Middle Santa Ana River Watershed Fact Sheet

The tributary drainage area to the Middle Santa Ana River Watershed is 480 square miles. Major tributaries to the Santa Ana River (Reaches 3 and 4) include: Temescal Creek (Reaches 1-6), Day Creek, San Sevaine Channel,. Box Springs Channel, and Anza Channel.

The Stormwater and Water Conservation Tracking Tool (Geodatabase) located here: **http://rivco.permitrack.com/**

MS4 Permittees: RCFC&WCD, County of Riverside, and Cities of Riverside, Corona, Norco, Eastvale and Jurupa Valley.

Landuse Data:

Population (2010 census data): 586,598 people

Percent Approximate Land Use by Category: Open (Forest Service, Parks, Open Space)- 55% , Commercial/Industrial-7%, Residential (Rural, Urban)-35%, Agriculture-3%

Regional Imperviousness Approximate Percentage: 42 % impervious, 58% pervious

Waterbodies: Santa Ana River, Day Creek, Temescal Creek, Coldwater Canyon Creek, Bedford Canyon Creek, Dawson Canyon Creek, San Timoteo Wash, Little San Gorgonio Creek, Anza Channel, Sunnyslope Channel, Tequesquite Arroyo (Sycamore Creek), Chino Creek, Mill Creek, Cucamonga Creek, Lake Evans, Lake Mathews, Lee Lake, Lake Norconian, and Mockingbird Reservoir

Habitat Areas: Refer to the U.S. Fish and Wildlife Critical Habitat, Western Region Multiple Species Habitat Conservation Plan (WRMSHCP) Potential Survey Areas, and Stephens Kangaroo Rat Habitat Conservation Plan (SKRHCP) layers in the Geodatabase (http://rivco.permitrack.com/).

Groundwater Basins: Refer to the Groundwater Data layers in the Geodatabase (http://rivco.permitrack.com/)

Development requirements: Follow the October 22, 2012 WQMP guidelines locate at http://rcflood.org/NPDES/SantaAnaWS.aspx#SAdocs

Drainage Channels: Refer to the Stormwater Data layer for District facilities and City Storm Drains in the Geodatabase (http://rivco.permitrack.com/)

Beneficial Uses: Refer to the Santa Ana Region Board website for updates to Beneficial Uses (http://www.swrcb.ca.gov/santaana/water_issues/programs/basin_plan/index.shtml)

Watershed Management Areas	Beneficial Uses
Santa Ana River, Reach 3,	AGR, GWR, REC1, REC2, WARM, WILD, RARE, SPWN
Santa Ana River, Reach 4	GWR, REC1, REC2, WARM, WILD, RARE, SPWN

Day Creek	MUN, PROC, GWR, REC1, REC2, COLD, WILD
Cucamonga Creek, Reach 1	GWR, REC2, LWRM, WILD
Mill Creek (Prado Area)	REC1, REC2, WARM, WILD, RARE
San Timoteo Wash Reach 3	GWR, REC1, REC2, WARM, WILD
Little San Gorgonio Creek	MUN, GWR, REC1, REC2, COLD, WILD
Anza Park Drain	MUN, REC1, REC2, WARM, WILD, SPWN
Sunnyslope Channel	MUN, REC1, REC2, WARM, WILD, RARE, SPWN
Tequesquite Arroyo (Sycamore Creek)	GWR, REC1, REC2, WARM, WILD, SPWN
Chino Creek, Reach 1A	REC1, REC2, WARM, WILD, RARE
Chino Creek, Reach 1B	REC1, REC2, WARM, WILD, RARE
Temescal Creek – Reach 1a	REC2, WARM, WILD
Temescal Creek – Reach 1b	REC2, WARM, WILD
Temescal Creek – Reach 2	AGR, IND, GWR, REC1, REC2, WARM, WILD
Temescal Creek – Reach 3	**See Lee Lake**
Temescal Creek – Reach 4	AGR, GWR, REC1, REC2, WARM, WILD, RARE
Temescal Creek – Reach 5	AGR, GWR, REC1, REC2, WARM, WILD, RARE
Temescal Creek – Reach 6	INTERMITTENT - GWR, REC1, REC2, WARM, WILD
Coldwater Canyon Creek	MUN, AGR, GWR, REC1, REC2, WARM, WILD
Bedford Canyon Creek	INTERMITTENT - GWR, REC1, REC2, WARM, WILD
Dawson Canyon Creek	INTERMITTENT - MUN, GWR, REC1, REC2, WARM, WILD
Lake Evans	REC1, REC2, WARM, COLD, WILD
Lee Lake	AGR, IND, GWR, REC1, REC2, WARM, WILD
Lake Mathews	MUN, AGR, IND, PROC, GWR, REC1, REC2, WARM, WILD, RARE
Mockingbird Reservoir	AGR, REC1, REC2, WARM, WILD
Lake Norconian	REC1, REC2, WARM, WILD

2010 303(d) Impairments
(http://www.waterboards.ca.gov/santaana/water_issues/programs/tmdl/docs/303d/2010_303d.pdf):

Waterbody	**Pollutants**	**Potential Sources**
Chino Creek Reach 1A (Santa Ana River R5 cnfl to just downstream of confl with Mill Creek)	Nutrients Pathogens	Agriculture; Dairies Agriculture; Dairies; Urban Runoff/Storm Sewers
Cucamonga Creek Reach 1 (Valley Reach)	Cadmium Coliform Bacteria Copper Lead	Source Unknown Unknown Nonpoint Source Source Unknown Source Unknown

	Zinc	Source Unknown
Mill Creek (Prado Area)	Nutrients Pathogens Total Suspended Solids (TSS)	Agriculture; Dairies Dairies Dairies
Santa Ana River, Reach 3	Copper Lead Pathogens	Source Unknown Source Unknown Dairies
Santa Ana River, Reach 4	Pathogens	Non-point Source
Temescal Creek, Reach 1	pH	Source Unknown
Temescal Creek, Reach 6	Indicator Bacteria	Source Unknown

Approved TMDLs:

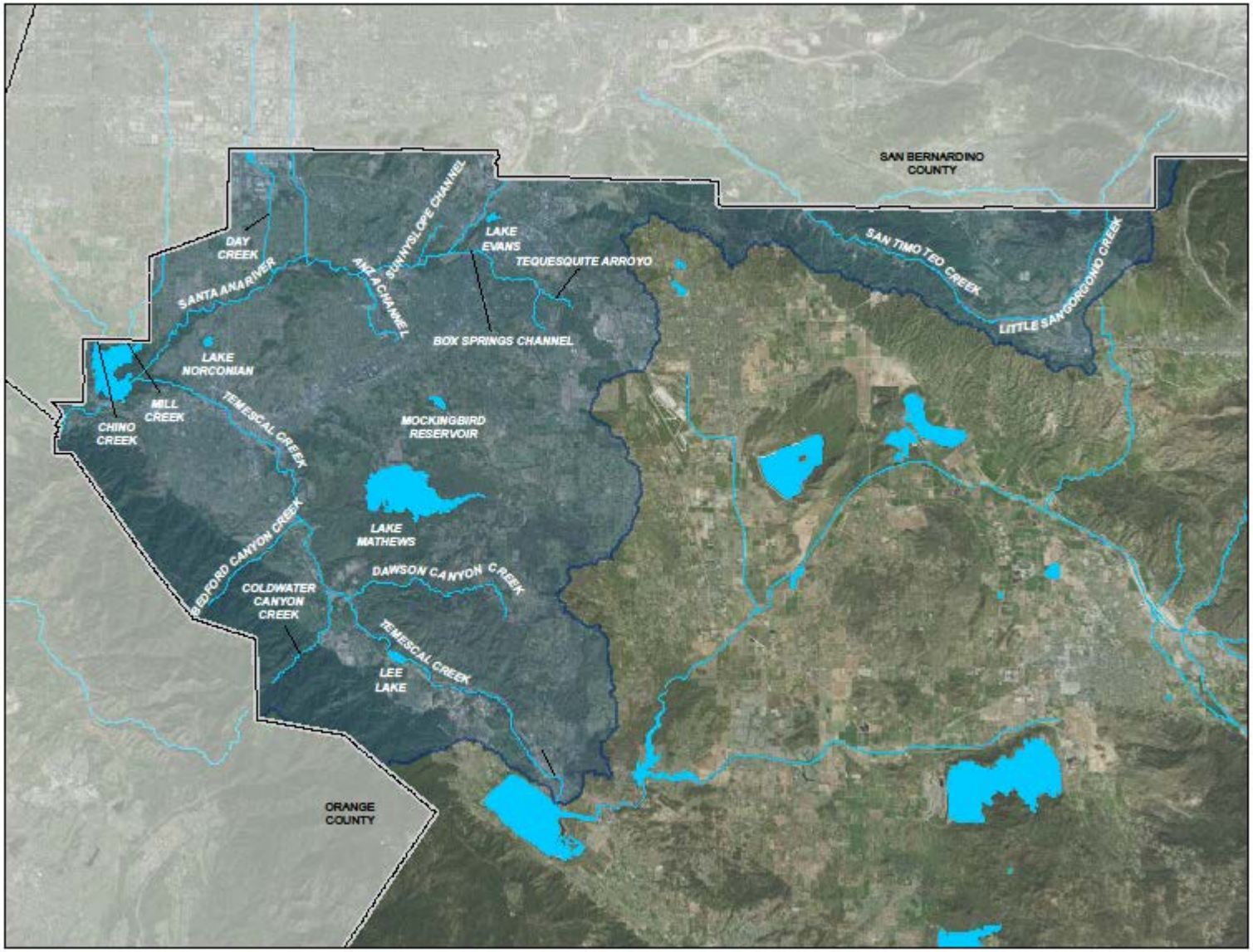
- **Santa Ana River, Reach 3**: Bacterial Indicators

A Comprehensive Bacteria Reduction Plan (CBRP), has been developed for the TMDL listed above and is located here: http://rcflood.org/downloads/NPDES/Documents/SA_Other/CBRP.pdf

Water Quality Objectives (mg/L): Refer to the Santa Ana Region Board website for updates to Water Quality Objectives (http://www.swrcb.ca.gov/santaana/water_issues/programs/basin_plan/index.shtml)

	Total Dissolved Solids	**Hardness**	**Sodium**	**Chloride**	**Total Inorganic Nitrogen**	**Sulfate**	**Chemical Oxygen Demand**
Santa Ana River Reach 3-Base Flow[1]	700	350	110	140	10[2]	150	30
Santa Ana River Reach 4	550	---	---	---	10	---	30
Day Creek	200	100	15	4	4	25	5
Little San Gorgonio Creek	230	125	50	40	3	45	5
Yucaipa Creek	290	175	60	60	6	45	15
Chino Creek Reach 1A-Base Flow[3]	700	350	110	140	10[4]	150	30
Chino Creek Reach 1B	550	240	75	75	8	60	15
Coldwater Canyon Creek	250	---	---	---	---	---	---
Lake Norconian	1050	---	---	---	---	---	---
Lake Evans	490	---	---	---	---	---	---
Lake Mathews	700	325	100	90	---	290	---
Mockingbird Reservoir	650	---	---	---	---	---	---

1. Additional Objectives: Boron 0.75 mg/l
2. Total nitrogen, filtered sample
3. Additional Objective: Boron 0.75 mg/l
4. Total nitrogen, filtered sample


SAN BERNARDINO COUNTY
DAY CREEK
SUNNYSLOPE CHANNEL
LAKE EVANS
TEQUESQUITE ARROYO
SAN TIMOTEO CREEK
LITTLE SAN GORGONIO CREEK
SANTA ANA RIVER
ANZA CHANNEL
BOX SPRINGS CHANNEL
LAKE NORCONIAN
MILL CREEK
CHINO CREEK
TEMESCAL CREEK
MOCKINGBIRD RESERVOIR
LAKE MATHEWS
BEDFORD CANYON CREEK
DAWSON CANYON CREEK
COLDWATER CANYON CREEK
TEMESCAL CREEK
LEE LAKE
ORANGE COUNTY