

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**

1. Task Force Administration	\$ 80,000
Task Force Administrator (LESJWA)	\$ 80,000
Grant Preparation/Administration	\$ -
2. TMDL Compliance Expert	\$ 88,000
Risk Sciences	\$ 68,000
Compliance Expert Support	\$ 20,000
3. TMDL Compliance Monitoring	\$ 220,587
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	\$ -
4. TMDL Update - Adoption and Implementation	\$ 50,000
Support Adoption Process	\$ 50,000
5. Contingency	\$ 23,496
Part A: TMDL Task Force Budget:	\$ 462,083

Part B: TMDL Project Budget

6. Lake Elsinore Project Alternatives	
Lake Elsinore Aeration and Mixing System (LEAMS) Offset Credit Purchase	\$ 121,890
LEAMS O&M	\$ 121,890
Fishery Management	\$ 130,193
Fishery Survey	\$ 125,193
Carp Removal Program (Fishery Management O&M)	\$ -
Project Administration	\$ 5,000
7. Canyon Lake Project Alternatives	\$ 98,889
Chemical Additions - Alum Dosing (Fall, '19 and Spring, '20)	\$ 93,889
Project Administration	\$ 5,000
TMDL Task Force Part B Implementation Budget	\$ 350,972
LE&CL TMDL Implementation Budget:	\$ 813,055

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

MS4 Co-Permittees (Total)	\$ 553,150
Riverside County	\$ 81,634
City of Beaumont	\$ 28,251
City of Canyon Lake	\$ 33,754
City of Hemet	\$ 41,830
City of Lake Elsinore	\$ 33,361
City of Moreno Valley	\$ 80,826
City of Murrieta	\$ 30,774
City of Perris	\$ 50,792
City of Riverside	\$ 26,751
City of San Jacinto	\$ 26,751
City of Menifee	\$ 86,846
City of Wildomar	\$ 31,578
Elsinore Valley Municipal Water District (EVMWD)	\$ 24,934
San Jacinto Agricultural Operators (WRCAC)	\$ 52,967
San Jacinto Dairy & CAFO Operators *	\$ 2,850
CA Department of Transportation	\$ 34,286
CA DF&W - San Jacinto Wetlands	\$ 26,751
Eastern Municipal Water District	\$ 30,751
March Air Reserve Base Joint Powers Authority	\$ 31,006
US Air Force (March Air Reserve Base)	\$ 32,863
CR&R (Composting Project) †	\$ 23,496
Nevada Hydro (LEAPS Project)	\$ -
Total Funding Required	\$ 813,055

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

† CR&R Allocation estimated as a Part A equal share budget allocation to be employed by the Task Force as contingency

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

**Draft Budget
2019-20**

MS4 Co-Permittees	\$ 93,750
Riverside County	partner
City of Beaumont	\$ 1,500
City of Canyon Lake	\$ 3,750
City of Hemet	\$ 8,100
City of Lake Elsinore	partner
City of Moreno Valley	\$ 29,100
City of Murrieta	\$ 1,500
City of Perris	\$ 13,350
City of Riverside	\$ -
City of San Jacinto	\$ -
City of Menifee	\$ 29,250
City of Wildomar	\$ 7,200
Elsinore Valley Municipal Water District (EVMWD)	partner
San Jacinto Agricultural Operators (WRCAC) * +	\$ 14,040
San Jacinto Dairy & CAFO Operators	\$ 2,850
CALTRANS - freeway	\$ 4,950
CA DF&W - San Jacinto Wetlands	
Eastern Municipal Water District (EMWD) +	\$ 1,500
March Air Reserve Base Joint Powers Authority	\$ 1,500
US Air Force (March Air Reserve Base)	\$ 3,300
CR&R (Composting Project)	
Nevada Hydro (LEAPS Project)	
	Funding Required \$ 121,890

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).

* San Jacinto Agricultural Operators (WRCAC) stakeholder allocation based upon actual amount paid in FY 2018-19

+ contributions by WRCAC and EMWD include a portion of the load allocation attributed to agriculture (including irrigated, and non-irrigated agriculture) but do not reflect the total load allocation to Agriculture. A significant portion of the load allocation is currently un-assigned to any member of the LE&CL TMDL Task Force.

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
MS4 Co-Permittees	\$ 106,105
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
Elsinore Valley Municipal Water District (EVMWD)	\$ 8,842
San Jacinto Agricultural Operators (WRCAC)	\$ 8,842
San Jacinto Dairy & CAFO Operators *	
CALTRANS - freeway	\$ 8,842
CA DF&W - San Jacinto Wetlands	\$ 8,842
Eastern Municipal Water District	\$ 8,842
March Air Reserve Base Joint Powers Authority	\$ 8,842
US Air Force (March Air Reserve Base)	\$ 8,842
CR&R (Composting Project)	
Nevada Hydro (LEAPS Project)	
Funding Required	\$ 168,000

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**

MS4 Co-Permittees			\$ 51,805
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
Elsinore Valley Municipal Water District (EVMWD)			
San Jacinto Agricultural Operators (WRCAC)			\$ 4,317
San Jacinto Dairy & CAFO Operators *			
CALTRANS - freeway			\$ 4,317
CA DF&W - San Jacinto Wetlands			\$ 4,317
Eastern Municipal Water District			\$ 4,317
March Air Reserve Base Joint Powers Authority			\$ 4,317
US Air Force (March Air Reserve Base)			\$ 4,317
CR&R (Composting Project)			
Nevada Hydro (LEAPS Project)			
		Funding Required	\$ 77,708

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
MS4 Co-Permittees	\$ 50,140
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
Elsinore Valley Municipal Water District (EVMWD)	\$ 4,178
San Jacinto Agricultural Operators (WRCAC)	\$ 4,178
San Jacinto Dairy & CAFO Operators *	
CALTRANS - freeway	\$ 4,178
CA DF&W - San Jacinto Wetlands	\$ 4,178
Eastern Municipal Water District	\$ 4,178
March Air Reserve Base Joint Powers Authority	\$ 4,178
US Air Force (March Air Reserve Base)	\$ 4,178
CR&R (Composting Project)	
Nevada Hydro (LEAPS Project)	
Funding Required	\$ 79,389

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

MS4 Co-Permittees	\$ 38,800
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	
Elsinore Valley Municipal Water District (EVMWD)	\$ 3,527
San Jacinto Agricultural Operators (WRCAC)	\$ 3,527
San Jacinto Dairy & CAFO Operators *	
CALTRANS - freeway	\$ 3,527
CA DF&W - San Jacinto Wetlands	\$ 3,527
Eastern Municipal Water District	\$ 3,527
March Air Reserve Base Joint Powers Authority	\$ 3,527
US Air Force (March Air Reserve Base)	\$ 3,527
CR&R (Composting Project)	
Nevada Hydro (LEAPS Project)	
Funding Required	\$ 63,491

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**

MS4 Co-Permittees	\$ 107,409
Riverside County	\$ 29,593
City of Beaumont	\$ 3,255
City of Canyon Lake	\$ 3,255
City of Hemet	\$ 5,140
City of Lake Elsinore	\$ 7,091
City of Moreno Valley	\$ 17,935
City of Murrieta	\$ 3,255
City of Perris	\$ 8,120
City of Riverside	\$ 3,255
City of San Jacinto	\$ 3,255
City of Menifee	\$ 18,847
City of Wildomar	\$ 4,409
Elsinore Valley Municipal Water District (EVMWD)	\$ 3,255
San Jacinto Agricultural Operators (WRCAC)	\$ 3,255
San Jacinto Dairy & CAFO Operators *	
CALTRANS - freeway	\$ 3,255
CA DF&W - San Jacinto Wetlands	\$ 3,255
Eastern Municipal Water District	\$ 3,255
March Air Reserve Base Joint Powers Authority	\$ 3,255
US Air Force (March Air Reserve Base)	\$ 3,255
CR&R (Composting Project)	
Nevada Hydro (LEAPS Project)	
Funding Required	\$ 130,193

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**

MS4 Co-Permittees			\$ 73,561
Riverside County			\$ 28,544
City of Beaumont			
City of Canyon Lake			\$ 3,253
City of Hemet			\$ 5,094
City of Lake Elsinore			\$ 2,774
City of Moreno Valley			\$ 10,295
City of Murrieta			\$ 2,523
City of Perris			\$ 5,825
City of Riverside			
City of San Jacinto			
City of Menifee			\$ 15,252
City of Wildomar			
Elsinore Valley Municipal Water District (EVMWD)			\$ 2,500
San Jacinto Agricultural Operators *			\$ 12,176
San Jacinto Dairy & CAFO Operators			
CALTRANS - freeway			\$ 2,585
CA DF&W - San Jacinto Wetlands			
Eastern Municipal Water District			\$ 2,500
March Air Reserve Base Joint Powers Authority			\$ 2,755
US Air Force (March Air Reserve Base)			\$ 2,812
CR&R (Composting Project)			
Nevada Hydro (LEAPS Project)			
		Funding Required	\$ 98,889

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

* San Jacinto Agricultural Operators (WRCAC) stakeholder allocation based upon proportional amount paid in FY 2018-19

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**

MS4 Co-Permittees			\$ 31,579
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
Elsinore Valley Municipal Water District (EVMWD)			\$ 2,632
San Jacinto Agricultural Operators (WRCAC)			\$ 2,632
San Jacinto Dairy & CAFO Operators *			
CALTRANS - freeway			\$ 2,632
CA DF&W - San Jacinto Wetlands			\$ 2,632
Eastern Municipal Water District			\$ 2,632
March Air Reserve Base Joint Powers Authority			\$ 2,632
US Air Force (March Air Reserve Base)			\$ 2,632
CR&R (Composting Project)			
Nevada Hydro (LEAPS Project)			
Funding Required			\$ 50,000

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

Reimbursement from Cash Reserve**Cash Reimbursed**

MS4 Co-Permittees			\$ -
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			\$ -
Elsinore Valley Municipal Water District (EVMWD)			\$ -
San Jacinto Agricultural Operators			\$ -
San Jacinto Dairy & CAFO Operators			\$ -
CALTRANS - freeway			\$ -
CA DF&W - San Jacinto Wetlands			\$ -
Eastern Municipal Water District			\$ -
March Air Reserve Base Joint Powers Authority			\$ -
US Air Force (March Air Reserve Base)			\$ -
CR&R (Composting Project)			\$ -
Nevada Hydro (LEAPS Project)			\$ -
Total Amount Reimbursed			\$ -

Task Force Agency Contributions Detailed Tables

Draft Budget
2019-20

Allocation

MS4 Co-Permittees (Total)	\$ 553,150
Task Force Regulatory/Administrative Expenses	\$ 106,105
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 51,805
Lake Elsinore Nutrient Monitoring Program	\$ 50,140
Canyon Lake Nutrient Monitoring Program	\$ 38,800
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 107,409
Canyon Lake Project Alternatives	\$ 73,561
TMDL Update	\$ 31,579
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 93,750
Riverside County *	\$ 81,634
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 29,593
Canyon Lake Project Alternatives	\$ 28,544
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	partner
City of Beaumont *	\$ 28,251
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 3,255
Canyon Lake Project Alternatives	\$ -
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 1,500
City of Canyon Lake *	\$ 33,754
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 3,255
Canyon Lake Project Alternatives	\$ 3,253
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 3,750
City of Hemet *	\$ 41,830

Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 5,140
Canyon Lake Project Alternatives	\$ 5,094
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 8,100
City of Lake Elsinore *	\$ 33,361
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 7,091
Canyon Lake Project Alternatives	\$ 2,774
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	partner
City of Moreno Valley *	\$ 80,826
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 17,935
Canyon Lake Project Alternatives	\$ 10,295
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 29,100
City of Murrieta *	\$ 30,774
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 3,255
Canyon Lake Project Alternatives	\$ 2,523
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 1,500

City of Perris *	\$ 50,792
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 8,120
Canyon Lake Project Alternatives	\$ 5,825
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 13,350
City of Riverside *	\$ 26,751
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 3,255
Canyon Lake Project Alternatives	\$ -
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ -
City of San Jacinto *	\$ 26,751
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 3,255
Canyon Lake Project Alternatives	\$ -
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ -
City of Menifee *	\$ 86,846
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 18,847
Canyon Lake Project Alternatives	\$ 15,252
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 29,250

City of Wildomar *	\$ 31,578
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ -
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 4,409
Canyon Lake Project Alternatives	\$ -
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 7,200
Elsinore Valley Municipal Water District (EVMWD)	\$ 24,934
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ -
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 3,255
Canyon Lake Project Alternatives	\$ 2,500
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	partner
San Jacinto Agricultural Operators	\$ 52,967
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 3,255
Canyon Lake Project Alternatives	\$ 12,176
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 14,040
San Jacinto Dairy & CAFO Operators	\$ 2,850
Task Force Regulatory/Administrative Expenses	\$ -
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ -
Lake Elsinore Nutrient Monitoring Program	\$ -
Canyon Lake Nutrient Monitoring Program	\$ -
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ -
Canyon Lake Project Alternatives	\$ -
TMDL Update	\$ -
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 2,850

CALTRANS - freeway	\$ 34,286
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 3,255
Canyon Lake Project Alternatives	\$ 2,585
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 4,950
CA DF&W - San Jacinto Wetlands	\$ 26,751
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 3,255
Canyon Lake Project Alternatives	\$ -
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ -
Eastern Municipal Water District	\$ 30,751
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 3,255
Canyon Lake Project Alternatives	\$ 2,500
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 1,500
March Air Reserve Base Joint Powers Authority	\$ 31,006
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 3,255
Canyon Lake Project Alternatives	\$ 2,755
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 1,500

US Air Force (March Air Reserve Base)	\$ 32,863
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ 3,255
Canyon Lake Project Alternatives	\$ 2,812
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ 3,300
CR&R (Composting Project)	\$ 23,496
Task Force Regulatory/Administrative Expenses	\$ 8,842
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ 4,317
Lake Elsinore Nutrient Monitoring Program	\$ 4,178
Canyon Lake Nutrient Monitoring Program	\$ 3,527
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ -
Canyon Lake Project Alternatives	\$ -
TMDL Update	\$ 2,632
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Buy-in Amount to Join Task Force (Applied to TMDL Contingency Fund)	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ -
Nevada Hydro (LEAPS Project)	\$ -
Task Force Regulatory/Administrative Expenses	\$ -
TMDL Compliance Monitoring Expenses	
Watershed-wide Nutrient Monitoring Program	\$ -
Lake Elsinore Nutrient Monitoring Program	\$ -
Canyon Lake Nutrient Monitoring Program	\$ -
Lake Elsinore Project Alternatives	
Fishery Management O&M	\$ -
Canyon Lake Project Alternatives	\$ -
TMDL Update	\$ -
Reimbursement from Cash Reserve	\$ -
Other Contributions:	
Buy-in Amount to Join Task Force (Applied to TMDL Contingency Fund)	
Lake Elsinore Aeration Management System O&M (LEAMS)	\$ -
Total:	\$ 813,055

footnote: (*) designates MS4 co-permittees

Table 6-3

Project Cost Shares for 2019

	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			Offset Credit (kg TP/hr; kg TN/hr)		LEAMS+Alum Project Cost		
	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 at \$150/hr	Cost Share for (%)	LEAMS Hours	Cost at \$150/hr	1.75	11.00	With MS4 Watershed Controls	No MS4 Controls Accounted (Current)	Savings
BANNING	-	-	-	-	-	-	1	7				0.04%	10	\$ 1,500			\$ 1,500	\$ 1,500	\$ -
BEAUMONT	-	-	-	-	-	-	3	43				0.25%	10	\$ 1,500			\$ 1,500	\$ 1,500	\$ -
CAFO	n/a	n/a	n/a	n/a	0	(0)	31	31				0.81%					\$ -	\$ -	\$ -
Caltrans		129	0	45	1	81	-	279	0.03%	49	\$ 2,356	1.47%	33	\$ 4,911			\$ 7,267	\$ 7,345	\$ 78
CANYON LAKE	5	55	6	90	3	48	16	217	0.84%	1,605	\$ 3,086	1.49%	24	\$ 3,620			\$ 6,706	\$ 6,706	\$ 0
CR&R	-	-	-	-	-	-	0	0				0.00%					\$ -	\$ -	\$ -
Federal - DOD	4	157	-	-	-	-	7	235	0.35%	665	\$ 2,645	1.09%	21	\$ 3,207			\$ 5,852	\$ 5,882	\$ 30
HEMET	-	-	37	325	-	-	67	592	2.91%	5,526	\$ 4,927	3.85%	54	\$ 8,077			\$ 13,004	\$ 13,196	\$ 193
LAKE ELSINORE	3	36	1	14	14	815	6	75	0.31%	584	\$ 2,607	4.02%	81	Operating partner					\$ -
March JPA	4	49	-	-	-	-	5	74	0.29%	543	\$ 2,588	0.42%	10	\$ 1,500			\$ 4,088	\$ 4,114	\$ 26
MENIFEE	43	283	138	1,129	4	23	272	2,118	14.29%	27,168	\$ 15,085	14.67%	195	\$ 29,193			\$ 44,279	\$ 46,794	\$ 2,515
MORENO VALLEY	111	1,421	-	-	-	-	166	2,133	8.74%	16,607	\$ 10,128	12.24%	194	\$ 29,086			\$ 39,215	\$ 43,936	\$ 4,722
MURRIETA	-	-	0	4	-	-	0	7	0.03%	49	\$ 2,356	0.04%	10	\$ 1,500			\$ 3,856	\$ 4,034	\$ 178
PERRIS	47	647	0	-	-	-	71	970	3.73%	7,084	\$ 5,658	5.46%	88	\$ 13,231			\$ 18,889	\$ 23,038	\$ 4,149
RIVERSIDE	-	-	-	-	-	-	-	-	0.00%	0	\$ 2,333	0.00%	10	\$ 1,500			\$ 3,833	\$ 4,138	\$ 305
Riverside County	209	1,091	161	400	50	466	664	2,614	29.19%	55,485	\$ 28,377	28.07%	408	Operating partner					\$ -
SAN JACINTO	-	-	0	2	-	-	22	167				1.15%	15	\$ 2,278			\$ 2,278	\$ 2,278	\$ 0
WILDOMAR	-	-	-	-	40	525	-	-				2.99%	48	\$ 7,162			\$ 7,162	\$ 7,162	\$ -
Ag-CWAD Irrigated	30	-	10	-	-	-	66	-	3.15%	5,997	\$ 5,148	1.45%	38	\$ 5,651			\$ 10,799	\$ 10,807	\$ 8
Ag-CWAD Non-irrigated	237	285	155	176	1	1	664	800	30.91%			17.81%					\$ -	\$ -	\$ -
Ag-Small	37	23	27	24	0	-	98	70	5.04%			2.43%					\$ -	\$ -	\$ -
California Department of Fish and Wildlife	0	0	-	-	-	-	0	0				0.01%					\$ -	\$ -	\$ -
Federal - National Forest	-	-	-	-	1	2	1	6				0.07%					\$ -	\$ -	\$ -
Federal - Other	-	-	1	1	-	-	0	-	0.06%			0.00%					\$ -	\$ -	\$ -
Federal - Wilderness	-	-	-	-	-	-	0	0				0.00%					\$ -	\$ -	\$ -
State Land	2	5	-	-	-	-	3	8	0.15%			0.10%					\$ -	\$ -	\$ -
Tribal Reservations	-	-	-	-	-	-	0	6				0.03%					\$ -	\$ -	\$ -
Western Riverside County Regional Conservation Aut	0	0	0	0	-	-	2	2				0.05%					\$ -	\$ -	\$ -
	732	4,181	536	2,208	114	1,961	2,165	10,455	100%	121,362	\$ 87,295	100%	1249	\$ 113,917					

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		
MS4 Co-Permittees									
Riverside County	714	3,080	409	280	409	\$ 61,350	\$ 1,500	\$ 61,350	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	67	592	39	54	54	\$ 8,100	\$ 1,500	\$ 8,100	
City of Lake Elsinore	20	889	12	81	81	\$ 12,150	\$ 1,500	\$ 12,150	Operating Partner
City of Moreno Valley	166	2,133	96	194	194	\$ 29,100	\$ 1,500	\$ 29,100	
City of Murrieta	0	7	1	1	1	\$ 150	\$ 1,500	\$ 1,500	
City of Perris	71	970	41	89	89	\$ 13,350	\$ 1,500	\$ 13,350	
City of Riverside	-	-	-	-	-	\$ -		\$ -	not applicable
City of San Jacinto	22	167	13	16	16	\$ 2,400	\$ 1,500	\$ -	not purchasing (4/3/19)
City of Menifee	276	2,141	158	195	195	\$ 29,250	\$ 1,500	\$ 29,250	
City of Wildomar	40	525	23	48	48	\$ 7,200	\$ 1,500	\$ 7,200	
Elsinore Valley Municipal Water District (EVMWD)	-	-	-	-	-	\$ -	\$ -	\$ -	Operating Partner
San Jacinto Agricultural Operators (WRCAC)	-	-	-	-	-	\$ -		\$ 14,040	
San Jacinto Dairy & CAFO Operators	32	31	19	3	19	\$ 2,850	\$ 1,500	\$ 2,850	
CALTRANS - freeway	1	360	1	33	33	\$ 4,950	\$ 1,500	\$ 4,950	
CA DF&W - San Jacinto Wetlands	0	0	1	1	1	\$ 150		\$ -	not applicable
Eastern Municipal Water District	-	-	-	-	-	\$ -	\$ 1,500	\$ 1,500	
March Air Reserve Base Joint Powers Authority	5	74	4	7	7	\$ 1,050	\$ 1,500	\$ 1,500	
US Air Force (March Air Reserve Base)	7	235	4	22	22	\$ 3,300	\$ 1,500	\$ 3,300	
CR&R (Composting Project)	-	-	-	-	-	\$ -	\$ -	\$ -	not applicable
Nevada Hydro (LEAPS Project)	-	-	-	-	-	\$ -	\$ -	\$ -	not applicable
Funding Required	709	7,544	413	691	707	\$ 106,050		\$ 121,890	

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	Participating Stakeholders
			150	Cost Share %	2.45	\$ 1.15	\$ 35,000	Est. Cost	15
MS4 Co-Permittees	761	5,496	114,108	98.80%	46,579	\$ 53,566	\$ 20,000	\$ 73,561	
Riverside County	370	1,491	55,485.49	48.04%	22,647	\$ 26,044	\$ 2,500	\$ 28,544	
City of Beaumont	-	-	-						not applicable
City of Canyon Lake	11	145	1,604.58	1.39%	655	\$ 753	\$ 2,500	\$ 3,253	
City of Hemet	37	325	5,525.53	4.78%	2,255	\$ 2,594	\$ 2,500	\$ 5,094	
City of Lake Elsinore	4	50	584.39	0.51%	239	\$ 274	\$ 2,500	\$ 2,774	
City of Moreno Valley	111	1,421	16,607.04	14.38%	6,778	\$ 7,795	\$ 2,500	\$ 10,295	
City of Murrieta	0	4	48.80	0.04%	20	\$ 23	\$ 2,500	\$ 2,523	
City of Perris	47	647	7,084.11	6.13%	2,891	\$ 3,325	\$ 2,500	\$ 5,825	
City of Riverside	-	-	-	0.00%	-				not applicable
City of San Jacinto	0	2		0.01%	4	\$ 5			not applicable
City of Menifee	181	1,412	27,168.34	23.52%	11,089	\$ 12,752	\$ 2,500	\$ 15,252	
City of Wildomar	-	-	-						not applicable
Elsinore Valley Municipal Water District (EVMWD)							\$ 2,500	\$ 2,500	
San Jacinto Agricultural Operators (WRCAC)			-	0.00%	-	\$ 9,676	\$ 2,500	\$ 12,176	
San Jacinto Dairy & CAFO Operators	-	-	-						not applicable
CALTRANS - freeway	1	174	181.12	0.16%	74	\$ 85	\$ 2,500	\$ 2,585	
CA DF&W - San Jacinto Wetlands	0	0	0.07						not applicable
Eastern Municipal Water District							\$ 2,500	\$ 2,500	
March Air Reserve Base Joint Powers Authority	4	49	542.84	0.47%	222	\$ 255	\$ 2,500	\$ 2,755	
US Air Force (March Air Reserve Base)	4	157	664.71	0.58%	271	\$ 312	\$ 2,500	\$ 2,812	
CR&R (Composting Project)	0	0							not applicable
Nevada Hydro (LEAPS Project)									not applicable
Funding Required	770	5,876	115,497	100%	47,146	\$ 63,893	\$ 35,000	\$ 98,889	