Projected 3 Year Budget: Lake Elsinore & Canyon Lake TMDL Task Force

Summary Task Force Expenditures		oved Budget 2013-14		aft Budget 2014-15		aft Budget 2015-16		aft Budget 2016-17
Part A: Task Force Regulatory/Administrative Budget								
Task Force Administration	\$	50,000	\$	80,000	\$	80,000	\$	80,000
Task Force Administrator (LESJWA)								
Annual Water Quality Reporting and Database Management								
Grant Preparation/Administration								
TMDL Compliance Expert	\$	50,000	\$	50,000	\$	50,000	\$	50,000
Risk Sciences								
Update of Watershed and In-Lake Nutrient Monitoring Program Plans	\$	-	\$	40,000	\$	-	\$	-
Watershed Monitoring	\$	-	\$	20,000	\$	-	\$	-
in-lake Monitoring	\$	-	\$	20,000	\$	-	\$	-
Update of Watershed and In-Lake Nutrient Models	\$	-	\$		\$	175,000	\$	-
Watershed Modeling	\$	-	\$	100,000	\$	100,000	\$	-
in-lake Modeling	\$	-	\$	75,000	\$	75,000	\$	-
Review and Revision of Water Quality Objectives	\$	50,000	\$	-	\$	-	\$	-
Revise Water Quality Targets	\$	50,000	\$	-	\$	-	\$	-
Revise TMDL	\$	-	\$	-	\$	-	\$	100,000
Contingency (10% of budgeted project expenses)	\$	15,000	\$	34,500	\$	30,500	\$	13,000
TMDL Task Force Regulatory/Administrative Budget	\$	165,000	\$	379.500	\$	335,500	\$	243,000
Watershed-wide Nutrient Monitoring Program Watershed-wide Nutrient Monitoring & Report Preparation (Weston Solutions)	\$ \$	85,000	\$ \$	85,000	\$	85,000	\$ \$	85,000
Watershed-wide Nutrient Monitoring & Report Preparation (Weston Solutions)	¥ \$	70,000	Ψ \$	70,000	¥ \$	70,000	\$	70,000
Wet Year Watershed-wide Monitoring (weather dependant) (RCFC&WCD)	\$	-	\$	-	\$	-	\$	-
Lab Analysis, Watershed-wide Monitoring (RCFC&WCD)	\$	15,000	\$	15,000	\$	15,000	\$	15,000
Stream gauge O&M (RCFC&WCD)	\$	-	\$	-	\$	-	\$	-
Lake Elsinore Nutrient Monitoring Program	\$	-	\$	-	\$	100,000	\$	100,000
Lake Elsinore Nutrient Monitoring & Lab Analysis (EVMWD)	\$	-	\$	-	\$	100,000	\$	100,000
Canyon Lake Nutrient Monitoring Program	\$	-	\$	-	\$	-	\$	-
Canyon Lake Nutrient Monitoring & Lab Analysis (EVMWD)	\$	-	\$	-	\$	-	\$	-
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Lake Elsinore Project Alternatives		-	\$		\$	-	\$	-
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Aeration & Destratification System O&M (to be handled by separate agreement) O&M Project Administration (10% of budgeted expenses) Fishery Management O&M	\$ \$ \$	-	\$ \$		\$ \$	-	\$ \$	-
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Aeration & Destratification System O&M (to be handled by separate agreement) O&M Project Administration (10% of budgeted expenses) Fishery Management O&M Carp Removal Program Project Administration (10% of budgeted expenses) Carpon Lake Project Alternatives Chemical Additions - Alum Dosing (2 applications annually)	\$ \$ \$ \$ \$	- - - 330,000 270,000	\$ \$ \$ \$	- - - - 245,392 187,840	\$ \$ \$ \$ \$	- - - 249,814 188,590	\$ \$ \$ \$ \$	- - 253,000 190,000
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TMDL Task Force Budget : \$ 455,000 \$ 464,500 \$

640,707 \$ 681,000



Navigating a Mid-Course Correction for the Nutrient TMDL in Lake Elsinore and Canyon Lake

Background

- 1) EPA approved the TMDL in fall of 2005 (8 years ago).
- 2) Task Force organized in 2006 and agreement was signed in spring of 2007
- 3) Lake Elsinore Sediment Nutrient Reduction Plan approved in Nov., 2007.
- 4) Aeration Project commenced operations in 2008.
- 5) Updated watershed runoff models in 2010.
- 6) Deferred TMDL revision; reallocated monitoring funds to mitigation projects 2012-2014.
- 7) Comprehensive Nutrient Reduction Plan approved in summer of 2013.
- 8) Alum applications initiated in fall of 2013.

Key Deadlines

- 1) MS4 Report of Waste Discharge (RoWD) due in June of 2014
- 2) MS4 Permits expire in January of 2015
- 3) Conditional Waiver issued to agricultural operators (likely in 2014-15)
- 4) TMDL Interim Response Targets (DO & Chl-a) must be met by Dec., 2015

Attainment Assessment

2015 Interim Targets	Canyon Lake	Lake Elsinore
Chlorophyll-a ¹	Probable Attainment	Attainment Unlikely
Dissolved Oxygen ²	Probable Attainment	Probable Attainment

Compliance Assessment

2020 TMDL Requirements ³	Canyon Lake	Lake Elsinore
Total Phosphorous		
Total Nitrogen		

¹ The summer average must be \leq 40 ug/L in Lake Elsinore; the annual average must be \leq 40 ug/L in Canyon Lake.

² In Lake Elsinore the depth average must be \geq 5 mg/L; in Canyon Lake DO must be \geq 5 mg/L above the thermocline.

³ Load Allocations and Waste Load Allocations are all expressed as 10-year rolling averages.

Key Tasks

1) Estimate new external nutrient loads (2011-2013) to calculate 10-year rolling average.

2) Clarify specific methods to evaluate attainment of TMDL Response Targets

- A) Define "summer" compliance period (and first summer of compliance)
- B) Define averaging method and period
- C) Define number and location of compliance monitoring stations
- D) Define depth increments for depth averages
- E) Consider a volume-weighted average

3) Develop and implement metrics to demonstrate project effectiveness.

- A) Aeration/mixing system
- B) Fishery management (carp reduction, fish stocking)
- C) Recycled water
- D) Alum application
- E) Other BMPs

4) Update Lake Models

- A) Asymmetric nutrient loading
- B) Asymmetric lake levels
- C) Extended decay coefficient
- D) Salinity limitations on zooplankton
- E) Long-term model evaluation (40-50 years)

5) Update Watershed Models used in Waste Load Allocation and Load Allocation

- A) Adjust loading estimates for subsidence in Mystic Lake
- B) Correct land use(s)
- C) Reassess role of sediment transport and particulate loads
- D) Evaluate effect of urbanization (w/ LID and on-site retention requirements)

6) Update TMDL

- A) Revise and refine dissolved oxygen targets (spatial and temporal averaging)
- B) Establish exceedance frequency for asymmetric natural background loads
- C) Authorize in-lake treatment as reasonable compliance alternative
- D) Authorize exception for nutrient loads from ag lands <20 acres
- E) Develop Zero-Based Nutrient Budgets for WLA and LA
- F) Consider site-specific objective for chlorophyll-a based on salinity limitations
- G) Authorize use of performance-based effluent limits for implementation
- H) Develop compliance "credit" for participation in recycled water project
- I) Define attainment of Response Targets as functionally-equivalent compliance with Causal Targets, WLA and LA
- J) Implementation Plan for Phase-II Project(s) in Lake Elsinore

MEMORANDUM



To:	Rick Whetsel, LESJWA	Date:	October 22, 2013
From:	Sarah Garber, MWH	Reference:	10503347
Subject:	Canyon Lake Alum Treatment Effectiveness Water Quality Monitoring – Initial Results		

Water quality monitoring on Canyon Lake for the Alum Treatment program was conducted by California State University San Bernardino (CSUSB) starting in September 2013. The field program is supervised by Dr. James Noblet. The student sampling crew includes:

- Ingrid Williams Laboratory Analyst and junior Chemistry major
- Emmett Campbell Senior Laboratory Analyst and senior Biochemistry major
- Crystal Carver Steil Laboratory Analyst and senior Chemistry major
- Steve Merrill Laboratory Analyst and sophomore Biochemistry major

Pre-alum treatment monitoring was conducted on Canyon Lake on September 17, 2013. Alum application was conducted from September 23rd to 27th. Post-alum treatment water quality sampling occurred on October 1st, October 8th, and October 15th. Water quality sampling stations are:

- CL7 deepest part of the lake near the dam
- CL8 mid-lake, main body of lake
- CL9 shallow site in the East Bay
- CL10 shallow site without thermal stratification in the East Bay

Sample analysis is ongoing for most laboratory parameters. **Table 1** summarizes pre- and postalum treatment results by station for select parameters.

Table 1Canyon Lake Water Quality Pre- and Post-Alum Treatment – Initial Results
(average values for Integrated samples)

Monitoring Station		idity ΓU)	NH4-N (mg/L)			RP g/L)
	Pre Tx	Post Tx	Pre Tx	Post Tx	Pre Tx	Post Tx
CL7	6.1	5.7	2.13	1.75	691	519
CL8	7.0	5.2	0.31	0.01	191	31.1
CL9	11.7	16.0	1.89	<0.01	487	14.7
CL10	17.0	23.7	0.04	<0.01	26.7	14.3

Notes:

NH4-N – ammonia nitrogen

SRP – soluble reactive phosphorus

Turbidity values are averages of data from throughout the water column.

Pre-alum treatment values are data from a single date: September 17, 2013.

Post-alum treatment values are based on the average of integrated sample results from October 1st and 8th for NH4-N, and are data from October 1st for SRP.

Method detection limit for NH4-N is 0.01 mg/L.

Observations

Available data for the four sampling dates indicate:

- Thermocline observed at station C7 (at 7 to 8 meters depth) and at station C8 (at 5 to 6 meters depth).
- Anoxic conditions in the hypolimnion at C7 and C8.
- Dissolved oxygen in epilimnion ranged from 2.47 to 10.25 mg/L in the main body of the lake (C7 and C8).
- Dissolved oxygen in the East Bay ranged from 0.25 to 16.80 (C9 and C10).
- Observed pH values ranged from 6.94 to 8.85 and generally decreased with depth at all stations.

Upcoming Sampling

The next sampling event will be after fall turnover (anticipated to be in early November). A report summarizing data from the one pre-treatment and four post-treatment sampling events will be prepared upon receipt of final laboratory data. The report is anticipated to be available in mid-December 2013.

Revision to Mystic Lake Subwatershed Boundary

Steven Wolosoff, CDM Smith

Presentation to Canyon Lake / Lake Elsinore Nutrient TMDL Task Force October 23, 2013

Agenda

- Subwatershed boundary revision
- Revision to watershed lands downstream of Mystic Lake

CL/LE Nutrient TMDL Taskforce



SUBWATERSHED BOUNDARY REVISION

Introduction

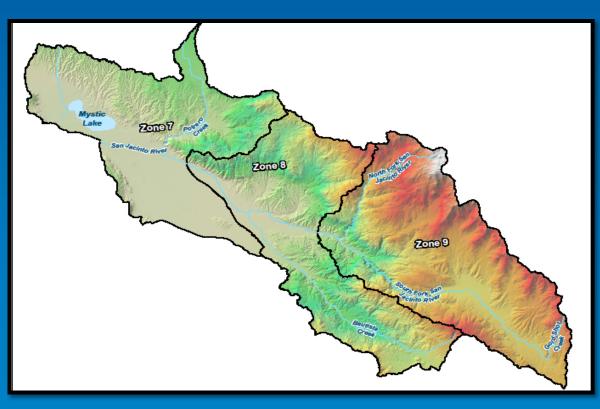
- Mystic Lake serves as a large retention area for runoff generated in subwatershed zones 7,8, and 9
- Continued subsidence of Mystic Lake increases the retention capacity
- and MS4 Permittees aware of some watershed lands within subwatershed zone 7 that are not tributary to Mystic Lake
- WRCAC contracted with CDM Smith to revise the subwatershed zone 7 boundary to be consistent with the Mystic Lake tributary area

CL/LE Nutrient TMDL Taskforce



GIS Analysis

- Delineate drainage area to Mystic Lake using elevation map data from National Elevation Dataset
- ArcHydro is an ESRI ArcGIS[®] tool that can delineate a drainage area from a DEM and user defined pour point

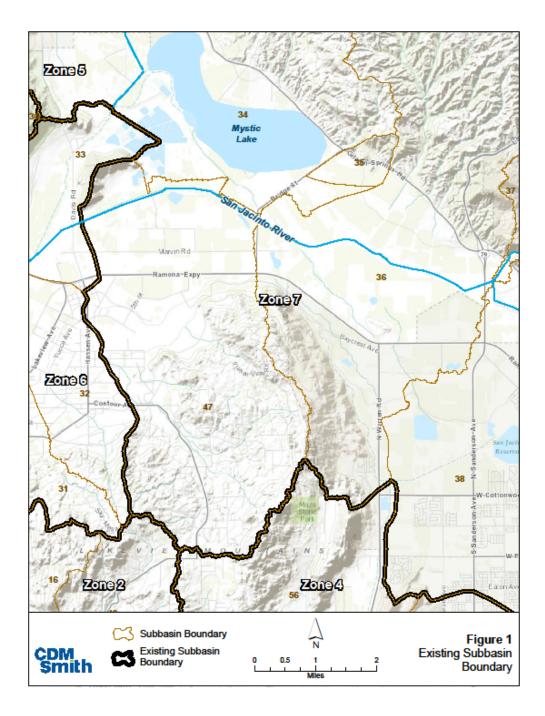


Revision to Mystic Lake Subwatershed Boundary

CL/LE Nutrient TMDL Taskforce October 23, 2013



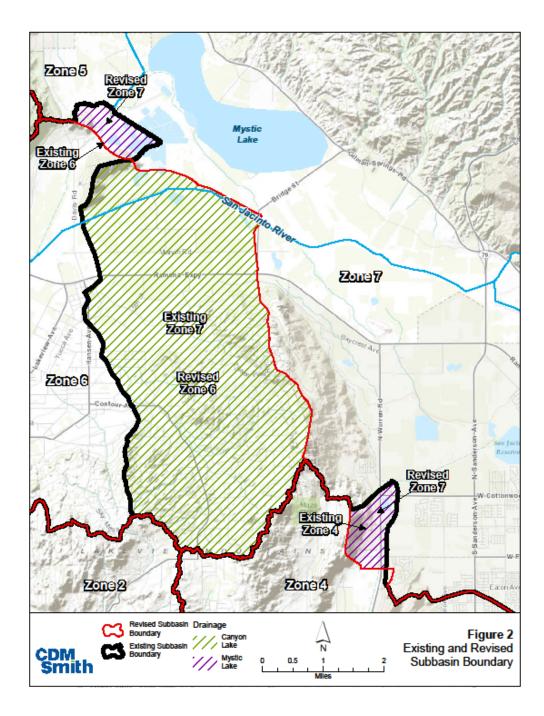
Current





Revision to Mystic Lake

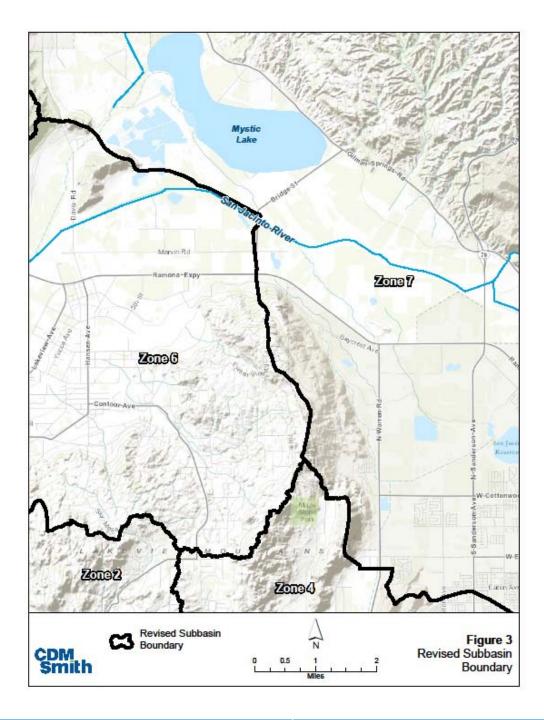
Changes





Revision to Mystic Lake

Revised

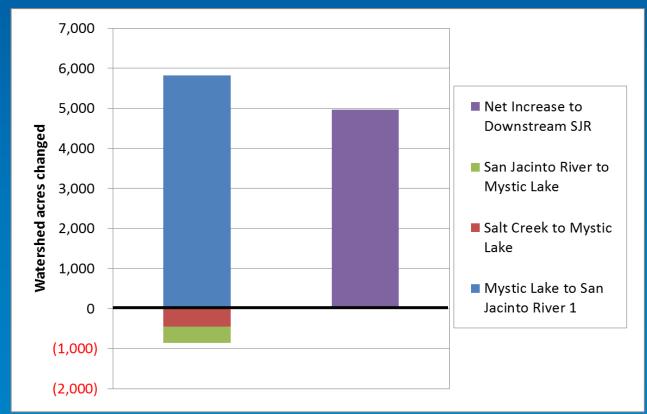




Revision to Mystic Lake

Impact of Subwatershed Zone Revision

 Acreage of different land uses no longer considered tributary to Mystic Lake and vice versa



Revision to Mystic Lake Subwatershed Boundary

CL/LE Nutrient TMDL Taskforce



WRCAC Land Use Code	Mystic Lake to San Jacinto River	Salt Creek to Mystic Lake	San Jacinto River to Mystic Lake	Grand Total
Non-WRCAC Lands	1,172	-73	-11	1,087
1434	95			95
1436	46	-12		33
1437	21			21
1850			-213	-213
1851	793		-190	603
2110	2,249	-8		2,241
2120	188	-28		161
2121	62	-193		-131
2200	24			24
2300	46			46
2310	118			118
2411	198			198
2412	179	-15		164
2420	13	-4		9
2500	91			91
2600	59	-11		48
2610	37			37
2620	66	-1		66
2700	171	-26		145
3200	1			1
4000		-15		-15
9998	159	-62		97
9999	35			35
Grand Total	5,823	-447	-414	4,962

Revision to Mystic Lake Subwatershed Boundary

CL/LE Nutrient TMDL Taskforce October 23, 2013



Impact of Subwatershed Zone Revision

- Impacted watershed lands include ~1,000 acres of non-WRCAC ownership
- Land use data for these areas are outdated (circa 2005)



CL/LE Nutrient TMDL Taskforce



Next Steps

- WRCAC will use this data in next updated land use mapping and determine individual owners affected.
- WRCAC will treat all of these and the complete 7,8,9 stakeholders as wet weather storm event scenario players

CL/LE Nutrient TMDL Taskforce

