Message

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Sent: 8/28/2018 5:56:23 PM
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Subject: Adobe Connect - Invitation to "September CSO Technical Webinar"

Speaker: Mark Boner

Mark has 45 years of environmental engineering experience including design, manufacturing, construction and operation of municipal water and wastewater infrastructure. He holds a Bachelor of Civil Engineering and a Master of Science in Sanitary Engineering from Georgia Tech. Mark has served as Principal Investigator under WRF and USEPA peer reviewed projects for watershed studies, TMDL framework development, satellite technology implementation and demonstration and associated wet weather NPDES permitting. Mark has authored patents for passive flow control and wet weather treatment technologies that are currently being applied for stormwater, CSO, SSO and nutrient control.

Brief Description:

This webinar will present the compressed media filter (CMF) technology and its application in wet weather treatment at remote satellite installations as well as auxiliary treatment at the Water Resource Facility (WRF). Multi-function auxiliary applications include effluent polishing for reuse and nutrient control as well as treatment of excess wet weather flow. Alternatively, during dry weather, the technology can be used as an enhanced primary process for carbon diversion to

reduce energy and/or expand organic capacity. Example wet weather installations include CSO, SSO and stormwater treatment. The CMF technology has demonstrated full-scale performance results that meet secondary criteria. Filter effluent can be disinfected with UV or chemical oxidants. Installations demonstrate simple, automatic and unmanned operation leaving no residuals or odors. Chemicals are not needed for solids removal. High Rate Treatment (HRT) designs are presented for different levels of control to satisfy both the geometric mean (GM) and statistical threshold value (STV) of the EPA recreational water quality criteria (RWQC). Capital and O&M costs are presented for different size systems. Examples reveal how most satellite treatment fits into an urbanized landscape, fosters more affordable staged implementation with incremental benefits and serves as a foundation for greenspace and trails. Public amenities as well as improved water quality can stimulate and help sustain a phased-progression of projects. An example of how a CSO program completely changed the face of a flat line city will be presented.

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