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**OCACS Environmental Group
Bimonthly Presentation**

**Microplastics in Wastewater: Developing
Methods to Understand Removal Rates and
Environmental Risks**

**Dr. Violet Renick
Senior Scientist, Orange County Sanitation
District (OCSD)**

Thursday, July 25th, 2019 at 7:30 pm

Biography

Dr. Violet Renick is a Senior Scientist in the analytical chemistry laboratory at the Orange County Sanitation District (OCSD) since 2018. Dr. Renick is responsible for investigating emerging issues in wastewater and onboarding new technologies for the District to increase monitoring effectiveness of its wastewater and offshore receiving environment. Violet currently manages projects involving microplastics, contaminant of emerging concern (CEC) monitoring using bioanalytical screening, and domoic acid monitoring. She previously managed the aquatic toxicity testing laboratory for the City of San Diego since 2016.



Abstract

Microplastics have recently become a topic of increasing concern by researchers, regulators, and the media. Wastewater treatment plants are a potential pathway of microplastics to aquatic, marine, and terrestrial environments, despite relatively high removal rates. However, many data gaps exist in understanding the fate of microplastics in wastewater and its environmental contribution relative to other sources. The focus of this presentation is to discuss the method development and analyses used to assess the transport and impacts of microplastics throughout OCSD's wastewater treatment process

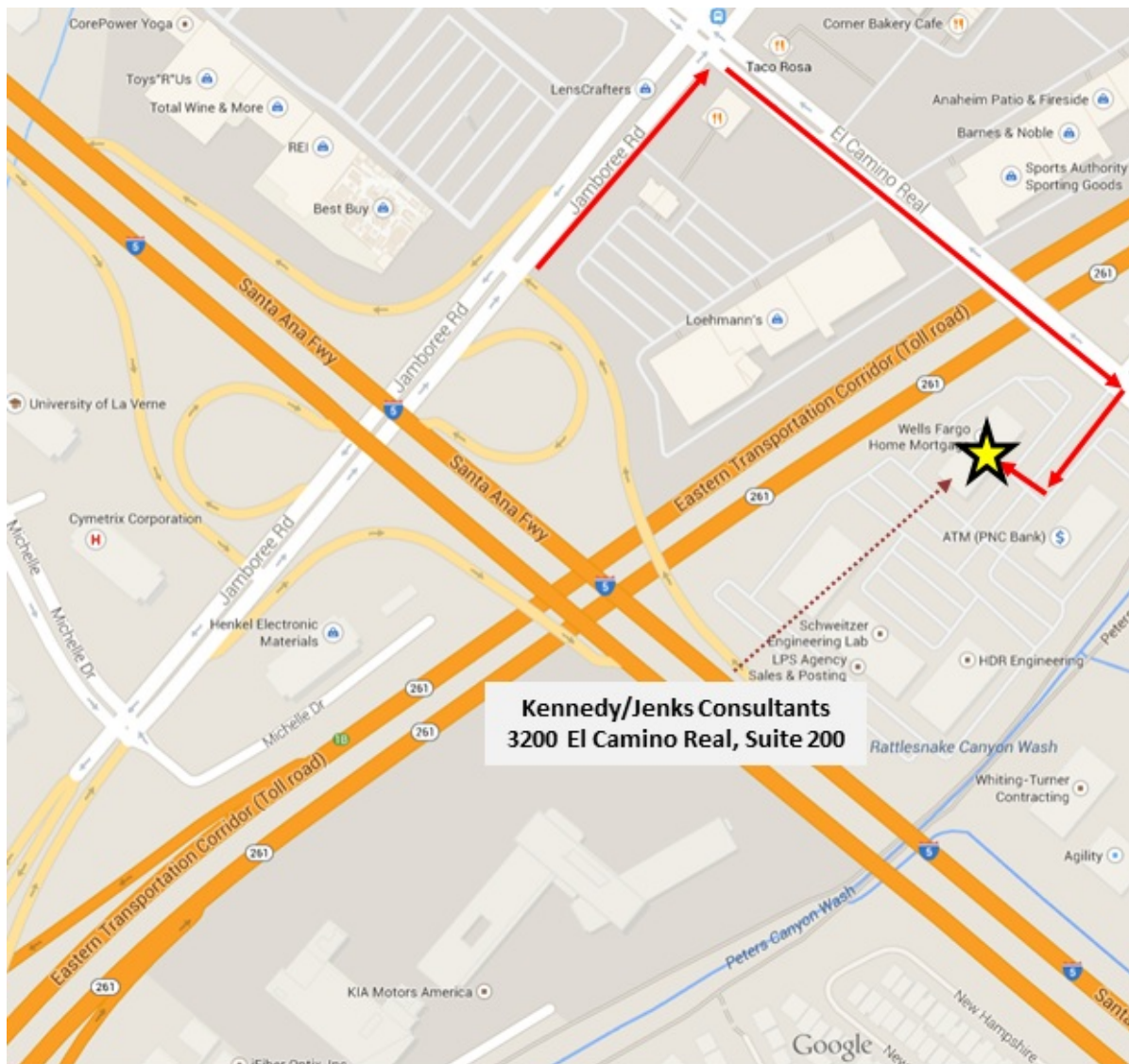
and their potential impacts to the receiving environment. The science of microplastics including other environmental sources, ecological and health risks, and opportunities for involvement will also be discussed.

Location

Kennedy/Jenks Consultants, 3200 El Camino Real, Suite 200, Irvine, CA 92602

To Register or for more information

Contact Dr. Ganesh Rajagopalan at RGanesh@KennedyJenks.com by Tuesday, July 23rd, 2019.



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