

PSI Process & Equipment



Pumping Services, Inc.
An Employee Owned Company

March 2013

PSI Newsletter

ISSUE HIGHLIGHTS

Orica Watercare
appoints PSI

MBBR Biological
Wastewater
Treatment

Headworks Bio
Web Cast

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Dear Readers:

Orica Watercare recently appointed PSI as its representative in the New York Metro area, Long Island, and Northern and Central New Jersey areas. Well-known for its industry-leading DOC removal resin for disinfection byproduct (DBP) control, Orica Watercare manufactures a range of innovative ion exchange resins, custom-designed MIEX® Treatment Systems and packaged MAGNAPAK® Systems. The Orica MIEX® DOC removal resin is a high capacity ion exchange resin with a magnetized component. This magnetic resin, when utilized with Orica's unique continuous ion exchange process offers water utilities a highly effective DOC removal process, capable of achieving new DBP standards for drinking water. MIEX® Resins are available for a variety of ion exchange applications. MIEX® Resin is NSF Standard 61 certified for use in drinking water systems. MIEX® treatment systems can be designed in all size ranges from small to large

MAGNAPAK® package systems to large municipal systems. A 14.5-MGD MIEX® system installed in Palm Beach County, Florida was commissioned in 2012. The MIEX® DOC treatment process incorporates specially engineered processes for dosing, mixing, separating and regenerating the resin which provides a high level of treatment with minimal generation of wastes. The Orica

DOC removal process, capable of achieving new standards in water quality.

Enviropak® nitrate removal process utilizes a split resin bed to extend resin life and minimize generation of brine waste. Orica has special



expertise in pilot studies to characterize the raw water, test various modes and rates of treatment, and determine contaminant removals and finished water quality including simulated distribution system (SDS) testing to determine DBP levels in the finished water. Contact PSI Process and Equipment for further information.

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Spotlight on

Headworks BIO Inc

Headworks BIO Inc. offers biological wastewater treatment processes that can be used as secondary treatment for a variety of municipal and industrial applications. For over a decade, the Headworks team has researched and developed wastewater treatment systems and technology for moving bed processes, fixed-film wastewater treatment, and integrated fixed-film activated sludge (IFAS) wastewater systems. The result of this in-depth research and development is our Moving Bed Biofilm Reactor (MBBR) technology, a biological wastewater treatment process, that can be adapted and designed for any application. With approximately 15 years of experience in municipal and industrial applications, Headworks BIO is one of the oldest MBBR/IFAS technology providers in the biological wastewater treatment sector.



Headworks BIO is one of the oldest MBBR/IFAS technology providers

The Moving Bed Biofilm Reactor (MBBR) web cast is available on line, it is titled "Innovative applications of MBBR/IFAS for upgrades, Retrofits, and New Build Around the World" The speakers are Siva Angappan, Director of Process Engineering & Technology , Headworks BIO Inc. and Anfan Din, Vice President and Process Manager for MENA . The Headworks BIO Inc. Moving Bed Biofilm Reactor (MBBR) and Integrated Fixed-Film Activated Sludge (IFAS) systems are being considered and implemented with increasing frequency around the globe.

[Click here for Moving Bed Biofilm Reactor \(MBBR\) web cast](#)

This webcast will begin with a brief, general overview of these two process technologies including the fundamental aspects of the systems, specifically media type, retention screens, aeration system, and key design considerations. The presentation will compare MBBR/IFAS technology against conventional treatment methods and describe circumstances in which MBBR/IFAS systems are feasible options to consider. Case studies will be used to illustrate innovative applications of the technology in municipal and industrial facilities around the globe. Examples will include plant upgrades, retrofits, and new builds with supporting data. The webcast will conclude with a brief question and answer session taken from participants during the live event.



Headworks BIO™ Inc. is one of the oldest independent MBBR/IFAS technology providers in the biological sector with approximately 15 years of experience in municipal, industrial, and marine applications. Headworks BIO Inc. is based in Houston, Texas with offices around the world including the United States, Canada, India, and the Middle East.

PSI present at NJWEA Winter Technology Transfer Seminar

PSI Process and Equipment/Pumping Services, Inc. will be presenting at the Jersey Water Environment Association 2013 Winter Technology Transfer Seminar March 4 - March 7, 2013 at the Sheraton Eatontown. The moderator is John Tobia, PE, Principal Project Manager, CH2M HILL. The PSI presentation is titled "Multiple Rake Screens for Effective Debris Removal" will be presented by David J. Silverman, P.E., Applications Engineer, PSI Process and Equipment.

Contact PSI for your MBBR Biological Wastewater Treatment Process needs