San Juan Creek (901.250 to 901.280) – 303(d) Fact Sheet County of Orange NPDES Annual Progress Report

San Juan Creek should not be listed at this time based on this data.



Watershed Characteristics

San Juan Creek is a 14.2 mile waterway in the San Juan Watershed of Region 9. It is classified inland surface water with the following beneficial uses: AGR, IND, REC1, REC2, WARM, COLD and WILD¹.

Water Quality Objectives not Obtained

Region 9 Basin Plan¹ standards for pH, ammonia (NH₃) and phosphate (PO₄) were exceeded. The secondary maximum contaminant level² of 900μhmos for electrical conductivity was also exceeded.

Evidence of Impairment

Basin plan standards for pH, NH₃ and PO₄ were also exceeded in no more than 7% of the samples. The electrical conductivity standard of $900\mu hmos^2$ was exceeded for 13 of 29 total samples. See Table 1 for standards and number of exceedances.

Extent of Impairment

There is too little impairment to estimate spatial extent.

Potential Sources

Unknown

TMDL Priority

No TMDL is required at this time.

Notes

The high electrical conductivity is indicative of excess ions in the waters. This alone is not enough for focused concern at this time. Since NH₃ and PO₄ concentrations did exceed standards on one occasion each, it could explain the excess ions in the water. Nutrient levels should continue to be monitored.

Information Sources

Water Quality Control Plan for the San Diego Basin (9), 1994

² State of California, 2001. California Code of Regulations, TITLE 22. Social Security Division 4. Environmental Health Chapter 15. Domestic Water Quality and Monitoring Regulations, Articles 4 and 16.

Table 1 - San Juan Creek NPDES Annual Data SJNL01

, -	EC	Trubidity	рН	NO3	NH3	TKN	PO4	o-PO4	TSS	VSS	Cd	Cr	Cu	Pb	Ni	Ag	Zn	Hardnes
	(umhos)	(NTU)		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)		(ug/L)	(ug/L)	(mg/L)
Basin Plan Std		20	6.5 - 9.0	45	0.025	?	0.306	_ ?			5	50	1000		100	100	5000	
A Compilation of																		
Water Quality	•													000				
Goals					*									280				
MCL from K. Cole	900						•							•				
from B. Ott									350	275								300
# of times the																		
standard was	13 of 15		1 of 15				1 of 15											
exceeded	(87%)	none	(7%)	none	none	,	(7%)		none	none	none	none	none	none	none	none	none	NA
National Toxics																e .		
Rule (Freshwater																		•
Aquatic Life) 1-hr			*						•			83-	1.5-		67-	0.07-	17-	
avg							-				0.35-51	_	118	5-700	3284	181	824	
Cal Ocean Plan																		
(Instnts Max)											10	20	30	20	150	_ 7	200	
# of times the								_										
standard was		•																
exceeded SJOL01	v 97 throug	sh 31 May (00								none	none	none	none	none	none	none	
	y 97 throug EC (umhos)	gh 31 May (Trubidity (NTU)	00 pH	NO3 (mg/L)	NH3 (mg/L)	TKN (mg/L)	PO4 (mg/L)	o-PO4 (mg/L)	TSS (mg/L)	VSS (mg/L)	none Cd (ug/L)	none Cr (ug/L)	none Cu (ug/L)	Pb	Ni	none Ag (ug/L)	Zn	Hardness (mg/L)
exceeded SJOL01 Sampling from 2 Jul Basin Plan Std	EC	Trubidity									Cd	Cr	Cu	Pb	Ni	Ag	Zn	
exceeded SJOL01 Sampling from 2 Jul	EC	Trubidity (NTU)	pН	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)			Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Pb	Ni (ug/L)	Ag (ug/L)	Zn (ug/L)	
exceeded SJOL01 Sampling from 2 Jul Basin Plan Std A Compilation of Water Quality	EC	Trubidity (NTU)	pН	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)			Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Pb (ug/L)	Ni (ug/L)	Ag (ug/L)	Zn (ug/L)	
exceeded SJOL01 Sampling from 2 Jul Basin Plan Std A Compilation of	EC	Trubidity (NTU)	pН	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)			Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Pb	Ni (ug/L)	Ag (ug/L)	Zn (ug/L)	
exceeded SJOL01 Sampling from 2 Jul Basin Plan Std A Compilation of Water Quality Goals	EC	Trubidity (NTU)	pН	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)			Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Pb (ug/L)	Ni (ug/L)	Ag (ug/L)	Zn (ug/L)	
exceeded SJOL01 Sampling from 2 Jul Basin Plan Std A Compilation of Water Quality Goals	EC (umhos)	Trubidity (NTU)	pН	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)			Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Pb (ug/L)	Ni (ug/L)	Ag (ug/L)	Zn (ug/L)	
exceeded SJOL01 Sampling from 2 Jul Basin Plan Std A Compilation of Water Quality Goals MCL from K. Cole	EC (umhos)	Trubidity (NTU)	pН	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Pb (ug/L)	Ni (ug/L)	Ag (ug/L)	Zn (ug/L)	(mg/L)
exceeded SJOL01 Sampling from 2 Jul Basin Plan Std A Compilation of Water Quality Goals MCL from K. Cole from B. Ott	EC (umhos)	Trubidity (NTU)	pН	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Pb (ug/L)	Ni (ug/L)	Ag (ug/L)	Zn (ug/L)	(mg/L)
exceeded SJOL01 Sampling from 2 Jul Basin Plan Std A Compilation of Water Quality Goals MCL from K. Cole from B. Ott # of times the	EC (umhos)	Trubidity (NTU)	pН	(mg/L)	(mg/L) 0.025	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Pb (ug/L)	Ni (ug/L)	Ag (ug/L)	Zn (ug/L)	(mg/L)
exceeded SJOL01 Sampling from 2 Jul Basin Plan Std A Compilation of Water Quality Goals MCL from K. Cole from B. Ott # of times the standard was	EC (umhos)	Trubidity (NTU) 20	pH 6.5 - 9.0	(mg/L) 45	(mg/L) 0.025	(mg/L)	(mg/L) 0.306	(mg/L)	(mg/L) 350	(mg/L)	Cd (ug/L) 5	Cr (ug/L) 50	Cu (ug/L) 1000	Pb (ug/L) 280	Ni (ug/L) 100	Ag (ug/L) 100	Zn (ug/L) 5000	(mg/L)
exceeded SJOL01 Sampling from 2 Jul Basin Plan Std A Compilation of Water Quality Goals MCL from K. Cole from B. Ott # of times the standard was exceeded National Toxics	EC (umhos)	Trubidity (NTU) 20	pH 6.5 - 9.0	(mg/L) 45	(mg/L) 0.025	(mg/L)	(mg/L) 0.306	(mg/L)	(mg/L) 350	(mg/L)	Cd (ug/L) 5	Cr (ug/L) 50	Cu (ug/L) 1000	Pb (ug/L) 280	Ni (ug/L) 100	Ag (ug/L) 100	Zn (ug/L) 5000	(mg/L)
exceeded SJOL01 Sampling from 2 Jul Basin Plan Std A Compilation of Water Quality Goals MCL from K. Cole from B. Ott # of times the standard was exceeded National Toxics Rule (Freshwater	EC (umhos)	Trubidity (NTU) 20	pH 6.5 - 9.0	(mg/L) 45	(mg/L) 0.025	(mg/L)	(mg/L) 0.306	(mg/L)	(mg/L) 350	(mg/L)	Cd (ug/L) 5	Cr (ug/L) 50	Cu (ug/L)	Pb (ug/L) 280	Ni (ug/L) 100	Ag (ug/L) 100	Zn (ug/L) 5000	(mg/L)
exceeded SJOL01 Sampling from 2 Jul Basin Plan Std A Compilation of Water Quality Goals MCL from K. Cole from B. Ott # of times the standard was exceeded National Toxics Rule (Freshwater	EC (umhos)	Trubidity (NTU) 20	pH 6.5 - 9.0	(mg/L) 45	(mg/L) 0.025	(mg/L)	(mg/L) 0.306	(mg/L)	(mg/L) 350	(mg/L)	Cd (ug/L) 5	Cr (ug/L) 50 none	Cu (ug/L) 1000	Pb (ug/L) 280	Ni (ug/L) 100	Ag (ug/L) 100	Zn (ug/L) 5000	(mg/L)
exceeded SJOL01 Sampling from 2 Jul Basin Plan Std A Compilation of Water Quality Goals MCL from K. Cole from B. Ott # of times the standard was exceeded National Toxics Rule (Freshwater Aquatic Life) 1-hr avg Cal Ocean Plan	EC (umhos)	Trubidity (NTU) 20	pH 6.5 - 9.0	(mg/L) 45	(mg/L) 0.025	(mg/L)	(mg/L) 0.306	(mg/L)	(mg/L) 350	(mg/L)	Cd (ug/L) 5	Cr (ug/L) 50 none	Cu (ug/L)	Pb (ug/L) 280	Ni (ug/L) 100	Ag (ug/L) 100	Zn (ug/L) 5000	(mg/L)
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