

**CONDITIONAL WAIVER OF WASTE DISCHARGE REQUIREMENTS
FOR DISCHARGES FROM IRRIGATED AGRICULTURAL LANDS
ORDER NO. R4-2016 – XXXX**

APPENDIX 5

WATER QUALITY BENCHMARKS BASED UPON TMDL LOAD ALLOCATIONS

Calleguas Creek Watershed and Mugu Lagoon OC Pesticides & PCBs TMDL							Compliance Date																																																														
<p>Compliance with interim and final sediment based load allocations (LAs) is measured as an in-stream annual average at the base of each subwatershed.</p> <p>Interim Sediment LAs (ng/g)</p> <table border="1"> <thead> <tr> <th rowspan="2">Constituent</th> <th colspan="6">Subwatershed</th> </tr> <tr> <th>Mugu Lagoon¹</th> <th>Calleguas Creek</th> <th>Revolon Slough</th> <th>Arroyo Las Posas</th> <th>Arroyo Simi</th> <th>Conejo Creek</th> </tr> </thead> <tbody> <tr> <td>Chlordane</td> <td>25.0</td> <td>17.0</td> <td>48.0</td> <td>3.3</td> <td>3.3</td> <td>3.4</td> </tr> <tr> <td>4,4-DDD</td> <td>69.0</td> <td>66.0</td> <td>400.0</td> <td>290.0</td> <td>14.0</td> <td>5.3</td> </tr> <tr> <td>4,4- DDE</td> <td>300.0</td> <td>470.0</td> <td>1,600.0</td> <td>950.0</td> <td>170.0</td> <td>20.0</td> </tr> <tr> <td>4,4-DDT</td> <td>39.0</td> <td>110.0</td> <td>690.0</td> <td>670.0</td> <td>25.0</td> <td>2.0</td> </tr> <tr> <td>Dieldrin</td> <td>19.0</td> <td>3.0</td> <td>5.7</td> <td>1.1</td> <td>1.1</td> <td>3.0</td> </tr> <tr> <td>PCBs</td> <td>180.0</td> <td>3,800.0</td> <td>7,600.0</td> <td>25,700.0</td> <td>25,700.0</td> <td>3,800.0</td> </tr> <tr> <td>Toxaphene</td> <td>22,900.0</td> <td>260.0</td> <td>790.0</td> <td>230.0</td> <td>230.0</td> <td>260.0</td> </tr> </tbody> </table> <p>¹The Mugu Lagoon subwatershed includes Duck Pond/Agricultural Drain/Mugu/Oxnard Drain #2.</p>							Constituent	Subwatershed						Mugu Lagoon ¹	Calleguas Creek	Revolon Slough	Arroyo Las Posas	Arroyo Simi	Conejo Creek	Chlordane	25.0	17.0	48.0	3.3	3.3	3.4	4,4-DDD	69.0	66.0	400.0	290.0	14.0	5.3	4,4- DDE	300.0	470.0	1,600.0	950.0	170.0	20.0	4,4-DDT	39.0	110.0	690.0	670.0	25.0	2.0	Dieldrin	19.0	3.0	5.7	1.1	1.1	3.0	PCBs	180.0	3,800.0	7,600.0	25,700.0	25,700.0	3,800.0	Toxaphene	22,900.0	260.0	790.0	230.0	230.0	260.0	<p>March 24, 2006</p>
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Calleguas Creek Watershed and Mugu Lagoon Toxicity, Chlorpyrifos, and Diazinon TMDL	Compliance Date																
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Calleguas Creek Watershed Boron, Chloride, Sulfate and TDS (Salts) TMDL		Compliance Date																																			
<p style="text-align: center;">Interim Dry Weather Load Allocations</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Constituent</th> <th>Interim Limit (mg/L)</th> </tr> </thead> <tbody> <tr> <td>Boron Total</td> <td>1.8</td> </tr> <tr> <td>Chloride Total</td> <td>230</td> </tr> <tr> <td>Sulfate Total</td> <td>1962</td> </tr> <tr> <td>TDS Total</td> <td>3995</td> </tr> </tbody> </table> <p>Interim dry weather load allocations are measured as in-stream monthly averages at the based of each subwatershed, except for chloride which is measured as an instantaneous maximum.</p> <p>Dry weather LAs apply when flow rates are below the 86th percentile and there was no measurable precipitation in the previous 24 hour period.</p> <p>The 86th percentile flow rate shall be calculated based on flow in the hydrologic year (Oct. 1st – Sept. 30th) that the sample was collected.</p>		Constituent	Interim Limit (mg/L)	Boron Total	1.8	Chloride Total	230	Sulfate Total	1962	TDS Total	3995	Dec. 2, 2008																									
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Calleguas Creek Watershed and Mugu Lagoon Metals and Selenium TMDL	Compliance Date																																								
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Calleguas Creek Watershed and Mugu Lagoon Metals and Selenium TMDL	Compliance Date
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Dry Weather - Final Load allocations (lbs/day) for total recoverable metals

Constituent	Calleguas Creek		
	Low Flow	Avg. Flow	Elevated Flow
Copper*	$0.07 \times (WER - 0.03)$	$0.12 \times (WER - 0.02)$	$0.31 \times (WER - 0.05)$
Nickel	0.420	0.260	0.970
Selenium	--	--	--

* If site-specific WERs are approved by the Regional Board, TMDL load allocations shall be implemented in accordance with the approved WERs using the equations set forth above.

Calleguas Creek	
Flow Category	Flow Rate (cfs)
Low	0 - 5
Average	5 - 21
Elevated	21 - 30

Constituent	Revolon Slough		
	Low Flow	Avg. Flow	Elevated Flow
Copper*	$0.07 \times (WER - 0.03)$	$0.14 \times (WER - 0.07)$	$0.35 \times (WER - 0.07)$
Nickel	0.390	0.690	1.600
Selenium	0.008	0.007	0.018

* If site-specific WERs are approved by the Regional Board, TMDL load allocations shall be implemented in accordance with the approved WERs using the equations set forth above.

Revolon Slough	
Flow Category	Flow Rate (cfs)
Low	0 - 10
Average	10 - 17
Elevated	17 - 22

March 26, 2022

Wet Weather Final Load Allocations (lbs/day) for total recoverable metals

Constituent	Calleguas Creek	Revolon Slough
Copper*	$(0.00017 \times Q^2 \times 0.01 \times Q - 0.05) \times WER - 0.02$	$(0.00123 \times Q^2 + 0.0034 \times Q) \times WER$
Nickel	$0.014 \times Q^2 + 0.82 \times Q$	$0.027 \times Q^2 + 0.47 \times Q$
Selenium	--	$0.1 \times Q^2 + 1.8 \times Q$

* If site-specific WERs are approved by the Regional Board, TMDL load allocations shall be implemented in accordance with the approved WERs using the equations set forth above.
 Q = Daily storm volume

Calleguas Creek Watershed and Mugu Lagoon Metals and Selenium TMDL			Compliance Date															
<p>Final Load allocations for Mercury in Suspended Sediment (lbs/year)</p> <table border="1"> <thead> <tr> <th></th> <th>Calleguas Creek</th> <th>Revolon Slough</th> </tr> <tr> <th>Flow Range MGY</th> <th>Agriculture</th> <th>Agriculture</th> </tr> </thead> <tbody> <tr> <td>0-15,000</td> <td>0.5</td> <td>0.2</td> </tr> <tr> <td>15,000-25,000</td> <td>1.9</td> <td>0.8</td> </tr> <tr> <td>Above 25,000</td> <td>11.2</td> <td>2.2</td> </tr> </tbody> </table>				Calleguas Creek	Revolon Slough	Flow Range MGY	Agriculture	Agriculture	0-15,000	0.5	0.2	15,000-25,000	1.9	0.8	Above 25,000	11.2	2.2	<p>March 26, 2022</p>
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Calleguas Creek Nitrogen Compounds and Related Effects TMDL	Compliance Date		
<table border="1"> <thead> <tr> <th>Nitrate-N + Nitrite-N (mg/L)</th> </tr> </thead> <tbody> <tr> <td>9.0</td> </tr> </tbody> </table>	Nitrate-N + Nitrite-N (mg/L)	9.0	<p>July 16, 2010</p>
Nitrate-N + Nitrite-N (mg/L)			
9.0			

Revolon Slough and Beardsley Wash Trash TMDL	Compliance Date
<p>LAs are zero trash. Dischargers may achieve compliance with the LAs by implementing a minimum frequency of assessment and collection/best management practice (MFAC/BMP) program. By March 6, 2010, agricultural dischargers must demonstrate full compliance and attainment of the zero trash target's requirement that trash is not accumulating in deleterious amounts between the required trash assessment and collection events.</p>	<p>March 6, 2010</p>

Upper Santa Clara River Chloride TMDL, Revisions		Compliance Date				
<table border="1"> <thead> <tr> <th>Reach</th> <th>Chloride LA (mg/L)</th> </tr> </thead> <tbody> <tr> <td>4B, 5, and 6</td> <td>100</td> </tr> </tbody> </table>		Reach	Chloride LA (mg/L)	4B, 5, and 6	100	April 28, 2015
Reach	Chloride LA (mg/L)					
4B, 5, and 6	100					

Santa Clara River Nitrogen Compounds TMDL		Compliance Date						
<table border="1"> <thead> <tr> <th>Reach</th> <th>NH₃-N + NO₂-N + NO₃-N (mg-N/L)</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>8.5</td> </tr> <tr> <td>Mint Canyon Reach 1 Wheeler Canyon/Todd Barranca Brown Barranca/Long Canyon Other Santa Clara River Reaches</td> <td>10</td> </tr> </tbody> </table>		Reach	NH ₃ -N + NO ₂ -N + NO ₃ -N (mg-N/L)	7	8.5	Mint Canyon Reach 1 Wheeler Canyon/Todd Barranca Brown Barranca/Long Canyon Other Santa Clara River Reaches	10	March 23, 2004
Reach	NH ₃ -N + NO ₂ -N + NO ₃ -N (mg-N/L)							
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Mint Canyon Reach 1 Wheeler Canyon/Todd Barranca Brown Barranca/Long Canyon Other Santa Clara River Reaches	10							

Malibu Creek Watershed Nutrients TMDL			Compliance Date						
<table border="1"> <thead> <tr> <th>Season</th> <th>Total Nitrogen (lbs/day)</th> <th>Total Phosphorus (lbs/day)</th> </tr> </thead> <tbody> <tr> <td>Summer (April 15 – November 15)</td> <td>3</td> <td>0.2</td> </tr> </tbody> </table>			Season	Total Nitrogen (lbs/day)	Total Phosphorus (lbs/day)	Summer (April 15 – November 15)	3	0.2	March 21, 2003
Season	Total Nitrogen (lbs/day)	Total Phosphorus (lbs/day)							
Summer (April 15 – November 15)	3	0.2							
<table border="1"> <thead> <tr> <th>Season</th> <th>Nitrogen (mg/L) (nitrate-N + nitrite-N)</th> </tr> </thead> <tbody> <tr> <td>Winter (November 16 – April 14)</td> <td>8</td> </tr> </tbody> </table>			Season	Nitrogen (mg/L) (nitrate-N + nitrite-N)	Winter (November 16 – April 14)	8			
Season	Nitrogen (mg/L) (nitrate-N + nitrite-N)								
Winter (November 16 – April 14)	8								

Ventura River Estuary Trash TMDL	Compliance Date
<p>LAs are zero trash. Dischargers may achieve compliance with the LAs by implementing a minimum frequency of assessment and collection/best management practice (MFAC/BMP) program. By March 6, 2010, agricultural dischargers must demonstrate full compliance and attainment of the zero trash target's requirement that trash is not accumulating in deleterious amounts between the required trash assessment and collection events.</p>	March 6, 2010

The Santa Clara River Estuary Toxaphene TMDL			Compliance Date
			October 7, 2010
Reach	Toxaphene Fish Tissue Target	Toxaphene Allocation for Concentration in Suspended Sediment	
Santa Clara River Estuary	6.1 (µg/kg)	0.1 (µg/kg)	
<p>Within ten years of the compliance date, toxaphene concentrations in fish tissue shall be attenuating such that it appears that numeric targets will be achieved within 15 years.</p>			

McGrath Lake PCBs, Pesticides and Sediment Toxicity TMDL			Compliance Date
			June 30, 2021
Pollutant	Water Column Load Allocation (µg/L)	Load Allocation for Concentration in Suspended Sediment (µg/dry kg)	
Chlordane	0.00059	0.5	
Dieldrin	0.00014	0.02	
4,4'-DDT	0.00059	1	
4,4'-DDE	0.00059	2.2	
4,4'-DDD	0.00084	2	
Total DDT	--	1.58	
Total PCBs	0.00007	22.7	

Oxnard Drain No. 3 Pesticides, PCBs, and Sediment Toxicity TMDL				Compliance Date																																												
<table border="1"> <thead> <tr> <th>Constituents</th> <th>Water Allocations, chronic (ug/L)</th> <th>Sediment ^{1,2}</th> <th>Alternate Sediment ^{1,3}</th> </tr> </thead> <tbody> <tr> <td>Bifenthrin⁴</td> <td>0.0006</td> <td>-</td> <td>-</td> </tr> <tr> <td>Chlordane, total</td> <td>0.00059</td> <td>0.5</td> <td>3.3</td> </tr> <tr> <td>Chlorpyrifos⁴</td> <td>0.0056</td> <td>-</td> <td>-</td> </tr> <tr> <td>4,4'-DDT</td> <td>0.00059</td> <td>1</td> <td>0.3</td> </tr> <tr> <td>4,4'-DDE</td> <td>0.00059</td> <td>2.2</td> <td>2.2</td> </tr> <tr> <td>4,4'-DDD</td> <td>0.00084</td> <td>2</td> <td>2</td> </tr> <tr> <td>Dieldrin</td> <td>0.00014</td> <td>0.02</td> <td>4.3</td> </tr> <tr> <td>PCBs, total</td> <td>0.00017</td> <td>22.7</td> <td>180</td> </tr> <tr> <td>Sediment Toxicity</td> <td>-</td> <td>No significant chronic sediment toxicity (See below and Section 3 for more details)</td> <td>-</td> </tr> <tr> <td>Toxaphene</td> <td>0.0002</td> <td>0.1</td> <td>360</td> </tr> </tbody> </table>				Constituents	Water Allocations, chronic (ug/L)	Sediment ^{1,2}	Alternate Sediment ^{1,3}	Bifenthrin ⁴	0.0006	-	-	Chlordane, total	0.00059	0.5	3.3	Chlorpyrifos ⁴	0.0056	-	-	4,4'-DDT	0.00059	1	0.3	4,4'-DDE	0.00059	2.2	2.2	4,4'-DDD	0.00084	2	2	Dieldrin	0.00014	0.02	4.3	PCBs, total	0.00017	22.7	180	Sediment Toxicity	-	No significant chronic sediment toxicity (See below and Section 3 for more details)	-	Toxaphene	0.0002	0.1	360	October 6, 2011
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<p>1: Sediment concentrations associated with suspended sediment and Oxnard Drain 3 bottom sediment.</p> <p>2: Sediment allocations apply if there are fish tissue or sediment toxicity exceedances. All sediment allocations are ERLs, except toxaphene. Toxaphene does not have an ERL, so the TEL concentration was selected.</p> <p>3: The alternate sediment allocation applies when the fish tissue target and the sediment toxicity allocation are achieved in Oxnard Drain 3. The alternate sediment allocation concentrations match the Mugu Lagoon TMDL allocations.</p> <p>4: Bifenthrin and chlorpyrifos allocations included to address the sediment toxicity impairment.</p>																																																

Malibu Creek and Lagoon TMDLs for Sedimentation and Nutrients to Address Benthic Community Impairments				Compliance Date								
<table border="1"> <thead> <tr> <th>Total Nitrogen (mg/L) Summer</th> <th>Total Nitrogen (mg/L) Winter</th> <th>Total Phosphorus (mg/L) Summer</th> <th>Total Phosphorus (mg/L) Winter</th> </tr> </thead> <tbody> <tr> <td>0.65</td> <td>1.00</td> <td>0.10</td> <td>0.10</td> </tr> </tbody> </table>				Total Nitrogen (mg/L) Summer	Total Nitrogen (mg/L) Winter	Total Phosphorus (mg/L) Summer	Total Phosphorus (mg/L) Winter	0.65	1.00	0.10	0.10	March 26, 2012
Total Nitrogen (mg/L) Summer	Total Nitrogen (mg/L) Winter	Total Phosphorus (mg/L) Summer	Total Phosphorus (mg/L) Winter									
0.65	1.00	0.10	0.10									

Ventura River Algae TMDL			Compliance Date																								
<p>Dry-weather LAs for Agriculture are expressed as daily loads based on an estimated 331 dry-weather days per year as follows:</p> <table border="1"> <thead> <tr> <th>Reach</th> <th>Total Nitrogen (lb/day)</th> <th>Total Phosphorus (lb/day)</th> </tr> </thead> <tbody> <tr> <td>All Reaches</td> <td>16</td> <td>0.12</td> </tr> </tbody> </table> <p>Wet-weather allocations are as follows:</p> <table border="1"> <thead> <tr> <th>Reach</th> <th>Nitrate-N + Nitrite-N (mg/L)</th> </tr> </thead> <tbody> <tr> <td>Estuary</td> <td>*</td> </tr> <tr> <td>Reach 1</td> <td>*</td> </tr> <tr> <td>Reach 2</td> <td>10</td> </tr> <tr> <td>Cañada Larga</td> <td>10</td> </tr> <tr> <td>Reach 3</td> <td>5</td> </tr> <tr> <td>San Antonio Creek</td> <td>5</td> </tr> <tr> <td>Reach 4</td> <td>5</td> </tr> <tr> <td>Reach 5</td> <td>5</td> </tr> </tbody> </table> <p>To assist in implementation of LAs, area-weighted benchmarks can be applied; if used, they shall be 0.008 lb/day/acre TN and 6.3×10^{-5} lb/acre/day TP.</p>			Reach	Total Nitrogen (lb/day)	Total Phosphorus (lb/day)	All Reaches	16	0.12	Reach	Nitrate-N + Nitrite-N (mg/L)	Estuary	*	Reach 1	*	Reach 2	10	Cañada Larga	10	Reach 3	5	San Antonio Creek	5	Reach 4	5	Reach 5	5	June 28, 2019
Reach	Total Nitrogen (lb/day)	Total Phosphorus (lb/day)																									
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Santa Clara River Bacteria TMDL			Compliance Date																		
<p>Interim Allowable exceedance days:</p> <table border="1"> <thead> <tr> <th>Time Period</th> <th>Santa Clara River Reaches 3, 5, 6, & 7</th> <th>Santa Clara River Estuary</th> </tr> </thead> <tbody> <tr> <td>Dry Weather</td> <td>17 allowable exceedance days of single sample objectives</td> <td>Not Applicable</td> </tr> <tr> <td>Wet Weather</td> <td>61 allowable exceedance days of single sample objectives</td> <td>62 allowable exceedance days of single sample objectives</td> </tr> <tr> <td>Summer Dry Weather (April 1 – October 31)</td> <td>Not Applicable</td> <td>150 allowable exceedance days of single sample objectives</td> </tr> <tr> <th>Time Period</th> <th>Santa Clara River Reaches 3, 5, 6, & 7</th> <th>Santa Clara River Estuary</th> </tr> <tr> <td>Winter Dry Weather (November 1 – March 31)</td> <td>Not Applicable</td> <td>49 allowable exceedance days of single sample objectives</td> </tr> </tbody> </table>			Time Period	Santa Clara River Reaches 3, 5, 6, & 7	Santa Clara River Estuary	Dry Weather	17 allowable exceedance days of single sample objectives	Not Applicable	Wet Weather	61 allowable exceedance days of single sample objectives	62 allowable exceedance days of single sample objectives	Summer Dry Weather (April 1 – October 31)	Not Applicable	150 allowable exceedance days of single sample objectives	Time Period	Santa Clara River Reaches 3, 5, 6, & 7	Santa Clara River Estuary	Winter Dry Weather (November 1 – March 31)	Not Applicable	49 allowable exceedance days of single sample objectives	January 31, 2012
Time Period	Santa Clara River Reaches 3, 5, 6, & 7	Santa Clara River Estuary																			
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Winter Dry Weather (November 1 – March 31)	Not Applicable	49 allowable exceedance days of single sample objectives																			

Final Allowable exceedance days:

Time Period	Santa Clara River Reaches 3, 5, 6, & 7	Santa Clara River Estuary
Dry Weather	5 allowable exceedance days of single sample objectives	Not Applicable
	0 allowable exceedances of geometric mean objectives	
Wet Weather	16 allowable exceedance days of single sample objectives	25 allowable exceedance days of single sample objectives
	0 allowable exceedances of geometric mean objectives	0 allowable exceedances of geometric mean objectives
Summer Dry Weather	Not Applicable	10 allowable exceedance days of single sample objectives
		0 allowable exceedances of geometric mean objectives
Winter Dry Weather (November 1 – March 31)	Not Applicable	12 allowable exceedance days of single sample objectives
		0 allowable exceedances of geometric mean objectives

March 21, 2023
dry weather

March 21, 2029
wet weather

The calculated number of exceedance days assumes that daily sampling is conducted. To determine the number of allowable exceedances for less frequent sampling, a ratio is used.