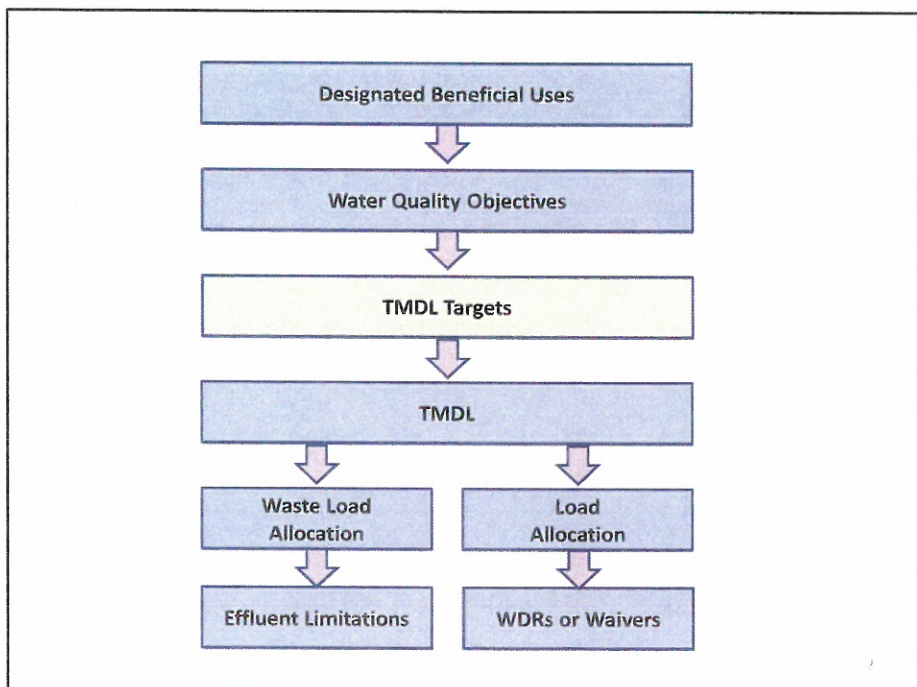


# Revising the TMDL Water Quality Targets

Lake Elsinore-Canyon Lake TMDL Task Force

March 22, 2016



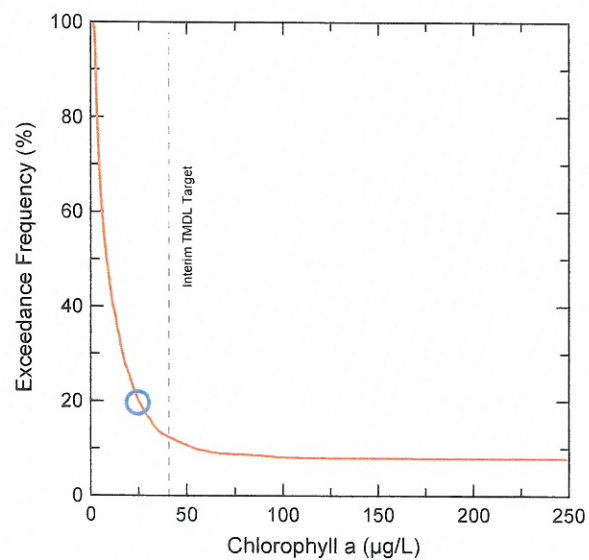
<b>Designated Beneficial Uses</b>	
<u>Canyon Lake</u>	<u>Lake Elsinore</u>
Warm	Warm
REC-1 & REC-2	REC-1 & REC-2
MUN	

W.Q. Objectives	WARM	REC-1 & 2	MUN
Nitrogen	Lake Elsinore = 1.5 mg/L as TIN		Canyon Lake = 8.0 mg/L as TIN
Ammonia	Numeric formula (pH & temperature)	N/A	N/A
DO	≤ 5 mg/L	N/A	N/A
Algae	"Discharges shall not contribute to excessive algae growth"		
Salinity	Lake Elsinore = 2,000 mg/L and Canyon Lake = 700 mg/L		
Phosphorus	None		
Chlorophyll-a	None		
Narrative	Discharge of waste shall not degrade aquatic populations	Discharge of waste shall not cause nuisance	No discharge of waste harmful to human health or creating nuisance (taste/odor)

## Problems w/ Current TMDL Targets

- Underestimated natural background loads
- Assumed static lake levels
- Literature-based targets for TP, TN & Chl-a
- Underestimated in-lake nutrient cycling
- Did not evaluate target attainability
- Targets expressed as Not-to-Exceed values
- Did not account for asymmetric loading rates
- Did not specify averaging procedures

## Natural Exceedances in Lk. Elsinore





## Natural Exceedances in Canyon Lk.

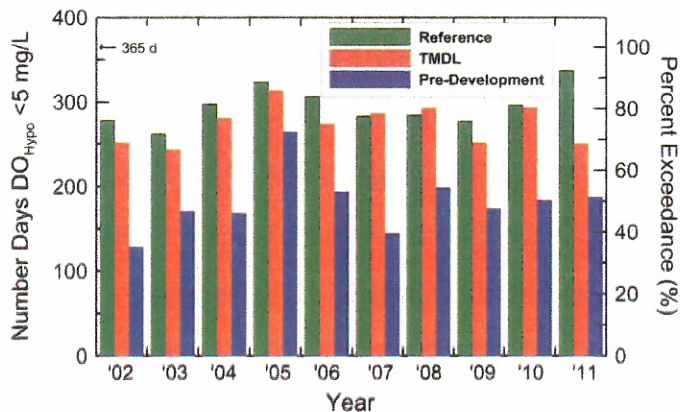


Fig. 8. Number of days each year when hypolimnetic DO concentrations were below the TMDL target of 5 mg/L under the reference (existing) condition, TMDL-prescribed reductions in external loading, and the pre-development scenario.

## Broken Linkage Analysis

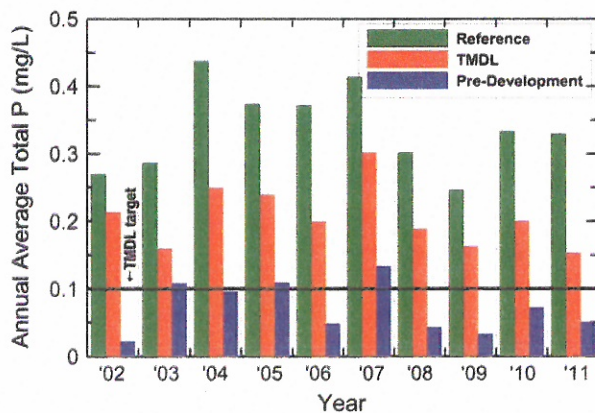


Fig. 4. Annual average total P concentrations under the reference (existing) condition, TMDL-prescribed reductions in external loading, and the pre-development scenario.

## Dynamic Level of Lk. Elsinore

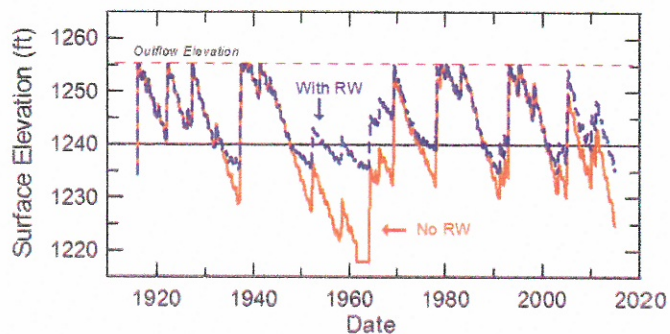
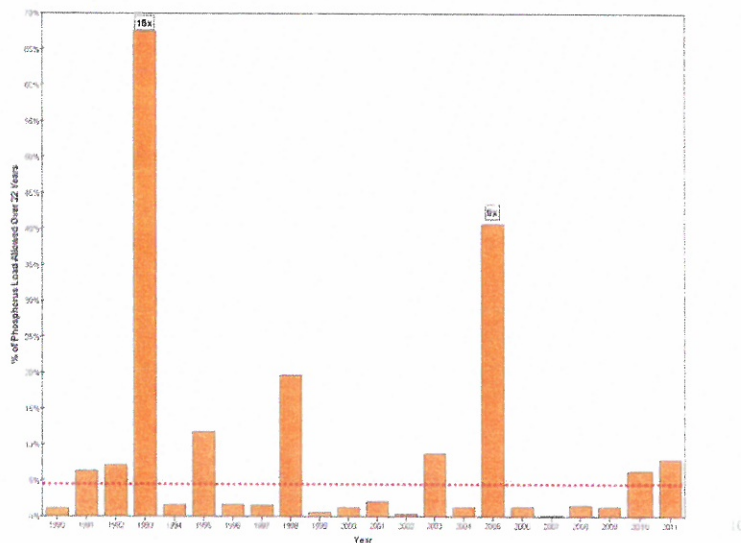
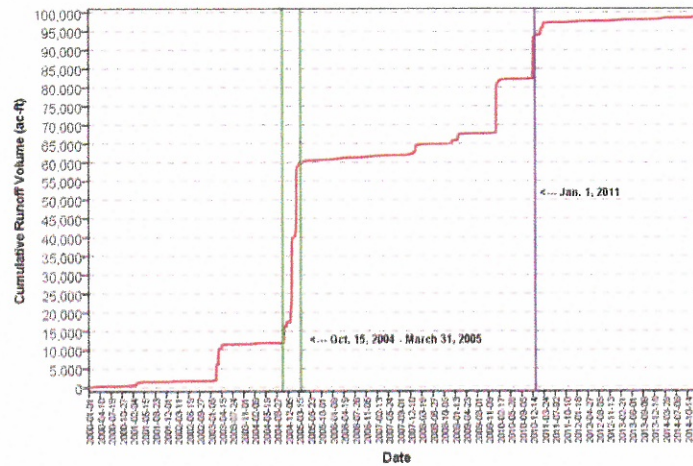


Fig. 1. Lake surface elevation with LEMP basin and natural flows (solid orange line) and supplemented inflows with recycled water (dashed blue line).

## Asymmetric Loading to Canyon Lk.



## Asymmetric Loading to Lk. Elsinore



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## In-Lake Nutrient Cycling

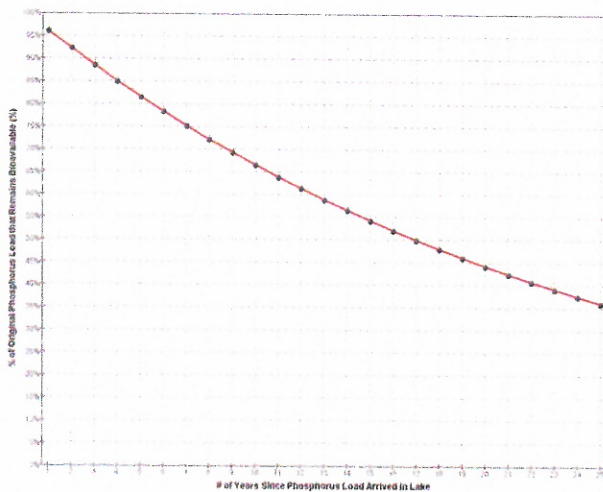
Table X. Mineralization rate and half-life for total organic C, total N and organic P in East Bay, Canyon Lake and Lake Elsinore.

	k <sub>r</sub> (yr <sup>-1</sup> )		t <sub>1/2</sub>	
	1-phase	2-phase	1-phase	2-phase
<b>Canyon Lake</b>				
Organic C	0.050 ± 0.010	0.113 ± 0.081	13.9 ± 2.9	8.2 ± 5.9
Total N	0.042 ± 0.002	0.065 ± 0.018	16.5 ± 0.8	11.1 ± 3.1
Organic P	0.105 ± 0.015	0.125 ± 0.071	6.7 ± 1.0	6.6 ± 3.7
<b>Lake Elsinore</b>				
Organic C	0.029 ± na	0.047 ± na	23.9 ± na	14.7 ± na
Total N	0.023 ± na	0.043 ± na	30.1 ± na	16.0 ± na
Organic P	0.011 ± na	0.023 ± na	60.4 ± na	29.7 ± na

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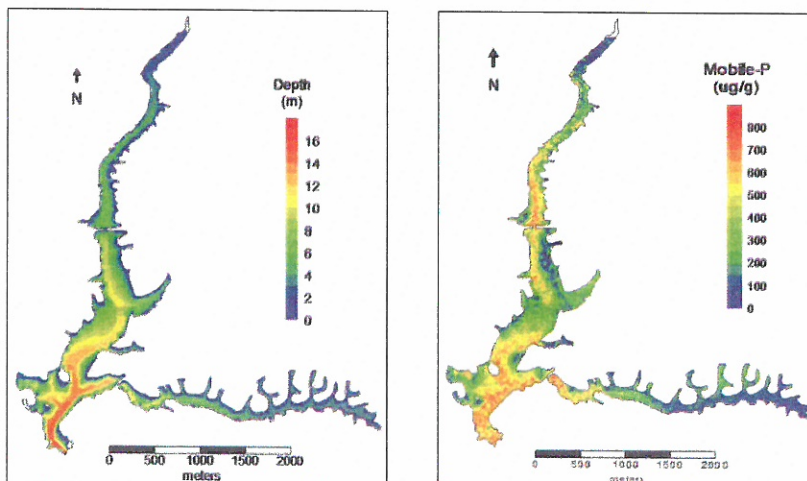


## Slow Decay Rate for Phosphorus



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## Canyon Lake Bathymetry & Sediments



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## Unique Factors: Lake Elsinore

- Terminal lake w/ very little flushing flow
- Periodically DRY under natural conditions
- Naturally-elevated TDS concentrations
- Artificially maintained ecosystem
  - Levee constructed in 1996
  - Recycled water added since 2002
  - Large-scale fishery management program
  - Aeration and mixing system since 2008

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## Unique Factors: Canyon Lake

- Ratio of watershed area to lake area
- Reservoir operated with little flow-through
- Min. lake level required by contract
- Little hydraulic interaction between branches
- East Bay extremely shallow

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## Unique Factors: Both Lakes

- Low average precipitation
- Extreme asymmetry in runoff
- High evaporation rates
- Abundant sunshine
- No natural reset mechanism

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## Target-setting Approach

- Literature Values
- Reference Conditions
  - Nutrient loads from the undeveloped watershed
  - Simulations of the pre-development condition
  - Corroborated by historical records
- Highest Sustainable Use
- Best Available Technology (BAT)
- Net Environmental Benefit (EPA's EDWP)

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## Reference Conditions

- Lake Elsinore in 1972 & 1994 (pre-LEMP)
- Pre-development land use assumptions
- Validated natural background loads
- Variable lake levels and water quality
- No recycled water
- No aeration and mixing system
- Limited fishery management program

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## TDS in Lake Elsinore

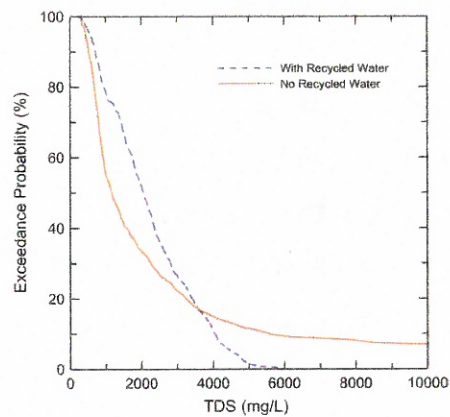
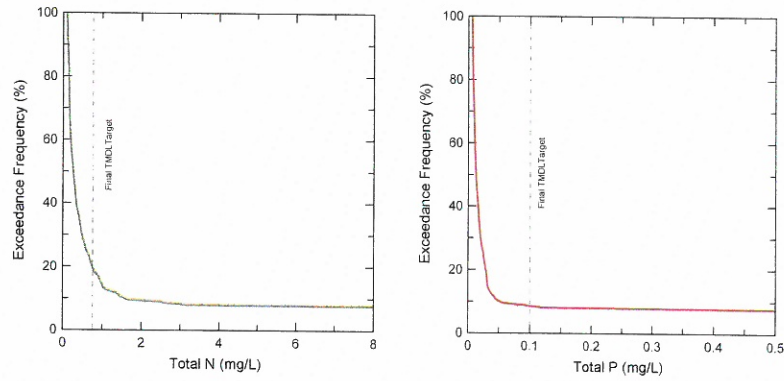


Fig. 6. Cumulative distribution function showing exceedance probability for TDS concentrations for the LEMP basin with natural flows (solid orange line) and inflows supplemented with recycled water (dashed blue line).

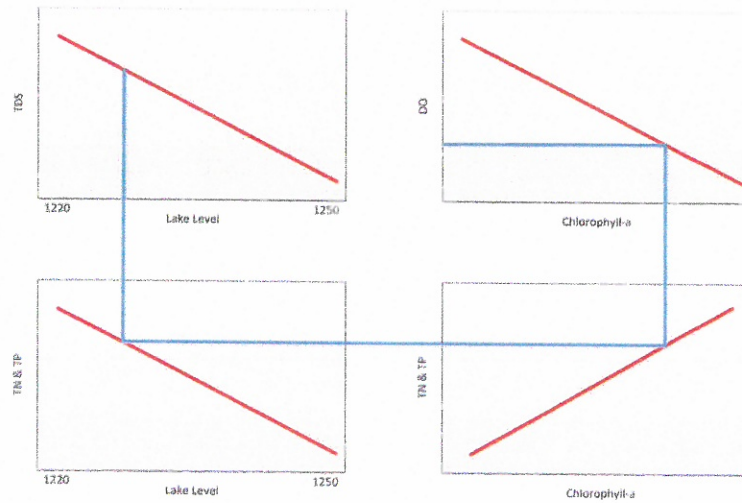
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## Nutrients in Lake Elsinore

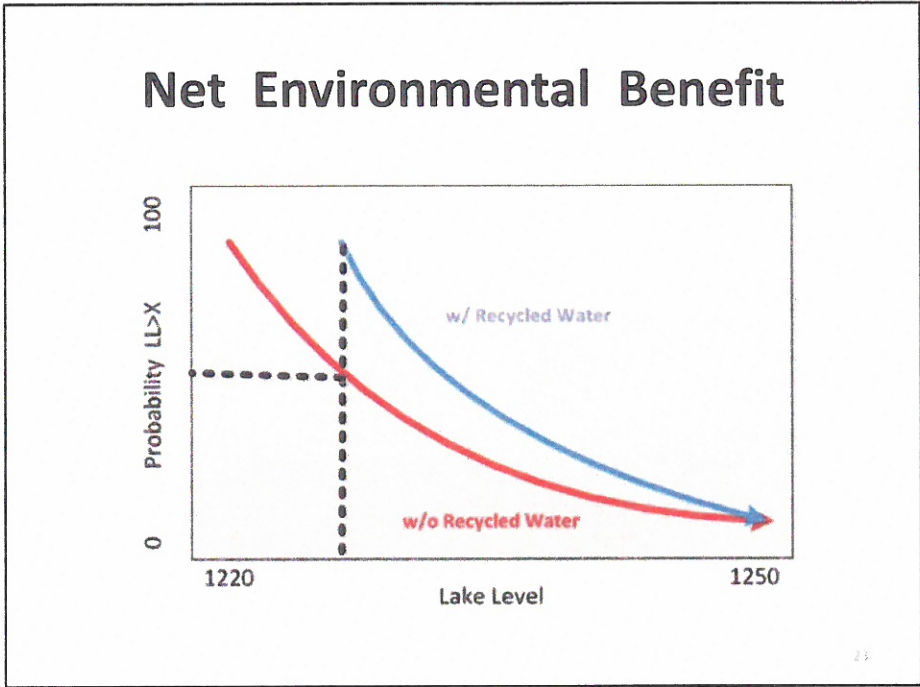


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## Conceptual Target Derivation



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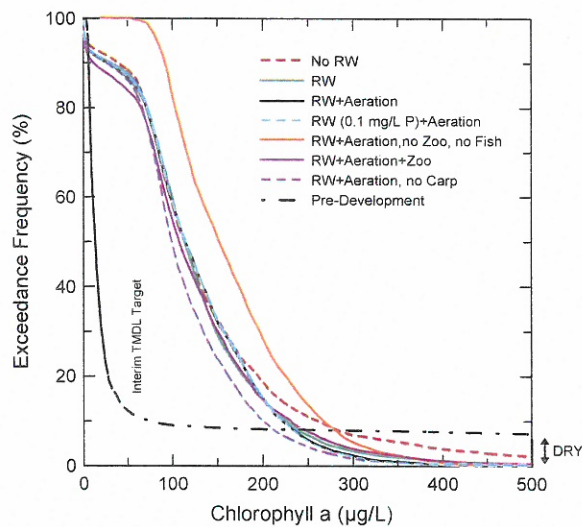
### Net Environmental Benefit

Mean Predicted Values: 1916-2014				
	Mean Concentration (mg/L or µg/L)			
	DO	Total N	Total P	Chl a
Pre-Development	7.77	0.59	0.02	19.0
Current/no RW	8.85	4.27	0.27	140
With RW	8.30	4.20	0.26	125
With RW+Aeration	9.03	4.01	0.24	125
With RW(0.1 PO <sub>4</sub> )+Aer	9.02	4.01	0.23	125

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## Progress Toward Attainment



## Target-setting Goals

- Consider natural background loads
- Consider dynamic lake levels
- Consider asymmetric loading
- Consider slow nutrient decay rates
- Consider full probabilistic range of values
- Consider exceedance frequency
- Consider appropriate averaging strategies
- Consider other water quality constraints
- Consider reasonable attainability
- Consider target hierarchies

## Key Concern: EPA Acceptance

- Well-documented reference condition
- Strong support for highest sustainable use
- Clear proof of Net Environmental Benefit
- Credible evidence of BAT & MEP
- Period reassessment required
- May require Interim & Final targets
- Will require long-term compliance schedules
- May require UAA (Intermittent/Limited?)
- May require Site-specific Objectives
- May require variance from water quality standards

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*Lake Elsinore*

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**DRAFT FY 2016-17 Budget: Lake Elsinore & Canyon Lake TMDL Task Force**

**Summary Task Force Expenditures**

	Approved Budget 2014-15	Approved Budget 2015-16	Draft Budget 2016-17	Draft Budget 2017-18	Draft Budget 2018-19
<b>Part A: Task Force Regulatory/Administrative Budget</b>					
<b>1. Task Force Administration</b>	<b>\$ 80,000</b>	<b>\$ 80,000</b>	<b>\$ 80,000</b>	<b>\$ 80,000</b>	<b>\$ 80,000</b>
Task Force Administrator (LESJWA)					
Annual Water Quality Reporting and Database Management					
Grant Preparation/Administration					
<b>2. TMDL Compliance Expert</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>
Risk Sciences					
<b>3. Update of Watershed and In-Lake Nutrient Monitoring Program Plans</b>	<b>\$ 40,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
Watershed Monitoring	\$ 20,000	\$ -	\$ -	\$ -	\$ -
in-lake Monitoring	\$ 20,000	\$ -	\$ -	\$ -	\$ -
<b>3. Update of Watershed and In-Lake Nutrient Models</b>	<b>\$ 125,000</b>	<b>\$ 25,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
Watershed Modeling	\$ 50,000	\$ -	\$ -	\$ -	\$ -
in-lake Modeling	\$ 75,000	\$ 25,000	\$ -	\$ -	\$ -
<b>3. Phase 2 Projects</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>
Supplemental Project Reserve Fund	\$ -	\$ -	\$ 50,000	\$ 50,000	\$ 50,000
<b>4. Revise TMDL</b>	<b>\$ -</b>	<b>\$ 200,000</b>	<b>\$ 300,000</b>	<b>\$ 200,000</b>	<b>\$ 100,000</b>
<b>5. Contingency (10% of budgeted project expenses)</b>	<b>\$ 29,500</b>	<b>\$ 35,500</b>	<b>\$ 48,000</b>	<b>\$ 38,000</b>	<b>\$ 28,000</b>
<b>TMDL Task Force Regulatory/Administrative Budget</b>	<b>\$ 324,500</b>	<b>\$ 390,500</b>	<b>\$ 528,000</b>	<b>\$ 418,000</b>	<b>\$ 308,000</b>
<b>Part B: TMDL Implementation Project Budget</b>					
<b>1. TMDL Compliance Monitoring</b>	<b>\$ 85,000</b>	<b>\$ 215,000</b>	<b>\$ 162,806</b>	<b>\$ 162,806</b>	<b>\$ 162,806</b>
<b>Watershed-wide Nutrient Monitoring Program</b>	<b>\$ 85,000</b>	<b>\$ 80,000</b>	<b>\$ 67,268</b>	<b>\$ 67,268</b>	<b>\$ 67,268</b>
Watershed-wide Nutrient Monitoring & Report Preparation	\$ 70,000	\$ 60,000	\$ 67,268	\$ 67,267.75	\$ 67,267.75
Wet Year Watershed-wide Monitoring (weather dependent) (RCFC&WCD)	\$ -	\$ -	\$ -	\$ -	\$ -
Lab Analysis, Watershed-wide Monitoring	\$ 15,000	\$ 20,000	\$ -	\$ -	\$ -
<b>Lake Elsinore Nutrient Monitoring Program</b>	<b>\$ -</b>	<b>\$ 40,000</b>	<b>\$ 46,280</b>	<b>\$ 46,280</b>	<b>\$ 46,280</b>
Lake Elsinore Nutrient Monitoring & Lab Analysis	\$ -	\$ 30,000	\$ 46,280	\$ 46,280	\$ 46,280
Real-time Water Quality Monitoring in LE using Existing Data Sondes		\$ 10,000	\$ -	\$ -	\$ -
<b>Canyon Lake Nutrient Monitoring Program</b>	<b>\$ -</b>	<b>\$ 55,000</b>	<b>\$ 49,258</b>	<b>\$ 49,258</b>	<b>\$ 49,258</b>
Canyon Lake Nutrient Monitoring & Lab Analysis	\$ -	\$ 55,000	\$ 49,258	\$ 49,258	\$ 49,258
<b>Blue Water Satellite Imagery Mapping</b>		<b>\$ 20,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Special Study: Impact of Salinity on Zooplankton and In-lake water Quality</b>		<b>\$ 10,000</b>			
<b>Annual Water Quality Monitoring Program Reporting</b>		<b>\$ 10,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>2. Lake Elsinore Project Alternatives</b>			<b>\$ 205,600</b>	<b>\$ 205,600</b>	<b>\$ 205,600</b>
Aeration & Destratification System O&M (to be handled by separate agreement)	\$ -	\$ -	\$ 180,600	\$ 180,600	\$ 180,600
LEAMS O&M					
Fishery Management O&M	\$ -	\$ -	\$ 25,000	\$ 25,000	\$ 25,000
Carp Removal Program					
<b>3. Canyon Lake Project Alternatives</b>	<b>\$ 245,392</b>	<b>\$ 264,000</b>	<b>\$ 92,000</b>	<b>\$ 264,000</b>	<b>\$ 264,000</b>
Chemical Additions - Alum Dosing (2 applications annually)	\$ 187,840	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000
Prop 84 Grant reimbursement			\$ (172,000)		
Effectiveness Monitoring	\$ 35,244	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000
Project Administration (10% of budgeted expenses)	\$ 22,308	\$ 24,000	\$ 24,000	\$ 24,000	\$ 24,000
<b>TMDL Task Force Implementation Budget</b>	<b>\$ 330,392</b>	<b>\$ 479,000</b>	<b>\$ 460,406</b>	<b>\$ 632,406</b>	<b>\$ 632,406</b>

# Prop 84 Round 2 IRWM Funding

	Approved Budget 2014-15	Approved Budget 2015-16	Draft Budget 2016-17	Draft Budget 2017-18	Draft Budget 2018-19
<b>Canyon Lake Hybrid Treatment process - Phase 1 (year reimbursement expected)</b>	\$ -	\$ 328,000		\$ -	\$ -
<b>Total Grant Funding</b>	\$ -	\$ 328,000		\$ -	\$ -
<b>TMDL Task Force Budget Total:</b>	\$ 654,892	\$ 541,500	\$ 988,406	\$ 1,050,406	\$ 940,406

## Task Force Agency Contributions Summary

### 1. Task Force Agency Allocation

	Approved Budget 2014-15 Total	Approved Budget 2015-16 Total	Draft Budget 2016-17 Total	Draft Budget 2017-18 Total	Draft Budget 2018-19 Total
<b>MS4 Co-Permittees (Total)</b>	\$ 445,731	\$ 334,259	\$ 531,487	\$ 606,822	\$ 537,348
Riverside County	\$ 37,291	\$ 35,814	\$ 68,931	\$ 99,530	\$ 93,741
City of Beaumont	\$ 24,485	\$ 27,160	\$ 37,421	\$ 35,931	\$ 30,142
City of Canyon Lake	\$ 35,071	\$ 24,610	\$ 37,421	\$ 35,931	\$ 30,142
City of Hemet	\$ 25,845	\$ 28,244	\$ 40,178	\$ 43,843	\$ 38,054
City of Lake Elsinore	\$ 31,455	\$ 30,857	\$ 37,421	\$ 35,931	\$ 30,142
City of Moreno Valley	\$ 114,562	\$ 22,815	\$ 58,014	\$ 79,670	\$ 73,881
City of Murrieta	\$ 24,485	\$ 27,160	\$ 37,421	\$ 35,931	\$ 30,142
City of Perris	\$ 27,205	\$ 30,182	\$ 45,697	\$ 53,634	\$ 47,844
City of Riverside	\$ 24,485	\$ 27,160	\$ 37,421	\$ 35,931	\$ 30,142
City of San Jacinto	\$ 24,485	\$ 27,160	\$ 37,421	\$ 35,931	\$ 30,142
City of Menifee	\$ 56,483	\$ 25,925	\$ 62,099	\$ 88,303	\$ 82,514
City of Wildomar	\$ 19,880	\$ 27,172	\$ 32,042	\$ 26,253	\$ 20,463
<b>Elsinore Valley Municipal Water District (EVMWD)</b>	\$ 16,225	\$ 23,525	\$ 30,361	\$ 24,571	\$ 18,782
<b>San Jacinto Agricultural Operators</b>	\$ 47,549	\$ 28,501	\$ 45,785	\$ 54,287	\$ 48,498
<b>San Jacinto Dairy &amp; CAFO Operators</b>	\$ 16,225	\$ 25,160	\$ -	\$ -	\$ -
<b>CA Department of Transportation</b>	\$ 28,656	\$ 26,072	\$ 37,421	\$ 35,931	\$ 30,142
<b>CA DF&amp;G - San Jacinto Wetlands</b>	\$ 24,570	\$ 28,760	\$ 35,121	\$ 29,331	\$ 23,542
<b>Eastern Municipal Water District</b>	\$ 16,225	\$ 23,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>March Air Reserve Base Joint Powers Authority</b>	\$ 24,485	\$ 27,160	\$ 37,421	\$ 35,931	\$ 30,142
<b>US Air Force (March Air Reserve Base)</b>	\$ 35,226	\$ 24,536	\$ 37,421	\$ 35,931	\$ 30,142
<b>Total Funding Required</b>	\$ 654,892	\$ 541,500	\$ 782,806	\$ 844,806	\$ 734,806

#### Notes:

#### Task Force Administration

- Organize and facilitate TMDL TASK FORCE and TAC meetings,
- Perform secretarial, clerical and administrative services, including providing meeting summaries to TMDL TASK FORCE members,
- Manage TMDL TASK FORCE funds and prepare annual reports of TMDL TASK FORCE assets and expenditures,
- Serve as the contracting party, for the benefit of the TMDL TASK FORCE, for contracts with all consultants, contractors, vendors and other entities,
- Seek funding grants to assist with achieving goals and objectives of the TMDL TASK FORCE.
- Coordinate with other agencies and organizations as necessary to facilitate TMDL TASK FORCE work.
- Administer the preparation of quarterly and annual reports, as required by the TMDL Implementation Plan, and submit them as required by the TMDL Implementation Plan on behalf of the TMDL TASK FORCE.
- Possible administrator of future pollutant trading (water quality trading) agreements.

## Task Force Agency Contributions Detailed Tables

Approved Budget 2014-15	Approved Budget 2015-16	Draft Budget 2016-17	Draft Budget 2017-18	Draft Budget 2018-19
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**Part A: Task Force Regulatory/Administrative Budget**

<i>Task Force Regulatory/Administrative Expenses</i>	Allocation	Allocation	Allocation	Allocation	Allocation
<b>MS4 Co-Permittees</b>	<b>\$ 194,700</b>	<b>\$ 234,300</b>	<b>\$ 333,474</b>	<b>\$ 264,000</b>	<b>\$ 194,526</b>
Riverside County	\$ 16,225	\$ 19,525.00	\$ 27,789	\$ 22,000	\$ 16,211
City of Beaumont	\$ 16,225	\$ 19,525.00	\$ 27,789	\$ 22,000	\$ 16,211
City of Canyon Lake	\$ 16,225	\$ 19,525.00	\$ 27,789	\$ 22,000	\$ 16,211
City of Hemet	\$ 16,225	\$ 19,525.00	\$ 27,789	\$ 22,000	\$ 16,211
City of Lake Elsinore	\$ 16,225	\$ 19,525.00	\$ 27,789	\$ 22,000	\$ 16,211
City of Moreno Valley	\$ 16,225	\$ 19,525.00	\$ 27,789	\$ 22,000	\$ 16,211
City of Murrieta	\$ 16,225	\$ 19,525.00	\$ 27,789	\$ 22,000	\$ 16,211
City of Perris	\$ 16,225	\$ 19,525.00	\$ 27,789	\$ 22,000	\$ 16,211
City of Riverside	\$ 16,225	\$ 19,525.00	\$ 27,789	\$ 22,000	\$ 16,211
City of San Jacinto	\$ 16,225	\$ 19,525.00	\$ 27,789	\$ 22,000	\$ 16,211
City of Menifee	\$ 16,225	\$ 19,525.00	\$ 27,789	\$ 22,000	\$ 16,211
City of Wildomar	\$ 16,225	\$ 19,525.00	\$ 27,789	\$ 22,000	\$ 16,211
<b>Elsinore Valley Municipal Water District (EVMWD)</b>	<b>\$ 16,225</b>	<b>\$ 19,525.00</b>	<b>\$ 27,789</b>	<b>\$ 22,000</b>	<b>\$ 16,211</b>
<b>San Jacinto Agricultural Operators</b>	<b>\$ 16,225</b>	<b>\$ 19,525.00</b>	<b>\$ 27,789</b>	<b>\$ 22,000</b>	<b>\$ 16,211</b>
<b>San Jacinto Dairy &amp; CAFO Operators</b>	<b>\$ 16,225</b>	<b>\$ 19,525.00</b>			
<b>CALTRANS - freeway</b>	<b>\$ 16,225</b>	<b>\$ 19,525.00</b>	<b>\$ 27,789</b>	<b>\$ 22,000</b>	<b>\$ 16,211</b>
<b>CA DF&amp;G - San Jacinto Wetlands</b>	<b>\$ 16,225</b>	<b>\$ 19,525.00</b>	<b>\$ 27,789</b>	<b>\$ 22,000</b>	<b>\$ 16,211</b>
<b>Eastern Municipal Water District</b>	<b>\$ 16,225</b>	<b>\$ 19,525.00</b>	<b>\$ 27,789</b>	<b>\$ 22,000</b>	<b>\$ 16,211</b>
<b>March Air Reserve Base Joint Powers Authority</b>	<b>\$ 16,225</b>	<b>\$ 19,525.00</b>	<b>\$ 27,789</b>	<b>\$ 22,000</b>	<b>\$ 16,211</b>
<b>US Air Force (March Air Reserve Base)</b>	<b>\$ 16,225</b>	<b>\$ 19,525.00</b>	<b>\$ 27,789</b>	<b>\$ 22,000</b>	<b>\$ 16,211</b>
<b>Funding Required</b>	<b>\$ 324,500</b>	<b>\$ 390,500</b>	<b>\$ 528,000</b>	<b>\$ 418,000</b>	<b>\$ 308,000</b>

**Part B: TMDL Implementation Project Budget**  
**TMDL Compliance Monitoring Expenses**

***Watershed-wide Nutrient Monitoring Program \*\****

			Allocation	Allocation	Allocation	Allocation	Allocation
<b>MS4 Co-Permittees</b>			\$ 62,815	\$ 65,459	\$ 55,839	\$ 55,839	\$ 55,839
Riverside County			\$ 8,551	\$ 12,318	\$ 16,028	\$ 16,028	\$ 16,028
City of Beaumont			\$ 2,125	\$ 2,000	\$ 1,682	\$ 1,682	\$ 1,682
City of Canyon Lake			\$ 2,159	\$ 2,202	\$ 1,682	\$ 1,682	\$ 1,682
City of Hemet			\$ 3,485	\$ 3,083	\$ 1,682	\$ 1,682	\$ 1,682
City of Lake Elsinore			\$ 9,095	\$ 5,697	\$ 1,682	\$ 1,682	\$ 1,682
City of Moreno Valley			\$ 15,640	\$ 17,623	\$ 9,894	\$ 9,894	\$ 9,894
City of Murrieta			\$ 2,125	\$ 2,000	\$ 1,682	\$ 1,682	\$ 1,682
City of Perris			\$ 4,845	\$ 5,021	\$ 4,916	\$ 4,916	\$ 4,916
City of Riverside			\$ 2,125	\$ 2,000	\$ 1,682	\$ 1,682	\$ 1,682
City of San Jacinto			\$ 2,125	\$ 2,000	\$ 1,682	\$ 1,682	\$ 1,682
City of Menifee			\$ 6,885	\$ 7,869	\$ 11,547	\$ 11,547	\$ 11,547
City of Wildomar			\$ 3,655	\$ 3,647	\$ 1,682	\$ 1,682	\$ 1,682
<b>Elsinore Valley Municipal Water District (EVMWD)</b>							
<b>San Jacinto Agricultural Operators</b>			\$ 12,920	\$ 6,541	\$ 4,702	\$ 4,702	\$ 4,702
<b>San Jacinto Dairy &amp; CAFO Operators</b>							
<b>CALTRANS - freeway</b>			\$ 2,125	\$ 2,000	\$ 1,682	\$ 1,682	\$ 1,682
<b>CA DF&amp;G - San Jacinto Wetlands</b>			\$ 2,210	\$ 2,000	\$ 1,682	\$ 1,682	\$ 1,682
<b>Eastern Municipal Water District</b>							
<b>March Air Reserve Base Joint Powers Authority</b>			\$ 2,125	\$ 2,000	\$ 1,682	\$ 1,682	\$ 1,682
<b>US Air Force (March Air Reserve Base)</b>			\$ 2,805	\$ 2,000	\$ 1,682	\$ 1,682	\$ 1,682
<b>Funding Required</b>			<b>\$ 85,000</b>	<b>\$ 80,000</b>	<b>\$ 67,268</b>	<b>\$ 67,268</b>	<b>\$ 67,268</b>

\*\* Watershed Monitoring Normalized % Max TP or TN Load (based on load to both lakes projected in 2015)

**Lake Elsinore Nutrient Monitoring Program + Blue Water  
Satellite Imagery Mapping \*\***

	Allocation	Allocation	Allocation	Allocation	Allocation
<b>MS4 Co-Permittees</b>	\$ -	\$ 48,000	\$ 30,853	\$ 30,853	\$ 30,853
Riverside County	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
City of Beaumont	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
City of Canyon Lake	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
City of Hemet	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
City of Lake Elsinore	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
City of Moreno Valley	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
City of Murrieta	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
City of Perris	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
City of Riverside	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
City of San Jacinto	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
City of Menifee	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
City of Wildomar	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
<b>Elsinore Valley Municipal Water District (EVMWD)</b>	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
<b>San Jacinto Agricultural Operators</b>	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
<b>San Jacinto Dairy &amp; CAFO Operators</b>	\$ -	\$ 4,000	\$ -	\$ -	\$ -
<b>CALTRANS - freeway</b>	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
<b>CA DF&amp;G - San Jacinto Wetlands</b>	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
<b>Eastern Municipal Water District</b>	\$ -	\$ 4,000	\$ -	\$ -	\$ -
<b>March Air Reserve Base Joint Powers Authority</b>	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
<b>US Air Force (March Air Reserve Base)</b>	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
<b>Funding Required</b>	\$ -	\$ 80,000	\$ 46,280	\$ 46,280	\$ 46,280

**Canyon Lake Nutrient Monitoring Program \*\*\***

	Allocation	Allocation	Allocation	Allocation	Allocation
<b>MS4 Co-Permittees</b>	\$ -	\$ 35,588	\$ 33,865	\$ 33,865	\$ 33,865
Riverside County	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
City of Beaumont	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
City of Canyon Lake	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
City of Hemet	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
City of Lake Elsinore	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
City of Moreno Valley	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
City of Murrieta	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
City of Perris	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
City of Riverside	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
City of San Jacinto	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
City of Menifee	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
City of Wildomar	\$ -	\$ -			\$ -
<b>Elsinore Valley Municipal Water District (EVMWD)</b>	\$ -	\$ -			\$ -
<b>San Jacinto Agricultural Operators</b>	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>San Jacinto Dairy &amp; CAFO Operators</b>	\$ -	\$ 3,235			\$ -
<b>CALTRANS - freeway</b>	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>CA DF&amp;G - San Jacinto Wetlands</b>	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Eastern Municipal Water District</b>	\$ -	\$ -			\$ -
<b>March Air Reserve Base Joint Powers Authority</b>	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>US Air Force (March Air Reserve Base)</b>	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Funding Required</b>	\$ -	\$ 55,000	\$ 49,258	\$ 49,258	\$ 49,258



**Lake Elsinore Project Alternatives  
 Aeration & Destratification System O&M (to be handled by  
 separate agreement)**

	Allocation	Allocation	Allocation	Allocation	Allocation
<b>MS4 Co-Permittees</b>	\$ -	\$ -			
Riverside County	\$ -	\$ -			
City of Beaumont	\$ -	\$ -			
City of Canyon Lake	\$ -	\$ -			
City of Hemet	\$ -	\$ -			
City of Lake Elsinore	\$ -	\$ -			
City of Moreno Valley	\$ -	\$ -			
City of Murrieta	\$ -	\$ -			
City of Perris	\$ -	\$ -			
City of Riverside	\$ -	\$ -			
City of San Jacinto	\$ -	\$ -			
City of Menifee	\$ -	\$ -			
City of Wildomar	\$ -	\$ -			
<b>Elsinore Valley Municipal Water District (EVMWD)</b>	\$ -	\$ -			
<b>San Jacinto Agricultural Operators</b>	\$ -	\$ -			
<b>San Jacinto Dairy &amp; CAFO Operators</b>	\$ -	\$ -			
<b>CALTRANS - freeway</b>	\$ -	\$ -			
<b>CA DF&amp;G - San Jacinto Wetlands</b>	\$ -	\$ -			
<b>Eastern Municipal Water District</b>	\$ -	\$ -			
<b>March Air Reserve Base Joint Powers Authority</b>	\$ -	\$ -			
<b>US Air Force (March Air Reserve Base)</b>	\$ -	\$ -			
<b>Funding Required</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

**Fishery Management O&M \*\***

	Allocation	Allocation	Allocation	Allocation	Allocation
<b>MS4 Co-Permittees</b>	\$ -	\$ -	\$ -	\$ -	\$ -
Riverside County	\$ -	\$ -	\$ -	\$ -	\$ -
City of Beaumont	\$ -	\$ -	\$ -	\$ -	\$ -
City of Canyon Lake	\$ -	\$ -	\$ -	\$ -	\$ -
City of Hemet	\$ -	\$ -	\$ -	\$ -	\$ -
City of Lake Elsinore	\$ -	\$ -	\$ -	\$ -	\$ -
City of Moreno Valley	\$ -	\$ -	\$ -	\$ -	\$ -
City of Murrieta	\$ -	\$ -	\$ -	\$ -	\$ -
City of Perris	\$ -	\$ -	\$ -	\$ -	\$ -
City of Riverside	\$ -	\$ -	\$ -	\$ -	\$ -
City of San Jacinto	\$ -	\$ -	\$ -	\$ -	\$ -
City of Menifee	\$ -	\$ -	\$ -	\$ -	\$ -
City of Wildomar	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Elsinore Valley Municipal Water District (EVMWD)</b>	\$ -	\$ -	\$ -	\$ -	\$ -
<b>San Jacinto Agricultural Operators</b>	\$ -	\$ -	\$ -	\$ -	\$ -
<b>San Jacinto Dairy &amp; CAFO Operators</b>	\$ -	\$ -	\$ -	\$ -	\$ -
<b>CALTRANS - freeway</b>	\$ -	\$ -	\$ -	\$ -	\$ -
<b>CA DF&amp;G - San Jacinto Wetlands</b>	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Eastern Municipal Water District</b>	\$ -	\$ -	\$ -	\$ -	\$ -
<b>March Air Reserve Base Joint Powers Authority</b>	\$ -	\$ -	\$ -	\$ -	\$ -
<b>US Air Force (March Air Reserve Base)</b>	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Funding Required</b>	\$ -	\$ -	\$ -	\$ -	\$ -

\*\* based upon Watershed Monitoring Normalized % Max TP or TN Load (based on load to both lakes projected in 2015)

**Canyon Lake Project Alternatives**

**Alum Addition \*\*\***

	Allocation	FY 2015-16 Applied Grant Reimbursement	Allocation	Allocation	Allocation
<b>MS4 Co-Permittees</b>	\$ 188,216	\$ (49,088)	\$ 77,456	\$ 222,265	\$ 222,265
Riverside County	\$ 12,515	\$ (3,264)	\$ 19,464	\$ 55,852	\$ 55,852
City of Beaumont	\$ 6,135	\$ (1,600)	\$ 2,300	\$ 6,600	\$ 6,600
City of Canyon Lake	\$ 16,687	\$ (4,352)	\$ 2,300	\$ 6,600	\$ 6,600
City of Hemet	\$ 6,135	\$ (1,600)	\$ 5,057	\$ 14,512	\$ 14,512
City of Lake Elsinore	\$ 6,135	\$ (1,600)	\$ 2,300	\$ 6,600	\$ 6,600
City of Moreno Valley	\$ 82,697	\$ (21,568)	\$ 14,680	\$ 42,126	\$ 42,126
City of Murrieta	\$ 6,135	\$ (1,600)	\$ 2,300	\$ 6,600	\$ 6,600
City of Perris	\$ 6,135	\$ (1,600)	\$ 7,342	\$ 21,068	\$ 21,068
City of Riverside	\$ 6,135	\$ (1,600)	\$ 2,300	\$ 6,600	\$ 6,600
City of San Jacinto	\$ 6,135	\$ (1,600)	\$ 2,300	\$ 6,600	\$ 6,600
City of Menifee	\$ 33,373	\$ (8,704)	\$ 17,113	\$ 49,107	\$ 49,107
City of Wildomar					
<b>Elsinore Valley Municipal Water District (EVMWD)</b>					
<b>San Jacinto Agricultural Operators</b>	\$ 18,404	\$ (4,800)	\$ 7,644	\$ 21,935	\$ 21,935
<b>San Jacinto Dairy &amp; CAFO Operators</b>		\$ (1,600)			
<b>CALTRANS - freeway</b>	\$ 10,306	\$ (2,688)	\$ 2,300	\$ 6,600	\$ 6,600
<b>CA DF&amp;G - San Jacinto Wetlands</b>	\$ 6,135				
<b>Eastern Municipal Water District</b>					
<b>March Air Reserve Base Joint Powers Authority</b>	\$ 6,135	\$ (1,600)	\$ 2,300	\$ 6,600	\$ 6,600
<b>US Air Force (March Air Reserve Base)</b>	\$ 16,196	\$ (4,224)	\$ 2,300	\$ 6,600	\$ 6,600
<b>Funding Required</b>	<b>\$ 245,393</b>	<b>\$ (64,000)</b>	<b>\$ 92,000</b>	<b>\$ 264,000</b>	<b>\$ 264,000</b>

\*\*\* Normalized Multi Criteria Offset Demand or Min Buy in (Alum Project % Need) (based on need projected for 2015)

- 1) presumes actual CNRP/AGMNP offset demand estimates projected for 2015
- 2) Negative numbers are shown as "0", Jurisdictions with zero offset demand are not funding partners
- 3) Proposes 2.5% minimum project buy-in for those with minor offset demands
- 4) For those entities that have not developed nutrient management plans, offset demand is the load to Canyon Lake in excess of the WLA. WLA is determined by converting the TMDL WLAs into per acre values and then applying to the acreage of these jurisdictions

# Task Force Agency Contributions Detailed Tables

	Allocation	Approved Budget 2015-16 Allocation	Draft Budget 2016-17 Allocation	Draft Budget 2017-18 Allocation	Draft Budget 2018-19 Allocation
<b>MS4 Co-Permittees (Total)</b>	<b>\$ 445,731</b>	<b>\$ 334,259</b>	<b>\$ 531,487</b>	<b>\$ 606,822</b>	<b>\$ 537,348</b>
Task Force Regulatory/Administrative Expenses	\$ 194,700	\$ 234,300	\$ 333,474	\$ 264,000	\$ 194,526
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 62,815	\$ 65,459	\$ 55,839	\$ 55,839	\$ 55,839
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 48,000	\$ 30,853	\$ 30,853	\$ 30,853
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 35,588	\$ 33,865	\$ 33,865	\$ 33,865
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 188,216	\$ (49,088)	\$ 77,456	\$ 222,265	\$ 222,265
<b>Riverside County *</b>	<b>\$ 37,291</b>	<b>\$ 35,814</b>	<b>\$ 68,931</b>	<b>\$ 99,530</b>	<b>\$ 93,741</b>
Task Force Regulatory/Administrative Expenses	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 8,551	\$ 12,318	\$ 16,028	\$ 16,028	\$ 16,028
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 12,515	\$ (3,264)	\$ 19,464	\$ 55,852	\$ 55,852
<b>City of Beaumont *</b>	<b>\$ 24,485</b>	<b>\$ 27,160</b>	<b>\$ 37,421</b>	<b>\$ 35,931</b>	<b>\$ 30,142</b>
Task Force Regulatory/Administrative Expenses	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 2,125	\$ 2,000	\$ 1,682	\$ 1,682	\$ 1,682
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 6,135	\$ (1,600)	\$ 2,300	\$ 6,600	\$ 6,600
<b>City of Canyon Lake *</b>	<b>\$ 35,071</b>	<b>\$ 24,610</b>	<b>\$ 37,421</b>	<b>\$ 35,931</b>	<b>\$ 30,142</b>
Task Force Regulatory/Administrative Expenses	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 2,159	\$ 2,202	\$ 1,682	\$ 1,682	\$ 1,682
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 16,687	\$ (4,352)	\$ 2,300	\$ 6,600	\$ 6,600



<b>City of Hemet *</b>	<b>\$ 25,845</b>	<b>\$ 28,244</b>	<b>\$ 40,178</b>	<b>\$ 43,843</b>	<b>\$ 38,054</b>
Task Force Regulatory/Administrative Expenses	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 3,485	\$ 3,083	\$ 1,682	\$ 1,682	\$ 1,682
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 6,135	\$ (1,600)	\$ 5,057	\$ 14,512	\$ 14,512
<b>City of Lake Elsinore *</b>	<b>\$ 31,455</b>	<b>\$ 30,857</b>	<b>\$ 37,421</b>	<b>\$ 35,931</b>	<b>\$ 30,142</b>
Task Force Regulatory/Administrative Expenses	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 9,095	\$ 5,697	\$ 1,682	\$ 1,682	\$ 1,682
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 6,135	\$ (1,600)	\$ 2,300	\$ 6,600	\$ 6,600
<b>City of Moreno Valley *</b>	<b>\$ 114,562</b>	<b>\$ 22,815</b>	<b>\$ 58,014</b>	<b>\$ 79,670</b>	<b>\$ 73,881</b>
Task Force Regulatory/Administrative Expenses	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 15,640	\$ 17,623	\$ 9,894	\$ 9,894	\$ 9,894
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 82,697	\$ (21,568)	\$ 14,680	\$ 42,126	\$ 42,126
<b>City of Murrieta *</b>	<b>\$ 24,485</b>	<b>\$ 27,160</b>	<b>\$ 37,421</b>	<b>\$ 35,931</b>	<b>\$ 30,142</b>
Task Force Regulatory/Administrative Expenses	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 2,125	\$ 2,000	\$ 1,682	\$ 1,682	\$ 1,682
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 6,135	\$ (1,600)	\$ 2,300	\$ 6,600	\$ 6,600

<b>City of Perris *</b>	<b>\$ 27,205</b>	<b>\$ 30,182</b>	<b>\$ 45,697</b>	<b>\$ 53,634</b>	<b>\$ 47,844</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 4,845	\$ 5,021	\$ 4,916	\$ 4,916	\$ 4,916
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 6,135	\$ (1,600)	\$ 7,342	\$ 21,068	\$ 21,068
<b>City of Riverside *</b>	<b>\$ 24,485</b>	<b>\$ 27,160</b>	<b>\$ 37,421</b>	<b>\$ 35,931</b>	<b>\$ 30,142</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 2,125	\$ 2,000	\$ 1,682	\$ 1,682	\$ 1,682
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 6,135	\$ (1,600)	\$ 2,300	\$ 6,600	\$ 6,600
<b>City of San Jacinto *</b>	<b>\$ 24,485</b>	<b>\$ 27,160</b>	<b>\$ 37,421</b>	<b>\$ 35,931</b>	<b>\$ 30,142</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 2,125	\$ 2,000	\$ 1,682	\$ 1,682	\$ 1,682
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 6,135	\$ (1,600)	\$ 2,300	\$ 6,600	\$ 6,600
<b>City of Menifee *</b>	<b>\$ 56,483</b>	<b>\$ 25,925</b>	<b>\$ 62,099</b>	<b>\$ 88,303</b>	<b>\$ 82,514</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 6,885	\$ 7,869	\$ 11,547	\$ 11,547	\$ 11,547
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 33,373	\$ (8,704)	\$ 17,113	\$ 49,107	\$ 49,107

<b>City of Wildomar *</b>	<b>\$ 19,880</b>	<b>\$ 27,172</b>	<b>\$ 32,042</b>	<b>\$ 26,253</b>	<b>\$ 20,463</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 3,655	\$ 3,647	\$ 1,682	\$ 1,682	\$ 1,682
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Elsinore Valley Municipal Water District (EVMWD)</b>	<b>\$ 16,225</b>	<b>\$ 23,525</b>	<b>\$ 30,361</b>	<b>\$ 24,571</b>	<b>\$ 18,782</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ -	\$ -	\$ -	\$ -	\$ -
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ -	\$ -	\$ -	\$ -	\$ -
<b>San Jacinto Agricultural Operators</b>	<b>\$ 47,549</b>	<b>\$ 28,501</b>	<b>\$ 45,785</b>	<b>\$ 54,287</b>	<b>\$ 48,498</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 12,920	\$ 6,541	\$ 4,702	\$ 4,702	\$ 4,702
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 18,404	\$ (4,800)	\$ 7,644	\$ 21,935	\$ 21,935
<b>San Jacinto Dairy &amp; CAFO Operators</b>	<b>\$ 16,225</b>	<b>\$ 25,160</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 16,225	\$ 19,525	\$ -	\$ -	\$ -
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ -	\$ -	\$ -	\$ -	\$ -
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ -	\$ -	\$ -
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ -	\$ -	\$ -
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ -	\$ (1,600)	\$ -	\$ -	\$ -

<b>CALTRANS - freeway</b>	<b>\$ 28,656</b>	<b>\$ 26,072</b>	<b>\$ 37,421</b>	<b>\$ 35,931</b>	<b>\$ 30,142</b>
Task Force Regulatory/Administrative Expenses	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 2,125	\$ 2,000	\$ 1,682	\$ 1,682	\$ 1,682
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 10,306	\$ (2,688)	\$ 2,300	\$ 6,600	\$ 6,600
<b>CA DF&amp;G - San Jacinto Wetlands</b>	<b>\$ 24,570</b>	<b>\$ 28,760</b>	<b>\$ 35,121</b>	<b>\$ 29,331</b>	<b>\$ 23,542</b>
Task Force Regulatory/Administrative Expenses	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 2,210	\$ 2,000	\$ 1,682	\$ 1,682	\$ 1,682
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 6,135	\$ -	\$ -	\$ -	\$ -
<b>Eastern Municipal Water District</b>	<b>\$ 16,225</b>	<b>\$ 23,525</b>	<b>\$ 27,789</b>	<b>\$ 22,000</b>	<b>\$ 16,211</b>
Task Force Regulatory/Administrative Expenses	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ -	\$ -	\$ -	\$ -	\$ -
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ -	\$ -	\$ -
Canyon Lake Nutrient Monitoring Program	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ -	\$ -	\$ -	\$ -	\$ -
<b>March Air Reserve Base Joint Powers Authority</b>	<b>\$ 24,485</b>	<b>\$ 27,160</b>	<b>\$ 37,421</b>	<b>\$ 35,931</b>	<b>\$ 30,142</b>
Task Force Regulatory/Administrative Expenses	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 2,125	\$ 2,000	\$ 1,682	\$ 1,682	\$ 1,682
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 6,135	\$ (1,600)	\$ 2,300	\$ 6,600	\$ 6,600

<b>US Air Force (March Air Reserve Base)</b>	<b>\$ 35,226</b>	<b>\$ 24,536</b>	<b>\$ 37,421</b>	<b>\$ 35,931</b>	<b>\$ 30,142</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 16,225	\$ 19,525	\$ 27,789	\$ 22,000	\$ 16,211
<b>TMDL Compliance Monitoring Expenses</b>					
Watershed-wide Nutrient Monitoring Program	\$ 2,805	\$ 2,000	\$ 1,682	\$ 1,682	\$ 1,682
Lake Elsinore Nutrient Monitoring Program	\$ -	\$ 4,000	\$ 2,571	\$ 2,571	\$ 2,571
Canyon Lake Nutrient Monitoring Program	\$ -	\$ 3,235	\$ 3,079	\$ 3,079	\$ 3,079
<b>Lake Elsinore Project Alternatives</b>					
Aeration & Destratification System O&M	\$ -	\$ -	\$ -	\$ -	\$ -
Fishery Management O&M	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ 16,196	\$ (4,224)	\$ 2,300	\$ 6,600	\$ 6,600
<b>Total:</b>	<b>\$ 654,892</b>	<b>\$ 541,500</b>	<b>\$ 782,806</b>	<b>\$ 844,806</b>	<b>\$ 734,806</b>

footnote: (\*) designates MS4 co-permittees