



May 2016

### PSI Newsletter

#### ISSUE HIGHLIGHTS

Nova Water Technologies  
Stainless Steel  
Disk Filter

New Jersey Water  
Company takes delivery  
of Nova Quantum Disk  
Filter.

PSI Exhibits at  
NJWEA 2016

PSI Provides  
Presentations at  
NJWEA 2016

Pumping Services, Inc.  
201 Lincoln Blvd.  
Middlesex, NJ USA  
P: 732 469 4540  
F: 732 469 5912  
[www.psiprocess.com](http://www.psiprocess.com)

Dear Readers.

The Quantum Disk Filter from Nova Water Technologies is designed for Title-22 water reuse, tertiary total suspended solids and phosphorus removal with less than <1 percent reject. Features include Title-22 stainless steel filtration media for a longer lifespan, dynamic tangential filtration, variable speed and all stainless steel construction.

“The new version is offered in concrete tanks as opposed to just the stainless steel we had before,” says Brandon Lang P.E. Product Manager for Nova Water Technologies. “It uses approximately 50% percent less power with a focus on ease & reduction of maintenance.”



The new model eliminates rubber seals, roller chain and sprockets, internal bushings and bearings for less maintenance

The new model eliminates rubber seals, roller chain and sprockets, internal bushings and bearings for less maintenance. It also offers the same flow capacity in half the footprint.

Nova Water Technologies has been dynamically protecting water since 2006 and has grown to more than 100 Dynamic Disk Filters in the U.S. and Canada. NOVA has a unique staff with backgrounds including design, process and consulting engineering, along with plant operations & maintenance expertise.

Nova Water Technologies introduced this dynamic tangential filtration concept to the North American market, as a superior solution for tertiary TSS removal, California Title 22 water reuse, and phosphorous removal filtration applications. NOVA continues with innovations with an updated filter; which reduces spatial footprint, lowers power consumption, produces less backwash reject, and is available in both steel and concrete tanks. Further, it eliminates all seals, roller chain, sprockets, and internal bushings and bearings

NOVA continues to use only the highest quality, all stainless steel material, including 316L stainless steel media. Further, NOVA continue to offer fully assembled units, in stainless steel tankage and cover systems.

David J. Silverman P.E. 347.563.0766  
New York Region  
John Corkery 732.667.1800  
New York-New Jersey  
Denis Rehse 732.667.1820  
New Jersey  
Dale Parkhurst 732.667.1805  
VP Sales

Roger Parkhurst 732.667.1804  
New Jersey  
Brett Anderson 732.667.1826  
New York-New Jersey  
Engineering Assistance 732.667.1833  
Ana Hende, Sean Paratore  
Martin Striefler 732.667.1861  
Aftermarket Sales NJ/NY

Edward Cornell 732.667.1818  
Project Management  
Richard Scott 732.667.1816  
Project Management  
David Hull 732.667.1803  
Estimating Management  
Richard Malt 732.667.1814  
VP Service Manager

# Spotlight on

## NOVA Quantum Disk Filter

NOVA has a solid installation base and commitment to service. NOVA listen to customers and these improvements are the direct result of almost 10 years of customer input. NOVA flexibility with design and procurement helps build solutions that best fit our customer's needs. Nova Water Technologies continuously improves technology through innovation! The NOVA Quantum Disk Filter represents the next generation of advanced dynamic tangential filtration (ADTF) technology. Tertiary filtration of secondary effluent is a common requirement in many facilities that need Title-22 water reuse, improved TSS removal and/or phosphorous removal.



## NOVA Quantum Disk Filter being delivered New Jersey Water Company April 2016

The need for innovative, space-saving and reliable systems has created an evolving science in the application of ADTF technologies that use precision woven 316L stainless steel fabrics or media for suspended solids capture and removal.

NOVA Quantum Disk Filter improved features include:

- Elimination of all seals.
- Elimination of all chains and sprockets.
- Elimination of internal bushings and bearings.
- Up to 50 percent smaller footprint.
- Lower reject rate and improved reject hydraulics.
- Reduced power requirements.
- Reduced wash water need.
- Maintenance items eliminated.
- Title 22-certified 316L SS media.
- Concrete and SS tank designs

Pumping Services, Inc, PSI Process and Equipment and ITS Instrumentation Technology Systems, will be exhibiting at the **New Jersey Water Environmental Association's 101st Annual Convention May 16-20, 2016** located at Ballys Atlantic City NJ. PSI are providing the following presentations at the conference.

- Monday May 16<sup>th</sup> 1.00 p.m. Assessment and Optimization to Improve Plant Efficiency. *"Ultraviolet Disinfection – 100 years and Still Ampin"* Denis Rehse Applications Engineer PSI Process and Equipment.
- Tuesday May 17<sup>th</sup> 8.30 a.m. Wastewater Operator's Program *"Nitrite – Hunting an Elusive Quarry"* Bruce P. Stevens, Regional Manager, ASA Analytics.
- Tuesday May 17<sup>th</sup> 12.00 p.m. *"Grit, The Silent Menace,"* David J. Silverman, P.E. Applications Engineer, PSI Process and Equipment.
- Tuesday May 17<sup>th</sup> 12.00 p.m. Collection System Manager's Workshop. *"Design and Operational Benefits of Horizontally Installed , Dry-Pit Centrifugal Electric Submersible Solids-Handling Pumps,"* Robert Domkowski, Engineering Consultant, Xylem, FLYGT.
- Tuesday May 17<sup>th</sup> 2:00 p.m. Pumps and SCADA. *"Managing Flood Risk with Resilient Submersible Pumps,"* John Corkery Municipal Sales Manager, Pumping Services, Inc. / PSI Process and Equipment.
- Tuesday May 17<sup>th</sup> 3:00 p.m., *"WEB-Hosted SCADA for Remote Monitoring of Wastewater Facilities,"* Bryce Parkhurst, Manager, Controls and Instrumentation Group, ITS / Pumping Services, Inc.
- Tuesday May 17<sup>th</sup> 3:30 p.m. *"Pumping Theory and Terminology for Pumping Station Operators,"* Sean Paratore Applications Engineer, PSI Process & Equip.

Visit Booths 607, 608, 610, 611, 622, 623, 624, 625, 626

American Marsh Pumps  
ASA Analytics, Inc.  
AWT  
AWI Anthratch U.S.  
Brentwood Industries  
Danfoss LLC  
Environmental Dynamics  
Inc. (EDI)  
FLYGT Pumps & Mixers  
FLYGT A-C Pumps  
FLYGT DBS System  
FLYGT Multitrode  
Fresh Creek Technologies  
Glasco-UV  
Headworks Bio  
Isolux

Headworks Mechanical  
NOVA Water Technologies  
Philadelphia Mixing  
Packaged Pump Stations  
OneLift Oldcastle  
Monroe Environmental  
Primex  
Orica Watercare  
Phoenix Process Equip.  
PSI / ITS Instrument  
Technology Systems  
Rental, Service and By-  
Pass Pumping Systems  
TIGG Corporation  
United Blower  
WTP Equipment Corp

Contact PSI for your Process Equipment needs