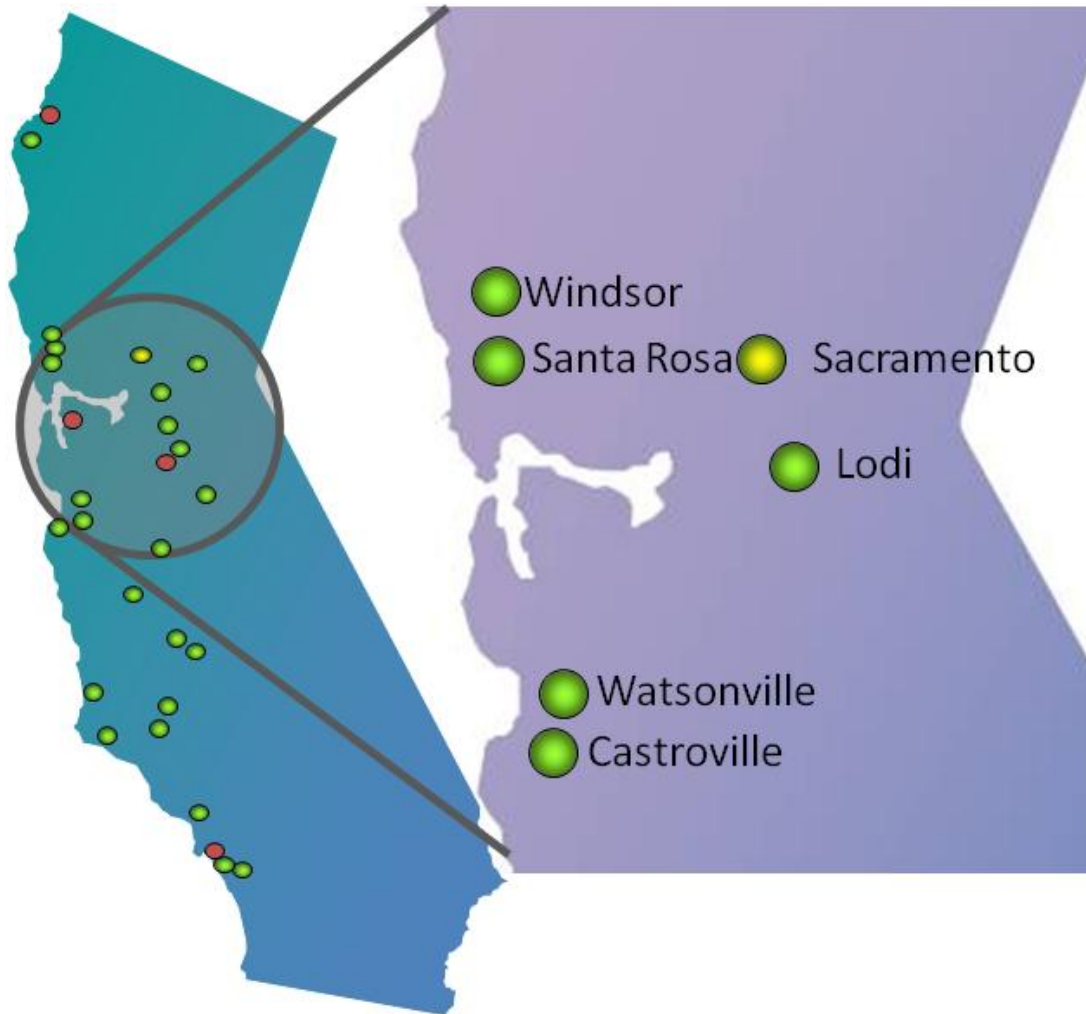


Recycled Water Quality for Agricultural and Environmental Reuse Projects



- Implemented recycled water projects, where recycled water is used for pasture and crop irrigation
- - Implemented project where recycled water is used for environmental/wildlife enhancement

*This map does not represent all recycled water projects within the State of California. This map represents select projects and focuses on agricultural and environmental reuse projects.

Parameter	Units	SRCSD	Windsor	Santa Rosa	Lodi	Watsonville	Castroville
Nitrate	mg-N/L	<10*	15.1	11.7	5.9	5.4	6.7
TDS	mg/L	412	460	428	377	616	836
Boron	mg/L	0.21	0.48	0.37	0.20	NA	0.58
Chloride	mg/L	92	84	61.6	64	103	255.6

Notes:

NA – Data not available

* Based on new NPDES monthly average discharge requirements; plant upgrades are underway to meet the new effluent limits.

RECYCLED WATER QUALITY

Parameter	Units	SRCS ¹	Windsor ²	Santa Rosa ³	Lodi ⁴	Watsonville ⁵	Castroville ⁶
Ammonia	mg-N/L	<1.8*	0.2	0.5	2	15	34.9***
Nitrate	mg-N/L	<10*	6.4	11.7	5.9	5.4**	6.7
TDS	mg/L	412	460	428	377	616	836
Arsenic	ug/L	1.64	<2	NA	3	NA	
Boron	mg/L	0.21	0.48	0.37	0.2	NA	0.58
Cadmium	ug/L	0.023	<1	NA	NA	NA	NA
Calcium	mg/L	22	NA	NA	NA	NA	56.6
Chloride	mg/L	92	84	61.6	64	103	255.6
Copper	ug/L	4.3	<20	NA	3	NA	NA
Lead	ug/L	0.25	<2	NA	1	NA	NA
Magnesium	mg/L	11	34	19.4	12	NA	17.76
Nickel	ug/L	2.37	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	2.5	NA	NA	20.56
SAR (adj)	--	NA	NA	NA	4	2.5	6.05
Selenium	ug/L	0.79	<5	NA	NA	NA	NA
Sodium	mg/L	81	100	72.8	73	NA	166.8
Total Alkalinity	mg/L as CaCO ₃	197	130	NA	153	NA	266.75
Total Coliform	MPN/100 mL	<2	<2	<2	<2	<2	<2
Total Phosphorous	mg-P/L	NA	NA	2.5	NA	NA	2.7
Turbidity ⁷	NTU	<2	0.4	<2	<2	<2	<2
TSS	mg/L	4	4	NA	3	NA	NA
Zinc	ug/L	21.2	58	27	NA	NA	NA

Notes:

NA – Data not available

* - Based on new NPDES monthly average discharge requirements; plant upgrades are underway to meet the new effluent limits.

** - Value is ammonia plus nitrate in mg-N/L.

***- Ammonia data was not available. This value represents average Total Kjeldahl Nitrogen in mg-N/L.

1 – Values represent the average of existing water quality data from the SRCSD Water Recycling Plant from 2003 to 2007, unless otherwise indicated.

2-Recycled water quality data is from the Town of Windsor's 2008 recycled water quality report with the exception of ammonia and nitrate. The ammonia and nitrate values are from the Town of Windsor's NPDES Permit Fact Sheet and are the median values from 2002 to 2006 water quality data.

3- Recycled water quality data is from the City of Santa Rosa's website (<http://ci.santa-rosa.ca.us/departments/utilities/recycle/landscapeinfo/Pages/RecycledWaterQualityandPlantNeeds.aspx>), with the exception of ammonia and TSS. The ammonia value is from the City of Santa Rosa's NPDES permit fact sheet and is an average value from 131 effluent samples. The TSS value is based on the City of Santa Rosa's surface water discharge requirements in their NPDES permit.

4-Recycled water quality data is from the City of Lodi's 2008 Recycled Water Master Plan.

5-Water quality data is from the 2009 and 2010 Pajaro Valley Water Management Authority Water Quality Report and represents water quality delivered to customers (samples collected from the distribution line), with the exception of ammonia. The ammonia value is the monthly average value from the City of Watsonville's WDR Fact Sheet.

6- Recycled water quality data is the average of recycled water quality from Monterey Regional Water Pollution Control Authority's reclamation plant from January 2007 to August 2011 (available at http://www.mrwpc.org/recycling/water_quality.php).

7-Turbidity values of <2 NTU are based on meeting the Title 22 Recycled Water Requirements for unrestricted use.