

**CONDITIONAL WAIVER OF WASTE DISCHARGE REQUIREMENTS  
FOR DISCHARGES FROM IRRIGATED LANDS  
ORDER NO. R4-2010 – XXXX**

**APPENDIX 3**

**WATER QUALITY BENCHMARKS BASED UPON TMDL LOAD ALLOCATIONS  
(Load allocations that apply after the term of the waiver are shaded in grey)**

<b>Calleguas Creek Watershed and Mugu Lagoon OC Pesticides &amp; PCBs TMDL</b>							<b>Compliance Date</b>
Compliance with interim and final sediment based load allocations (LAs) is measured as an in-stream annual average at the base of each subwatershed.							March 24, 2006
<b>Interim Sediment LAs (ng/g)</b>							
<b>Constituent</b>	<b>Subwatershed</b>						
	<b>Mugu Lagoon<sup>1</sup></b>	<b>Calleguas Creek</b>	<b>Revolon Slough</b>	<b>Arroyo Las Posas</b>	<b>Arroyo Simi</b>	<b>Conejo Creek</b>	
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	
<sup>1</sup> The Mugu Lagoon subwatershed includes Duck Pond/Agricultural Drain/Mugu/Oxnard Drain #2.							March 24, 2026
<b>Final Sediment LAs (ng/g)</b>							
<b>Constituent</b>	<b>Subwatershed</b>						
	<b>Mugu Lagoon<sup>1</sup></b>	<b>Calleguas Creek</b>	<b>Revolon Slough</b>	<b>Arroyo Las Posas</b>	<b>Arroyo Simi</b>	<b>Conejo Creek</b>	
Chlordane	3.3	3.3	0.9	3.3	3.3	3.3	
4,4-DDD	2.0	2.0	2.0	2.0	2.0	2.0	
4,4- DDE	2.2	1.4	1.4	1.4	1.4	1.4	
4,4-DDT	0.3	0.3	0.3	0.3	0.3	0.3	
Dieldrin	4.3	0.2	0.1	0.2	0.2	0.2	
PCBs	180.0	120.0	130.0	120.0	120.0	120.0	
Toxaphene	360.0	0.6	1.0	0.6	0.6	0.6	
<sup>1</sup> The Mugu Lagoon subwatershed includes Duck Pond/Agricultural Drain/Mugu/Oxnard Drain #2.							March 24, 2015
<b>Siltation LAs</b> 2,704 tons/yr reduction in sediment yield to Mugu Lagoon. The baseline from which the load reduction will be evaluated will be determined by a special study of this TMDL. The results of this special study are due March 24, 2014.							

<b>Calleguas Creek Watershed and Mugu Lagoon Toxicity, Chlorpyrifos, and Diazinon TMDL</b>	<b>Compliance Date</b>																
<p>Interim Chlorpyrifos Load Allocations (ug/L) apply watershed-wide</p> <table border="1" data-bbox="521 415 911 512"> <thead> <tr> <th>Acute (1hour)</th> <th>Chronic (4 day)</th> </tr> </thead> <tbody> <tr> <td>2.57</td> <td>0.810</td> </tr> </tbody> </table> <p>Interim Diazinon Load Allocations (ug/L) apply watershed-wide</p> <table border="1" data-bbox="492 611 938 701"> <thead> <tr> <th>Acute (1hour)</th> <th>Chronic (4 day)</th> </tr> </thead> <tbody> <tr> <td>0.278</td> <td>0.138</td> </tr> </tbody> </table>	Acute (1hour)	Chronic (4 day)	2.57	0.810	Acute (1hour)	Chronic (4 day)	0.278	0.138	<p>March 24, 2006</p>								
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<p>A load allocation of 1.0 TUc applies watershed-wide.</p>	<p>March 24, 2006</p>																
<p>Final Chlorpyrifos Load Allocations (ug/L)</p> <table border="1" data-bbox="456 974 976 1213"> <thead> <tr> <th>Subwatershed</th> <th>Acute &amp; Chronic</th> </tr> </thead> <tbody> <tr> <td>Arroyo Simi</td> <td>0.014</td> </tr> <tr> <td>Las Posas</td> <td>0.014</td> </tr> <tr> <td>Conejo</td> <td>0.014</td> </tr> <tr> <td>Calleguas</td> <td>0.0133</td> </tr> <tr> <td>Revolon</td> <td>0.0133</td> </tr> <tr> <td>Mugu Lagoon</td> <td>0.014</td> </tr> </tbody> </table> <p>Final Diazinon Load Allocations (ug/L) apply watershed-wide</p> <table border="1" data-bbox="570 1346 862 1413"> <thead> <tr> <th>Acute &amp; Chronic</th> </tr> </thead> <tbody> <tr> <td>0.1</td> </tr> </tbody> </table>	Subwatershed	Acute & Chronic	Arroyo Simi	0.014	Las Posas	0.014	Conejo	0.014	Calleguas	0.0133	Revolon	0.0133	Mugu Lagoon	0.014	Acute & Chronic	0.1	<p>March 24, 2016</p>
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<b>Calleguas Creek Watershed Boron, Chloride, Sulfate and TDS (Salts) TMDL</b>	<b>Compliance Date</b>										
<p>Interim Dry Weather Load Allocations</p> <table border="1" data-bbox="391 1682 1044 1841"> <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>	Constituent	Interim Limit (mg/L)	Boron Total	1.8	Chloride Total	230	Sulfate Total	1962	TDS Total	3995	<p>Dec. 2, 2008</p>
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Boron Total	1.8										
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<b>Calleguas Creek Watershed Boron, Chloride, Sulfate and TDS (Salts) TMDL</b>					<b>Compliance Date</b>
<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 86<sup>th</sup> percentile and there was no measurable precipitation in the previous 24 hour period.</p> <p>The 86<sup>th</sup> percentile flow rate shall be calculated based on flow in the hydrologic year (Oct. 1<sup>st</sup> – Sept. 30<sup>th</sup>) that the sample was collected.</p>					
Final Dry Weather Load Allocations					
					Dec. 23, 2023
<b>Subwatershed</b>	<b>Boron Allocation (lb/day)</b>	<b>Chloride Allocation (lb/day)</b>	<b>TDS Allocation (lb/day)</b>	<b>Sulfate Allocation (lb/day)</b>	
Simi	641	3,631	1,068	4	
Las Posas	2,109	11,952	3,515	N/A	
Conejo	743	4,212	1,239	N/A	
Camarillo	59	336	99	N/A	
Pleasant Valley	305	1,730	509	N/A	
Revolon	7,238	41,015	12,063	48	
<p>Dry weather LAs apply in the receiving water at the base of each subwatershed when flow rates are below the 86<sup>th</sup> percentile and there was no measurable precipitation in the previous 24 hour period.</p> <p>The 86<sup>th</sup> percentile flow rate shall be calculated based on flow in the hydrologic year (Oct. 1<sup>st</sup> – Sept. 30<sup>th</sup>) that the sample was collected.</p>					

Calleguas Creek Watershed and Mugu Lagoon Metals and Selenium TMDL	Compliance Date																																								
<p>Interim Load Allocations for total recoverable metals</p> <table border="1" data-bbox="349 365 1091 598"> <thead> <tr> <th colspan="4">Calleguas and Conejo Creek</th> </tr> <tr> <th>Constituent</th> <th>Dry Daily Maximum (ug/L)</th> <th>Dry Monthly Average (ug/L)</th> <th>Wet Daily Maximum (ug/L)</th> </tr> </thead> <tbody> <tr> <td>Copper</td> <td>24</td> <td>19</td> <td>1390</td> </tr> <tr> <td>Nickel</td> <td>43</td> <td>42</td> <td>--</td> </tr> <tr> <td>Selenium</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table> <table border="1" data-bbox="337 646 1101 869"> <thead> <tr> <th colspan="4">Revolon Slough</th> </tr> <tr> <th>Constituent</th> <th>Dry Daily Maximum (ug/L)</th> <th>Dry Monthly Average (ug/L)</th> <th>Wet Daily Maximum (ug/L)</th> </tr> </thead> <tbody> <tr> <td>Copper</td> <td>24</td> <td>19</td> <td>1390</td> </tr> <tr> <td>Nickel</td> <td>43</td> <td>42</td> <td>--</td> </tr> <tr> <td>Selenium</td> <td>6.7 (c)</td> <td>6 (c)</td> <td>--</td> </tr> </tbody> </table> <p>c – Attainment of interim limits will be evaluated in consideration of background loading data, if available.</p> <p>Dry weather LAs apply to days when flows in the stream are less than the 86<sup>th</sup> percentile flow rate for each subwatershed. Wet weather LAs apply to days when flows in the stream exceed the 86<sup>th</sup> percentile flow rate for each subwatershed.</p> <p>The 86<sup>th</sup> percentile flow rate shall be calculated based on flow in the hydrologic year (Oct. 1<sup>st</sup> – Sept. 30<sup>th</sup>) that the sample was collected.</p>	Calleguas and Conejo Creek				Constituent	Dry Daily Maximum (ug/L)	Dry Monthly Average (ug/L)	Wet Daily Maximum (ug/L)	Copper	24	19	1390	Nickel	43	42	--	Selenium	--	--	--	Revolon Slough				Constituent	Dry Daily Maximum (ug/L)	Dry Monthly Average (ug/L)	Wet Daily Maximum (ug/L)	Copper	24	19	1390	Nickel	43	42	--	Selenium	6.7 (c)	6 (c)	--	<p>March 26, 2007</p>
Calleguas and Conejo Creek																																									
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<p>Interim Load allocations for Mercury in Suspended Sediment (lbs/year)</p> <table border="1" data-bbox="378 1346 1060 1535"> <thead> <tr> <th>Flow Range million gallons/year</th> <th>Calleguas Creek</th> <th>Revolon Slough</th> </tr> </thead> <tbody> <tr> <td>0-15,000</td> <td>3.9</td> <td>2</td> </tr> <tr> <td>15,000-25,000</td> <td>12.6</td> <td>4.8</td> </tr> <tr> <td>Above 25,000</td> <td>77.5</td> <td>12.2</td> </tr> </tbody> </table> <p>Interim load allocations are measured in-stream at the based of Revolon Slough and Calleguas Creek.</p>	Flow Range million gallons/year	Calleguas Creek	Revolon Slough	0-15,000	3.9	2	15,000-25,000	12.6	4.8	Above 25,000	77.5	12.2	<p>March 26, 2007</p>																												
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<b>Calleguas Creek Watershed and Mugu Lagoon Metals and Selenium TMDL</b>	<b>Compliance Date</b>
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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 x (WER - 0.03)	0.12 x (WER - 0.02)	0.31 x (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 x (WER - 0.03)	0.14 x (WER - 0.07)	0.35 x (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

<b>Calleguas Creek Watershed and Mugu Lagoon Metals and Selenium TMDL</b>			<b>Compliance Date</b>															
<p>Final Load allocations for Mercury in Suspended Sediment (lbs/year)</p> <table border="1"> <thead> <tr> <th></th> <th><b>Calleguas Creek</b></th> <th><b>Revolon Slough</b></th> </tr> <tr> <th><b>Flow Range MGY</b></th> <th><b>Agriculture</b></th> <th><b>Agriculture</b></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> <p>Final load allocations are measured in-stream at the based of Revolon Slough and Calleguas Creek.</p>				<b>Calleguas Creek</b>	<b>Revolon Slough</b>	<b>Flow Range MGY</b>	<b>Agriculture</b>	<b>Agriculture</b>	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>
	<b>Calleguas Creek</b>	<b>Revolon Slough</b>																
<b>Flow Range MGY</b>	<b>Agriculture</b>	<b>Agriculture</b>																
0-15,000	0.5	0.2																
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Above 25,000	11.2	2.2																

<b>Calleguas Creek Nitrogen Compounds and Related Effects TMDL</b>		<b>Compliance Date</b>		
<table border="1"> <thead> <tr> <th><b>Nitrate-N + Nitrite-N (mg/L)</b></th> </tr> </thead> <tbody> <tr> <td>9.0</td> </tr> </tbody> </table>		<b>Nitrate-N + Nitrite-N (mg/L)</b>	9.0	<p>July 16, 2010</p>
<b>Nitrate-N + Nitrite-N (mg/L)</b>				
9.0				

<b>Revolon Slough and Beardsley Wash Trash TMDL</b>	<b>Compliance Date</b>
<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 Conditional LA (mg/L)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">6</td> <td>150 (12 month average)</td> </tr> <tr> <td>230 (daily maximum)</td> </tr> <tr> <td rowspan="2">5</td> <td>150 (12 month average)</td> </tr> <tr> <td>230 (daily maximum)</td> </tr> <tr> <td rowspan="2">4B</td> <td>117 (3 month average)</td> </tr> <tr> <td>230 (daily maximum)</td> </tr> </tbody> </table> <p>These are conditional LAs and shall apply only when chloride load reductions and/or chloride export projects are in operation by the Santa Clarita Valley Sanitation District according to the implementation section in Table 7-6.1 of Attachment A to Resolution No. R4-2008-012. If these conditions are not met, LAs are based on existing water quality objectives 100mg/L.</p>		Reach	Chloride Conditional LA (mg/L)	6	150 (12 month average)	230 (daily maximum)	5	150 (12 month average)	230 (daily maximum)	4B	117 (3 month average)	230 (daily maximum)	April 6, 2010
Reach	Chloride Conditional LA (mg/L)												
6	150 (12 month average)												
	230 (daily maximum)												
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	230 (daily maximum)												
4B	117 (3 month average)												
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Santa Clara River Nitrogen Compounds TMDL		Compliance Date						
<table border="1"> <thead> <tr> <th>Reach</th> <th>NH<sub>3</sub>-N + NO<sub>2</sub>-N + NO<sub>3</sub>-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 <sub>3</sub> -N + NO <sub>2</sub> -N + NO <sub>3</sub> -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 <sub>3</sub> -N + NO <sub>2</sub> -N + NO <sub>3</sub> -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							

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> <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	Total Nitrogen (lbs/day)	Total Phosphorus (lbs/day)	Summer (April 15 – November 15)	3	0.2	Season	Nitrogen (mg/L) (nitrate-N + nitrite-N)	Winter (November 16 – April 14)	8	March 21, 2003
Season	Total Nitrogen (lbs/day)	Total Phosphorus (lbs/day)											
Summer (April 15 – November 15)	3	0.2											
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>	<p>March 6, 2010</p>

The Santa Clara River Estuary Toxaphene TMDL				Compliance Date								
<table border="1"> <thead> <tr> <th data-bbox="256 768 509 919">Reach</th> <th data-bbox="509 768 716 919"></th> <th data-bbox="716 768 943 919">Toxaphene Fish Tissue Target</th> <th data-bbox="943 768 1170 919">Toxaphene Allocation for Concentration in Suspended Sediment</th> </tr> </thead> <tbody> <tr> <td data-bbox="256 919 509 982">Santa Clara River Estuary</td> <td data-bbox="509 919 716 982"></td> <td data-bbox="716 919 943 982">6.1 (µg/kg)</td> <td data-bbox="943 919 1170 982">0.1 (µg/kg)</td> </tr> </tbody> </table>	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>October 7, 2010</p>
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>												