

**DRAFT FY 2019-20 Budget: Lake Elsinore & Canyon Lake TMDL Task Force**

4/4/2019

**Summary Task Force Expenditures**

**Draft Budget  
2019-20**

**Part A: TMDL Task Force Budget**

<b>1. Task Force Administration</b>	<b>\$ 80,000</b>
Task Force Administrator (LESJWA)	\$ 80,000
Grant Preparation/Administration	\$ -
<b>2. TMDL Compliance Expert</b>	<b>\$ 88,000</b>
Risk Sciences	\$ 68,000
Compliance Expert Support	\$ 20,000
<b>3. TMDL Compliance Monitoring</b>	<b>\$ 220,587</b>
Watershed-wide Nutrient Monitoring Program	\$ 77,708
Lake Elsinore Nutrient Monitoring Program	\$ 79,389
Canyon Lake Nutrient Monitoring Program	\$ 63,491
High Resolution Satellite Imagery	\$ -
<b>4. TMDL Update - Adoption and Implementation</b>	<b>\$ 50,000</b>
Support Adoption Process	\$ 50,000
<b>5. Contingency</b>	<b>\$ -</b>
<b>Part A: TMDL Task Force Budget: \$ 438,587</b>	

**Part B: TMDL Project Budget**

<b>6. Lake Elsinore Project Alternatives</b>	
<b>Lake Elsinore Aeration and Mixing System (LEAMS) Offset Credit Purchase</b>	<b>\$ 121,200</b>
LEAMS O&M	\$ 121,200
<b>Fishery Management</b>	<b>\$ 130,193</b>
Fishery Survey	\$ 125,193
Carp Removal Program (Fishery Management O&M)	\$ -
Project Administration	\$ 5,000
<b>7. Canyon Lake Project Alternatives</b>	<b>\$ 95,257</b>
Chemical Additions - Alum Dosing (Fall, '19 and Spring, '20)	\$ 90,257
Project Administration	\$ 5,000
<b>TMDL Task Force Part B Implementation Budget \$ 346,650</b>	
<b>LE&amp;CL TMDL Implementation Budget: \$ 785,237</b>	

**Task Force Administration**

- Organize and facilitate TMDL TASK FORCE 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,
- Act 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 the work of the TMDL TASK FORCE and other 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,
- Coordinate and facilitate the addition of other Monitoring Programs to the Task Force,
- Provide TMDL TASK FORCE members an opportunity to comment and approve any reports or other work product developed.

**TMDL Compliance Expert**

- Serve as regulatory strategist and compliance expert for the Task Force

## Task Force Agency Contributions Summary

Draft Budget  
2019-20

### 1. Task Force Agency Allocation

Total

<b>MS4 Co-Permittees (Total)</b>	<b>\$ 567,847</b>
Riverside County	\$ 79,326
City of Beaumont	\$ 28,251
City of Canyon Lake	\$ 33,588
City of Hemet	\$ 41,544
City of Lake Elsinore	\$ 34,585
City of Moreno Valley	\$ 86,122
City of Murrieta	\$ 30,785
City of Perris	\$ 56,009
City of Riverside	\$ 30,889
City of San Jacinto	\$ 26,751
City of Menifee	\$ 88,761
City of Wildomar	\$ 31,235
<b>Elsinore Valley Municipal Water District (EVMWD)</b>	<b>\$ 24,767</b>
<b>San Jacinto Agricultural Operators (WRCAC)</b>	<b>\$ 37,602</b>
<b>San Jacinto Dairy &amp; CAFO Operators *</b>	<b>\$ -</b>
<b>CA Department of Transportation</b>	<b>\$ 34,120</b>
<b>CA DF&amp;W - San Jacinto Wetlands</b>	<b>\$ 26,751</b>
<b>Eastern Municipal Water District</b>	<b>\$ 30,585</b>
<b>March Air Reserve Base Joint Powers Authority</b>	<b>\$ 30,865</b>
<b>US Air Force (March Air Reserve Base)</b>	<b>\$ 32,699</b>
<b>CR&amp;R (Composting Project)</b>	<b>\$ -</b>
<b>Nevada Hydro (LEAPS Project)</b>	<b>\$ -</b>
<b>Total Funding Required</b>	<b>\$ 785,237</b>

Note: \* San Jacinto Dairy & CAFO Operators contributions to the LE&CL TMDL Task Force are made through WRCAC

**Lake Elsinore Aeration and Mixing System (LEAMS) Offset Credit Allocation (to be handled by separate agreement)**

**Draft Budget  
2019-20**

<b>MS4 Co-Permittees</b>	<b>\$ 104,250</b>
Riverside County	partner
City of Beaumont	\$ 1,500
City of Canyon Lake	\$ 3,750
City of Hemet	\$ 8,250
City of Lake Elsinore	partner
City of Moreno Valley	\$ 32,850
City of Murrieta	\$ 1,500
City of Perris	\$ 16,650
City of Riverside	\$ 1,500
City of San Jacinto	
City of Meniffee	\$ 31,050
City of Wildomar	\$ 7,200
<b>Elsinore Valley Municipal Water District (EVMWD)</b>	partner
<b>San Jacinto Agricultural Operators (WRCAC)</b>	<b>\$ 5,700</b>
<b>San Jacinto Dairy &amp; CAFO Operators</b>	
<b>CALTRANS - freeway</b>	<b>\$ 4,950</b>
<b>CA DF&amp;W - San Jacinto Wetlands</b>	
<b>Eastern Municipal Water District</b>	<b>\$ 1,500</b>
<b>March Air Reserve Base Joint Powers Authority</b>	<b>\$ 1,500</b>
<b>US Air Force (March Air Reserve Base)</b>	<b>\$ 3,300</b>
<b>CR&amp;R (Composting Project)</b>	
<b>Nevada Hydro (LEAPS Project)</b>	
	<b>Funding Required \$ 121,200</b>

Note: LEAMS Excess Offset Credits are based upon modeling conducted by Dr. Alex Horne (Horne Dec. 2012 and Horne Mar. 2015). Credit Allocations are estimated as the number of credits to bring stakeholder into compliance (CDM Smith 2018).

## Task Force Agency Contributions Detailed Tables

Draft Budget  
2019-20

### Part A: Task Force Regulatory/Administrative Budget

<i>Task Force Regulatory/Administrative Expenses</i>	Allocation
<b>MS4 Co-Permittees</b>	<b>\$ 106,105</b>
Riverside County	\$ 8,842
City of Beaumont	\$ 8,842
City of Canyon Lake	\$ 8,842
City of Hemet	\$ 8,842
City of Lake Elsinore	\$ 8,842
City of Moreno Valley	\$ 8,842
City of Murrieta	\$ 8,842
City of Perris	\$ 8,842
City of Riverside	\$ 8,842
City of San Jacinto	\$ 8,842
City of Menifee	\$ 8,842
City of Wildomar	\$ 8,842
<b>Elsinore Valley Municipal Water District (EVMWD)</b>	<b>\$ 8,842</b>
<b>San Jacinto Agricultural Operators (WRCAC)</b>	<b>\$ 8,842</b>
<b>San Jacinto Dairy &amp; CAFO Operators *</b>	
<b>CALTRANS - freeway</b>	<b>\$ 8,842</b>
<b>CA DF&amp;W - San Jacinto Wetlands</b>	<b>\$ 8,842</b>
<b>Eastern Municipal Water District</b>	<b>\$ 8,842</b>
<b>March Air Reserve Base Joint Powers Authority</b>	<b>\$ 8,842</b>
<b>US Air Force (March Air Reserve Base)</b>	<b>\$ 8,842</b>
<b>CR&amp;R (Composting Project)</b>	
<b>Nevada Hydro (LEAPS Project)</b>	
<b>Funding Required</b>	<b>\$ 168,000</b>

Note: \* San Jacinto Dairy & CAFO Operators contributions to the LE&CL TMDL Task Force are made through WRCAC

**Part B: TMDL Implementation Project Budget****TMDL Compliance Monitoring Expenses****Watershed-wide Nutrient Monitoring Program****Allocation**

<b>MS4 Co-Permittees</b>			<b>\$ 51,805</b>
Riverside County			\$ 4,317
City of Beaumont			\$ 4,317
City of Canyon Lake			\$ 4,317
City of Hemet			\$ 4,317
City of Lake Elsinore			\$ 4,317
City of Moreno Valley			\$ 4,317
City of Murrieta			\$ 4,317
City of Perris			\$ 4,317
City of Riverside			\$ 4,317
City of San Jacinto			\$ 4,317
City of Menifee			\$ 4,317
City of Wildomar			\$ 4,317
<b>Elsinore Valley Municipal Water District (EVMWD)</b>			
<b>San Jacinto Agricultural Operators (WRCAC)</b>			<b>\$ 4,317</b>
<b>San Jacinto Dairy &amp; CAFO Operators *</b>			
<b>CALTRANS - freeway</b>			<b>\$ 4,317</b>
<b>CA DF&amp;W - San Jacinto Wetlands</b>			<b>\$ 4,317</b>
<b>Eastern Municipal Water District</b>			<b>\$ 4,317</b>
<b>March Air Reserve Base Joint Powers Authority</b>			<b>\$ 4,317</b>
<b>US Air Force (March Air Reserve Base)</b>			<b>\$ 4,317</b>
<b>CR&amp;R (Composting Project)</b>			
<b>Nevada Hydro (LEAPS Project)</b>			
		<b>Funding Required</b>	<b>\$ 77,708</b>

Note: \* San Jacinto Dairy & CAFO Operators contributions to the LE&CL TMDL Task Force are made through WRCAC

**Lake Elsinore Nutrient Monitoring Program + 1/2 Satellite Imagery**

	Allocation
<b>MS4 Co-Permittees</b>	<b>\$ 50,140</b>
Riverside County	\$ 4,178
City of Beaumont	\$ 4,178
City of Canyon Lake	\$ 4,178
City of Hemet	\$ 4,178
City of Lake Elsinore	\$ 4,178
City of Moreno Valley	\$ 4,178
City of Murrieta	\$ 4,178
City of Perris	\$ 4,178
City of Riverside	\$ 4,178
City of San Jacinto	\$ 4,178
City of Menifee	\$ 4,178
City of Wildomar	\$ 4,178
<b>Elsinore Valley Municipal Water District (EVMWD)</b>	<b>\$ 4,178</b>
<b>San Jacinto Agricultural Operators (WRCAC)</b>	<b>\$ 4,178</b>
<b>San Jacinto Dairy &amp; CAFO Operators *</b>	
<b>CALTRANS - freeway</b>	<b>\$ 4,178</b>
<b>CA DF&amp;W - San Jacinto Wetlands</b>	<b>\$ 4,178</b>
<b>Eastern Municipal Water District</b>	<b>\$ 4,178</b>
<b>March Air Reserve Base Joint Powers Authority</b>	<b>\$ 4,178</b>
<b>US Air Force (March Air Reserve Base)</b>	<b>\$ 4,178</b>
<b>CR&amp;R (Composting Project)</b>	
<b>Nevada Hydro (LEAPS Project)</b>	
<b>Funding Required</b>	<b>\$ 79,389</b>

Note: \* San Jacinto Dairy & CAFO Operators contributions to the LE&CL TMDL Task Force are made through WRCAC

**Canyon Lake Nutrient Monitoring Program + 1/2 Satellite Imagery**

Allocation

<b>MS4 Co-Permittees</b>	<b>\$ 38,800</b>
Riverside County	\$ 3,527
City of Beaumont	\$ 3,527
City of Canyon Lake	\$ 3,527
City of Hemet	\$ 3,527
City of Lake Elsinore	\$ 3,527
City of Moreno Valley	\$ 3,527
City of Murrieta	\$ 3,527
City of Perris	\$ 3,527
City of Riverside	\$ 3,527
City of San Jacinto	\$ 3,527
City of Menifee	\$ 3,527
City of Wildomar	
<b>Elsinore Valley Municipal Water District (EVMWD)</b>	<b>\$ 3,527</b>
<b>San Jacinto Agricultural Operators (WRCAC)</b>	<b>\$ 3,527</b>
<b>San Jacinto Dairy &amp; CAFO Operators *</b>	
<b>CALTRANS - freeway</b>	<b>\$ 3,527</b>
<b>CA DF&amp;W - San Jacinto Wetlands</b>	<b>\$ 3,527</b>
<b>Eastern Municipal Water District</b>	<b>\$ 3,527</b>
<b>March Air Reserve Base Joint Powers Authority</b>	<b>\$ 3,527</b>
<b>US Air Force (March Air Reserve Base)</b>	<b>\$ 3,527</b>
<b>CR&amp;R (Composting Project)</b>	
<b>Nevada Hydro (LEAPS Project)</b>	
<b>Funding Required</b>	<b>\$ 63,491</b>

Note: \* San Jacinto Dairy & CAFO Operators contributions to the LE&CL TMDL Task Force are made through WRCAC

## Lake Elsinore Project Alternatives

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

<b>MS4 Co-Permittees</b>	<b>\$ 107,409</b>
Riverside County	\$ 27,359
City of Beaumont	\$ 3,255
City of Canyon Lake	\$ 3,255
City of Hemet	\$ 4,826
City of Lake Elsinore	\$ 8,401
City of Moreno Valley	\$ 18,662
City of Murrieta	\$ 3,255
City of Perris	\$ 9,363
City of Riverside	\$ 3,255
City of San Jacinto	\$ 3,255
City of Menifee	\$ 18,458
City of Wildomar	\$ 4,066
<b>Elsinore Valley Municipal Water District (EVMWD)</b>	<b>\$ 3,255</b>
<b>San Jacinto Agricultural Operators (WRCAC)</b>	<b>\$ 3,255</b>
<b>San Jacinto Dairy &amp; CAFO Operators *</b>	
<b>CALTRANS - freeway</b>	<b>\$ 3,255</b>
<b>CA DF&amp;W - San Jacinto Wetlands</b>	<b>\$ 3,255</b>
<b>Eastern Municipal Water District</b>	<b>\$ 3,255</b>
<b>March Air Reserve Base Joint Powers Authority</b>	<b>\$ 3,255</b>
<b>US Air Force (March Air Reserve Base)</b>	<b>\$ 3,255</b>
<b>CR&amp;R (Composting Project)</b>	
<b>Nevada Hydro (LEAPS Project)</b>	
<b>Funding Required</b>	<b>\$ 130,193</b>

Note: \* San Jacinto Dairy & CAFO Operators contributions to the LE&CL TMDL Task Force are made through WRCAC

## Canyon Lake Project Alternatives

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

<b>MS4 Co-Permittees</b>			<b>\$ 77,758</b>
Riverside County			\$ 28,470
City of Beaumont			
City of Canyon Lake			\$ 3,087
City of Hemet			\$ 4,972
City of Lake Elsinore			\$ 2,688
City of Moreno Valley			\$ 11,113
City of Murrieta			\$ 2,534
City of Perris			\$ 6,500
City of Riverside			\$ 2,638
City of San Jacinto			
City of Menifee			\$ 15,756
City of Wildomar			
<b>Elsinore Valley Municipal Water District (EVMWD)</b>			<b>\$ 2,333</b>
<b>San Jacinto Agricultural Operators</b>			<b>\$ 5,151</b>
<b>San Jacinto Dairy &amp; CAFO Operators</b>			
<b>CALTRANS - freeway</b>			<b>\$ 2,419</b>
<b>CA DF&amp;W - San Jacinto Wetlands</b>			
<b>Eastern Municipal Water District</b>			<b>\$ 2,333</b>
<b>March Air Reserve Base Joint Powers Authority</b>			<b>\$ 2,614</b>
<b>US Air Force (March Air Reserve Base)</b>			<b>\$ 2,648</b>
<b>CR&amp;R (Composting Project)</b>			
<b>Nevada Hydro (LEAPS Project)</b>			
		<b>Funding Required</b>	<b>\$ 95,257</b>

\*\*\* Normalized Multi Criteria Offset Demand or Min Buy in (Alum Project % Need)

1) presumes actual 2018 TMDL Technical Report offset demand estimates

2) Negative numbers are shown as "0", Jurisdictions with zero offset demand are not funding partners

**TMDL Update****Revise & Update TMDL****Allocation**

<b>MS4 Co-Permittees</b>			<b>\$ 31,579</b>
Riverside County			\$ 2,632
City of Beaumont			\$ 2,632
City of Canyon Lake			\$ 2,632
City of Hemet			\$ 2,632
City of Lake Elsinore			\$ 2,632
City of Moreno Valley			\$ 2,632
City of Murrieta			\$ 2,632
City of Perris			\$ 2,632
City of Riverside			\$ 2,632
City of San Jacinto			\$ 2,632
City of Menifee			\$ 2,632
City of Wildomar			\$ 2,632
<b>Elsinore Valley Municipal Water District (EVMWD)</b>			<b>\$ 2,632</b>
<b>San Jacinto Agricultural Operators (WRCAC)</b>			<b>\$ 2,632</b>
<b>San Jacinto Dairy &amp; CAFO Operators *</b>			
<b>CALTRANS - freeway</b>			<b>\$ 2,632</b>
<b>CA DF&amp;W - San Jacinto Wetlands</b>			<b>\$ 2,632</b>
<b>Eastern Municipal Water District</b>			<b>\$ 2,632</b>
<b>March Air Reserve Base Joint Powers Authority</b>			<b>\$ 2,632</b>
<b>US Air Force (March Air Reserve Base)</b>			<b>\$ 2,632</b>
<b>CR&amp;R (Composting Project)</b>			
<b>Nevada Hydro (LEAPS Project)</b>			
		<b>Funding Required</b>	<b>\$ 50,000</b>

Note: \* San Jacinto Dairy & CAFO Operators contributions to the LE&CL TMDL Task Force are made through WRCAC

## Task Force Agency Contributions Detailed Tables

Draft Budget  
2019-20

Allocation

<b>MS4 Co-Permittees (Total)</b>	<b>\$ 567,847</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 106,105
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 51,805
Lake Elsinore Nutrient Monitoring Program	\$ 50,140
Canyon Lake Nutrient Monitoring Program	\$ 38,800
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 107,409
<b>Canyon Lake Project Alternatives</b>	\$ 77,758
<b>TMDL Update</b>	\$ 31,579
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 104,250
<b>Riverside County *</b>	<b>\$ 79,326</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 27,359
<b>Canyon Lake Project Alternatives</b>	\$ 28,470
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	partner
<b>City of Beaumont *</b>	<b>\$ 28,251</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 3,255
<b>Canyon Lake Project Alternatives</b>	\$ -
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 1,500
<b>City of Canyon Lake *</b>	<b>\$ 33,588</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 3,255
<b>Canyon Lake Project Alternatives</b>	\$ 3,087
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 3,750

<b>City of Hemet *</b>	<b>\$ 41,544</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 4,826
<b>Canyon Lake Project Alternatives</b>	\$ 4,972
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 8,250
<b>City of Lake Elsinore *</b>	<b>\$ 34,585</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 8,401
<b>Canyon Lake Project Alternatives</b>	\$ 2,688
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	partner
<b>City of Moreno Valley *</b>	<b>\$ 86,122</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 18,662
<b>Canyon Lake Project Alternatives</b>	\$ 11,113
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 32,850
<b>City of Murrieta *</b>	<b>\$ 30,785</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 3,255
<b>Canyon Lake Project Alternatives</b>	\$ 2,534
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 1,500

<b>City of Perris *</b>	<b>\$ 56,009</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 9,363
<b>Canyon Lake Project Alternatives</b>	\$ 6,500
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 16,650
<b>City of Riverside *</b>	<b>\$ 30,889</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 3,255
<b>Canyon Lake Project Alternatives</b>	\$ 2,638
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 1,500
<b>City of San Jacinto *</b>	<b>\$ 26,751</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 3,255
<b>Canyon Lake Project Alternatives</b>	\$ -
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ -
<b>City of Menifee *</b>	<b>\$ 88,761</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 18,458
<b>Canyon Lake Project Alternatives</b>	\$ 15,756
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 31,050

<b>City of Wildomar *</b>	<b>\$ 31,235</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ -
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 4,066
<b>Canyon Lake Project Alternatives</b>	\$ -
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 7,200
<b>Elsinore Valley Municipal Water District (EVMWD)</b>	<b>\$ 24,767</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ -
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 3,255
<b>Canyon Lake Project Alternatives</b>	\$ 2,333
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	partner
<b>San Jacinto Agricultural Operators</b>	<b>\$ 37,602</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 3,255
<b>Canyon Lake Project Alternatives</b>	\$ 5,151
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 5,700
<b>San Jacinto Dairy &amp; CAFO Operators</b>	<b>\$ -</b>
<b>Task Force Regulatory/Administrative Expenses</b>	\$ -
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ -
Lake Elsinore Nutrient Monitoring Program	\$ -
Canyon Lake Nutrient Monitoring Program	\$ -
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ -
<b>TMDL Update</b>	\$ -
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ -

<b>CALTRANS - freeway</b>	<b>\$ 34,120</b>
Task Force Regulatory/Administrative Expenses	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 3,255
<b>Canyon Lake Project Alternatives</b>	\$ 2,419
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 4,950
<b>CA DF&amp;W - San Jacinto Wetlands</b>	<b>\$ 26,751</b>
Task Force Regulatory/Administrative Expenses	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 3,255
<b>Canyon Lake Project Alternatives</b>	\$ -
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ -
<b>Eastern Municipal Water District</b>	<b>\$ 30,585</b>
Task Force Regulatory/Administrative Expenses	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 3,255
<b>Canyon Lake Project Alternatives</b>	\$ 2,333
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 1,500
<b>March Air Reserve Base Joint Powers Authority</b>	<b>\$ 30,865</b>
Task Force Regulatory/Administrative Expenses	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 3,255
<b>Canyon Lake Project Alternatives</b>	\$ 2,614
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 1,500

<b>US Air Force (March Air Reserve Base)</b>	<b>\$ 32,699</b>
Task Force Regulatory/Administrative Expenses	\$ 8,842
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ 3,255
<b>Canyon Lake Project Alternatives</b>	\$ 2,648
<b>TMDL Update</b>	\$ 2,632
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 3,300
<b>CR&amp;R (Composting Project)</b>	<b>\$ -</b>
Task Force Regulatory/Administrative Expenses	\$ -
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ -
Lake Elsinore Nutrient Monitoring Program	\$ -
Canyon Lake Nutrient Monitoring Program	\$ -
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ -
<b>TMDL Update</b>	\$ -
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Buy-in Amount to Join Task Force (Applied to TMDL Contingency Fund)	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ -
<b>Nevada Hydro (LEAPS Project)</b>	<b>\$ -</b>
Task Force Regulatory/Administrative Expenses	\$ -
<b>TMDL Compliance Monitoring Expenses</b>	
Watershed-wide Nutrient Monitoring Program	\$ -
Lake Elsinore Nutrient Monitoring Program	\$ -
Canyon Lake Nutrient Monitoring Program	\$ -
<b>Lake Elsinore Project Alternatives</b>	
Fishery Management O&M	\$ -
<b>Canyon Lake Project Alternatives</b>	\$ -
<b>TMDL Update</b>	\$ -
<b>Reimbursement from Cash Reserve</b>	\$ -
<b>Other Contributions:</b>	
Buy-in Amount to Join Task Force (Applied to TMDL Contingency Fund)	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ -
<b>Total:</b>	<b>\$ 785,237</b>

footnote: (\*) designates MS4 co-permittees

Table 6-4

Project Cost Shares for 2019

Type	Group	Responsible Agency	Load Reductions for Canyon Lake Main Lake		Load Reductions for Canyon Lake East Bay		Load Reductions for Local Lake Elsinore		Load Reductions for Canyon Lake Overflow to Lake Elsinore		Alum Project		Lake Elsinore In-Lake BMPs
			TP (kg/yr)	TN (kg/yr)	TP (kg/yr)	TN (kg/yr)	TP (kg/yr)	TN (kg/yr)	TP (kg/yr)	TN (kg/yr)	Cost Share %	Alum Demand (kg as dry alum)	Cost Share for (%)
WLA	MS4 Permittees	BANNING	-	-	-	-	-	-	1	7			0.04%
WLA	MS4 Permittees	BEAUMONT	-	-	-	-	-	-	3	43			0.23%
WLA	Caltrans	Caltrans	1	130	0	45	1	81	-	280	0.09%	182	1.36%
WLA	MS4 Permittees	CANYON LAKE	5	55	6	90	3	48	16	217	0.81%	1,605	1.40%
WLA	Federal	Federal - DOD	4	158	-	-	-	-	7	237	0.34%	670	1.03%
WLA	MS4 Permittees	HEMET	-	-	37	332	-	-	68	603	2.85%	5,622	3.70%
WLA	MS4 Permittees	LAKE ELSINORE	4	49	1	15	26	1,038	8	96	0.38%	755	4.94%
WLA	March JPA	March Joint Powers Authority	4	54	-	-	-	-	6	81	0.30%	598	0.43%
WLA	MS4 Permittees	MENIFEE	45	297	146	1,204	4	24	286	2,252	14.50%	28,596	14.69%
WLA	MS4 Permittees	MORENO VALLEY	125	1,604	-	-	-	-	187	2,407	9.48%	18,705	12.97%
WLA	MS4 Permittees	MURRIETA	-	-	3	37	-	-	4	56	0.22%	428	0.30%
WLA	MS4 Permittees	PERRIS	59	809	0	-	-	-	89	1,213	4.50%	8,876	6.41%
WLA	MS4 Permittees	RIVERSIDE	4	55	-	-	-	-	6	82	0.33%	649	0.44%
WLA	MS4 Permittees	Riverside County	210	1,093	162	402	50	466	666	2,621	28.23%	55,683	26.85%
WLA	MS4 Permittees	SAN JACINTO	-	-	0	2	-	-	22	167			1.09%
WLA	MS4 Permittees	WILDOMAR	-	-	-	-	40	525	-	-			2.81%
LA	Ag-CWAD	Ag-CWAD Irrigated	30	-	10	-	-	-	66	-	3.04%	6,003	1.42%
LA	Ag-CWAD	Ag-CWAD Non-irrigated	237	285	155	176	1	1	665	801	29.85%	58,873	17.27%
LA	Ag-Small	Ag-Small	37	24	27	24	0	-	98	70	4.88%	9,617	2.37%
LA	State	CA Department of Fish and Wildlife	0.01	0.13	-	-	-	-	0.30	0.47	0.001%	1	0.01%
LA	Federal	Federal - National Forest	-	-	-	-	0.53	2.00	1.01	6.14			0.06%
LA	Federal	Federal - Other	-	-	0.70	0.65	-	-	0.20	-	0.05%	106	0.004%
LA	Federal	Federal - Wilderness	-	-	-	-	-	-	0.01	0.00			0.0002%
LA	State	State Land	1.86	5.19	-	-	-	-	2.85	8.56	0.14%	279	0.09%
LA	Tribal	Tribal Reservations	-	-	-	-	-	-	0.36	6.33			0.03%
LA	State	Western Riverside Co Reg Cons Aut	0.001	0.01	0.01	0.10	-	-	1.97	2.07	0.001%	1	0.05%
<b>Total Allowable Watershed Load</b>			<b>767</b>	<b>4,617</b>	<b>548</b>	<b>2,327</b>	<b>127</b>	<b>2,186</b>	<b>2,204</b>	<b>11,258</b>	<b>100%</b>	<b>196,863</b>	<b>100%</b>

## Allocation Worksheet

2019-20

**Lake Elsinore Aeration and Mixing System (LEAMS) Offset  
Credit Allocation (to be handled by separate agreement)**

	TP (kg/yr)	TN (kg/yr)	TP (hrs/yr)	TN (hrs/yr)	MAX (hrs/yr)	Est. Cost	Est. Cost 10 hours	MAX (cost)	
			1.75	11.0		\$ 150	\$ 150		
<b>MS4 Co-Permittees</b>									
Riverside County	717	3,087	410	281	410	\$ 61,500	\$ 1,500	\$ 61,500	Operating Partner
City of Beaumont	3	43	2	4	4	\$ 600	\$ 1,500	\$ 1,500	
City of Canyon Lake	19	265	12	25	25	\$ 3,750	\$ 1,500	\$ 3,750	
City of Hemet	68	603	39	55	55	\$ 8,250	\$ 1,500	\$ 8,250	
City of Lake Elsinore	34	1,134	20	104	104	\$ 15,600	\$ 1,500	\$ 15,600	Operating Partner
City of Moreno Valley	187	2,407	108	219	219	\$ 32,850	\$ 1,500	\$ 32,850	
City of Murrieta	4	56	3	6	6	\$ 900	\$ 1,500	\$ 1,500	
City of Perris	89	1,213	51	111	111	\$ 16,650	\$ 1,500	\$ 16,650	
City of Riverside	6	82	4	8	8	\$ 1,200	\$ 1,500	\$ 1,500	
City of San Jacinto	22	167	13	16	16	\$ 2,400	\$ 1,500	\$ -	No Contribution
City of Menifee	290	2,276	166	207	207	\$ 31,050	\$ 1,500	\$ 31,050	
City of Wildomar	40	525	23	48	48	\$ 7,200	\$ 1,500	\$ 7,200	
<b>Elsinore Valley Municipal Water District (EVMWD)</b>	-	-	-	-	-	\$ -	\$ -	\$ -	Operating Partner
<b>San Jacinto Agricultural Operators (WRCAC)</b>	66	-	38	-	38	\$ 5,700	\$ 1,500	\$ 5,700	
<b>San Jacinto Dairy &amp; CAFO Operators</b>	-	-	-	-	-	\$ -	\$ -	\$ -	not applicable
<b>CALTRANS - freeway</b>	1	361	1	33	33	\$ 4,950	\$ 1,500	\$ 4,950	
<b>CA DF&amp;W - San Jacinto Wetlands</b>	-	-	-	-	-	\$ -	\$ -	\$ -	not applicable
<b>Eastern Municipal Water District</b>	-	-	-	-	-	\$ -	\$ 1,500	\$ 1,500	
<b>March Air Reserve Base Joint Powers Authority</b>	6	81	4	8	8	\$ 1,200	\$ 1,500	\$ 1,500	
<b>US Air Force (March Air Reserve Base)</b>	7	237	4	22	22	\$ 3,300	\$ 1,500	\$ 3,300	
<b>CR&amp;R (Composting Project)</b>	-	-	-	-	-	\$ -	\$ -	\$ -	
<b>Nevada Hydro (LEAPS Project)</b>	-	-	-	-	-	\$ -	\$ -	\$ -	not applicable
<b>Funding Required</b>	809	8,317	468	762	800	\$ 120,000		\$ 121,200	

## Allocation Worksheet

## Canyon Lake Alum Addition Project

	TP (kg/yr)	TN (kg/yr)	TP (kg as dry alum)		Alum (gal)	cost alum (\$/gal)	Fixed Costs	Total
			150	Cost Share %	2.45	\$ 1.15	\$ 35,000	Est. Cost
<b>MS4 Co-Permittees</b>	806	6,041	120,920	94.19%	49,355	\$ 56,758	\$ 21,000	\$ 77,758
Riverside County	371	1,495	55,683.36	43.38%	22,728	\$ 26,137	\$ 2,333	\$ 28,470
City of Beaumont	-	-	-		-	\$ -		
City of Canyon Lake	11	145	1,604.58	1.25%	655	\$ 753	\$ 2,333	\$ 3,087
City of Hemet	37	332	5,622.31	4.38%	2,295	\$ 2,639	\$ 2,333	\$ 4,972
City of Lake Elsinore	5	64	754.79	0.59%	308	\$ 354	\$ 2,333	\$ 2,688
City of Moreno Valley	125	1,604	18,705.19	14.57%	7,635	\$ 8,780	\$ 2,333	\$ 11,113
City of Murrieta	3	37	427.67	0.33%	175	\$ 201	\$ 2,333	\$ 2,534
City of Perris	59	809	8,876.33	6.91%	3,623	\$ 4,166	\$ 2,333	\$ 6,500
City of Riverside	4	55	649.25	0.51%	265	\$ 305	\$ 2,333	\$ 2,638
City of San Jacinto			-		-	\$ -		
City of Menifee	191	1,502	28,596.31	22.28%	11,672	\$ 13,423	\$ 2,333	\$ 15,756
City of Wildomar	-	-	-		-	\$ -		
<b>Elsinore Valley Municipal Water District (EVMWD)</b>	-	-	-		-	\$ -	\$ 2,333	\$ 2,333
<b>San Jacinto Agricultural Operators (WRCAC)</b>	40	-	6,002.70	4.68%	2,450	\$ 2,818	\$ 2,333	\$ 5,151
<b>San Jacinto Dairy &amp; CAFO Operators</b>	-	-	-		-	\$ -		
<b>CALTRANS - freeway</b>	1	175	181.54	0.14%	74	\$ 85	\$ 2,333	\$ 2,419
<b>CA DF&amp;W - San Jacinto Wetlands</b>	-	-	-		-	\$ -		
<b>Eastern Municipal Water District</b>	-	-	-		-	\$ -	\$ 2,333	\$ 2,333
<b>March Air Reserve Base Joint Powers Authority</b>	4	54	598.29	0.47%	244	\$ 281	\$ 2,333	\$ 2,614
<b>US Air Force (March Air Reserve Base)</b>	4	158	670.42	0.52%	274	\$ 315	\$ 2,333	\$ 2,648
<b>CR&amp;R (Composting Project)</b>								
<b>Nevada Hydro (LEAPS Project)</b>			-		-	\$ -		\$ -
<b>Funding Required</b>	856	6,428	128,373	100%	52,397	\$ 60,257	\$ 35,000	\$ 95,257