

**Pacific Northwest Pretreatment Workshop
Virtually, November 2020**



Presentation and Biographical Information

Presentation and Speaker biographical information will be used by the Conference Planning Committee to apply for conference Continuing Educational Units (CEU) certification. Biographical information may also be used during speaker introductions. Please e-mail this information to **Andria Swann** at andrias@sumnerwa.gov before **September 15, 2020**. If you have any questions, you may contact your PNPW sponsor.

Presentation Title & Abstract:	High BOD F&B Wastewater-Characterization and Treatment Processes	
	High BOD wastewater contributions from food and vegetable processing, soft drink production and bottling, alcoholic beverage manufacture, dairy operations for milk, cheese and ice cream, are often highly impactful sources of load for a municipal wastewater treatment plant. However, even though there may be a basic understanding of how some of these operations can generate high loads, there is often a dearth of specific knowledge when it comes to understanding the loads, the sources, and the impacts. With this presentation I intend to do a quick introduction/review of wastewater treatment, constituents and units used to measure those constituents. Then, using that as a base, will present examples of high strength contributions to a wastewater stream. The goal of the presentation will be for the audience to gain a better contextual understanding of just how great an impact these sources of load can have on a WWTP. Lastly, I will present some of the processes that are employed to treat these particular waste streams, as many of the processes are specialized toward a particular constituent or class of constituents.	
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# years in field	18 years	
Professional Association Memberships		
WEF, IFT, PNCWA		
Education (degree)	School Name	Year
BS Mechanical Eng.	University of Washington	1996
Work History	Company	Year
	Orenco Systems, Inc	2002-2015
	Ovivo	2015-2017
	Baswood/Cambrian	2017-Present
Other Biographical Information (Interests, Hobbies, etc.)		
Fishing, martial arts, spending time with my wife and three boys.		