

# COUNTY OF SUFFOLK



**STEVEN BELLONE**  
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

**JAMES L. TOMARKEN, MD, MPH, MBA, MSW**  
Commissioner

Updated April 24, 2017

## **SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES APPROVAL LIST OF INNOVATIVE AND ALTERNATIVE ONSITE WASTEWATER TREATMENT SYSTEMS (I/A OWTS)**

Issued under authority of Suffolk County Sanitary Code Article 19 Standards, this list hereby specifies approved I/A OWTS residential technologies in Suffolk County:

<b>Technology Name</b>	<b>Approval Type</b>	<b>Approval Date</b>
Hydro-Action AN Series	Provisional	September 28, 2016
Norweco Singulair TNT	Provisional	October 7, 2016
Orenco AX-RT	Provisional	March 1, 2017
Norweco Hydro-Kinetic	Provisional	April 21, 2017



DIVISION OF ENVIRONMENTAL QUALITY – Office of Wastewater Management  
360 Yaphank Avenue, Suite 2C, Yaphank, NY 11980 (631) 852 - 5700

## Approved Technologies

**Technology Name:** Hydro-Action AN Series

Approval: Provisional Use for up to 1,000 gpd residential.

Approval Date: September 2016

### Manufacturer Information:

Pete Sabo  
Hydro-Action Industries  
AK/HA Manufacturing  
PO Box 640  
Plymouth, IN 46563  
Phone: (800) 370-3749  
Email: [pete@hydro-action.com](mailto:pete@hydro-action.com)

### Distributor Information:

Joe Densieski  
Wastewater Works, Inc.  
388 Howell Ave.  
Riverhead, NY 11901  
Phone: 631-831-2580  
Email: [wastewaterworksinc@gmail.com](mailto:wastewaterworksinc@gmail.com)

### Description:

The Hydro-Action systems utilizes a suspended growth aeration system. The treatment occurs as wastewater enters the pretreatment tank and flows by gravity into the aeration compartment. Wastewater flows by gravity from the aeration chamber through a hole in the base of the cone-shaped clarifier, where final settling takes place. The hydraulic roll created by the aeration system helps draw settled solids out of the base of the clarifier and back into the aeration chamber. The aerobically-charged wastewater is then recirculated back to the pretreatment tank, where it further denitrifies. Treated wastewater exits by gravity through a tee structure located in the center of the clarifier, treated effluent is then discharged to a Department approved leachfield structure.



**Technology Name:****Norweco Singlair TNT**

Approval: Provisional Use for up to 1,000 gpd residential.

Approval Date: October 7, 2016

**Manufacturer Information:**

Scott Hetrick, Sales Manager  
Norweco, Inc.  
220 Republic Street  
Norwalk, OH 44857  
Web: [www.norweco.com](http://www.norweco.com)  
Phone: (419) 668-4471  
Email: [shetrick@norweco.com](mailto:shetrick@norweco.com)

**Distributor Information:**

Tom Montalbine, President  
Roman Stone Construction Company  
85 South Fourth Street  
Bayshore, NY 11706  
Web: [www.romanstoneco.com](http://www.romanstoneco.com)  
Phone: 631-667-0566 Ext.114  
Email: [tmontalbine@romanstoneco.com](mailto:tmontalbine@romanstoneco.com)

**Description:**

The Singlair wastewater treatment system is a self-contained three-chambered treatment system utilizing primary treatment (settling), mechanical aeration, clarification, and flow equalization to achieve treatment. Wastewater from the building enters the primary settling chamber through an inlet tee, then enters an aeration chamber. In the aeration chamber, an aspirator at the bottom of a shaft disperses air radially as fine bubbles provide oxygen for the biomass and vertically mix chamber contents. The wastewater in the aeration chamber passes through to the clarification chamber for final settling of solids. Treated wastewater passes through an effluent filter as it exits the system and is then gravity fed to the leachfield.



**Technology Name:****Orenco AX-RT**

Approval: Provisional Use for up to 1,000 gpd residential.

Approval Date: March 1, 2017

**Manufacturer Information:**

Orenco Systems Incorporated  
814 Airway Avenue  
Sutherlin, Oregon 97479  
Website: [www.orenco.com](http://www.orenco.com)

Joseph Soulia  
Senior Government Relations Representative  
[jsoulia@orenco.com](mailto:jsoulia@orenco.com)  
(800) 230-9580  
(541) 537-0772

**Distributor Information:**

Lee Essay  
Nugent & Potter  
1557 County Rd. 39  
Southampton, NY 11968  
Web: [www.nugentpotter.com](http://www.nugentpotter.com)  
Phone: 631-283-1103  
Email: [Lee@nugentpotter.com](mailto:Lee@nugentpotter.com)

**Description:**

The AdvanTex® AX-RT Series is a recirculating textile filter treatment system. It is contained within a single fiberglass tank installed with the access panel at grade. It is preceded by a two-compartment septic tank and discharges to a leachfield. Raw sewage enters the septic tank through its inlet tee. In the septic tank, the raw sewage separates into three distinct zones -- a scum layer, a sludge layer, and a clear layer. Effluent from the clear layer passes through a Biotube® effluent filter and is discharged by gravity to the recirculation treatment tank portion of the AX-RT unit, which contains a Biotube Pump Package.

The recirculation pump is timer controlled to ensure that small, intermittent doses (micro-doses) of effluent are applied to the textile sheets throughout the day. This ensures an aerobic, unsaturated environment for optimal treatment to occur. Effluent is sprayed over the textile sheets. The effluent then percolates down through the textile sheets and is distributed between the recirculation and discharge chambers by means of the AX-RT baffle. Periodically, a pump in the discharge chamber doses effluent to the dispersal system.



**Technology Name:****Norweco Hydro-Kinetic**

Approval: Provisional Use for up to 1,000 gpd residential.

Approval Date: April 21, 2017

## Manufacturer Information:

Scott Hetrick, Sales Manager  
Norweco, Inc.  
220 Republic Street  
Norwalk, OH 44857  
Web: [www.norweco.com](http://www.norweco.com)  
Phone: (419) 668-4471  
Email: [shetrick@norweco.com](mailto:shetrick@norweco.com)

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85 South Fourth Street  
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Phone: 631-667-0566 Ext.114  
Email: [tmontalbine@romanstoneco.com](mailto:tmontalbine@romanstoneco.com)

## Description:

The System uses extended aeration, attached growth, nitrification and denitrification processes to treat wastewater. It consists of four treatment chambers (pretreatment, anoxic, aeration and clarification) followed by a Hydro-Kinetic FEU filter containing filter media facilitating additional reduction of BOD and TSS by attached growth, prior to discharge to a leaching structure. The clarification chamber incorporates a flow equalization unit. Aeration is controlled by a factory-programmed timer and wastewater is recirculated from the clarifier back to the anoxic chamber at factory set intervals. The system is available with both concrete and HDPE tankage and with the pre-treatment tank either integral to the other three chambers in a four-chambered tank, or as a distinct tank.

