



THE OFFICE OF INFORMATION MANAGEMENT & ANALYSIS

BROWN BAG SEMINAR

2018 Water Quality Status Report: The Status of California's Surface Waters

Speaker: Michelle Tang, Environmental Scientist,
Surface Water Ambient Monitoring Program

SEPTEMBER 27, 2018 | 12:00-12:30 PM (PT)

2018 Water Quality Status Report

Land to Sea Connectivity

Streams

Changes in landscape and land use will result in changes in watershed hydrology. Hardening of the landscape results in runoff arriving to the stream more quickly, with more force and often resulting in higher peak flows that can destroy riparian and stream habitat. Runoff, direct discharges, and incidental dumping also carry pollutants into the waters. These pollutants can alter stream health by affecting the number and type of organisms that live in these streams. Living organisms integrate the effects of multiple stressors, such as sedimentation, nutrient enrichment, and riparian disturbance, over both space and time, which makes them prime subjects to better understand complex systems.

The California Stream Condition Index (CSCI) is a biological scoring tool that helps aquatic resource managers translate complex data about benthic macroinvertebrates found living in a stream into an overall measure of stream health. The CSCI score indicates whether, and to what degree, the ecology of a stream is altered from a healthy state.

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Landuse and CSCI Condition

	Number of Results	Minimum	Median	Average	Maximum
California Stream Condition Index	2,842	0.00	0.96	0.99	3.43
Dissolved Oxygen (mg/L)	1,714	0.00	0.00	20.50	540.00
5-Min Flow (mg/L)	1,535	0.00	0.00	20.51	540.00
Total Phosphorus (mg/L)	1,702	0.00	0.00	1.01	1,000.00
Total Nitrogen (mg/L)	1,523	0.00	0.07	1.10	100.00
Total Suspended Solids (mg/L)	1,262	-0.41	1.90	0.12	700.00
Conductivity (µS/cm)	1,036	0.00	200.00	590.42	10,000.00
Water Hardness (mg/L)	2,840	0.00	0.06	0.00	500.00
Other (mg/L)	2,000	0.00	0.00	00.07	0.7000.00
Riparian Disturbance Index	1,602	0.00	0.08	0.06	10.00

Landuse

0.0

Overview Map

BACK

Seminar Location:
Cal EPA Building
Room 1610, 16th Floor
1001 I Street, Sacramento, CA

Join online for free: [Skype](#)
Phone (audio): 1-916-562-0861
Conference ID: 83826695