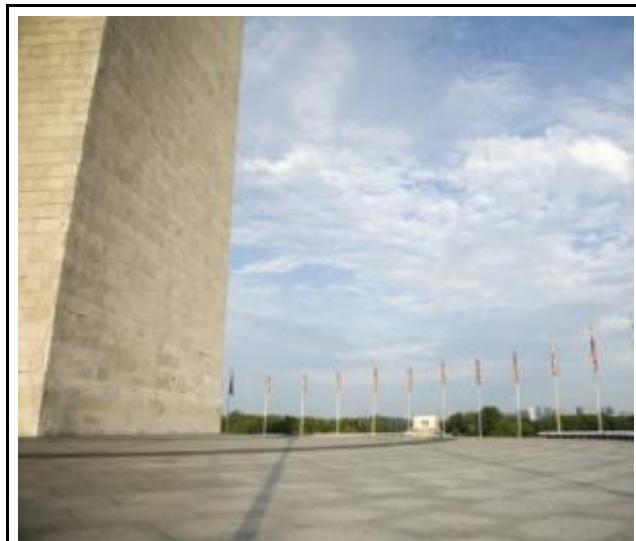


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Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.he Santa Ana River (SAR) in southern California is impacted by effluents from wastewater treatment plants (WWTP), which are sources of organic wastewater compounds (OWCs) and urban runoff. The Santa Ana River is one of only three river basins supporting native populations of the federally listed Santa Ana sucker (*Catostomus santaanae*) at the time the fish was included on the list 2000. In 2004 and 2005, a U.S. Geological Survey and U.S. Fish and Wildlife Service study was undertaken to determine if the threatened Santa Ana sucker was potentially exposed to OWCs and endocrine disrupting compounds (EDCs) in the SAR by using the western mosquitofish (*Gambusia affinis*) as a surrogate fish model. Four Santa Ana River sites were chosen along a gradient of proximity to WWTP effluents: (1) a point source of tertiary treated wastewater effluent (TTWE), (2) Rialto Drain (just below a WWTP), (3) Prado Dam (11 kilometers [km] below WWTPs), and (4) Sunnyslope Creek (no WWTP but having urban runoff influence). A reference site having no WWTPs or urban runoff, Thousand Palms, was also sampled. Chemical analyses of passive sampler extracts results showed that 15 OWCs and EDCs were detected in water from the Santa Ana River sites. Many of these compounds contributed to activity from an estrogenic in-vitro assay that showed a significant potential for impacting endocrine and reproductive systems compared to the 25 organochlorine compounds detected in aquatic biota. The site showing compounds having highest influence on sex steroid hormone activities was the point source for TTWE. Sex steroid hormone levels, secondary sex characteristics, organosomatic indices, and sperm quality parameters indicated impairment of endocrine and reproductive function of male western mosquitofish in the Santa...



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