

Table 6 5-9p
 Nutrient TMDLs and Compliance Dates for Lake Elsinore and Canyon Lake

TMDL	Final Total Phosphorus TMDL (kg/yr)a, b	Final Total Nitrogen TMDL (kg/yr) a, b
Canyon Lake	8,691 <u>2,924</u>	37,735 <u>10,284</u>
<u>Main Lake</u>	<u>2,076</u>	<u>7,404</u>
<u>East Bay</u>	<u>848</u>	<u>2,880</u>
<u>Overflow to Lake Elsinore</u>	<u>3,358</u>	<u>9,656</u>
Lake Elsinore	28,584 <u>14,651</u>	239,025 <u>152,349</u>

^a Final compliance to be achieved as soon as possible, but no later than 20 years after TMDL effective date.2020.

^b TMDLs specified as 10-year running average.

Table 6-9q1

Lake Elsinore and Canyon Lake
Nitrogen and Phosphorus Waste Load and Load Allocations ^{a,b,c}

Lake Segment	Wasteload Allocation (kg/yr)		Load Allocation (kg/yr)	
	TP	TN	TP	TN
Canyon Lake (Main Lake)				
Watershed Runoff	<u>954</u>	<u>2,743</u>	<u>195</u>	<u>562</u>
Supplemental Water	<u>As needed</u>	<u>As needed</u>	<u>NA</u>	<u>NA</u>
Atmospheric Deposition	<u>NA</u>	<u>NA</u>	<u>17</u>	<u>1,077</u>
Sediment Nutrient Flux	<u>NA</u>	<u>NA</u>	<u>910</u>	<u>3,023</u>
Canyon Lake (East Bay)				
Watershed Runoff	<u>494</u>	<u>1,422</u>	<u>68</u>	<u>195</u>
Supplemental Water	<u>As needed</u>	<u>As needed</u>	<u>NA</u>	<u>NA</u>
Atmospheric Deposition	<u>NA</u>	<u>NA</u>	<u>5</u>	<u>331</u>
Sediment Nutrient Flux	<u>NA</u>	<u>NA</u>	<u>280</u>	<u>932</u>
Lake Elsinore				
Watershed Runoff (Canyon Lake Overflows)	<u>2,433</u>	<u>6,994</u>	<u>926</u>	<u>2,661</u>
Watershed Runoff	<u>687</u>	<u>1,974</u>	<u>107</u>	<u>309</u>
Supplemental Water	<u>4,198</u>	<u>12,069</u>	<u>NA</u>	<u>NA</u>
Atmospheric Deposition	<u>NA</u>	<u>NA</u>	<u>156</u>	<u>9,682</u>
Sediment Nutrient Flux	<u>NA</u>	<u>NA</u>	<u>9,503</u>	<u>128,315</u>

^a The TMDL allocations for Canyon Lake apply to those land uses located upstream of Canyon Lake.

^b Final allocation compliance to be achieved as soon as possible, but no later than 10 years after TMDL effective date.

^c TMDL and allocations specified as 10-year running average.

Table 6-9q3. Allocations for Watershed Runoff in Lake Elsinore and Canyon Lake Nutrient TMDLs^a

Responsible Agency	Canyon Lake Main Lake		Canyon Lake East Bay		Local Lake Elsinore ^b		Canyon Lake Overflow to Lake Elsinore ^b	
	TP (kg/yr)	TN (kg/yr)	TP (kg/yr)	TN (kg/yr)	TP (kg/yr)	TN (kg/yr)	TP (kg/yr)	TN (kg/yr)
Wasteload Allocations								
Banning	=	=	=	=	=	=	<u>1</u>	<u>4</u>
Beaumont	=	=	=	=	=	=	<u>11</u>	<u>31</u>
CAFO	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>	<u>0</u>	<u>0</u>	<u>10</u>	<u>30</u>
Caltrans	<u>12</u>	<u>36</u>	<u>4</u>	<u>13</u>	<u>9</u>	<u>27</u>	<u>30</u>	<u>87</u>
Canyon Lake	<u>13</u>	<u>39</u>	<u>17</u>	<u>49</u>	<u>11</u>	<u>32</u>	<u>46</u>	<u>132</u>
Federal – Dept. of Defense	<u>23</u>	<u>66</u>	=	=	=	=	<u>35</u>	<u>99</u>
Hemet	=	=	<u>64</u>	<u>184</u>	=	=	<u>112</u>	<u>323</u>
Lake Elsinore	<u>15</u>	<u>43</u>	<u>4</u>	<u>10</u>	<u>381</u>	<u>1,095</u>	<u>28</u>	<u>80</u>
March Joint Powers Authority	<u>19</u>	<u>55</u>	=	=	=	=	<u>29</u>	<u>82</u>
Menifee	<u>56</u>	<u>162</u>	<u>240</u>	<u>691</u>	<u>9</u>	<u>25</u>	<u>445</u>	<u>1,280</u>
Moreno Valley	<u>281</u>	<u>807</u>	=	=	=	=	<u>422</u>	<u>1,214</u>
Murrieta	=	=	<u>6</u>	<u>18</u>	=	=	<u>9</u>	<u>27</u>
Perris	<u>165</u>	<u>473</u>	<u>0</u>	<u>1</u>	=	=	<u>248</u>	<u>712</u>
Riverside	<u>9</u>	<u>25</u>	=	=	=	=	<u>13</u>	<u>38</u>
Riverside County	<u>360</u>	<u>1,036</u>	<u>158</u>	<u>454</u>	<u>149</u>	<u>428</u>	<u>957</u>	<u>2,752</u>
San Jacinto	<u>0</u>	<u>1</u>	<u>1</u>	<u>2</u>	=	=	<u>36</u>	<u>103</u>
Wildomar	=	=	<u>0</u>	<u>0</u>	<u>128</u>	<u>367</u>	<u>0.1</u>	<u>0.2</u>
Load Allocations								
Agriculture-CWAD: Irrigated	<u>66</u>	<u>190</u>	<u>22</u>	<u>63</u>	=	=	<u>153</u>	<u>441</u>
Agriculture-CWAD: Non-irrigated	<u>40</u>	<u>114</u>	<u>28</u>	<u>80</u>	<u>0</u>	<u>1</u>	<u>109</u>	<u>313</u>

Agriculture (Small)	<u>16</u>	<u>46</u>	<u>9</u>	<u>25</u>	<u>1</u>	<u>4</u>	<u>39</u>	<u>112</u>
CA Dept. of Fish and Wildlife	<u>28</u>	<u>80</u>	=	=	=	=	<u>73</u>	<u>209</u>
Federal - National Forest	=	=	<u>1</u>	<u>4</u>	<u>106</u>	<u>304</u>	<u>328</u>	<u>944</u>
Federal – Other	<u>19</u>	<u>55</u>	<u>5</u>	<u>14</u>	=	=	<u>67</u>	<u>194</u>
Federal – Wilderness	=	=	=	=	=	=	<u>64</u>	<u>183</u>
State Land	<u>22</u>	<u>64</u>	=	=	=	=	<u>59</u>	<u>170</u>
Tribal Reservations	=	=	=	=	=	=	<u>18</u>	<u>52</u>
Western Riverside County Regional Conservation Authority	<u>5</u>	<u>13</u>	<u>3</u>	<u>9</u>	=	=	<u>15</u>	<u>42</u>
Total Allowable Watershed Load (WLAs and LAs)	<u>1,149</u>	<u>3,304</u>	<u>562</u>	<u>1,617</u>	<u>794</u>	<u>2,283</u>	<u>3,358</u>	<u>9,656</u>

^a Final allocation compliance to be achieved as soon as possible, but no later than 10 years after TMDL effective date.

^b Allocations for Local Lake Elsinore and Canyon Lake Overflow to Lake Elsinore are combined into a single Lake Elsinore TMDL. However, the allocations are reported separately here since source controls in the Canyon Lake watershed can be used to estimate credits toward reducing loads in Overflows from Canyon Lake to Lake Elsinore.

Table 6-9q4. Nutrient Load Reduction Required for Watershed Jurisdictions to Comply with Lake Elsinore and Canyon Lake Nutrient TMDLs^{a, b, c}

Responsible Agency	Canyon Lake Main Lake		Canyon Lake East Bay		Local Lake Elsinore		Canyon Lake Overflow to Lake Elsinore	
	TP (kg/yr)	TN (kg/yr)	TP (kg/yr)	TN (kg/yr)	TP (kg/yr)	TN (kg/yr)	TP (kg/yr)	TN (kg/yr)
Point Sources with NPDES Permits								
Banning	=	=	=	=	=	=	<u>1</u>	<u>7</u>
Beaumont	=	=	=	=	=	=	<u>3</u>	<u>43</u>
CAFO	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>	<u>0</u>	<u>(0)</u>	<u>31</u>	<u>31</u>
Caltrans	<u>1</u>	<u>130</u>	<u>0</u>	<u>45</u>	<u>1</u>	<u>81</u>	=	<u>280</u>
Canyon Lake	<u>5</u>	<u>55</u>	<u>6</u>	<u>90</u>	<u>3</u>	<u>48</u>	<u>16</u>	<u>217</u>
Federal – Dept. of Defense	<u>4</u>	<u>158</u>	=	=	=	=	<u>7</u>	<u>237</u>
Hemet	=	=	<u>37</u>	<u>332</u>	=	=	<u>68</u>	<u>603</u>
Lake Elsinore	<u>4</u>	<u>49</u>	<u>1</u>	<u>15</u>	<u>26</u>	<u>1,038</u>	<u>8</u>	<u>96</u>
March Joint Powers Authority	<u>4</u>	<u>54</u>	=	=	=	=	<u>6</u>	<u>81</u>
Menifee	<u>45</u>	<u>297</u>	<u>146</u>	<u>1,204</u>	<u>4</u>	<u>24</u>	<u>286</u>	<u>2,252</u>
Moreno Valley	<u>125</u>	<u>1,604</u>	=	=	=	=	<u>187</u>	<u>2,407</u>
Murrieta	=	=	<u>3</u>	<u>37</u>	=	=	<u>4</u>	<u>56</u>
Perris	<u>59</u>	<u>809</u>	<u>0</u>	=	=	=	<u>89</u>	<u>1,213</u>
Riverside	<u>4</u>	<u>55</u>	=	=	=	=	<u>6</u>	<u>82</u>
Riverside County	<u>210</u>	<u>1,093</u>	<u>162</u>	<u>402</u>	<u>50</u>	<u>466</u>	<u>666</u>	<u>2,621</u>
San Jacinto	=	=	<u>0</u>	<u>2</u>	=	=	<u>22</u>	<u>167</u>
Wildomar	=	=	=	=	<u>40</u>	<u>525</u>	=	=
Nonpoint Sources								
Agriculture (CWAD)	<u>30</u>	=	<u>10</u>	=	=	=	<u>66</u>	=
Agriculture (Non-irrigated)	<u>237</u>	<u>285</u>	<u>155</u>	<u>176</u>	<u>1</u>	<u>1</u>	<u>665</u>	<u>801</u>

Agriculture (Small)	<u>37</u>	<u>24</u>	<u>27</u>	<u>24</u>	<u>0</u>	=	<u>98</u>	<u>70</u>
CA Dept. of Fish and Wildlife	<u>0</u>	<u>0</u>	=	=	=	=	<u>0</u>	<u>0</u>
Federal - National Forest	=	=	=	=	<u>1</u>	<u>2</u>	<u>1</u>	<u>6</u>
Federal – Other	=	=	<u>1</u>	<u>1</u>	=	=	<u>0</u>	=
Federal – Wilderness	=	=	=	=	=	=	<u>0</u>	<u>0</u>
State Land	<u>2</u>	<u>5</u>	=	=	=	=	<u>3</u>	<u>9</u>
Tribal Reservations	=	=	=	=	=	=	<u>0</u>	<u>6</u>
Western Riverside County Regional Conservation Authority	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	=	=	<u>2</u>	<u>2</u>
Total Watershed Load Reduction Required	<u>767</u>	<u>4,516</u>	<u>548</u>	<u>2,293</u>	<u>127</u>	<u>2,186</u>	<u>2,220</u>	<u>11,049</u>

^a The required load reductions for Canyon Lake apply to those land uses located upstream of Canyon Lake.

^b Final allocation compliance to be achieved as soon as possible, but no later than 10 years after TMDL effective date.

^c Required load reductions specified as 10-year running average.