

**TMDL Task Force/Riverside Co MS4 Permit Deliverables Due in FY 2010-11:**

**Schedule of Deliverables**

**Status**

**Due August 31, 2010**

<ul style="list-style-type: none"> <li>- Annual Report: in-lake and watershed monitoring program</li> </ul>	<p>Draft Report submitted to Regional Board on August 16th 2010</p>
<p>Lake Elsinore/Canyon Lake Model Update Plan:</p> <ul style="list-style-type: none"> <li>- Watershed Source Loading Study</li> <li>- Linkage Analysis Study</li> </ul>	<p>Draft Report prepared by Tetra Tech to be submitted to Regional Board by August 31st 2010</p>

**Due December 31, 2010**

<p>Lake Elsinore In-Lake Sediment Nutrient Reduction Plan:</p> <ul style="list-style-type: none"> <li>- Submit Phase 2 Alternatives</li> </ul>	<p>Phase-2 Alternatives List for the Lake Elsinore and Canyon Lake nutrient TMDL submitted to Regional Board on 12/31/2010</p>
<p>Lake Elsinore In-Lake Sediment Nutrient Reduction Plan:</p> <ul style="list-style-type: none"> <li>- Submit O&amp;M Agreement for Fishery Management Program</li> <li>- Submit O&amp;M Agreement for Aeration and Mixing Systems</li> </ul>	<p>O&amp;M Agreements for Nutrient Reduction Projects in Lake Elsinore submitted to Regional Board on 12/23/2010</p>
<p>Lake Elsinore/Canyon Lake Model Update Plan:</p> <ul style="list-style-type: none"> <li>- Model Evaluation</li> </ul>	<p>Model Update Plan for the Lake Elsinore and Canyon Lake nutrient TMDL submitted to Regional Board on 12/23/2010</p>
<ul style="list-style-type: none"> <li>- Phase 2 LE/CL TMDL data collection (monitoring)</li> </ul>	<p>Phase-2 Monitoring Plan for the Lake Elsinore and Canyon Lake nutrient TMDL submitted to Regional Board on 12/23/2010</p>

**2011**

- Regional Board has deferred the implementation of the Phase-2 Monitoring Program for for 12-24 months.
- Task Force will implement revised monitoring plans for Lake Elsinore and Canyon Lake and continue to implement the Phase-1 watershed-wide monitoring program.
- Task Force will submit a Comprehensive Nutrient Reduction Plan by the end of the year .

**Early 2011**

- Task Force will calculate load reduction required for each entity named in the TMDL and estimate cost of designing, constructing and operating the Phase 1 and Phase 2 Projects Alternatives.
- Extend current O&M Agreement for Lake Elsinore Aeration and Mixing Systems for 12 months (due to expire on June 30, 2011).

**Spring 2011**

- Task Force will estimate nutrient reduction credits available from each of the proposed projects and develop the preliminary CNRP implementation strategy including a draft Pollutant Trading Plan.
- Task Force will employ the newly developed spreadsheet tool to calculate individual nutrient loads for each discharging entity named in the TMDL.

**Due April 30, 2011**

- The Task Force will submit an updated QAPP in accordance with the revised monitoring plans submitted to the Regional Board on 12/23/2011.
- Transmit a signed copy of the revised O&M Agreement for Lake Elsinore Aeration and Mixing Systems to the Regional Board.

**Summer 2011**

Task Force will seek financial commitments from those willing to sponsor the Phase 2 projects in return for nutrient reduction credits.

**Due June 30, 2011**

- Submit Draft Comprehensive Nutrient Reduction Plan (CNRP) including:
  - a Phase-2 Monitoring Program
  - b Phase-2 Projects Plans
  - c Fishery management program (to begin in 2012 at earliest)
- O&M Agreement for Lake Elsinore Aeration and Mixing Systems.

**Due August 31, 2011**

- Annual Report: in-lake and watershed monitoring program.

**Due December 31, 2011**

- Submit Comprehensive Nutrient Reduction Plan (CNRP).

**Long Term 2011-2020**

It is expected that the Regional Board will review and approve the CNRP sometime during 2012 and that project construction can commence no later than 2013. Beginning in 2011 through 2014 Stakeholders will implement specific Phase-2 nutrient control projects described in CNRP. All Phase 2 projects will be scheduled to be implemented by December 31, 2014 following which, stakeholders will commence collecting the water quality data necessary to assess actual effectiveness and demonstrate compliance with the Response Targets in 2015.

Completing construction of the first Phase 2 Alternative and operating the project in accordance with plans approved by the Regional Board would constitute interim compliance with the technology-based effluent limitations, the narrative water quality objectives, and the related TMDL targets until 2020. Each year, beginning in 2016, the LECL TMDL TF parties will prepare and submit a report to the Regional Board with data to support the claim that continuing operation of all Phase 1 and future Phase 2 projects as needed to achieve full attainment of the TMDL Response Targets by December 31, 2020.

**Long Term Monitoring Program**

Between FY 2011-2012 and 2014-2015 the watershed-wide monitoring program will be substantially reduced.

The CNRP will include a detailed, long-term monitoring program designed to demonstrate compliance with the TMDL targets.

**Long Term Modeling**

No future modeling planned as Task Force will devote available resources toward accelerated project implementation through the Comprehensive Nutrient Reduction Plan.

# San Jacinto Watershed Land Use Breakdown by Stakeholder

			Local Lake Elsinore Watershed		Middle Watershed into Canyon Lake		Upper Watershed into Mystic Lake	
Stakeholder Owner	Total Area (acres)	%	Zone 1 (acres)	Zone 1 %	Zones 2-6 (acres)	Zones 2-6 %	Zones 7-9 (acres)	Zones 7-9 %
<b>Agricultural Sources</b>								
Agriculture (SCAG)	17,021	0.035	372	0.012	12,783	0.064	3,866	0.015
Agriculture (WRCAC-COM)	23,942	0.049			12,763	0.064	11,178	0.043
Agriculture (WRCAC-EXE)	8,071	0.017			5,154	0.026	2,917	0.011
Agriculture (WRCAC-N/A)	21,471	0.044	0	0.000	15,020	0.075	6,451	0.025
Agriculture (WRCAC-NON)	6,422	0.013			4,331	0.022	2,091	0.008
Agriculture (WRCAC-OUT)	989	0.002			792	0.004	197	0.001
Agriculture (WRCAC-UNK)	2,646	0.005			2,165	0.011	481	0.002
<b>CAFO Sources</b>								
Dairy (SCAG-I/NI)	368	0.001	16	0.001	22	0.000	330	0.001
Dairy (WRCAC-I/NI)	2,077	0.004			152	0.001	1,925	0.007
Poultry (SCAG)	42	0.000	2	0.000	25	0.000	16	0.000
Poultry (WRCAC)	329	0.001			111	0.001	218	0.001
<b>Federal Sources</b>								
US Forest Service	110,971	0.227	4,295	0.140	385	0.002	106,290	0.412
March AFB	2,109	0.004			2,109	0.011		
Other Federal Land	18,142	0.037			3,438	0.017	14,704	0.057
<b>State Sources</b>								
State Land	13,562	0.028			7,517	0.038	6,045	0.023
CalTrans	1,310	0.003	203	0.007	955	0.005	153	0.001
<b>Tribal Sources</b>								
Tribal Land	6,440	0.013					6,440	0.025
<b>Other Non-jurisdictional Sources</b>								
March JPA	1,282	0.003			1,279	0.006	3	0.000
Schools	2,021	0.004	294	0.010	1,402	0.007	325	0.001
Wildlife Reserve (non-State)	20,465	0.042	323	0.011	3,479	0.017	16,662	0.065
Orange County	884	0.002	884	0.029				
Water	6,895	0.014	3,205	0.105	3,123	0.016	566	0.002
<b>Local Municipal Sources</b>								
Riverside County	130,871	0.268	6,042	0.197	62,174	0.312	62,655	0.243
City of Banning	341	0.001					341	0.001
City of Beaumont	3,046	0.006					3,046	0.012
City of Canyon Lake	1,757	0.004	316	0.010	1,440	0.007		
City of Hemet	11,508	0.024			8,278	0.042	3,230	0.013
City of Lake Elsinore	11,053	0.023	9,585	0.313	1,468	0.007		
City of Menifee	18,306	0.038	397	0.013	17,908	0.090		
City of Moreno Valley	19,275	0.040			19,062	0.096	213	0.001
City of Murrieta	393	0.001			393	0.002		
City of Perris	11,164	0.023			11,164	0.056		
City of Riverside	451	0.001			451	0.002		
City of San Jacinto	7,487	0.015			112	0.001	7,375	0.029
City of Wildomar	4,709	0.010	4,702	0	7	0.000		
Septic	-		-		-		-	
<b>Total Acres</b>	<b>487,821</b>		<b>30,638</b>		<b>199,462</b>		<b>257,719</b>	
<b>Total sq miles</b>	<b>762.22</b>							