

Food Processing Wastewater Reuse System Optimization and Capital Improvement Plan City of Pasco, Washington

Abstract: How do you fix a multi-user process wastewater land treatment system near capacity to enable more food processing and more processors? The City of Pasco is solving system capacity limitations by applying practical engineering, agronomy, and irrigation design to improve pre-treatment, operations, and farm management. The City of Pasco (City) treats and reuses the process wastewater produced by four food processors by applying it to agricultural crops grown on the City's land treatment fields. This presentation will showcase a 20 year old centralized land treatment operation including financial aspects for the processors and the City, and show the pretreatment construction and planning solutions to improve and expand wastewater reuse.

Presenters: Ahmad Qayoumi, Director of Public Works, Pasco, Washington and Steve Venner, Managing Scientist, Cascade Earth Sciences

Professional Backgrounds:

Presenter: Ahmad Qayoumi
Title: Director of Public Works
Organization: City of Pasco WA

Professional Background: Ahmad Qayoumi has worked in the public sector for over 24 years and for five different cities. During his tenure, each city experienced rapid growth and were full service cities. He started his career with the City of Montgomery, Ohio as part of the University of Cincinnati's Co-Operative education program in Civil Engineering. After his graduation from the University of Cincinnati in 1992, he was promoted to Assistant City Engineer. After six years at the City of Montgomery, he accepted a Chief Engineer position for the City of Mason, Ohio. After two years at the City of Mason, he was recruited by his former City Manager to be the Director of Engineering Services for the City of Sherwood, Oregon. While working for the City of Sherwood he attended Portland State University, where he obtained his Master's Degree in Civil Engineering in 2000. He wanted to expand his expertise in Transportation and Traffic Engineering in addition to other aspects of Public Works; he accepted a position with the City of Vancouver, WA. After eleven years with the City of Vancouver, he became the Public Works Director with the City of Pasco in 2010. He currently manages Public Works, which includes three divisions; Engineering, Operations and Plant Operations. The City has five different utilities and is experiencing a lot of growth.

Ahmad is a registered Professional Engineering in Oregon and Washington and is a member of APWA, ITE and AWWA.

Presenter: Steve Venner, CPAg, CCA

Title: Managing Scientist

Organization: Cascade Earth Sciences

Professional Background: Mr. Venner has 18 years of experience as a project manager on wastewater land treatment system projects. He is a Certified Professional Agronomist (CPAg) and Certified Crop Advisor (CCA). Mr. Venner has worked with most of the major food processors in the Pacific Northwest, farmers, and municipalities. He has experience with irrigation and crops, engineering reports, system design, funding, operations, management, monitoring, reporting, permitting, and regulatory interaction. Mr. Venner has provided consulting services to the City of Pasco since 1996 including support for permitting, monitoring, reporting, design, and technical support on the existing system. He managed the Process Water Treatment System Optimization and Capital Improvement Plan project in 2011 and currently serves the City of Pasco as project manager for implementing the Capital Improvement Plan.