring pursuant to this provision must submit a Monitoring Plan and Quality Assurance Project Plan (QAPP) to the Executive Officer for review and approval.

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- a) Monitoring Plan – at a minimum, the Monitoring Plan must include the following information:
 - i) Management questions to be answered by the Monitoring Plan,
 - ii) Constituents to be monitored, analytical methods, and reporting limits,
 - iii) Sampling site(s) locations, including latitude and longitude coordinates, water body name and water body segment if applicable,
 - iv) Other monitoring efforts that will provide supplemental data for the local water quality monitoring program and assessment (if any),
 - v) Proposed schedule and level of detail for monitoring reports. If a more comprehensive report is necessary every few years, the Monitoring Plan shall propose a schedule and description of the level of detail (consistent with the information described below) that will be included within the Annual Reports.
- b) Quality Assurance Project Plan (QAPP) consistent with Surface Water Ambient Monitoring Program (SWAMP). All samples shall be collected and analyzed according to the QAPP. Monitoring Reports shall be submitted with the Annual Report and include the following information (consistent with the approved Monitoring Plan):
 - i) The purpose of the monitoring, brief contextual background, and a brief description of the study design and rationale;
 - ii) Methods used for sample collection: list methods used for sample collection, sample or data collection identification, collection date, and media if applicable;
 - iii) Identification of and rationale for any deviations from the QAPP;
 - iv) Results of data collection, including concentration detected, measurement units, reporting limits, and detection limits, if applicable;
 - v) Quantifiable assessment, analysis and interpretation of data for each monitoring parameter;
 - vi) Comparison to reference sites (if applicable), guidelines or targets;
 - vii) Discussion of whether data collected addresses the objective(s) or question(s) of study design;
 - viii) Quantifiable discussion of program/study pollutant reduction effectiveness

4. Progress toward attainment of the WLA shall be documented in the Annual Report.

Permittees may work with Central Valley Regional Water Board staff to estimate nutrient loadings from activities in the watershed. Loading estimates can be conducted using either water quality monitoring or computer modeling or a combination of the two.

By January 1, 2019, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

Organic Enrichment and Low Dissolved Oxygen

TMDL for Lower San Joaquin River, San Joaquin River, Stockton Deep Water Ship Channel TMDL – Organic Enrichment and Low Dissolved Oxygen

Effective Date: February 27, 2007

BPA: Chapter IV-37.01

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Resolution No.: R5-2005-005

Phase II Entities: Atwater City, Ceres City, Escalon City, Hughson City, Lathrop City, Livingston City, Los Banos City, Manteca City, Merced City, Merced County, Newman City, Oakdale City, Patterson City, Ripon City, Riverbank City, San Joaquin County, Stanislaus County, Turlock City

Impaired Water Body: Lower San Joaquin River (Stockton Deep Water Ship Channel, DWSC)

Requirements for Implementing the TMDL:

The Phase II Entities identified within this TMDL section (hereinafter referred to as Permittees in this TMDL section) shall implement best management practices (BMPs) to control the discharge of oxygen demanding substances and their precursors in their urban discharge. This will be implemented through compliance with the following Small MS4 Permit requirements:

- Discharge Prohibitions B.4
- Section E.6.a. Legal Authority
- Section E.9. Illicit Discharge Detection and Elimination
- Section E.10. Construction Site Storm Water Runoff Control Program
- Section E.11. Pollution Prevention/Good Housekeeping
- Section E.12. Post-Construction
- Section E.13. Monitoring
- Section E.14. Program Effectiveness
- Section E.15 Compliance with Implementation Process

In measuring compliance with permit requirements related to attainment of these wasteload allocations (WLAs), credit will be given for control measures implemented after July 12, 2004.

The Permittees shall document, in their Annual Reports, the implementation of BMPs to control the discharge of oxygen demanding substances and precursors in their urban discharge. Each Annual Report shall include documentation of compliance with the Permit requirements and a discussion of the effectiveness of the BMPs. The Permittees shall use the information gained from the Program Effectiveness Assessments to improve their program and identify new BMPs or modifications of existing BMPs to ensure that they are meeting applicable WLAs. The Program Effectiveness Assessment information may come from the Permittees' monitoring efforts; monitoring programs conducted by State or federal agencies or collaborative watershed efforts; or from special studies that evaluate the effectiveness of management practices.

Monitoring Provisions:

1. By January 1, 2020, Permittees shall submit the Monitoring and Reporting Plan consistent with E.13 for Central Valley Regional Water Board Executive Officer approval;
2. With Central Valley Regional Water Board Executive Officer approval, the Permittees may participate in the Delta Regional Monitoring Program or other collective monitoring efforts in lieu of some or all of the individual monitoring requirements required by this section.
3. Permittees that implement individual water quality monitoring pursuant to this provision must submit a Monitoring Plan and Quality Assurance Project Plan (QAPP) to the Executive Officer for review and approval.

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- a) Monitoring Plan – at a minimum, the Monitoring Plan must include the following information:
- i) Management questions to be answered by the Monitoring Plan,
 - ii) Constituents to be monitored, analytical methods, and reporting limits,
 - iii) Sampling site(s) locations, including latitude and longitude coordinates, water body name and water body segment if applicable,
 - iv) Other monitoring efforts that will provide supplemental data for the local water quality monitoring program and assessment (if any),
 - v) Proposed schedule and level of detail for monitoring reports. If a more comprehensive report is necessary every few years, the Monitoring Plan shall propose a schedule and description of the level of detail (consistent with the information described below) that will be included within the Annual Reports.
- b) Quality Assurance Project Plan (QAPP) consistent with Surface Water Ambient Monitoring Program (SWAMP). All samples shall be collected and analyzed according to the QAPP. Monitoring Reports shall be submitted with the Annual Report and include the following information (consistent with the approved Monitoring Plan):
- i) The purpose of the monitoring, brief contextual background, and a brief description of the study design and rationale;
 - ii) Methods used for sample collection: list methods used for sample collection, sample or data collection identification, collection date, and media if applicable;
 - iii) Identification of and rationale for any deviations from the QAPP;
 - iv) Results of data collection, including concentration detected, measurement units, reporting limits, and detection limits, if applicable;
 - v) Quantifiable assessment, analysis and interpretation of data for each monitoring parameter;
 - vi) Comparison to reference sites (if applicable), guidelines or targets;
 - vii) Discussion of whether data collected addresses the objective(s) or question(s) of study design;
 - viii) Quantifiable discussion of program/study pollutant reduction effectiveness.

4. Progress toward attainment of the WLA shall be documented in the Annual Report.

By January 1, 2019, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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Region 6: Lahontan Regional Water Board

Sediment

**TMDL for Middle Truckee River Watershed, Placer, Nevada and Sierra Counties –
*Sediment***

Effective Date: May 14, 2008

BPA: Section 4.13

Resolution No.: R6T-2008-0019

Phase II Entities: County of Placer, City of Truckee

Impaired Water Body: Truckee River

Requirements for Implementing the TMDL:

The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) shall develop, implement, and report best management practices (BMPs) as follows:

1. Road sand application BMPs and recovery tracking - Road sand shall be applied using BMPs and recovered to the maximum extent practicable. Amounts of road abrasives and de-icing agents applied and recovered must be monitored and reported annually.
2. Dirt roads maintained or decommissioned - Identified dirt roads with inadequate erosion control structures shall be rehabilitated and maintained, or decommissioned. Permittees shall focus on dirt roads with high potential for sediment delivery to surface waters (e.g., within 200 feet of watercourse).
3. Legacy sites restoration and best management practices implementation - Identified legacy sites shall be restored or storm water BMPs shall be implemented to prevent erosion and sedimentation to surface waters.
4. Implement an Education and Outreach program, consistent with Section E.7. of the Order, for the targeted audience of ski areas within the jurisdictional boundaries of the permittees, focusing on sediment and erosion control for those facilities.
5. Continue to implement the most recent municipal monitoring program as approved by the Regional Water Board or it's designee.

By May 14, 2028, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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Region 8: Santa Ana Regional Water Board

Bacterial Indicator

TMDL for Middle Santa Ana River – Bacterial Indicator

Effective date: September 1, 2006

Resolution No.: R8-2005-0001

Phase II Entities: CA Institute for Men, CA Institute for Women, CA Rehab Center, University of California, Riverside

Impaired Water Body: Santa Ana River, Reach 3, Chino Creek, Mill Creek, Prado Park Lake

Requirements for Implementing the TMDL

The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) shall:

1. **Monitoring Program**: By January 1, 2019, submit for approval by the Regional Water Board or its designee a watershed-wide attainment monitoring and facility specific bacterial indicator monitoring program that is adequate to determine attainment with the dry and wet season waste load allocation. The Permittees may alternatively participate in a stakeholder group monitoring program for the same purpose. The monitoring program must be consistent with the existing Santa Ana River Watershed Bacteria Monitoring Program – Monitoring Plan, approved by the Regional Water Board on March 11, 2016 (or the most current, Regional Water Board approved revision).
2. By January 1, 2019, either a) develop a facility-specific Bacterial Indicator Reduction Plan or b) join an updated watershed-based Bacterial Indicator Reduction Plan (within the Santa Ana River watershed).

For those entities that choose to develop facility-specific Bacterial Indicator Reduction Plans, the following applies:

1. **Dry Season Bacterial Indicator Reduction Plan** - Develop a facility specific Bacterial Reduction Plan that details the plan and schedule for achieving the Dry Season Bacterial Indicator WLA as soon as feasible.
2. **Wet Season Bacterial Indicator Reduction Plan** – Develop a facility specific Bacterial Reduction Plan that details the plan and schedule for achieving the Wet Season Bacterial Indicator WLA by December 31, 2025.

The Dry Season and Wet Season Bacterial Indicator Reduction Plans should include the following:

1. The specific Best Management Practices (BMPs) implemented to reduce the concentration of indicator bacteria from the facility and the water quality improvements expected to result from these BMPs.
2. Any specific regional treatment facilities and the locations where such facilities will be built to reduce the concentration of indicator bacteria discharged from the facility and the expected water quality improvements to result when complete.

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3. The technical documentation used to conclude that the Bacterial Indicator Reduction Plan, once fully implemented, is expected to achieve attainment of either the dry season or wet season urban wasteload allocation for indicator bacteria by the specified attainment date.
4. A detailed schedule for implementing the Bacterial Indicator Reduction Plan. The schedule must identify measurable and verifiable milestones to assess satisfactory progress toward meeting the dry and wet season wasteload allocations.
5. The specific metric(s) that will be established to demonstrate the effectiveness of the Bacterial Indicator Reduction Plan.
6. Detailed descriptions of any additional BMPs planned, and the time required to implement those BMPs, in the event that data from the watershed-wide water quality monitoring program indicate that water quality objectives for indicator bacteria are still being exceeded after the Bacterial Indicator Reduction Plan is fully implemented.

By January 1, 2019, the permittees shall demonstrate attainment of the Dry Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order. By December 31, 2025, the permittees shall demonstrate attainment of the Wet Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

Nutrients

TMDL for Lake Elsinore/Canyon Lake – Nutrients

Resolution No.: R8-2004-0037

Effective date: July 26, 2005

Phase II Entities: March Air Reserve Base (ARB)

Impaired Water Body: Lake Elsinore, Canyon Lake

Lake Elsinore/Canyon Lake Nutrient TMDL Joint Responsibility Option

March ARB shall implement the following actions:

- a. March ARB has already committed to cooperative implementation actions, monitoring actions, special studies and implementation actions jointly with other responsible agencies as an active paying member of the Lake Elsinore/Canyon Lake TMDL Task Force. March ARB shall continue with those actions in accordance with paragraph I.H. of the Agreement to Form the Lake Elsinore and Canyon Lake TMDL Task Force, dated June 18, 2012.
- b. If the Regional Water Board is notified that March ARB is not fulfilling its Lake Elsinore/Canyon Lake Task Force obligations or if March ARB chooses to opt out of the cooperative approach with the TMDL Task Force for implementation actions, monitoring actions, and/or special studies, March ARB shall provide formal notification to the Regional Water Board. March ARB will then be required to conduct the following activities:
 1. Within 30 days of such notification, submit a proposed update of the March ARB SWPPP to address nutrient discharges;
 2. Within 30 days of such notification, submit a proposed March ARB specific nutrient monitoring program. This monitoring program must be prepared and executed in a manner that attainment of waste load allocations will be determined. The monitoring

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program must be consistent with the most current, Regional Water Board approved, Lake Elsinore/Canyon Lake TMDL Task Force monitoring plan;

3. Within 60 days of such notification, submit a proposed water quality monitoring program to evaluate the impairment status of Lake Elsinore and Canyon Lake.
4. Submit an annual report by August 15th of each year.

By December 31, 2020, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

Organochlorine Compounds

TMDL for San Diego Creek, Upper and Lower Newport Bay – Organochlorine Compounds

Effective date: July 2013

Resolution No.: 2011-0037

Phase II Entities: Orange County Fairgrounds, University of California, Irvine

Impaired Water Body: San Diego Creek, Upper Newport Bay, Lower Newport Bay

Requirements for Implementing the TMDL: The Orange County Fairgrounds and the University of California, Irvine shall:

1. Per the Small MS4 Monitoring Flow Chart in this Order, the Permittees are:
 - a. Not covered under an Ocean Plan Exception;
 - b. Are identified in Attachment G (as noted under Phase II Entities here);
 - c. Are not required to conduct Water Quality Monitoring; and
 - d. Do discharge to a waterbody/waterbodies impaired (on 303(d) list for organochlorine compounds) by urban runoff.

Therefore, the Permittees must initiate consultation with Regional Water Board staff by February 1, 2019 to determine the implementation and monitoring requirements (contained in a TMDL Attainment Plan) for San Diego Creek, Upper Newport Bay, and Lower Newport Bay.

3. As a result of the consultation with Regional Water Board staff, the Permittees shall submit their final TMDL Attainment Plan by February 1, 2020 to the Regional Water Board's Executive Officer. The Permittees shall implement the TMDL Attainment Plan immediately upon submittal.

By December 31, 2020, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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Region 9: San Diego Regional Water Board

Indicator Bacteria

Bacteria Project I – Twenty Beaches and Creeks in the San Diego Region (Including Tecolote Creek) – *Indicator Bacteria*

Effective Date: April 4, 2011

Resolution No.: R9-2010-0001

Phase II Entities: 22nd District Agricultural Association, California State University at San Marcos, Marine Corps Air Station Miramar, Marine Corps Base Camp Pendleton, North County Transit District, San Diego State University, San Diego Veterans Administration Medical Center, University of California San Diego

Impaired Water Body: 20 impaired water quality limited segments within the following watersheds or portions of watersheds: Laguna/San Joaquin, San Juan, San Clemente, San Luis Rey, San Marcos, San Dieguito River, Miramar Creek, Scripps HA, Tecolote HA, San Diego River, and Chollas Creek

Requirements for Implementing the Bacteria Project I – Twenty Beaches and Creeks TMDL

The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) must take the following actions to meet the requirements of this TMDL:

1. Develop and implement the Storm Water Pollution Prevention Plan (SWPPP) as required by section F.5.f.4 of this Order including additional measures necessary to achieve reductions in fecal coliform, enterococcus, and total coliform by the final attainment dates as required by the TMDL. The SWPPP must include short term and long-term Best Management Practices (BMPs) strategies appropriate for the prioritization schedule in Attachment A, pages A-63 through A-65 of Resolution No. R9-2010-0001.
2. By July 1, 2019, monitor discharges from their facilities including MS4 discharge locations to demonstrate progress towards attainment with final waste load allocations. The monitoring and assessment results must be submitted as part of the Annual Reports required under section F.5.j. of this Order.
3. The Permittees are encouraged to collaborate and coordinate with Phase I MS4s and other responsible parties to the Bacteria I TMDL using an adaptive framework approach as part of the waste load reduction planning and implementation strategies in the required SWPPP pursuant to section F of this Order and monitoring required pursuant to section F.5.i.4. Coordinated efforts by all responsible parties will accomplish the waste load reductions required in the TMDLs faster and achieve the ultimate goal of improving water quality as soon as possible.

By April 4, 2021, the permittees shall demonstrate attainment of the Dry Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order. By April 4, 2031 (or April 4, 2021 if SWPPP does not contain load reduction programs for other pollutants), the permittees shall demonstrate attainment of the Wet Weather WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.

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Sediment

TMDL for Los Peñasquitos Lagoon – Sediment

Effective Date: July 14, 2014

Resolution No. R9-2012-0033

Phase II Entities: Marine Corps Air Station Miramar, San Diego Veterans Administration
Medical Center, University of California San Diego, North County Transit District
Impaired Water Body: Los Peñasquitos Lagoon

Requirements for Implementing the TMDL

The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) must take the following actions to meet the requirements of this TMDL:

1. Develop and implement the Storm Water Pollution Prevention Plan (SWPPP) required by Provision F.5.f.4 of this Order to achieve reductions in sediment by the final TMDL attainment date. The development of a SWPPP to address the TMDL fulfills the responsibility for Phase II Copermittees to prepare a Load Reduction Plan (LRP). The SWPPP must be updated by July 1, 2019 with any additional BMPs, monitoring, or other measures needed to account for the Phase II site's potential to impact the receiving water body with respect to sediment. Permittees are responsible for reducing their sediment loads to the receiving water body or demonstrate that their discharges are not causing exceedances of the wasteload allocation.
2. By March 1, 2019 monitor sediment discharges from their facilities including MS4 discharge locations to demonstrate progress towards attainment of final waste load allocations. The monitoring, at a minimum, shall include representative flow rates and total suspended solids concentrations from individual discharger's facilities. The monitoring and assessment results must be submitted as part of the Annual Reports required under section E.16 of this Order.
3. The Permittees are encouraged to collaborate and coordinate with Phase I MS4s and other responsible parties to the Los Peñasquitos Lagoon Sediment TMDL using an adaptive framework approach as part of the waste load reduction planning and implementation strategies in the required SWPPP pursuant to section F of this Order. Coordinated efforts by all responsible parties will accomplish the waste load reductions required in the TMDLs faster and achieve the ultimate goal of improving water quality as soon as possible.

By July 14, 2034, the permittees shall demonstrate attainment of the TMDL WLA as specified in Section E.15.a.(ii). or F.5.i.1.(ii). of this Order.