

ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 1: North Coast Regional Water Board			
Laguna de Santa Rosa <i>Ammonia & Dissolved Oxygen</i> Effective Date: May 4, 1995 BPA: none Resolution No.: none	City of Cotati City of Rohnert Park City of Sebastopol Town of Windsor	Laguna de Santa Rosa	Purpose of Provisions The purpose of these provisions is to implement the requirements of the Waste Reduction Strategy for the Laguna de Santa Rosa which includes TMDLs for nitrogen and ammonia to address low dissolved oxygen and high ammonia impairments. Requirements for Implementing the Waste Reduction Strategy for the Laguna de Santa Rosa Implement a storm water runoff program that is aimed at nutrient load reduction and pollution control through the execution of the provisions of this Phase II Small MS4 General Permit.
Shasta River <i>Temperature & Dissolved Oxygen</i> Effective Date: January 26, 2007 BPA: Action Plan for the Shasta River Watershed Temperature and Dissolved Oxygen Total Maximum Daily Loads Resolution No.: R1-2006-0052	City of Yreka	Shasta River	Purpose of Provisions The purpose of these provisions is to implement the requirements of the Action Plan for the Shasta River Watershed Temperature and Dissolved Oxygen TMDLs. Requirements for Implementing the Action Plan for the Shasta River Watershed Temperature and Dissolved Oxygen TMDLs Within one year of approval of the Phase II Small MS4 General Permit, the City of Yreka shall develop 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 plan shall be submitted to the Regional Water Board's Executive Officer for review, comment, and approval. Within four years of approval of the Phase II Small MS4 General Permit, the City of Yreka shall begin implementing the plan.

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 2: San Francisco Regional Water Board			
Napa River Sediment Effective Date: January 20, 2011 BPA: Chapter 7, Water Quality Attainment Strategies including TMDLs Resolution No. R2-2009-0064	Napa County City of Napa Town of Yountville City of St. Helena City of Calistoga City of American Canyon	Napa River	<p>Purpose of Provisions The purpose of these provisions is to implement the requirements of the Napa River sediment TMDL.</p> <p>TMDL Wasteload and Load Allocations The Napa River sediment TMDL assigns to municipal storm water a wasteload allocation and load allocation for the roads source category.</p> <p>The sediment wasteload allocation is 600 tons/year and applies to storm water runoff discharges from municipalities' facilities associated with construction and/or maintenance activities.</p> <p>The load allocation 27,000 metric tons/year of sediment is for the road and stream crossings category and applies to stream crossings and storm water runoff discharges associated with operation of public and private roads, paved and upaved, within the watershed not otherwise covered by NPDES permits. Municipalities share this allocation with another entity (i.e., Caltrans).</p> <p>Requirements for Implementing the Napa River Sediment TMDL Wasteload and Load Allocations</p> <p>A. Implementation of Sediment Wasteload Allocations</p> <p>i. To attain the wasteload allocation, municipalities shall comply with the construction and maintenance requirements of this Order.</p> <p>B. Implementation of Sediment Load Allocations</p> <p>i. To attain the shared load allocation of 27,000 metric tons/year, municipalities shall determine opportunities to retrofit and/or reconstruction of 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, municipalities shall by October 31, 2014:</p> <ul style="list-style-type: none"> • Adopt and implement best management practices for maintenance of unimproved (dirt/gravel) roads • Conduct a survey of stream-crossings associated with paved public roadways • Develop a prioritized implementation plan for repair and/or replacement of high priority crossings/culverts. <p>For paved roads, erosion and sediment control actions shall primarily focus on road crossings to meet the sediment load allocation.</p>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 2: San Francisco Regional Water Board			
Sonoma Creek Sediment Effective Date: September 8, 2010 BPA: Chapter 7, Water Quality Attainment Strategies including TMDLs Resolution No. R2-2008-0103	County of Sonoma City of Sonoma	Sonoma Creek	<p>Purpose of Provisions The purpose of these provisions is to implement the requirements of the Sonoma Creek sediment TMDL.</p> <p>TMDL Wasteload and Load Allocations The Sonoma Creek sediment TMDL assigns to municipal storm water a wasteload allocation and load allocation for the roads source category.</p> <p>The sediment wasteload allocation is 600 tons/year and applies to storm water runoff discharges from municipalities' facilities associated with construction and/or maintenance activities.</p> <p>The load allocation 2,100 tons/year of sediment is for the road and stream crossings category and applies to stream crossings and storm water runoff discharges associated with operation of public and private roads, paved and upaved, within the watershed not otherwise covered by NPDES permits. Municipalities share this allocation with another entity (i.e., Caltrans).</p> <p>Requirements for Implementing the Sonoma Creek Sediment TMDL Wasteload and Load Allocations</p> <p>A. Implementation of Sediment Wasteload Allocations</p> <p>i. To attain the wasteload allocation, municipalities shall comply with the construction and maintenance requirements of this Order.</p> <p>B. Implementation of Sediment Load Allocations</p> <p>i. To attain the shared load allocation of 2,100 tons/year, municipalities shall determine opportunities to retrofit and/or reconstruction of road crossings to minimize road-related sediment delivery to stream channels. Specifically, to reduce road-related erosion and protect stream-riparian habitat conditions, municipalities shall by October 31, 2014:</p> <ul style="list-style-type: none"> • Adopt and implement best management practices for maintenance of unimproved (dirt/gravel) roads • Conduct a survey of stream-crossings associated with paved public roadways • Develop a prioritized implementation plan for repair and/or replacement of high priority crossings/culverts. <p>For paved roads, erosion and sediment control actions shall primarily focus on road crossings to meet the sediment load allocation.</p>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations																		
Region 2: San Francisco Regional Water Board																					
Sonoma Creek Sediment (Continued)	Sonoma County Water Agency	Sonoma Creek	Implementation of Sediment Wasteload Allocations 1. Compliance with an approved Stormwater Management Plan and compliance with this Order. 2. Amend and implement Stormwater Management Plans to control peak flows rates and durations																		
<div><div>Napa River Pathogens</div><div>Effective Date: February 29, 2008</div><div>BPA: Chapter 7, Water Quality Attainment Strategies including TMDLs</div><div>Resolution No. R2-2006-0079</div></div>	<div>Napa County</div> <div>City of Napa</div> <div>Town of Yountville</div> <div>City of St. Helena</div> <div>City of Calistoga</div> <div>City of American Canyon</div>	<div>Napa River</div>	<div><div>Purpose of Provisions</div><div>The purpose of these provisions is to implement the requirements of the Napa River pathogens TMDL.</div><div>TMDL Wasteload Allocations</div><div>The Napa River pathogens TMDL assigns a wasteload allocation to municipal storm water as follows:</div><table><tr><th colspan="2">E.coli (CFU/100 mL)</th><th colspan="2">Fecal coliform (CFU/100 mL)</th><th colspan="2">Total coliform (CFU/100 mL)</th></tr><tr><th>Geometric Mean</th><th>90th percentile</th><th>Geometric Mean</th><th>90th percentile</th><th>Geometric Mean</th><th>90th percentile</th></tr><tr><td><113</td><td><368</td><td><180</td><td><360</td><td><216</td><td><9,000</td></tr></table><div>These allocations are applicable year-round and apply to any sources (existing or future) subject to regulation by NPDES permit.</div><div>Requirements for Implementing the Napa River Pathogens TMDL Wasteload Allocations</div><div>Municipalities shall, within 18 months of permit adoption :</div><div><div>i.</div><div>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.</div></div><div><div>ii.</div><div>Pet Waste Management. Develop and implement enforceable means of reducing/eliminating fecal coliform loading from pet waste.</div></div><div><div>iii.</div><div>Illicit Discharge Detection and Elimination. Develop and implement strategies to detect and eliminate illicit discharges (whether mistaken or deliberate) of sewage to the Napa River.</div></div><div><div>iv.</div><div>Pollution Prevention and Good Housekeeping. Develop and 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.</div></div><div><div>v.</div><div>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.</div></div><div><div>vi.</div><div>Report annually on water quality monitoring results and progress made on implementation of</div></div></div>	E.coli (CFU/100 mL)		Fecal coliform (CFU/100 mL)		Total coliform (CFU/100 mL)		Geometric Mean	90 th percentile	Geometric Mean	90 th percentile	Geometric Mean	90 th percentile	<113	<368	<180	<360	<216	<9,000
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Geometric Mean	90 th percentile	Geometric Mean	90 th percentile	Geometric Mean	90 th percentile																
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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 2: San Francisco Regional Water Board			
			human and animal runoff reduction measures.

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations																		
Region 2: San Francisco Regional Water Board																					
<div>Sonoma Creek Pathogens</div> <div>Effective Date: February 29, 2008</div> <div>BPA: Chapter 7, Water Quality Attainment Strategies including TMDLs</div> <div>Resolution No. R2-2006-0042</div>	<div>County of Sonoma</div> <div>City of Sonoma</div>	<div>Sonoma Creek</div>	<div>Purpose of Provisions</div> <div>The purpose of these provisions is to implement the requirements of the Sonoma Creek pathogens TMDL.</div> <div>TMDL Wasteload Allocations</div> <div>The Sonoma Creek pathogens TMDL assigns a wasteload allocation to municipal storm water as follows:</div> <table><tr><th colspan="2">E.coli (CFU/100 mL)</th><th colspan="2">Fecal coliform (CFU/100 mL)</th><th colspan="2">Total coliform (CFU/100 mL)</th></tr><tr><th>Geometric Mean</th><th>90th percentile</th><th>Geometric Mean</th><th>90th percentile</th><th>Geometric Mean</th><th>90th percentile</th></tr><tr><td><113</td><td><368</td><td><180</td><td><360</td><td><216</td><td><9,000</td></tr></table> <div>These allocations are applicable year-round and apply to any sources (existing or future) subject to regulation by NPDES permit.</div> <div>Requirements for Implementing the Sonoma Creek Pathogens TMDL Wasteload Allocations</div> <div>Municipalities shall, within 18 months of permit adoption:</div> <div><div>i.</div><div>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.</div></div> <div><div>ii.</div><div>Pet Waste Management. Develop and implement enforceable means of reducing/eliminating fecal coliform loading from pet waste.</div></div> <div><div>iii.</div><div>Illicit Discharge Detection and Elimination. Develop and implement strategies to detect and eliminate illicit discharges (whether mistaken or deliberate) of sewage to Sonoma Creek.</div></div> <div><div>iv.</div><div>Pollution Prevention and Good Housekeeping. Develop and 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.</div></div> <div><div>v.</div><div>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.</div></div> <div><div>vi.</div><div>Report annually on water quality monitoring results and progress made on implementation of human and animal runoff reduction measures.</div></div>	E.coli (CFU/100 mL)		Fecal coliform (CFU/100 mL)		Total coliform (CFU/100 mL)		Geometric Mean	90 th percentile	Geometric Mean	90 th percentile	Geometric Mean	90 th percentile	<113	<368	<180	<360	<216	<9,000
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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations												
Region 2: San Francisco Regional Water Board															
	Sonoma County Water Agency	Sonoma Creek	Requirements for Implementing the Sonoma Creek Pathogen TMDL Wasteload Allocation 1. Implement stormwater management plan. 2. Update/Amend stormwater management plan to include specific measures to reduce pathogen loading. 3. Report progress on implementation of pathogen reduction measures.												
Tomales Bay Pathogens Effective Date: February 8, 2007 BPA: Chapter 4, Surface Water Protection and Management, Nonpoint Source Control Resolution No. R2-2005-0046	Marin County	Tomales Bay	Purpose of Provisions The purpose of these provisions is to implement the requirements of the Tomales Bay pathogens TMDL. TMDL Wasteload Allocations The Tomales Bay pathogens TMDL assigns a wasteload allocation to municipal storm water as follows: <table><tr><th colspan="3">Fecal Coliform^a (MPN/100 mL)</th></tr><tr><th colspan="2">For Direct Discharges to Tomales Bay</th><th>For Discharges to Major Tomales Bay Tributaries</th></tr><tr><th>Median^b</th><th>90th percentile^c</th><th>Log Mean^b</th></tr><tr><td><14</td><td><43</td><td><200</td></tr></table>	Fecal Coliform ^a (MPN/100 mL)			For Direct Discharges to Tomales Bay		For Discharges to Major Tomales Bay Tributaries	Median ^b	90 th percentile ^c	Log Mean ^b	<14	<43	<200
Fecal Coliform ^a (MPN/100 mL)															
For Direct Discharges to Tomales Bay		For Discharges to Major Tomales Bay Tributaries													
Median ^b		90 th percentile ^c	Log Mean ^b												
<14		<43	<200												
	Lagunitas Creek	^a These allocations are applicable year-round and apply to any sources (existing or future) subject to regulation by NPDES permit. ^b Based on a minimum of five consecutive samples equally spaced over a 30-day period. ^c No more than 10% of total samples during any 30-day period may exceed this number													
	Walker Creek	Requirements for Implementing the Tomales Bay Pathogens TMDL Wasteload Allocations													
	Olema Creek	Municipalities shall, by within 18 months of permit adoption,: 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. Develop and implement enforceable means of reducing/eliminating fecal coliform loading from pet waste. iii. Illicit Discharge Detection and Elimination. Develop and implement strategies to detect and eliminate illicit discharges (whether mistaken or deliberate) of sewage to Tomales Bay.													

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Region 2: San Francisco Regional Water Board			
			<p>iv. Pollution Prevention and Good Housekeeping. Develop and 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.</p> <p>v. Report annually on water quality monitoring results and progress made on implementation of human and animal runoff reduction measures.</p>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations						
Region 2: San Francisco Regional Water Board									
<p>Richardson Bay <i>Pathogens</i></p> <p>Effective Date: December 18, 2009</p> <p>BPA: Chapter 7, Water Quality Attainment Strategies including TMDLs</p> <p>Resolution No. R2-2008-0061</p>	<p>Marin County</p> <p>City of Mill Valley</p> <p>City of Tiburon</p> <p>City of Belvedere</p> <p>City of Sausalito</p>	<p>Richardson Bay</p>	<p>Purpose of Provisions The purpose of these provisions is to implement the requirements of the Richardson Bay pathogens TMDL.</p> <p>TMDL Wasteload Allocations The Richardson Bay pathogens TMDL assigns a wasteload allocation to municipal storm water as follows:</p> <table><tr><th colspan="2">Fecal Coliform^a (MPN/100 mL)</th></tr><tr><th>Median^b</th><th>90th Percentile^c</th></tr><tr><td><14</td><td><43</td></tr></table> <p>^a These allocations are applicable year-round. ^b based on a minimum of five consecutive samples equally spaced over a 30-day period ^c No more than 10% of total samples during any 30-day period may exceed this number</p> <p>Requirements for Implementing the Richardson Bay Pathogens TMDL Wasteload Allocations Municipalities shall, by within 18 months of permit adoption:</p> <p>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.</p> <p>ii. Pet Waste Management. Develop and implement enforceable means of reducing/eliminating fecal coliform loading from pet waste.</p> <p>iii. Illicit Discharge Detection and Elimination. Develop and implement strategies to detect and eliminate illicit discharges (whether mistaken or deliberate) of sewage to Richardson Bay.</p> <p>iv. Pollution Prevention and Good Housekeeping. Develop and 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.</p> <p>v. Report annually on progress made on implementation of pathogen reduction measures.</p>	Fecal Coliform ^a (MPN/100 mL)		Median ^b	90 th Percentile ^c	<14	<43
Fecal Coliform ^a (MPN/100 mL)									
Median ^b	90 th Percentile ^c								
<14	<43								

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 2: San Francisco Regional Water Board			
Urban Creek <i>Diazinon & Pesticide Toxicity</i> Effective Date: May 16, 2007 BPA: BPA – Chapter 3, Toxicity Resolution No. R2-2005-0063	Marin County		Purpose of Provision The purpose of the following provisions is to prevent the impairment of urban streams by pesticide-related toxicity. This provision implements requirements of the TMDL for Diazinon and Pesticide Related Toxicity for Urban Creeks in the San Francisco Bay Region. Pesticides of concern include: organophosphorous pesticides (chlorpyrifos, diazinon, and malathion); pyrethroids (bifenthrin, cyfluthrin, beta-cyfluthrin, cypermethrin, deltamethrin, esfenvalerate, lambda-cyhalothrin, permethrin, and tralomethrin); carbamates (e.g., carbaryl); and fipronil.
	City of Mill Valley	Arroyo Corte Madera del Presidio	Wasteload Allocations Diazinon: 100 ng/l Toxicity: 1.0 TUa (acute toxicity units) and 1.0 TUc (chronic toxicity units)
	City of Belvedere		
	Town of Corte Madera	Corte Madera Creek	Requirements for Implementing the Wasteload Allocations Urban runoff management agencies' responsibilities for addressing the allocations set above will be satisfied by complying with the requirements set forth below. Permittees may coordinate with the Bay Area Stormwater Management Agencies Association, the Urban Pesticide Pollution Prevention Project, the Urban Pesticide Committee, and other agencies and organizations in carrying out these activities.
	Town of Fairfax	Coyote Creek (Marin Co.)	
	City of Larkspur	Gallinas Creek	A. Adopt a Pesticide-Related Toxicity Control Program To prevent the impairment of urban streams by pesticide-related toxicity, adopt an Integrated Pest Management Policy (IPM) or Ordinance, applicable to all the permittees' operations and property, as described in the Basin Plan amendment (Implementation Section) for this TMDL.
	City of Mill Valley	Miller Creek	
	City of Novato	Novato Creek	The IPM Policy or Ordinance shall be adopted by the permittee's governing body within 18 months of permit adoption.
	Town of	San Antonio Creek	
		San Rafael Creek	B. Implement the Pesticide-Related Toxicity Control Program Implementation actions shall include: <ul style="list-style-type: none"> • 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

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Region 2: San Francisco Regional Water Board			
Urban Creek <i>Diazinon & Pesticide Toxicity</i> (continued)	Ross	Petaluma River Calabazas Creek	violations of pesticides regulations (e.g., illegal handling) associated with storm water management.
	Town of San Anselmo		<ul style="list-style-type: none"> • Conduct outreach to residents and pest control applicators on less toxic methods of pest control.
	City of San Rafael		<ul style="list-style-type: none"> • 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.
	City of Sausalito		<ul style="list-style-type: none"> • Monitor water and sediment for pesticides and associated toxicity in urban creeks via an individual or regional program designed to answer the following questions: <ul style="list-style-type: none"> ○ 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? ○ 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?
	Town of Tiburon		
	County of Sonoma		
	City of Petaluma		
	City of Sonoma		

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p>TMDL and Implementation Plan for Pathogens for Morro Bay and Chorro and Los Osos Creeks</p> <p>Effective Date: 11/19/2003</p> <p>BPA: Chapter 4</p> <p>Resolution No. R3-2003-0060</p> <p>TMDL and Implementation Plan</p>	<p>City of Morro Bay</p> <p>County of San Luis Obispo</p>	<p>Morro Bay</p> <p>Chorro Creek</p> <p>Los Osos Creek</p> <p>Pennington Creek</p> <p>San Bernardo Creek</p> <p>San Luisito Creek</p> <p>Walters Creek</p> <p>Warden Creek</p>	<p>Purpose of Provisions The purpose of these provisions is to implement the requirements of the Morro Bay (Chorro and Los Osos Creeks) Pathogen TMDL.</p> <p>TMDL Wasteload Allocations The City of Morro Bay and County of San Luis Obispo are assigned the following wasteload allocations: 1) for discharges to Los Osos Creek, Chorro Creek, and their tributaries, the fecal coliform geometric mean concentration shall not exceed 200 MPN/100 mL over a 30-day period nor shall 10% of the samples exceed 400 MPN/100 mL over any 30-day period. 2) For discharges to Morro Bay, the fecal coliform geometric mean concentration of 14 MPN/100 mL must be achieved and no more than 10% of the samples may be over 43 MPN/100 mL.</p> <p>Provisions for Implementing TMDL Within one year of adoption of this Order <u>By June 30, 2015</u>, the City of Morro Bay and County of San Luis Obispo shall each develop, submit, and begin implementation of a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include:</p> <ol style="list-style-type: none"> 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 on various source locations and their magnitude within the jurisdiction. 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 demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to the

¹ For all Central Coast Water Board fecal indicator bacteria and pathogens TMDLs, *E. coli* concentrations may be used as a surrogate for fecal coliform concentrations.

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Region 3: Central Coast Regional Water Board			

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p>Watsonville Slough Total Maximum Daily Load and Implementation Plan for Pathogens</p> <p>Effective Date: 11/20/2006</p> <p>BPA: Chapter 4</p> <p>Resolution No. R3-2006-0025</p>	<p>City of Watsonville</p>	<p>Watsonville Slough</p> <p>Struve Slough</p> <p>Harkins Slough</p> <p>Gallighan Slough</p> <p>Hanson Slough</p>	<p>Purpose of Provisions The purpose of these provisions is to implement the requirements of the Watsonville Slough Pathogen TMDL.</p> <p>TMDL Wasteload Allocations The City of Watsonville and the County of Santa Cruz are assigned the following concentration based wasteload allocation: Fecal coliform concentration, based on a minimum of five samples for any 30-day period, shall not exceed a log mean of 200 MPN per 100mL, nor shall more than ten percent of total samples collected during any 30-day period exceed 400 MPN per 100mL.</p> <p>These wasteload allocations are receiving water allocations; storm water discharge cannot cause or contribute to exceedance of the allocations as measured in receiving water.</p> <p>The City of Watsonville is assigned allocations in the following water bodies: Watsonville, Struve, Harkins, Gallighan and Hanson Sloughs.</p> <p>The County of Santa Cruz is assigned allocation in the following water bodies: Watsonville, Struve and Harkins Sloughs.</p> <p>Provisions for Implementing the TMDL The City and County 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.</p> <p>The County of Santa Cruz and City of Watsonville shall implement practices that will assure their allocation is achieved. By June 30, 20132015, the County of Santa Cruz and City of Watsonville shall each develop, submit, and begin implementation of a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include:</p> <ol style="list-style-type: none"> 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

ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
	<p style="text-align: center;">County of Santa Cruz</p>		<p>impairment, ability to control the source, and other pertinent factors.</p> <p>4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.</p> <p>5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.</p> <p>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.</p> <p>7. A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to 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.</p> <p>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.</p> <p>8-9. 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 compliance 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 five-year term of this Order. 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.</p> <p>9-10. 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.</p> <p>10-11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.</p> <p>11-12. A detailed description of information the MS4 will include in annual reports to demonstrate</p>
<p>Watsonville Slough Total Maximum Daily Load and Implementation Plan for Pathogens (continued)</p>			<p>2013-0001-DWQ 2013</p>

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
			adequate progress towards attainment of wasteload allocations according to the TMDL schedule. 42-13. 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. 43-14. 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. All allocations shall be achieved by November 20, 2016.

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
TMDL for Fecal Coliform in 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 Effective Date: 07/12/2010 BPA: Chapter 4 Resolution No. RB3-2009-0008	County of Santa Cruz City of Hollister City of Morgan Hill City of Gilroy City of Watsonville County of Monterey County of Santa Clara	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	<p>Purpose of Provisions The purpose of these provisions is to implement the requirements of the 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, and Pachecho Creek Fecal Coliform TMDL.</p> <p>TMDL Wasteload Allocations The Cities of Hollister, Morgan Hill, Gilroy and Watsonville and the Counties of Monterey, Santa Clara and Santa Cruz are assigned the following concentration based wasteload allocation: Fecal coliform concentration, based on a minimum of five samples for any 30-day period, shall not exceed a log mean of 200 MPN per 100mL, nor shall more than ten percent of total samples collected during any 30-day period exceed 400 MPN per 100mL.</p> <p>These wasteload allocations are receiving water allocations; storm water discharge cannot cause or contribute to exceedance of the allocations as measured in receiving water.</p> <p>The Counties of Santa Cruz, Santa Clara and Monterey and the Cities of Hollister, Morgan Hill, Gilroy and Watsonville are assigned allocations in the following water bodies: Pajaro River, San Benito River, Llagas Creek and Tequisquita Slough.</p> <p>Provisions for Implementing the TMDL By June 30, 2015, Within one year of adoption of this Order the Cities of Hollister, Morgan Hill, Gilroy and Watsonville and the Counties of Monterey, Santa Clara and Santa Cruz shall each develop, submit, and begin implementation of a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include:</p> <ol style="list-style-type: none"> 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

ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p>TMDL for Fecal Coliform in 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 (continued)</p>			<p>use to assess implementation efforts, and <u>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.</u></p> <p>6-7. <u>A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to 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.</u></p> <p>7-8. <u>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.</u></p> <p>8-9. <u>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 compliance 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 five-year term of this Order. 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.</u></p> <p>9-10. <u>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.</u></p> <p>10-11. <u>A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.</u></p> <p>11-12. <u>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.</u></p> <p>12-13. <u>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.</u></p> <p>13-14. <u>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.</u></p>

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
			All allocations shall be achieved by July 12, 2023.

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p>Morro Bay TMDL for Sediment (including Chorro Creek, Los Osos Creek, and the Morro Bay Estuary)</p> <p>Effective Date: 12/3/2003</p> <p>BPA: Chapter 4</p> <p>Resolution No. R3-2002-0051</p>	<p>County of San Luis Obispo</p>	<p>Morro Bay</p> <p>Los Osos Creek</p> <p>Chorro Creek</p> <p>Dairy Creek</p> <p>Pennington Creek</p> <p>San Luisito Creek</p> <p>San Bernardo Creek</p> <p>Warden Creek</p>	<p>Purpose of Provisions The purpose of these provisions is to implement the requirements of the Morro Bay TMDL for sediment.</p> <p>TMDL Wasteload and Load Allocations The County of San Luis Obispo is assigned a wasteload allocation of 5,137 tones/year of sediment. This allocation represents a 50% reduction in sediment loading relative to 2003 levels. The aggregated sediment discharge from all storm water outfalls into Morro Bay, or any tributary that has the potential to discharge sediment to Morro Bay, shall not exceed the allocation.</p> <p>Provisions for Implementing the TMDL 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. Within one year of adoption of this Order <u>By June 30, 2015</u>, the County of San Luis Obispo shall develop, submit, and begin implementation of a Wasteload Allocation Attainment Program that identifies the actions it will take to attain its wasteload allocation. The Wasteload Allocation Attainment Program shall include:</p> <ol style="list-style-type: none"> 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 demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p>Morro Bay TMDL for Sediment (including Chorro Creek, Los Osos Creek, and the Morro Bay Estuary) (continued)</p>			<p>professional judgment, and/or other available tools, the MS4's wasteload allocation according to 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.</p> <p><u>8.</u> 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. <u>The monitoring program may be based on and use monitoring approaches and designs resulting from the Central Coast Water Board's efforts to develop a region-wide Phase II municipal stormwater monitoring strategy.</u></p> <p>8-9. 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 compliance 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 five-year term of this Order. 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.</p> <p>9-10. 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.</p> <p>10-11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.</p> <p>11-12. 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.</p> <p>12-13. 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.</p> <p>13-14. 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.</p> <p>The allocations shall be achieved by December 3, 2053.</p>

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p>San Lorenzo River TMDL for Sediment (Including Carbonera Creek, Lompico Creek, and Shingle Mill Creek)</p> <p>Effective Date: 12/18/2003</p> <p>BPA: Chapter 4</p> <p>Resolution No. R3-2002-0063</p>	<p>County of Santa Cruz</p> <p>City of Santa Cruz</p> <p>City of Scots Valley</p> <p>City of Santa Cruz</p>	<p>San Lorenzo River</p> <p>Carbonera</p> <p>Lompico and</p> <p>Shingle Mill Creeks</p>	<p>Purpose of Provisions The purpose of these provisions is to implement the requirements of the San Lorenzo River TMDL for sediment.</p> <p>TMDL Wasteload and Load Allocations The County of Santa Cruz, City of Santa Cruz, and City of Scotts Valley are assigned the following wasteload allocations: sediment discharges from public roads to the San Lorenzo River shall be reduced by 27%, sediment discharges from public roads to Lompico Creek shall be reduced by 24%, sediment discharges from public roads to Carbonera Creek shall be reduced by 27%, sediment discharges from public roads to Shingle Mill Creek shall be reduced by 27%.</p> <p>Provisions for Implementing the TMDL The County of Santa Cruz, City of Santa Cruz, and City of Scotts Valley shall implement practices that will assure their allocation is achieved, including identifying and implementing specific road sediment control measures. By June 30, 20132015, the County of Santa Cruz, City of Santa Cruz, and City of Scotts Valley shall each develop, submit, and begin implementation of a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include:</p> <ol style="list-style-type: none"> 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 demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
San Lorenzo River TMDL for Sediment (Including Carbonera Creek, Lompico Creek, and Shingle Mill Creek) <u>(continued)</u>	City of Scotts Valley		<p>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.</p> <p><u>8.</u> 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.</p> <p><u>8-9.</u> 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 compliance 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 five-year term of this Order. 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.</p> <p><u>9-10.</u> 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.</p> <p><u>10-11.</u> A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.</p> <p><u>11-12.</u> 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.</p> <p><u>12-13.</u> 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.</p> <p><u>13-14.</u> 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.</p> <p>The allocations shall be achieved by December 18, 2028.</p>

Regional Water Board Approved TMDLs where urban runoff is listed as a source

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p>San Luis Obispo Creek Total Maximum Daily Load and Implementation Plan for Pathogens</p> <p>Effective Date: 7/25/2005</p> <p>BPA: Chapter 4</p> <p>Resolution No. R3-2004-0142</p>	<p>City of San Luis Obispo</p> <p>County of San Luis Obispo</p> <p>Cal Poly State University</p>	<p>San Luis Obispo Creek</p> <p>Stenner Creek</p> <p>Brizziolari Creek</p>	<p>Purpose of Provisions The purpose of these provisions is to implement the requirements of the San Luis Obispo Creek TMDL for Pathogens.</p> <p>TMDL Wasteload Allocations The City of San Luis Obispo, the County of San Luis Obispo, and Cal Poly State University-San Luis Obispo, are assigned a concentration based wasteload allocation for fecal coliform equal to 200 MPN/100mL, measured as a log mean of five samples taken in a 30-day period from impaired water body receiving waters, nor shall more than 10% of the total samples during any 30-day period exceed 400 MPN per 100mL in receiving waters; storm water discharge cannot cause or contribute to exceedance of the allocations.</p> <p>The City of San Luis Obispo is assigned these allocations in the following water bodies: San Luis Obispo Creek, Stenner Creek.</p> <p>The County of San Luis Obispo is assigned these allocations in the following water bodies: San Luis Obispo Creek.</p> <p>Cal Poly State University-San Luis Obispo is assigned these allocations in the following water bodies: Stenner Creek, Brizziolari</p> <p>Provisions for Implementing the TMDL The City of San Luis Obispo, County of San Luis Obispo, and Cal Poly State University 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, elimination of illicit discharges.</p> <p>Within one year of adoption of this Order <u>By June 30, 2015</u>, the City of San Luis Obispo, County of San Luis Obispo, and Cal Poly State University shall each develop, submit, and begin implementation of a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include:</p> <ol style="list-style-type: none"> 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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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p>San Luis Obispo Creek Total Maximum Daily Load and Implementation Plan for Pathogens (continued)</p>			<ol style="list-style-type: none"> 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 demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to 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. 8-9. 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 compliance 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 five-year term of this Order. 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. 9-10. 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. 10-11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined

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ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
San Luis Obispo Creek Total Maximum Daily Load and Implementation Plan for Pathogens (continued)			<p>to be ineffective during the effectiveness assessment.</p> <p>11.12. 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.</p> <p>12.13. 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.</p> <p>13.14. 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.</p> <p>All allocations shall be achieved no later than July 25, 2015.</p>

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
San Luis Obispo Creek TMDL and Implementation Plan for Nitrate-Nitrogen Effective Date: 8/04/2006 BPA: Chapter 4 Resolution No. R3-2005-0106	City of San Luis Obispo County of San Luis Obispo Cal Poly State University	San Luis Obispo Creek	<p>Purpose of Provisions The purpose of these provisions is to implement the requirements of the San Luis Obispo Creek TMDL for Nitrate.</p> <p>TMDL Wasteload Allocations Urban storm water from the City of San Luis Obispo, County of San Luis Obispo, and Cal Poly State University shall not cause an increase in receiving water nitrate concentration greater than the increase in nitrate concentration resulting from their discharge in 2006 (when the TMDL became effective). In 2006, the nitrate concentration of storm water discharge was 0.3 mg/L-N.</p> <p>The City of San Luis Obispo, County of San Luis Obispo, and Cal Poly State University were achieving their allocations at the time the TMDL became effective; these municipalities shall implement measures to assure continued compliance with their allocations.</p> <p>Provisions for Implementing the TMDL The City of San Luis Obispo, County of San Luis Obispo, and Cal Poly State University shall implement best management practices that specifically address the reduction or elimination of nutrient loading.</p> <p>The City of San Luis Obispo, County of San Luis Obispo, and Cal Poly State University shall submit reports required by their storm water permits and in those reports outline best management practices implemented to assure ongoing compliance with their allocations.</p>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p>TMDL for Fecal Coliform in Corralitos and Salsipuedes Creeks</p> <p>Effective Date: OAL approval anticipated early 2011 <u>9/8/2011</u></p> <p>BPA: Chapter 4</p> <p>Resolution No. R3-2009-0009</p>	<p>County of Santa Cruz</p> <p><u>City of Watsonville</u></p>	<p>Corralitos Creek</p> <p>Salsipuedes Creek</p>	<p>Purpose of Provisions The purpose of these provisions is to implement the requirements of the TMDL for Fecal Coliform in Corralitos/Salsipuedes Creeks</p> <p>TMDL Wasteload Allocations The County of Santa Cruz and the City of Watsonville are assigned the following concentration based wasteload allocation: Fecal coliform concentration, based on a minimum of not less than five samples for any 30-day period, shall not exceed a log mean of 200 MPN per 100 mL, nor shall more than 10 percent of samples collected during any 30-day period exceed 400 MPN per 100 mL.</p> <p>These wasteload allocations are receiving water allocations; storm water discharge cannot cause or contribute to exceedance of the allocations as measured in receiving water.</p> <p>The County of Santa Cruz and the City of Watsonville are assigned allocations in the following water bodies: Corralitos Creek and Salsipuedes Creek.</p> <p>Provisions for Implementing the TMDL Within one year of adoption of this order <u>By June 30, 2015</u>, the County of Santa Cruz and the City of Watsonville shall each develop, submit, and begin implementation of a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include:</p> <ol style="list-style-type: none"> 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

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p>TMDL for Fecal Coliform in Corralitos and Salsipuedes Creeks (continued)</p>		<p>City of Watsonville</p>	<p>obtained.</p> <p>7. A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to 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.</p> <p>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.</p> <p>8-9. 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 compliance 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 five-year term of this Order. 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.</p> <p>9-10. 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.</p> <p>10-11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.</p> <p>11-12. 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.</p> <p>12-13. 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.</p> <p>13-14. 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.</p> <p>All allocations shall be achieved no later than September 8, 2024.</p>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p>TMDL for Fecal Coliform in the Lower Salinas River Watershed</p> <p>Effective Date: OAL approval anticipated in 2011 <u>12/20/2011</u></p> <p>BPA: Chapter 4</p> <p>Resolution No. R3-2010-0017</p>	<p>County of Monterey</p>	<p>Lower Salinas River</p> <p>Old Salinas River Estuary</p> <p>Tembladero Slough</p> <p>Salinas Reclamation Canal</p> <p>Alisal Creek</p> <p>Gabilan Creek</p> <p>Salinas River Lagoon (North)</p> <p>Santa Rita Creek</p> <p>Quail Creek</p> <p>Towne Creek</p>	<p>Purpose of Provisions The purpose of these provisions is to implement the requirements of the TMDL for fecal coliform in the Lower Salinas River Watershed.</p> <p>TMDL Wasteload Allocations The County of Monterey is assigned the following concentration based wasteload allocation for fecal coliform:</p> <p>Fecal coliform concentration, based on a minimum of five samples for any 30-day period, shall not exceed a log mean of 200 MPN per 100mL, nor shall more than ten percent of total samples collected during any 30-day period exceed 400 MPN per 100mL.</p> <p>These wasteload allocations are receiving water allocations; storm water discharge cannot cause or contribute to exceedance of the allocation as measured in receiving water.</p> <p>Provisions for Implementing the TMDL Within one year of adoption of this Order <u>By June 30, 2015</u>, the County of Monterey shall develop, submit, and begin implementation of a Wasteload Allocation Attainment Program that identifies the actions it will take to attain its wasteload allocation. The Wasteload Allocation Attainment Program shall include:</p> <ol style="list-style-type: none"> 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. <u>Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.</u> 4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants. 5. <u>Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.</u> 6. <u>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</u>

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p>TMDL for Fecal Coliform in the Lower Salinas River Watershed (continued)</p>			<p>obtained.</p> <p>6-7. A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to 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.</p> <p>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.</p> <p>7-9. 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 compliance 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 five-year term of this Order. 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.</p> <p>8-10. 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.</p> <p>9-11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.</p> <p>10-12. 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.</p> <p>11-13. 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.</p> <p>12-14. 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.</p> <p>All allocations shall be achieved no later than December 20, 2024.</p>

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
TMDL for Pathogens in San Lorenzo River Estuary, San Lorenzo River, Branciforte Creek, Camp Evers Creek, Carbonera Creek, and Lompico Creek Effective Date: OAL approval pending; anticipated March 2014 <u>6/8/2011</u> BPA: Chapter 4 Resolution No. R3-2009-0023	City of Santa Cruz		Purpose of Provisions The purpose of these provisions is to implement the requirements of the TMDL for Pathogens in San Lorenzo River Estuary, San Lorenzo River, Branciforte Creek, Camp Evers Creek, Carbonera Creek, and Lompico Creek. TMDL Wasteload Allocations The City of Santa Cruz, County of Santa Cruz and the City of Scotts Valley are assigned the following concentration based wasteload allocation for fecal coliform: based on a minimum of not less than five samples for any 30-day period, fecal coliform shall not exceed a log mean of 200 MPN per 100 mL, nor shall more than 10 percent of samples collected during any 30-day period exceed 400 MPN per 100 mL. These wasteload allocations are receiving water allocations; storm water discharge cannot cause or contribute to exceedance of the allocations as measured in receiving water. The City of Santa Cruz is assigned allocations in San Lorenzo River Estuary, San Lorenzo River, Branciforte Creek, and Carbonera Creek. The County of Santa Cruz is assigned allocations in San Lorenzo River, Branciforte Creek, Lompico Creek, and Carbonera Creek, The City of Scotts Valley is assigned allocations in Camp Evers Creek and Carbonera Creek.
	County of Santa Cruz	San Lorenzo River Estuary San Lorenzo River Branciforte Creek Camp Evers Creek Carbonera Creek Lompico Creek	Provisions for Implementing the TMDL By June 30, 2013 <u>2015</u> , the County of Santa Cruz and the Cities of Santa Cruz and Scotts Valley shall each develop, submit, and begin implementation of a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include:
	City of Scotts Valley		<ol style="list-style-type: none"> 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

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p>TMDL for Pathogens in San in San Lorenzo River Estuary, San Lorenzo River, Branciforte Creek, Camp Evers Creek, Carbonera Creek, and Lompico Creek (continued)</p>			<p>pollutant discharges, as well as other pertinent factors.</p> <p>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.</p> <p>7. A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to 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.</p> <p>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.</p> <p>8.9. 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 compliance 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 five-year term of this Order. 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.</p> <p>9.10. 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.</p> <p>10.11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.</p> <p>11.12. 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.</p> <p>12.13. 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.</p> <p>13.14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL</p>
<p>2013-0001-DWQ 2013</p>			<p>37 <u>Informal Draft of Proposed Revisions circulated June 19, 2015</u> February 5,</p>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
			<p>Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment.</p> <p>All allocations shall be achieved no later than June 8, 2024.</p>

Regional Water Board Approved TMDLs where urban runoff is listed as a source

Region 3: Central Coast Regional Water Board			
el			<p>Purpose of Provisions The purpose of these provisions is to implement the requirements of Lagoon, Soquel Creek, and Noble Gulch.</p> <p>TMDL Wasteload Allocations The City of Capitola and the County of Santa Cruz are assigned the wasteload allocation for fecal coliform: based on a minimum of not less than one year, fecal coliform shall not exceed a log mean of 200 MPN per 100 ml of samples collected during any 30-day period exceed 400 MPN per 100 ml.</p> <p>These wasteload allocations are receiving water allocations; storm water runoff shall not contribute to exceedance of the allocations as measured in receiving water.</p> <p>The City of Capitola is assigned allocations in Soquel Lagoon.</p> <p>The County of Santa Cruz is assigned allocations in Soquel Creek and Noble Gulch.</p> <p>Provisions for Implementing the TMDL By June 30, 2015, the City of Capitola and the County of Santa Cruz shall begin implementation of a Wasteload Allocation Attainment Program to attain their wasteload allocations. The Wasteload Allocation Attainment Program shall include:</p> <ol style="list-style-type: none"> 1. A detailed description of the strategy the MS4 will use to guide implementation, to ensure that BMPs implemented will be effective in reducing pollutant discharges, and achieving wasteload allocations. 2. Identification of sources of the impairment within the MS4's jurisdiction on various source locations and their magnitude within the jurisdiction. 3. Prioritization of sources within the MS4's jurisdiction, based on the degree of impairment, ability to control the source, and other pertinent factors. 4. Identification of BMPs that will address the sources of impairment and the types of impairing pollutants. 5. Prioritization of BMPs, based on suspected effectiveness at abating pollutant discharges, as well as other pertinent factors. 6. Identification of BMPs the MS4 will implement, including a detailed description of each BMP, identify milestones the MS4 will use for tracking implementation, and the MS4 will use to assess implementation efforts, and measures to ensure effectiveness. MS4s shall include expected BMP implementation schedule.
4	City of Capitola	Soquel Lagoon	
		Soquel Creek	
	County of Santa Cruz	Noble Gulch	

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
TMDL for Pathogens in Soquel Lagoon, Soquel Creek, and Noble Gulch (continued)			<p>obtained.</p> <p><u>7.</u> A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to 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.</p> <p>7.8. 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.</p> <p>8.9. 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 compliance 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 five-year term of this Order. 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.</p> <p><u>9.10.</u> 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.</p> <p>10.11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.</p> <p>11.12. 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.</p> <p>12.13. 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.</p> <p>13.14. 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.</p> <p>All allocations shall be achieved by September 15, 2023.</p>

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p>TMDL for Pathogens in Aptos Creek, Valencia Creek, and Trout Gulch</p> <p>Effective Date: 10/29/2010</p> <p>BPA: Chapter 4</p> <p>Resolution No. R3-2009-0025</p>	<p>County of Santa Cruz</p>	<p>Aptos Creek</p> <p>Valencia Creek</p> <p>Trout Gulch</p>	<p>Purpose of Provisions The purpose of these provisions is to implement the requirements of the TMDL for Pathogens in Aptos Creek, Valencia Creek, and Trout Gulch.</p> <p>TMDL Wasteload Allocations The County of Santa Cruz is assigned the following concentration based wasteload allocation for fecal coliform: based on a minimum of not less than five samples for any 30-day period, fecal coliform shall not exceed a log mean of 200 MPN per 100 mL, nor shall more than 10 percent of samples collected during any 30-day period exceed 400 MPN per 100 mL.</p> <p>These wasteload allocations are receiving water allocations; storm water discharge cannot cause or contribute to exceedance of the allocations as measured in receiving water.</p> <p>The County of Santa Cruz is assigned allocations in Aptos Creek, Valencia Creek, and Trout Gulch.</p> <p>Provisions for Implementing the TMDL By June 30, 2015²⁰¹³, the County of Santa Cruz shall develop, submit, and begin implementation of a Wasteload Allocation Attainment Program that identifies the actions it will take to attain its wasteload allocation. The Wasteload Allocation Attainment Program shall include:</p> <ol style="list-style-type: none"> 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 demonstrating the BMPs selected for implementation will likely

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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p>TMDL for Pathogens in Aptos Creek, Valencia Creek, and Trout Gulch (continued)</p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p>			<p>achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to 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.</p> <p>7.8. 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.</p> <p>8.9. 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 compliance 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 five-year term of this Order. 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.</p> <p>9.10. 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.</p> <p>10.11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.</p> <p>11.12. 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.</p> <p>12.13. 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.</p> <p>13.14. 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.</p> <p>All allocations shall be achieved October 29, 2023.</p>

ATTACHMENT G – Region Specific Requirements
Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p><u>Total Maximum Daily Loads for Fecal Indicator Bacteria in the Santa Maria River Watershed</u></p> <p><u>Effective Date: 2/21/2013</u></p> <p><u>BPA: Chapter 4</u></p> <p><u>Resolution No. R3-2012-0055</u></p>	<p><u>City of Santa Maria</u></p> <p><u>County of Santa Barbara</u></p> <p><u>County of San Luis Obispo</u></p> <p><u>City of Guadalupe</u></p> <p><u>Santa Maria Fairpark</u></p>	<p><u>Water Bodies in the Santa Maria River Watershed (including:</u></p> <p><u>Alamo Creek</u></p> <p><u>Blosser Channel</u></p> <p><u>Bradley Canyon Creek</u></p> <p><u>Bradley Channel</u></p> <p><u>Cuyama River</u></p> <p><u>La Brea Creek</u></p> <p><u>Little Oso Flaco Creek</u></p> <p><u>Main Street Canal</u></p> <p><u>Nipomo Creek</u></p> <p><u>Orcutt Creek</u></p> <p><u>Oso Flaco Creek</u></p> <p><u>Oso Flaco Lake</u></p> <p><u>Santa Maria River Estuary</u></p> <p><u>Santa Maria</u></p>	<p><u>Purpose of Provisions</u> <u>The purpose of these provisions is to implement the requirements of the Santa Maria River Watershed Fecal Indicator Bacteria TMDL.</u></p> <p><u>TMDL Wasteload Allocations</u> <u>The City of Santa Maria, County of Santa Barbara, County of San Luis Obispo, City of Guadalupe, and Santa Maria Fairpark are assigned the following concentration based wasteload allocation: (1) Fecal coliform concentration, based on a minimum of five samples for any 30-day period, shall not exceed a log mean of 200 MPN per 100mL, nor shall more than ten percent of total samples collected during any 30-day period exceed 400 MPN per 100mL; (2) Based on a statistically sufficient number of samples (generally not less than five samples equally spaced over a 30-day period), the geometric mean of E. coli densities shall not exceed 126 per 100mL, and no sample shall exceed a one-sided confidence limit (C.L.) calculated using the following as guidance: lightly used for contact recreation (90% C.L.) = 409 per 100mL.</u></p> <p><u>These wasteload allocations are receiving water allocations that must be attained by February 21, 2028 in accordance with a Wasteload Allocation Attainment Plan or other integrated plan.</u></p> <p><u>The City of Santa Maria is assigned allocations in the following water bodies: Santa Maria River, Main Street Canal, Blosser Channel, and Bradley Channel.</u></p> <p><u>The County of Santa Barbara is assigned allocation in the following water body: Orcutt Creek.</u></p> <p><u>The County of San Luis Obispo is assigned allocation in the following water body: Nipomo Creek.</u></p> <p><u>The City of Guadalupe is assigned allocation in the following water body: Santa Maria River.</u></p> <p><u>The Santa Maria Fairpark is assigned allocation in the following water body: Main Street Canal.</u></p> <p><u>Provisions for Implementing the TMDL</u> <u>By June 30, 2015, the County of Santa Barbara, County of San Luis Obispo, City of Santa Maria, City of Guadalupe, and the Santa Maria Fairpark 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:</u></p>

ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<u>Total Maximum Daily Loads for Fecal Indicator Bacteria in the Santa Maria River Watershed (Continued)</u>		<u>River)</u>	<ol style="list-style-type: none"> 1. <u>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.</u> 2. <u>Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.</u> 3. <u>Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.</u> 4. <u>Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.</u> 5. <u>Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.</u> 6. <u>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.</u> 7. <u>A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocations according to 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.</u> 8. <u>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.</u> 9. <u>The MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL compliance 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 five-year term of this Order. 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</u>

ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
Total Maximum Daily Loads for Fecal Indicator Bacteria in the Santa Maria River Watershed (Continued)			<p>demonstrate will achieve the next interim target.</p> <p>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.</p> <p>11. A detailed description of how the MS4 proposes to assess its compliance with interim targets and the final wasteload allocation.</p> <p>12. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>All wasteload allocations shall be achieved by February 21, 2028.</p>

ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations																									
Region 3: Central Coast Regional Water Board																												
<u>Total Maximum Daily Loads for Nitrogen Compounds and Orthophosphate for the Lower Santa Maria River Watershed and Tributaries to Oso Flaco Lake</u> Effective Date: 5/22/2014 BPA: Chapter 4 Resolution No. R3-2013-0013	<u>City of Santa Maria</u> <u>County of Santa Barbara</u> <u>County of San Luis Obispo</u> <u>City of Guadalupe</u>	<u>Water Bodies in the Lower Santa Maria River Watershed and Tributaries to Oso Flaco Lake (including:</u> <u>Blosser Channel</u> <u>Bradley Canyon Creek</u> <u>Bradley Channel</u> <u>Greene Valley Creek</u> <u>Main Street Canal</u> <u>North Main Street Channel</u> <u>Orcutt Creek</u> <u>Oso Flaco Creek</u> <u>Little Oso Flaco Creek</u> <u>Oso Flaco Lake</u> <u>Santa Maria River</u> <u>Santa Maria River Estuary)</u>	<u>Purpose of Provisions</u> The purpose of these provisions is to implement the requirements of the Lower Santa Maria River Watershed and Tributaries to Oso Flaco Lake Nitrogen Compounds and Orthophosphate TMDL. <u>TMDL Wasteload Allocations</u> The City of Santa Maria, County of Santa Barbara, County of San Luis Obispo, and City of Guadalupe are assigned the following concentration based wasteload allocations: <table><tr><th colspan="5">FINAL WASTE LOAD ALLOCATIONS (WLAs)</th></tr><tr><th><u>Waterbody the Responsible Party is Discharging to</u></th><th><u>Party Responsible for Allocation & NPDES/WDR number</u></th><th><u>Receiving Water Nitrate as N WLA (mg/L)</u></th><th><u>Receiving Water Orthophosphate as P WLA (mg/L)</u></th><th><u>Receiving Water Unionized Ammonia as N WLA (mg/L)</u></th></tr><tr><td><u>Santa Maria River (upstream from Highway 1), Blosser Channel, Bradley Channel, Main Street Canal, North Main Street Channel</u></td><td><u>City of Santa Maria (Storm drain discharges to MS4s) NPDES No. CAS000004</u> <u>City of Guadalupe (Storm drain discharges to MS4s) (NPDES No. CAS000004)</u></td><td><u>Allocation-4 (see descriptions of allocations at bottom of this table)</u></td><td><u>Not Applicable</u></td><td><u>Allocation-3</u></td></tr><tr><td><u>Santa Maria River (downstream from Highway 1)</u></td><td><u>City of Guadalupe (Storm drain discharges to MS4s) (NPDES No. CAS000004)</u></td><td><u>Allocation-1</u></td><td><u>Allocation-2</u></td><td><u>Allocation-3</u></td></tr><tr><td><u>Nipomo Creek</u></td><td><u>County of San Luis Obispo (Storm drain discharges to MS4s) (NPDES No. CAS000004)</u></td><td><u>Allocation-4</u></td><td><u>Not Applicable</u></td><td><u>Allocation-3</u></td></tr></table>	FINAL WASTE LOAD ALLOCATIONS (WLAs)					<u>Waterbody the Responsible Party is Discharging to</u>	<u>Party Responsible for Allocation & NPDES/WDR number</u>	<u>Receiving Water Nitrate as N WLA (mg/L)</u>	<u>Receiving Water Orthophosphate as P WLA (mg/L)</u>	<u>Receiving Water Unionized Ammonia as N WLA (mg/L)</u>	<u>Santa Maria River (upstream from Highway 1), Blosser Channel, Bradley Channel, Main Street Canal, North Main Street Channel</u>	<u>City of Santa Maria (Storm drain discharges to MS4s) NPDES No. CAS000004</u> <u>City of Guadalupe (Storm drain discharges to MS4s) (NPDES No. CAS000004)</u>	<u>Allocation-4 (see descriptions of allocations at bottom of this table)</u>	<u>Not Applicable</u>	<u>Allocation-3</u>	<u>Santa Maria River (downstream from Highway 1)</u>	<u>City of Guadalupe (Storm drain discharges to MS4s) (NPDES No. CAS000004)</u>	<u>Allocation-1</u>	<u>Allocation-2</u>	<u>Allocation-3</u>	<u>Nipomo Creek</u>	<u>County of San Luis Obispo (Storm drain discharges to MS4s) (NPDES No. CAS000004)</u>	<u>Allocation-4</u>	<u>Not Applicable</u>	<u>Allocation-3</u>
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ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations																																																																	
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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<p><u>Total Maximum Daily Loads for Nitrogen Compounds and Orthophosphate for the Lower Santa Maria River Watershed and Tributaries to Oso Flaco Lake</u> (Continued)</p>			<p><u>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:</u></p> <ol style="list-style-type: none"> <u>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.</u> <u>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.</u> <u>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.</u> <u>4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.</u> <u>5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.</u> <u>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.</u> <u>7. A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocations according to 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.</u> <u>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.</u> <u>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.</u> <u>10. A detailed description of how the MS4 proposes to assess its compliance with interim targets and the final wasteload allocation.</u> <u>11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.</u>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
			<p>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.</p> <p>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.</p> <p>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.</p> <p>The MS4 shall achieve its interim wasteload allocations as specified in the TMDL. 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. All wasteload allocations shall be achieved within 30 years of approval of the TMDL by the Office of Administrative Law.</p>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations																																
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<u>TMDL for Nitrogen Compounds and Orthophosphate in the Lower Salinas River and Reclamation Canal Basin and the Moro Cojo Slough Subwatershed</u> <u>Effective Date: 6/7/2014</u> <u>BPA: Chapter 4</u> <u>Resolution No. R3-2013-0008</u>	<u>County of Monterey</u>	<u>Lower Salinas River</u> <u>Santa Rita Creek</u> <u>Reclamation Canal</u> <u>Gabilan Creek</u> <u>Natividad Creek</u> <u>Alisal Creek</u>	<u>Purpose of Provisions</u> The purpose of these provisions is to implement the requirements of the TMDL for Nitrogen Compounds and Orthophosphate in the Lower Salinas River and Reclamation Canal Basin and the Moro Cojo Slough Subwatershed. <u>TMDL Wasteload Allocations</u> The County of Monterey is assigned the following interim and final wasteload allocations: <table border="1"> <thead> <tr> <th colspan="4">FINAL WASTE LOAD ALLOCATIONS (WLAs)</th></tr> <tr> <th><u>Waterbody the responsible party is discharging to</u></th><th><u>Receiving Water Nitrate as N WLA (mg/L)</u></th><th><u>Receiving Water Orthophosphate as P WLA (mg/L)</u></th><th><u>Receiving Water Unionized Ammonia as N WLA (mg/L)</u></th></tr> </thead> <tbody> <tr> <td><u>Lower Salinas River downstream of Spreckels, CA¹</u></td><td><u>Allocation-1 (see description of allocations below)</u></td><td><u>Allocation-2</u></td><td><u>Allocation-5</u></td></tr> <tr> <td><u>Santa Rita Creek²</u></td><td><u>Allocation-3</u></td><td><u>Allocation-4</u></td><td><u>Allocation-5</u></td></tr> <tr> <td><u>Reclamation Canal³</u></td><td></td><td></td><td></td></tr> <tr> <td><u>Gabilan Creek⁴</u></td><td><u>Allocation-6</u></td><td><u>Allocation-2</u></td><td><u>Allocation-5</u></td></tr> <tr> <td><u>Natividad Creek⁵</u></td><td><u>Allocation-6</u></td><td><u>Allocation-2</u></td><td><u>Allocation-5</u></td></tr> <tr> <td><u>Alisal Creek⁶</u></td><td></td><td></td><td></td></tr> </tbody> </table>	FINAL WASTE LOAD ALLOCATIONS (WLAs)				<u>Waterbody the responsible party is discharging to</u>	<u>Receiving Water Nitrate as N WLA (mg/L)</u>	<u>Receiving Water Orthophosphate as P WLA (mg/L)</u>	<u>Receiving Water Unionized Ammonia as N WLA (mg/L)</u>	<u>Lower Salinas River downstream of Spreckels, CA¹</u>	<u>Allocation-1 (see description of allocations below)</u>	<u>Allocation-2</u>	<u>Allocation-5</u>	<u>Santa Rita Creek²</u>	<u>Allocation-3</u>	<u>Allocation-4</u>	<u>Allocation-5</u>	<u>Reclamation Canal³</u>				<u>Gabilan Creek⁴</u>	<u>Allocation-6</u>	<u>Allocation-2</u>	<u>Allocation-5</u>	<u>Natividad Creek⁵</u>	<u>Allocation-6</u>	<u>Allocation-2</u>	<u>Allocation-5</u>	<u>Alisal Creek⁶</u>			
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Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
TMDL for Nitrogen Compounds and Orthophosphate in the Lower Salinas River and Reclamation Canal Basin and the Moro Cojo Slough Subwatershed (Continued)			¹ Lower Salinas River: all reaches from downstream of Spreckels (downstream of monitoring site 309SSP) to the confluence with the Pacific Ocean including Salinas River Lagoon (North) ² Santa Rita Creek: all reaches and tributaries, from the confluence with the Reclamation Canal to the uppermost reach of the waterbody. ³ Reclamation Canal: all reaches and tributaries, which includes from confluence with Tembladero Slough, to upstream confluence with Alisal Creek. ⁴ Gabilan Creek: all reaches and tributaries downstream of Crazy Horse Rd. ⁵ Natividad Creek: all reaches and tributaries, from the confluence with Carr Lake to the uppermost reach of the waterbody. ⁶ Alisal Creek: all reaches and tributaries from the confluence with the Reclamation Canal to the uppermost reach of the waterbody.

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations		
Region 3: Central Coast Regional Water Board					
TMDL for Nitrogen Compounds and Orthophosphate in the Lower Salinas River and Reclamation Canal Basin and the Moro Cojo Slough Subwatershed (Continued)			DESCRIPTION OF ALLOCATIONS		
			<u>Allocation^A</u>	<u>Compound</u>	<u>Concentration (mg/L)^B</u>
			<u>Allocation 1</u>	<u>Nitrate as N</u>	<u>Dry Season (May 1-Oct. 31): 1.4</u> <u>Wet Season (Nov. 1-Apr. 30): 8.0</u>
			<u>Allocation 2</u>	<u>Orthophosphate as P</u>	<u>Dry Season (May 1-Oct. 31): 0.07</u> <u>Wet Season (Nov. 1-Apr. 30): 0.3</u>
			<u>Allocation 3</u>	<u>Nitrate as N</u>	<u>Dry Season (May 1-Oct. 31): 6.4</u> <u>Wet Season (Nov. 1-Apr. 30): 8.0</u>
			<u>Allocation 4</u>	<u>Orthophosphate as P</u>	<u>Dry Season (May 1-Oct. 31): 0.13</u> <u>Wet Season (Nov. 1-Apr. 30): 0.3</u>
			<u>Allocation 5</u>	<u>Unionized Ammonia as N</u>	<u>Year-round: 0.025</u>
			<u>Allocation 6</u>	<u>Nitrate as N</u>	<u>Dry Season (May 1-Oct. 31): 2.0</u> <u>Wet Season (Nov. 1-Apr. 30): 8.0</u>
			<u>Allocation 7</u>	<u>Nitrate as N</u>	<u>Dry Season (May 1-Oct. 31): 3.1</u> <u>Wet Season (Nov. 1-Apr. 30): 8.0</u>
			<u>Allocation 8</u>	<u>Total Nitrogen as N</u>	<u>Dry Season (May 1-Oct. 31): 1.7</u> <u>Wet Season (Nov. 1-Apr. 30): 8.0</u>
<u>Allocation 9</u>	<u>Nitrate as N</u>	<u>Year-round: 10</u>			
			^A Federal and state anti-degradation requirements apply to all waste load and load allocations. ^B Achievement of final waste load and load allocations to be determined on the basis of the number of measured exceedances and/or other criteria set forth in Section 4 of the <i>Water Quality Control Policy for Developing California's Clean Water Act Section 303(d) List</i> (Listing Policy - State Water Resources Control Board, Resolution No. 2004-0063, adopted September 2004), or as consistent with any relevant revisions of the Listing Policy promulgated in the future pursuant to Government Code section 11353.		
2013-0001-DWQ 2013			53. Informal Draft of Proposed Revisions circulated June 19, 2015February 5,		
INTERIM WASTE LOAD ALLOCATIONS (WLAs)					

2013-0001-DWQ
2013

[TMDL for Nitrogen Compounds and Orthophosphate in the Lower Salinas River and Reclamation](#)

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Region 3: Central Coast Regional Water Board					
TMDL for Nitrogen Compounds and Orthophosphate in the Lower Salinas River and Reclamation Canal Basin and the Moro Cojo Slough Subwatershed (Continued)			INTERIM WASTE LOAD ALLOCATIONS (WLAs)		
			Waterbody	First Interim WLA	Second Interim WLA
			All waterbodies given waste load allocations (WLAs) as identified in Final Waste Load Allocations Table	Achieve MUN standard-based and Unionized Ammonia objective-based allocations: Allocation-5 Allocation-9 12 years after effective date of the TMDLs	Achieve Wet Season (Nov. 1 to Apr. 30) Biostimulatory target-based TMDL allocations: Wet Season Allocation/Waterbody combinations as identified in Final Waste Load Allocations Table 20 years after effective date of the TMDLs
			Responsible parties shall meet allocations in all receiving surface waterbodies receiving the responsible parties' discharges.		
			The parties responsible for the allocation to controllable sources are not responsible for the allocation to natural sources.		
Provisions for Implementing the TMDL By June 30, 2015, the County of Monterey 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: <div><div>1.</div><div>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.</div></div> <div><div>2.</div><div>Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.</div></div> <div><div>3.</div><div>Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors.</div></div> <div><div>4.</div><div>Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants.</div></div> <div><div>5.</div><div>Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.</div></div> <div><div>6.</div><div>Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For</div></div>					

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Region 3: Central Coast Regional Water Board			
TMDL for Nitrogen Compounds and Orthophosphate in the Lower Salinas River and Reclamation Canal Basin and the Moro Cojo Slough Subwatershed (Continued)			<p>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.</p> <ol style="list-style-type: none"> 7. A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocations according to 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 compliance with 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. <p>The MS4 shall achieve its interim wasteload allocations as specified in the above table. 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. All wasteload allocations shall be achieved by May 7, 2044.</p>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations															
Region 3: Central Coast Regional Water Board																		
Total Maximum Daily Loads for Toxicity and Pesticides in the Santa Maria River Watershed Effective Date: 10/29/2014 BPA: Chapter 4 Resolution No. R3-2014-0009	City of Santa Maria County of Santa Barbara County of San Luis Obispo City of Guadalupe	Blosser Channel Bradley Canyon Creek Bradley Channel Greene Valley Creek Little Oso Flaco Creek Main Street Canal, Orcutt Creek Oso Flaco Creek Oso Flaco Lake Santa Maria River	Purpose of Provisions The purpose of these provisions is to implement the requirements of the Santa Maria River Watershed Toxicity and Pesticides TMDL. TMDL Wasteload Allocations The City of Santa Maria, County of Santa Barbara, and City of Guadalupe are assigned the following wasteload allocations: <table><tr><th colspan="3">Waste Load Allocations</th></tr><tr><th>Responsible Party</th><th>Source</th><th>Allocation</th></tr><tr><td>City of Santa Maria – NPDES No. CAS000004</td><td>Urban Stormwater</td><td>3, 4 & 5</td></tr><tr><td>County of Santa Barbara – NPDES No. CAS000004</td><td>Urban Stormwater</td><td>3, 4 & 5</td></tr><tr><td>City of Guadalupe</td><td>Urban Stormwater</td><td>3, 4 & 5</td></tr></table> Allocation-3: Additive Toxicity TMDL for Pyrethroid Pesticides: The pyrethroid pesticides have additive toxicity in aquatic sediments. Since the TMDL is linked to toxicity and concentrations, additive toxicity must be considered in the TMDL as a numeric target. The numeric target for additive toxicity for pyrethroid pesticides is: $\frac{C \text{ (Pyrethroid 1)}}{NLC(\text{Pyrethroid 1})} + \frac{C \text{ (Pyrethroid 2)}}{NLC \text{ (Pyrethroid 2)}} = S; \text{ where } S \leq 1$ Where: C = the concentration of a pesticide measured in sediment. NLC = the numeric LC50 for each pesticide present (Table 3). S = the sum; a sum exceeding one (1.0) indicates that beneficial uses may be adversely affected. The additive toxicity numeric target formula shall be applied when pyrethroid pesticides are present in the	Waste Load Allocations			Responsible Party	Source	Allocation	City of Santa Maria – NPDES No. CAS000004	Urban Stormwater	3, 4 & 5	County of Santa Barbara – NPDES No. CAS000004	Urban Stormwater	3, 4 & 5	City of Guadalupe	Urban Stormwater	3, 4 & 5
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<div>Total Maximum Daily Loads for Toxicity and Pesticides in the Santa Maria River Watershed (Continued)</div>			<div><div>sediment.</div><div>Table 1 Pyrethroid Sediment LC50s</div><table><thead><tr><th>Chemical</th><th>LC50 ng/g ppb</th><th>LC50 µg/g OC*(ppm)</th></tr></thead><tbody><tr><td>Bifenthrin</td><td>12.9</td><td>0.52</td></tr><tr><td>Cyfluthrin</td><td>13.7</td><td>1.08</td></tr><tr><td>Cypermethrin</td><td>14.87</td><td>0.38</td></tr><tr><td>Esfenvalerate</td><td>41.8</td><td>1.54</td></tr><tr><td>Lambda-Cyhalothrin</td><td>5.6</td><td>0.45</td></tr><tr><td>Permethrin</td><td>200.7</td><td>10.83</td></tr></tbody></table><div>*Median lethal concentration (LC50) for amphipods (Hyaella azteca) organic carbon normalized concentrations (ug/g OC)</div><div>Allocation-4: Aquatic Toxicity TMDLs (refer to Table 5)</div><div>Table 2 Standard Aquatic Toxicity Tests</div><table><thead><tr><th>Parameter</th><th>Test</th><th>Biological Endpoint Assessed</th></tr></thead><tbody><tr><td>Water Column Toxicity</td><td>Water Flea – Ceriodaphnia (6-8 day chronic)</td><td>Survival and reproduction</td></tr><tr><td>Sediment Toxicity</td><td>Hyaella azteca (10-day chronic)</td><td>Survival</td></tr></tbody></table><div>Allocation-5: Organochlorine Pesticide TMDLs (refer to Tables 8, 9, and 10)</div><div>Table 3 DDT Sediment Chemistry TMDLs</div><table><thead><tr><th rowspan="3">Waterbodies Assigned TMDLs¹</th><th colspan="4">TMDL</th></tr><tr><th>DDD, 4,4- (p,p-DDD) o.c.²</th><th>DDE, 4,4- (p,p-DDE) o.c.²</th><th>DDT, 4,4- (p,p-DDT) o.c.²</th><th>Total DDT o.c.²</th></tr><tr><th>µg/kg</th><th>µg/kg</th><th>µg/kg</th><th>µg/kg</th></tr></thead><tbody><tr><td>Blosser Channel</td><td>9.1</td><td>5.5</td><td>6.5</td><td>10</td></tr><tr><td>Bradley Channel</td><td>9.1</td><td>5.5</td><td>6.5</td><td>10</td></tr><tr><td>Greene Valley Creek</td><td>9.1</td><td>5.5</td><td>6.5</td><td>10</td></tr></tbody></table></div>	Chemical	LC50 ng/g ppb	LC50 µg/g OC*(ppm)	Bifenthrin	12.9	0.52	Cyfluthrin	13.7	1.08	Cypermethrin	14.87	0.38	Esfenvalerate	41.8	1.54	Lambda-Cyhalothrin	5.6	0.45	Permethrin	200.7	10.83	Parameter	Test	Biological Endpoint Assessed	Water Column Toxicity	Water Flea – Ceriodaphnia (6-8 day chronic)	Survival and reproduction	Sediment Toxicity	Hyaella azteca (10-day chronic)	Survival	Waterbodies Assigned TMDLs ¹	TMDL				DDD, 4,4- (p,p-DDD) o.c. ²	DDE, 4,4- (p,p-DDE) o.c. ²	DDT, 4,4- (p,p-DDT) o.c. ²	Total DDT o.c. ²	µg/kg	µg/kg	µg/kg	µg/kg	Blosser Channel	9.1	5.5	6.5	10	Bradley Channel	9.1	5.5	6.5	10	Greene Valley Creek	9.1	5.5	6.5	10
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*ng/g: i.e. nanograms of pollutant per grams of fish tissue (e.g. a fillet)																																								

ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
Total Maximum Daily Loads for Toxicity and Pesticides in the Santa Maria River Watershed (Continued)			<div data-bbox="884 500 2028 586"> <p>These wasteload allocations are receiving water allocations that must be attained by the dates set forth in the TMDL in accordance with a Wasteload Allocation Attainment Plan or other integrated plan.</p> </div> <div data-bbox="884 613 2028 748"> <p>Provisions for Implementing the TMDL By June 30, 2015, the County of Santa Barbara, City of Santa Maria, and City of Guadalupe 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:</p> </div> <div data-bbox="884 751 2028 1461"> <ol style="list-style-type: none"> 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 demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocations according to 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 </div>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 3: Central Coast Regional Water Board			
<u>Total Maximum Daily Loads for Toxicity and Pesticides in the Santa Maria River Watershed</u> <u>(Continued)</u>			<u>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.</u>
			<u>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.</u> <u>10. A detailed description of how the MS4 proposes to assess its compliance with interim targets and the final wasteload allocation.</u> <u>11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment.</u> <u>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.</u> <u>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.</u> <u>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.</u> <u>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 target date to achieve the TMDLs for pyrethroids is 15 years after approval of the TMDL by the Office of Administrative Law. This estimate is based on the widespread availability of pyrethroids, including consumer usage, and current limited regulatory oversight. The target date to achieve the TMDLs for organochlorine pesticides (DDT, DDD, DDE, chlordane, eldrin, toxaphene, dieldrin) is 30 years after approval of the TMDL by the Office of Administrative Law.</u>

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<u>TMDL</u> <u>Effective Date/BPA/Res No.</u>	<u>Municipality</u>	<u>Impaired Water</u> <u>Body</u>	<u>Deliverables/Actions Required/Waste Load Allocations</u>
<u>Region 4: Los Angeles Regional Water Board</u>			
<u>Avalon Beach</u> <u>Bacteria</u> <u>Effective Date: April 5, 2012</u> <u>BPA: N/A (Issued through CDO R4-2012-0077)</u> <u>Resolution No. R2-2009-0064</u>	<u>City of Avalon</u>	<u>Avalon Beach</u>	<u>Purpose of Provisions</u> <u>The purpose of these provisions is to implement the requirements of the Avalon Beach Bacteria TMDL.</u> <u>Requirements for Implementing the Bacteria TMDL Wasteload and Load Allocations</u> <u>Cease and Desist Order R4-2012-0077 contains implementation requirements and timelines for the City of Avalon to achieve compliance with the TMDL.</u>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 5: Central Valley Regional Water Board			
Lower San Joaquin River <i>Diazinon & Chlorpyrifos</i> Effective Date: December 20,2006 BPA: Chapter 3 Resolution No.: R5-2005-0138	County of San Joaquin County of Madera County of Merced County of Stanislaus City of Patterson	San Joaquin River from Mendota Dam to Vernalis	<p>Purpose of Provisions: The purpose of these provisions is to implement the Lower San Joaquin River Diazinon and Chlorpyrifos Control Program</p> <p>Waste Load Allocations: The wasteload allocations for NPDES permitted municipal storm water Permittee shall not exceed the sum (S) of one (1) as defined below:</p> $S = \frac{C_D}{WQO_D} + \frac{C_C}{WQO_C} \leq 1.0$ <p>where CD = diazinon concentration CC = chlorpyrifos concentration WQOD = acute or chronic diazinon water quality objective (0.160 and 0.100 ug/L, respectively) WQOC = acute or chronic chlorpyrifos water quality objective. (0.025 and 0.015 ug/L, respectively)</p> <p>For the purpose of calculating the sum (S) above, non-detectable concentrations are considered to be zero. <u>In determining compliance with waste load allocations, the Central Valley Water Board will consider data or information submitted by the Permittee regarding diazinon and chlorpyrifos inputs from sources that are outside of the jurisdiction of the permitted discharge, and any applicable provisions in the Permittee's NPDES permit requiring the Permittee to reduce the discharge of pollutants to the maximum extent possible.</u></p> <p>Monitoring Provisions and Provisions for implementing the Control Program: <u>1. Conduct an assessment: by the second year of the effective date of revised Attachment G for Executive Officer approval. Permittees shall complete an assessment to, at a minimum: determine the diazinon and chlorpyrifos levels and compliance with waste load allocations in urban discharge points, evaluate compliance with established water quality objectives applicable to diazinon and chlorpyrifos for the receiving water, determine whether alternatives to diazinon and chlorpyrifos are causing surface water quality impacts and if toxicity impairment is being caused or contributed to due to synergistic effects of multiple pollutants. The Central Valley Water Board, in coordination with the Department of Pesticide Regulation (DPR), will assist the Permittees in identifying applicable diazinon and chlorpyrifos alternatives for</u></p>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 5: Central Valley Regional Water Board			
Lower San Joaquin River	Diazinon & Chlorpyrifos (continued)		<p>purposes of this assessment. Assessment monitoring may be done in coordination or conjunction with other municipalities and/or Permittees. Permittees listed in Attachment G for this TMDL are responsible for providing the necessary information related to the assessment to the 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.</p> <p>Modifications to these monitoring requirements may be made through approval from the Executive Officer in order to facilitate Permittee participation in the Delta Regional Monitoring Program or other collective monitoring efforts.</p> <p>2. Pesticide Management Plans: In cases where the Permittees are not in compliance with the waste load allocations, Permittees shall submit a management plan for review and approval by the Regional Board Executive Officer, within six months of completion of the assessment. The management plan shall include a description of actions that will be taken to reduce diazinon and chlorpyrifos discharges to meet the applicable allocations. 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.</p> <p>The Executive Officer may require revisions to the management plans if compliance with waste load allocations are not attained or the management plan is not likely to attain compliance. 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 MS4 pesticide discharges through participation or support of a regional or</p>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 5: Central Valley Regional Water Board			
Lower San Joaquin River Diazinon & Chlorpyrifos (continued)			<p>statewide pesticide reduction program. To receive credit toward compliance for such participation, the MS4 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 MS4 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.</p> <p>Dischargers not meeting wasteload allocations will be required by the Executive Officer to submit a management plan describing actions that will be taken to reduce diazinon and chlorpyrifos discharges to meet the applicable allocations. The Executive Officer may require revisions to the management plans if compliance with wasteload allocations are not attained or the management plan is not likely to attain compliance. Management plans may be submitted by individual dischargers or discharger groups.</p> <p>In determining compliance with the waste load allocations, the Regional Water Board will consider data or information submitted by the discharger regarding diazinon and chlorpyrifos inputs from sources outside of the jurisdiction of the permitted discharge.</p> <p>Dischargers must consider whether a proposed alternative to diazinon or chlorpyrifos has the potential to degrade ground or surface water. If the alternative has the potential to degrade groundwater, alternative pest control methods must be considered. If the alternative has the potential to degrade surface water, control measures must be implemented to ensure the applicable water quality objectives and State and Regional Water Boards' policies are not violated, including State Water Resources Control Board Resolution 68-16.</p> <p>Deadline for Compliance with Waste Load Allocations: 01 December 2010</p>
Sacramento and San Joaquin Delta Diazinon & Chlorpyrifos Effective Date: October 10, 2006	City of Lathrop City of Rio Vista City of Tracy		<p>Purpose of Provisions: The purpose of these provisions is to implement the Control Program for Diazinon and Chlorpyrifos Runoff into the Sacramento-San Joaquin Delta Waterways</p> <p>Waste Load Allocations: The wasteload allocations for NPDES permitted municipal storm water Permittee shall not exceed the sum (S) of one (1) as defined below:</p>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 5: Central Valley Regional Water Board			
Sacramento and San Joaquin	Delta Diazinon & Chlorpyrifos (continued)		<p><u>Modifications to these monitoring requirements may be made through approval from the Executive Officer in order to facilitate Permittee participation in the Delta Regional Monitoring Program or other collective monitoring efforts.</u></p> <p><u>2. Pesticide Management Plans:</u> In cases where the Permittees are not in compliance with the waste load allocations, Permittees shall submit a management plan for review and approval by the Executive Officer, within six months of completion of the assessment. The management plan shall include a description of actions that will be taken to reduce diazinon and chlorpyrifos discharges to meet the applicable allocations. 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 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.</p> <p>The Executive Officer may require revisions to the management plans if compliance with waste load allocations are not attained or the management plan is not likely to attain compliance. 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 MS4 pesticide discharges through participation or support of a regional or statewide pesticide reduction programs. To receive credit toward compliance for such participation, the MS4 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 MS4 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 CASQA's pesticide regulatory initiative. In developing the monitoring and reporting programs for specific Permittees, the Central Valley Water</p>

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Region 5: Central Valley Regional Water Board			

Board will, in coordination with DPR, assist the Permittee in identifying diazinon and chlorpyrifos alternatives for which monitoring may be necessary.

~~-Dischargers not meeting wasteload allocations will be required by the Executive Officer to submit a management plan describing actions that will be taken to reduce diazinon and chlorpyrifos discharges to meet the applicable allocations. The Executive Officer may require revisions to the management plans if compliance with wasteload allocations are not attained or the management plan is not likely to attain compliance. Management plans may be submitted by individual dischargers or discharger groups.~~

~~In determining compliance dates for wasteload allocations, the Regional Water Board will consider data or information submitted by the discharger regarding diazinon and chlorpyrifos inputs from sources outside of the jurisdiction of the permitted discharge.~~

~~To address pesticide impairment of receiving waters, Permittees shall create and implement a Regional Board approved Pesticide Plan that addresses their own use of pesticides including diazinon and chlorpyrifos, and to the extent authorized by law, the use of such pesticides by other sources within their jurisdictions. The goal of the Pesticides Plan is to reduce the discharge of pesticides from municipal storm water systems to receiving waters. The Permittees shall identify and promote 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. IPM shall be integrated into the Permittee municipal operations and promoted to residents, businesses, and public agencies through the public outreach program.~~

~~Permittees shall complete an assessment to determine the diazinon and chlorpyrifos levels in receiving waters. Monitoring may be done in conjunctions with other municipalities and/or discharges in the Central Valley. Permittees are responsible for providing the necessary information. The information may come from the dischargers' 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. The purposes of the study are to evaluate compliance with established water quality objectives applicable to diazinon and chlorpyrifos for the receiving water and to determine compliance with wasteload allocations. In cases where the Permittees are not in compliance with the wasteload allocations, the Regional Water Board may request additional assessments and documentation of control program effectiveness. Assessment shall also consider~~

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Region 5: Central Valley Regional Water Board			
			<p>whether alternatives to diazinon and chlorpyrifos are causing surface water quality impacts and if toxicity impairment is being caused or contributed to due to synergistic effects of multiple pollutants.</p> <p>Modifications to these requirements may be made through approval from the Executive Officer in order to facilitate discharger participation in the Delta Regional Monitoring Program.</p> <p>Deadline for Compliance with Waste Load Allocations: 01 December 20112019</p>
<p>Sacramento and Feather Rivers <i>Diazinon & Chlorpyrifos</i></p> <p>Effective Date: May 3, 2007</p> <p>BPA: Attachment 1</p> <p>Resolution No.: R5-2007-0034</p> <p>Sacramento and Feather Rivers Diazinon & Chlorpyrifos (Continued)</p>	<p>City of Anderson</p> <p>City of Chico</p> <p>City of Marysville</p> <p>Olivehurst CDP</p> <p>City of Red Bluff</p> <p>South City of Yuba City</p> <p>County of Butte</p> <p>County of Colusa</p> <p>County of Shasta</p> <p>County of</p>	<p>Sacramento River from Shasta Dam to I Street Bridge</p> <p>Feather River from Fish Barrier Dam to Sacramento River</p>	<p>Purpose of Provisions: The purpose of these provisions is to implement the Control Program for Diazinon and Chlorpyrifos Runoff into the Sacramento and Feather Rivers</p> <p>Waste Load Allocations: The wasteload allocations for NPDES permitted municipal storm water Permittee shall not exceed the sum (S) of one (1) as defined below:</p> $S = \frac{C_D}{WQO_D} + \frac{C_C}{WQO_C} \leq 1.0$ <p>where CD = diazinon concentration CC = chlorpyrifos concentration WQOD = acute or chronic diazinon water quality objective (0.160 and 0.100 ug/L, respectively) WQOC = acute or chronic chlorpyrifos water quality objective. (0.025 and 0.015 ug/L, respectively)</p> <p>For the purpose of calculating the sum (S) above, non-detectable concentrations are considered to be zero. In determining compliance with waste load allocations, the Central Valley Water Board will consider data or information submitted by the Permittee regarding diazinon and chlorpyrifos inputs from sources that are outside of the jurisdiction of the permitted discharge, and any applicable provisions in the Permittee's NPDES permit requiring the Permittee to reduce the discharge of pollutants to the maximum extent possible.</p> <p>Monitoring Provisions and Provisions for implementing the Control Program:</p>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 5: Central Valley Regional Water Board			
<u>Sacramento and Feather Rivers</u> <u>Diazinon & Chlorpyrifos</u> (Continued)	Sutter City of Live Oak City of Lincoln City of Linda CDP City of Loomis City of Redding City of Roseville City of Rocklin County of Yuba		<p>1. <u>Conduct an assessment: by the second year of the effective date of revised Attachment G for Executive Officer approval. Permittees shall complete an assessment to, at a minimum: determine the diazinon and chlorpyrifos levels and compliance with waste load allocations in urban discharge points, evaluate compliance with established water quality objectives applicable to diazinon and chlorpyrifos for the receiving water, determine whether alternatives to diazinon and chlorpyrifos are causing surface water quality impacts and if toxicity impairment is being caused or contributed to due to synergistic effects of multiple pollutants. The Central Valley Water Board, in coordination with the Department of Pesticide Regulation (DPR), will assist the Permittees in identifying applicable diazinon and chlorpyrifos alternatives for purposes of this assessment. Assessment monitoring may be done in co coordination or conjunction with other municipalities and/or Permittees. Permittees listed in Attachment G for this TMDL are responsible for providing the necessary information related to the assessment to the 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.</u></p> <p><u>Modifications to these monitoring requirements may be made through approval from the Executive Officer in order to facilitate Permittee participation in the Delta Regional Monitoring Program or other collective monitoring efforts.</u></p> <p>2. <u>Pesticide Management Plans: In cases where the Permittees are not in compliance with the waste load allocations, Permittees shall submit a management plan for review and approval by the Regional Board Executive Officer, within six months of completion of the assessment. The management plan shall include a description of actions that will be taken to reduce diazinon and chlorpyrifos discharges to meet the applicable allocations. 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</u></p>

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Region 5: Central Valley Regional Water Board			
			<p><u>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.</u></p> <p><u>The Executive Officer may require revisions to the management plans if compliance with waste load allocations are not attained or the management plan is not likely to attain compliance. 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 MS4 pesticide discharges through participation or support of a regional or statewide pesticide reduction program. To receive credit toward compliance for such participation, the MS4 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 MS4 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.</u></p> <p>Dischargers not meeting wasteload allocations will be required by the Executive Officer to submit a management plan describing actions that will be taken to reduce diazinon and chlorpyrifos discharges to meet the applicable allocations. The Executive Officer may require revisions to the management plans if compliance with wasteload allocations are not attained or the management plan is not likely to attain compliance. Management plans may be submitted by individual dischargers or discharger groups.</p> <p>In determining compliance with the waste load allocations, the Regional Water Board will consider data or information submitted by the discharger regarding diazinon and chlorpyrifos inputs from sources outside of the jurisdiction of the permitted discharge.</p> <p>Dischargers must consider whether a proposed alternative to diazinon or chlorpyrifos has the potential</p>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 5: Central Valley Regional Water Board			
			<p>to degrade ground or surface water. If the alternative has the potential to degrade groundwater, alternative pest control methods must be considered. If the alternative has the potential to degrade surface water, control measures must be implemented to ensure the applicable water quality objectives and State and Regional Water Boards' policies are not violated, including State Water Resources Control Board Resolution 68-16.</p> <p>Deadline for Compliance with Waste Load Allocations: 11 August 2008</p>
<p>Lower San Joaquin River, San Joaquin River, Stockton DWSC TMDL</p> <p><i>Organic Enrichment and Low Dissolved Oxygen</i></p> <p>Effective Date: February 27, 2007</p> <p>BPA: Chapter IV-37.01</p> <p>Resolution No.: R5-2005-005</p>	<p>Atwater City County of San Joaquin City of French Camp</p> <p>City of Ceres City</p> <p>Delhi City</p> <p>Empire CDP</p> <p>Hughson City</p> <p>Keyes CDP</p> <p>Lathrop City</p> <p>Livingston City</p> <p>Los Banos City</p> <p>Manteca City</p> <p>Merced City</p>	<p>Lower San Joaquin River (Stockton DWSC)</p>	<p>Purpose of Provisions: The purpose of these provisions is to implement the requirements of the San Joaquin River Dissolved Oxygen TMDL.</p> <p>Waste Load Allocations: <u>The San Joaquin River Dissolved Oxygen Control Program initially set the waste load allocations for NPDES-permitted discharges of oxygen demanding substances and their precursors as the effluent limitations that were applicable on 28 January 2005.</u></p> <p><u>Waste load allocations and permit conditions for new or expanded point source discharges in the San Joaquin River Basin upstream of the Stockton Deep Water Ship Channel (DWSC), including NPDES and storm water, are to be based on whether the discharge will have no reasonable potential to cause or contribute to a negative impact on the dissolved oxygen impairment in the Stockton DWSC.</u></p> <p><u>The San Joaquin River Dissolved Oxygen Control Program defines oxygen demanding substances and their precursors as any substance or substances that consume, have the potential to consume, or contribute to the growth or formation of substances that consume or have the potential to consume oxygen from the water column.</u></p> <p>Waste load allocations for all NPDES-permitted discharges of oxygen-demanding substances were set at the corresponding effluent limitations applicable on 28 January 2005.</p> <p>Provisions for Implementing the Control Program: <u>The MS4 permittees identified in revised Attachment G under this TMDL 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 Phase II Small MS4 Permit requirements:</u></p> <ul style="list-style-type: none"> <u>Discharge Prohibitions B.4</u>

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TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 5: Central Valley Regional Water Board			
<p><u>Lower San Joaquin River, San Joaquin River, Stockton DWSC TMDL</u> <u>Organic Enrichment and Low Dissolved Oxygen</u> (Continued)</p>	<p><u>Merced County</u></p> <p>City of Oakdale <u>City</u></p> <p>City of Patterson <u>City</u></p> <p><u>Ripon City</u></p> <p>City of Riverbank <u>City</u></p> <p><u>Salida CDP</u></p> <p><u>San Joaquin County</u></p> <p>City of Ripon City of Lathrop City of Turlock City of Manteca City of Livingston City of Los Banos County of Stanislaus <u>County</u> City of Empire City of Keyes City of Salida</p>		<ul style="list-style-type: none"> <u>Section E.6.a. Legal Authority</u> <u>Section E.9. Illicit Discharge Detection and Elimination</u> <u>Section E.10. Construction Site Storm Water Runoff Control Program</u> <u>Section E.11. Pollution Prevention/Good Housekeeping</u> <u>Section E.12. Post-Construction</u> <u>Section E.13. Monitoring</u> <u>Section E.14. Program Effectiveness</u> <u>Section E.15 Compliance with Implementation Process</u> <p>Waste load allocations and permit conditions for new or expanded point source discharges in the SJR Basin upstream of the DWSC, including NPDES and storm water, will be based on the discharger demonstrating that the discharge will have no reasonable potential to cause or contribute to a negative impact on the dissolved oxygen impairment in the DWSC.</p> <p>Compliance with Implementation Provisions: <u>The MS4 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 Permit requirements and a discussion of the effectiveness of the BMPs, and their associated measurable goals. Each subsequent year (years two through five), permittees shall complete and submit the Program Effectiveness Assessment Improvement Plan (PEAIP), as specified in Section E.14 of the Permit.</u></p> <p>Monitoring</p> <ol style="list-style-type: none"> <u>Within six months of approval of the revised Attachment G, the MS4 permittees shall submit a monitoring and reporting plan, for Executive Officer approval.</u> <u>Regional monitoring collaborations will be considered if representative sampling locations can be identified. Later modifications to the monitoring program can be made, if needed, through approval by the Executive Officer.</u> <p>Compliance with waste load allocations: December 31, 2011</p> <p>Compliance with implementation provisions: Ongoing</p>

ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations																								
Region 5: Central Valley Regional Water Board																											
	<div>City of Hughson County of Merced City of Atwater</div> <div>City of Merced City of Delhi City of Winton</div> <div>Turlock City</div>																										
<div>Delta TMDL Methylmercury</div> <div>Effective Date: PendingOctober 20, 2011</div> <div>Resolution No.: R5-2010-0043</div>	<div>City of Lathrop</div> <div>City of Lodi</div> <div>City of Rio Vista</div> <div>City of Tracy</div> <div>City of Lodi County of San Joaquin County of Solano</div> <div>City of West Sacramento</div> <div>County of San Joaquin</div> <div>County of Yolo</div>	<div>Sacramento-San Joaquin Delta Waterways</div>	<div>Purpose of Provisions: The purpose of these provisions is to implement the requirements of the Delta Mercury Control ProgramDelta methylmercury TMDL.</div> <div>Waste Load Allocations: Compliance with the following waste load allocations is required by 2030, unless the Central Valley Water Board modifies the final compliance date.</div> <table><thead><tr><th>Municipality</th><th>Waste Load Allocations, Methylmercury (grams/year)</th></tr></thead><tbody><tr><td>City of Lathrop</td><td>0.097</td></tr><tr><td>City of Lodi</td><td>0.053</td></tr><tr><td>City of Rio Vista</td><td>0.0078</td></tr><tr><td>City of Tracy</td><td>0.65</td></tr><tr><td>City of West Sacramento (Sacramento River subarea)</td><td>0.36</td></tr><tr><td>City of West Sacramento (Yolo Bypass subarea)</td><td>0.28</td></tr><tr><td>County of San Joaquin (Central Delta subarea)</td><td>0.57</td></tr><tr><td>County of San Joaquin (Mokelumne River subarea)</td><td>0.016</td></tr><tr><td>County of San Joaquin (Sacramento River subarea)</td><td>0.11</td></tr><tr><td>County of San Joaquin (San Joaquin River subarea)</td><td>0.79</td></tr><tr><td>County of Yolo (Sacramento River subarea)</td><td>0.041</td></tr></tbody></table>	Municipality	Waste Load Allocations, Methylmercury (grams/year)	City of Lathrop	0.097	City of Lodi	0.053	City of Rio Vista	0.0078	City of Tracy	0.65	City of West Sacramento (Sacramento River subarea)	0.36	City of West Sacramento (Yolo Bypass subarea)	0.28	County of San Joaquin (Central Delta subarea)	0.57	County of San Joaquin (Mokelumne River subarea)	0.016	County of San Joaquin (Sacramento River subarea)	0.11	County of San Joaquin (San Joaquin River subarea)	0.79	County of Yolo (Sacramento River subarea)	0.041
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ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations		
Region 5: Central Valley Regional Water Board					
Delta TMDL Methylmercury (Continued)			<table><tr><td>County of Yolo (Yolo Bypass subarea)</td><td>0.083</td></tr></table> <p>Wasteload Allocations (methylmercury g/yr): Lodi (City of) 0.053 San Joaquin (County of) 1.486 Rio Vista (City of) 0.0078 Solano (County of) 0.062 West Sacramento (City of) 0.64 Yolo (County of) 0.124 Lathrop (City of) 0.097 Tracy (City of) 0.65</p> <p>Provisions for Implementing the Control Program:</p> <p>1. The MS4 permittees listed above shall implement best management practices (BMPs) to control erosion and sediment discharges. This will be implemented through compliance with the following Phase II Small MS4 Permit requirements:</p> <ul style="list-style-type: none">Discharge Prohibitions B.4Section E.6.a Legal AuthoritySection E.9 Illicit Discharge Detection and EliminationSection E.10 Construction Site Storm Water Runoff Control ProgramSection E.11 Pollution Prevention/Good HousekeepingSection E.12 Post-ConstructionSection E.13 MonitoringSection E.14 Program EffectivenessSection E.15 Compliance with Implementation Provisions <p>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 best management practices to control methylmercury discharges in storm water. During this period, the MS4 permittees listed in this section 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.</p> <p>3. The MS4 permittees listed above shall implement the Delta Mercury Exposure Reduction Program (see <i>Water Quality Control Plan for the Sacramento River and San Joaquin River Basins, Chapter IV</i>). This requirement may be met by ongoing participation in the collective Mercury Exposure Reduction Program work plan, dated October 2013.</p> <p>Compliance with Implementation Provisions:</p>	County of Yolo (Yolo Bypass subarea)	0.083
County of Yolo (Yolo Bypass subarea)	0.083				

ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 5: Central Valley Regional Water Board			
	<u>Delta TMDL Methylmercury (Continued)</u>		<p>1. <u>The MS4 permittees listed in revised Attachment G under this TMDL shall document compliance with erosion and sediment control requirements, including a discussion of effectiveness of BMPs and associated measurable goals in each Annual Report. Each subsequent year (years two through five), permittees shall complete and submit the Program Effectiveness Assessment Improvement Plan (PEAIP) as specified in Section E.14. of the Permit.</u></p> <p>2. <u>As specified in section E.15.d, the MS4 permittees listed in revised Attachment G under this TMDL shall document implementation of any methylmercury controls or best management practices in their Annual Reports.</u></p> <p><u>Monitoring</u> <u>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 October 2022, whichever date occurs first.</u></p> <p>1. <u>The MS4 permittees listed above shall begin monitoring methylmercury in storm water discharges to assess compliance with the TMDL allocations. Within one year of the effective date of Attachment G, the MS4 permittees shall submit a plan, for 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 the main permit.</u></p> <p>2. <u>The MS4 permittees may participate in the Delta regional monitoring program (currently under development) in lieu of individual mercury or methylmercury monitoring through the MS4 permit.</u></p> <p>3. <u>Progress toward compliance with the waste load allocations in Attachment G shall be documented in the annual report by monitoring methylmercury loads at the compliance points 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 <i>Water Quality Control Plan for the Sacramento River and San Joaquin River Basins, Chapter IV</i>) provides guidance for the calculation of methylmercury loading from urban areas and determination of compliance.</u></p> <p>Implement BMPs to control erosion and sediment discharges with the goal of reducing mercury discharges.</p> <p>Compliance with implementation provisions: Ongoing</p>
	Clear Lake TMDL Nutrients	County of Lake	<p>Clear Lake</p> <p>Purpose of Provisions: The purpose of these provisions is to implement the requirements of the Clear Lake Nutrient Control Program.</p>

ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 5: Central Valley Regional Water Board			
<p>Effective Date: September 21, 2007</p> <p>BPA: Chapter IV-37.04</p> <p>Resolution No.: R5-2006-0060</p> <p><u>Clear Lake TMDL</u> <u>Nutrients</u> <u>(Continued)</u></p>	<p>City of Clearlake</p> <p>City of Lakeport</p>		<p>Waste Load Allocations: County of Lake, City of Clearlake and City of Lakeport combined 2,000 kg phosphorus/yr</p> <p>Provisions for Implementing the Control Program: <u>The MS4 permittees listed in Attachment G under this TMDL shall implement best management practices (BMPs) to control erosion and sediment discharges. This will be implemented through compliance with the following Phase II Small MS4 Permit requirements:</u></p> <ul style="list-style-type: none"> • <u>Discharge Prohibitions B.4</u> • <u>Section E.6.a. Legal Authority</u> • <u>Section E.9. Illicit Discharge Detection and Elimination</u> • <u>Section E.10. Construction Site Storm Water Runoff Control Program</u> • <u>Section E.11. Pollution Prevention/Good Housekeeping</u> • <u>Section E.12. Post-Construction</u> • <u>Section E.13. Monitoring</u> • <u>Section E.14. Program Effectiveness</u> • <u>Section E.15 Compliance with Implementation Provisions</u> <p>Compliance with Implementation Provisions: <u>The MS4 permittees shall document implementation of erosion and sediment BMPs in their Annual Reports as specified in Section E.15.d of the Permit. Each Annual Report shall include documentation of compliance with the above Permit requirements and a discussion of the effectiveness of the erosion and sediment BMPs and their associated measurable goals. Each subsequent year (years two through five), permittees shall complete and submit the Program Effectiveness Assessment Improvement Plan (PEAIP) as specified in Section E.14 of the Permit.</u></p> <p>Monitoring</p> <ol style="list-style-type: none"> <u>1. Within six months of approval of the revised Attachment G, each MS4 permittee shall submit individual monitoring and reporting plans or the permittees can collectively submit a single monitoring plan, for Executive Officer approval. The submitted plans shall enable the Regional Board to evaluate the MS4 Permittee's progress towards compliance with the waste load allocation. The plans shall be representative of the respective MS4 service area.</u> <u>2. Progress toward compliance with the waste load allocations shall be documented in the Annual Report.</u> <p>Storm water permittees will work with staff to develop and implement a plan to collect the information needed to determine what factors are important in controlling nuisance blooms and to recommend what control strategy should be implemented. Plan was submitted in 2008.</p>

ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 5: Central Valley Regional Water Board			
			Deadline for Compliance with Waste Load Allocations: June 2017

ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Region 6: Lahontan Regional Water Board			
<p>Middle Truckee River Watershed, Placer, Nevada and Sierra Counties <i>Sediment</i></p> <p>Effective Date: May 14, 2008</p> <p>BPA: Section 4.13</p> <p>Resolution No.: R6T-2008-0019</p>	<p>City of Truckee</p> <p>County of Placer</p>	<p>Truckee River</p>	<p>Purpose of Provisions: The purpose of these provisions is to implement the requirements of the Middle Truckee River Watershed TMDL.</p> <p>Urban Areas Wasteload Allocations: 4,936 tons per year of total suspended sediment load.</p> <p>Non-urban Wasteload Allocations: 35,392 tons per year of total suspended sediment load.</p> <p>Provisions for Implementing the Control Program:</p> <ol style="list-style-type: none"> 1. Road sand application best management practices (BMPs) and recovery tracking - Road sand is applied using BMPs and recovered to the maximum extent practicable. <u>Amounts of road abrasives and de-icing agents applied and recovered must be monitored and reported annually.</u> 2. Dirt roads maintained or decommissioned - Identified dirt roads with inadequate erosion control structures are rehabilitated and maintained, or decommissioned. 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 are restored or storm water BMPs are implemented to prevent erosion and sedimentation to surface waters. <p>Compliance with waste load allocations: <u>T</u>target of 25 milligrams per liter, or less, of suspended sediment is estimated for 2028 (i.e., 20 years after the adoption of the TMDL in 2008).</p>

ATTACHMENT G – Region Specific Requirements
Regional Water Board Approved TMDLs where urban runoff is listed as a source

<u>TMDL</u> <u>Effective Date/BPA/Res. No.</u>	<u>Municipality</u>	<u>Impaired Water Body</u>	<u>Deliverables/Actions Required/Waste Load Allocations</u>
Region 8: Santa Ana Regional Water Board			
<u>San Diego Creek/Newport Bay Watershed</u> <u>Nutrients</u> <u>Effective date:</u> <u>April 1999</u> <u>Resolution No.:</u> <u>98-100</u>	<u>University of California, Irvine</u>	<u>San Diego Creek, Upper Newport Bay, Lower Newport Bay</u>	<u>Allocations:</u> Nitrogen: 2,307 lbs (summer), 2165 lbs (winter); Phosphorus 44 lbs <u>Deliverables/Actions:</u> Develop nutrient management plan that includes proposed method of evaluating effectiveness of control actions implemented, and compliance with waste load allocations. <u>Requirements for all parties:</u> Submit method of compliance within one year of incorporation of Attachment G into Phase II MS4 permit.
	<u>Orange County Fairgrounds</u>	<u>Upper Newport Bay, Lower Newport Bay</u>	<u>Allocations:</u> Nitrogen: 235 lbs (summer), 220 lbs (winter); Phosphorus 5 lbs; <u>Deliverables/Actions:</u> Develop nutrient management plan that includes proposed method of evaluating effectiveness of control actions implemented, and compliance with waste load allocations <u>Requirements for all parties:</u> Submit method of compliance within one year of incorporation of Attachment G into Phase II MS4 permit.
<u>San Diego Creek and Newport Bay</u> <u>Sediment</u> <u>Effective date:</u> <u>April 1999</u> <u>Resolution No.:</u> <u>98-101</u>	<u>University of California, Irvine</u>	<u>San Diego Creek, Upper Newport Bay, Lower Newport Bay</u>	<u>Allocations:</u> Sediment 37 tons <u>Deliverables/Actions:</u> Propose method to evaluate compliance with allocation <u>Requirements for all parties:</u> Submit method of compliance within one year of incorporation of Attachment G into Phase II MS4 permit.

ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

<u>TMDL</u> Effective Date/BPA/Res. No.	<u>Municipality</u>	<u>Impaired Water Body</u>	<u>Deliverables/Actions Required/Waste Load Allocations</u>
Region 8: Santa Ana Regional Water Board			
<u>San Diego Creek and Newport Bay</u> <u>Sediment</u> <u>(Continued)</u>	<u>Orange County Fairgrounds</u>	<u>Upper Newport Bay, Lower Newport Bay</u>	<p><u>Allocations:</u> Sediment 4 tons</p> <p><u>Deliverables/Actions:</u> Propose method to evaluate compliance with allocation</p> <p><u>Requirements for all parties:</u> Submit method of compliance within one year of incorporation of Attachment G into Phase II MS4 permit.</p>
<u>San Diego Creek, Upper and Lower Newport Bay</u> <u>Organochlorine Compounds</u> <u>Effective date:</u> <u>July 2013</u> <u>Resolution No.:</u> <u>2011-0037</u>	<u>University of California, Irvine</u> <u>Orange County Fairgrounds</u>	<u>San Diego Creek, Upper Newport Bay, Lower Newport Bay</u>	<p><u>Allocations:</u> None</p> <p><u>Deliverables/Actions:</u> Per Small MS4 Monitoring Flow Chart, San Diego Creek, Upper Newport Bay, Lower Newport Bay are waters impaired by organochlorine compounds. Consult with Regional Board staff to determine CWA 303(d) requirements.</p> <p><u>Requirements for all parties:</u> Submit method of compliance within one year of incorporation of Attachment G into Phase II MS4 permit.</p>
<u>Newport Bay</u> <u>Fecal Coliform</u> <u>Effective date:</u> <u>April 1999</u> <u>Resolution No.:</u> <u>99-10</u>	<u>University of California, Irvine</u> <u>Orange County Fairgrounds</u>	<u>Upper Newport Bay, Lower Newport Bay</u>	<p><u>Allocations:</u> Fecal coliform WLAs for urban runoff: 5sample/30d geomean < 200 organisms/100mL, and <10% samples exceed 400 organisms/100mL in any 30d period</p> <p><u>Deliverables/Actions:</u> Propose method to evaluate compliance with allocation</p> <p><u>Requirements for all parties:</u> Submit method of compliance within one year of incorporation of Attachment G into Phase II MS4 permit.</p>

ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

<u>TMDL</u> Effective Date/BPA/Res. No.	<u>Municipality</u>	<u>Impaired Water Body</u>	<u>Deliverables/Actions Required/Waste Load Allocations</u>
Region 8: Santa Ana Regional Water Board			
<u>Lake Elsinore/Canyon Lake</u> <u>Nutrients</u> <u>Resolution No.:</u> R8-2004-0037 <u>Effective date:</u> July 26, 2005	March ARB	<u>Lake Elsinore,</u> <u>Canyon Lake</u>	<u>Lake Elsinore/Canyon Lake Nutrient TMDL Joint Responsibility Option</u> a. <u>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, remain a Task Force member and contribute the appropriate fees as specified by the Task Force.</u> b. <u>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. This decision must be approved/adopted by the State Board. March ARB will then be required to conduct the following activities:</u> 1. <u>Within 30 days of such notification, submit a proposed update of the March ARB SWPPP to address nutrient discharges;</u> 2. <u>Within 30 days of such notification, submit a proposed March ARB specific nutrient monitoring program. This monitoring program must be consistent with the existing Lake Elsinore/Canyon Lake TMDL Task Force monitoring program;</u> 3. <u>Within 60 days of such notification, submit a proposed water quality monitoring program to evaluate the impairment status of Lake Elsinore and Canyon Lake.</u> 4. <u>Submit an annual report by August 15th of each year</u>
<u>Middle Santa Ana River</u> <u>Bacterial Indicator</u> <u>Effective date:</u> September 1, 2006 <u>Resolution No.:</u> R8-2005-0001	<u>CA Institute for Men</u> <u>CA Institute for Women</u> <u>CA Rehab Center</u> <u>University of California, Riverside</u>	<u>Santa Ana River,</u> <u>Reach 3, Chino Creek, Mill Creek,</u> <u>Prado Park Lake</u>	<u>Total Urban WLA –</u> <u>Dry Season (April 1 through October 31) to be achieved by 12/31/2015:</u> <u>E. coli</u> <u>5–sample/30–day Logarithmic Mean less than 113 organisms/ 100mL, and not more than 10% of the samples exceed 212 organisms/100mL for any 30–day period.</u> <u>Wet Season (November 1 through March 31) to be achieved by 12/31/2025:</u> <u>E. coli</u> <u>5–sample/30–day Logarithmic Mean less than 113 organisms/ 100mL, and not more than 10% of the samples exceed 212 organisms/100mL for any 30–day period.</u> ----- <u>Requirements for all parties</u> 1. <u>Monitoring Program: Within six months of incorporation of Attachment G into Phase II MS4 permit, submit for Regional Board approval a watershed-wide compliance monitoring</u>

ATTACHMENT G – Region Specific Requirements

Regional Water Board Approved TMDLs where urban runoff is listed as a source

<u>TMDL</u> Effective Date/BPA/Res. No.	<u>Municipality</u>	<u>Impaired Water Body</u>	<u>Deliverables/Actions Required/Waste Load Allocations</u>
Region 8: Santa Ana Regional Water Board			
<u>Middle Santa Ana River</u> <u>Bacterial Indicator</u> (Continued)	Cal Poly Pomona		<p>and facility specific bacterial indicator monitoring program that is consistent with the existing approved stakeholder monitoring program. Facility may also participate in stakeholder group monitoring program.</p> <ol style="list-style-type: none"> 2. Dry Season Bacterial Indicator Reduction Plan - Within six months of incorporation of Attachment G into Phase II MS4 permit, develop a facility specific Bacterial Reduction Plan that details the plan and schedule for achieving the Dry Season Bacterial Indicator WLA by December 31, 2015. 3. Wet Season Bacterial Indicator Reduction Plan – by January 31, 2018, 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. <p>The Dry Season and Wet Season Bacterial Indicator Reduction Plans should include the following:</p> <ol style="list-style-type: none"> 1. The specific 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. 3. The technical documentation used to conclude that the Bacterial Indicator Reduction Plan, once fully implemented, is expected to achieve compliance with either the dry season or wet season urban wasteload allocation for indicator bacteria by the specified compliance date. 4. A detailed schedule for implementing the Bacterial Indicator Reduction Plan. The schedule must identify discrete 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.

ATTACHMENT G – Region Specific Requirements
Regional Water Board Approved TMDLs where urban runoff is listed as a source

TMDL	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations
Effective Date/BPA/Res. No.			
Region 9: San Diego Regional Water Board			

ATTACHMENT G – Region Specific Requirements
Regional Water Board Approved TMDLs where urban runoff is listed as a source

<div>Chollas Creek</div> <div>Dissolved Copper, Lead, and Zinc</div> <div>Effective Date: October 22, 2008</div> <div>Resolution No. R9-2007-0043</div>	<div>City of San Diego</div> <div>City of Lemon Grove</div> <div>City of La Mesa</div> <div>County of San Diego</div>	<div>Chollas Creek</div>	<div>WLA</div> <div>WLA for point sources is concentration based, equals to 90% of Numeric Target value (generated from the CTR equations) after applying 10% of Margin of Safety.</div> <div>TMDLs = WLAs = CTR WQOs * 0.9</div> <div>Wasteload Allocations for dissolved copper, lead, and zinc</div> <table><tr><td>Metal</td><td>WLA for Acute Conditions – One Hour Average = Loading Capacity* MOS</td><td>WLA for Chronic Conditions – Four Day Average = Loading Capacity*MOS</td></tr><tr><td>Copper</td><td>$(0.96) * \{e^{[0.9422 * \ln(\text{hardness}) - 1.700]}\} * 0.9$</td><td>$(0.96) * \{e^{[0.8545 * \ln(\text{hardness}) - 1.702]}\} * 0.9$</td></tr><tr><td>Lead</td><td>$[1.46203 - 0.145712 * \ln(\text{hardness})] * \{e^{[1.273 * \ln(\text{hardness}) - 1.460]}\} * 0.9$</td><td>$[1.46203 - 0.145712 * \ln(\text{hardness})] * \{e^{[1.273 * \ln(\text{hardness}) - 1.705]}\} * 0.9$</td></tr><tr><td>Zinc</td><td>$(0.978) * \{e^{[0.8473 * \ln(\text{hardness}) + 0.884]}\} * 0.9$</td><td>$(0.986) * \{e^{[0.8473 * \ln(\text{hardness}) + 0.884]}\} * 0.9$</td></tr></table> <div>WLAs are regulated through San Diego Municipal Storm Water Permit (MS4 Permit) under Order No. R9-2007-0001. The municipal Copermittees regulated by this permit that have jurisdiction in the Chollas Creek watershed are the City of San Diego, the City of Lemon Grove, the City of La Mesa, County of San Diego, and the San Diego Unified Port District. These municipal Copermittees have responsibility for virtually all discharges to and from the municipal storm water conveyance system in the watershed through mechanisms such as enforcing existing or adopting new local ordinances, implementing waste load reduction plans and conducting public outreach/education programs.</div> <div>Over a 20 year compliance period:</div>	Metal	WLA for Acute Conditions – One Hour Average = Loading Capacity* MOS	WLA for Chronic Conditions – Four Day Average = Loading Capacity*MOS	Copper	$(0.96) * \{e^{[0.9422 * \ln(\text{hardness}) - 1.700]}\} * 0.9$	$(0.96) * \{e^{[0.8545 * \ln(\text{hardness}) - 1.702]}\} * 0.9$	Lead	$[1.46203 - 0.145712 * \ln(\text{hardness})] * \{e^{[1.273 * \ln(\text{hardness}) - 1.460]}\} * 0.9$	$[1.46203 - 0.145712 * \ln(\text{hardness})] * \{e^{[1.273 * \ln(\text{hardness}) - 1.705]}\} * 0.9$	Zinc	$(0.978) * \{e^{[0.8473 * \ln(\text{hardness}) + 0.884]}\} * 0.9$	$(0.986) * \{e^{[0.8473 * \ln(\text{hardness}) + 0.884]}\} * 0.9$
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TMDL	Effective Date/BPA/Res. No.	Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations						
Region 9: San Diego Regional Water Board										
Bacteria Project I—Twenty Beaches and Creeks in the San Diego Region (Including Tecolote Creek) <i>Indicator Bacteria</i> Effective Date: April 4, 2011 Resolution No: R9-2010-0001				Waste Load Allocations for Municipal MS4						
				Watershed	Fecal Coliform WLA (Billion MPN/year)		Enterococcus WLA (Billion MPN/year)		Total Coliform WLA (Billion MPN/year)	
					Wet Weather	Dry Weather	Wet Weather	Dry Weather	Wet Weather	Dry Weather
				San Joaquin Hills / Laguna Hills HSAs (901.11 and 901.12)	37,167	227	66,417	40	880,652	1,134
				Aliso HAS (901.13)	477,069	242	735,490	40	8,923,264	1,208
				Dana Point HAS ((01.14)	152,446	92	210,528	16	3,404,008	462
				Lower San Juan HAS (901.27)	1,156,419	1,665	1,385,094	275	16,093,160	8,342
2013-0001-DWQ 201383 Informal Draft of Proposed Revisions circulated June 19, 2015 February 5,										

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TMDL		Municipality	Impaired Water Body	Deliverables/Actions Required/Waste Load Allocations						
Effective Date/BPA/Res. No.										
Region 9: San Diego Regional Water Board										
				San Clemente HA (901.30)	192,653	192	295,668	33	3,477,739	958
				San Luis Rey HU (901.00)	914,926	1,058	1,300,235	185	14,373,954	5,289
				San Marcos HA (904.50)	6,558	26	23,774	5	298,430	129
				San Dieguito HU (905.50)	798,175	1,293	1,763,603	226	16,660,538	6,468
				Miramar Reservoir HA (906.10)	6,703	7	8,109	4	171,436	36
				Scripps HA (906.30)	101,253	119	232,035	21	3,447,764	594
				Tecolote HA (906.5)	126,806	234	471,211	39	5,136,598	1,171
				Mission San Diego/Santee HSAs (907.11 and 907.12)	221,117	1,506	890,617	248	10,790,520	7,529
				Chollas HAS (908.22)	252,479	398	802,918	66	9,880,784	1,991
				Over a 10+ year compliance period						

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Region 9: San Diego Regional Water Board				
Bacteria Project I – Twenty Beaches and Creeks in the San Diego Region (Including Tecolote Creek) (continued)				Years Exceedance Frequency Reduction (%)* P1 P2 P3 5 50 6 50 7 50 10+ 100 100 100 P1 = Priority 1 P2 = Priority 2 P3 = Priority 3 *For both dry & wet weathers

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Preliminary Draft