

BAY RESTORATION FUND RANKING DOCUMENTATION May 15, 2016

| | VENDOR IN ASCENDING ORDER | COST OF PURCHASE, INSTALLATION AND 5 YEAR OPERATION MAINTENANCE | VERIFIED BY |
|---|---------------------------|---|-------------|
| 1 | BioMicrobics RetroFast** | \$10,092.75 | Vendor |
| 2 | AquaKlear AK6S245 | \$10,616.00 | Vendor |
| 3 | Singulair TNT | \$10,895.00 | Vendor |
| 4 | Singulair Green | \$10,926.25 | Vendor |
| 5 | Hoot BNR | \$12,677.75 | Vendor |
| 6 | Hydro Action AN series | \$12,910.00 | Vendor |
| 7 | AdvanTex AX20 | \$13,235.00 | Vendor |
| 8 | SeptiTech M400D | \$13,272.25 | Vendor |
| 9 | Advantex AX20RT | \$15,054.75 | Vendor |

All prices are Estimate Averages across Maryland and subject to change, contact Manufacturer.
The BRF Program no longer funds the non field verified systems for installation.
Price does not include electrical costs per year.

** RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less. Price includes use of new tank. For use of existing tank, manufacturer must certify tank suitable and watertight.

| | VENDOR IN ASCENDING ORDER | MEAN % REDUCTION TN (Using 60mg/L influent) | MEAN EFFLUENT CONCENTRATION | VERIFIED BY |
|---|---------------------------|---|-----------------------------|-------------|
| 1 | Advantex AX20RT | 76% | 14 mg/L | MDE |
| 2 | AdvanTex AX20 | 71% | 17 mg/L | MDE |
| 3 | SeptiTech M400D | 67% | 20 mg/L | MDE |
| 4 | Hydro Action AN series | 66% | 20 mg/L | MDE |
| 5 | Hoot BNR | 64% | 21 mg/L | MDE |
| 6 | BioMicrobics RetroFast** | 57% | 25 mg/L | MDE |
| 7 | Singulair Green | 55% | 27 mg/L | MDE |
| 8 | Singulair TNT | 55% | 27 mg/L | MDE |
| 9 | AquaKlear AK6S245 | 54% | 27 mg/L | MDE |

As the data for non field verified systems is incomplete, MDE has classified the % reduction of TN and the Price per Pound of N Reduced for non field verified systems as Deliberative Data.

** RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less.

| | VENDOR IN ASCENDING ORDER | PRICE PER POUND OF N REDUCED | VERIFIED BY |
|---|---------------------------|------------------------------|-------------|
| 1 | AquaKlear AK6S245 | \$83.57 | MDE |
| 2 | AdvanTex AX20 | \$78.98 | MDE |
| 3 | Advantex AX20RT | \$83.63 | MDE |
| 4 | BioMicrobics RetroFast** | \$84.94 | MDE |
| 5 | Hoot BNR | \$87.36 | MDE |
| 6 | Singulair TNT | \$90.24 | MDE |
| 7 | Singulair Green | \$90.47 | MDE |
| 8 | Hydro Action AN series | \$92.13 | MDE |
| 9 | SeptiTech M400D | \$94.27 | MDE |

Price per pound of N reduced equals [(Price of technology plus (increased electrical costs multiplied by Ten))divided by Ten] divided by (24.32 lbs of N per year multiplied by percent reduction of N by system)

As the data for non field verified systems is incomplete, MDE has classified the % reduction of TN and the Price per Pound of N Reduced for non field verified systems as Deliberative Data.

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| | VENDOR IN ASCENDING ORDER | OPERATION AND MAINTENANCE PER YEAR AFTER THE 5 YEAR CONTRACT | MINIMUM NUMBER OF SITE VISITS PER CONTRACT | VERIFIED BY |
|---|---------------------------|--|--|-------------|
| 1 | AquaKlear AK6S245 | \$100.00 | 1 | Vendor |
| 2 | BioMicrobics RetroFast** | \$175.00 | 1 | Vendor |
| 3 | Singulair TNT | \$175.00 | 1 | Vendor |
| 4 | Singulair Green | \$175.00 | 1 | Vendor |
| 5 | Hoot BNR | \$175.00 | 1 | Vendor |
| 6 | AdvanTex AX20 | \$200.00 | 1 | Vendor |
| 7 | SeptiTech M400D | \$300.00 | 2 | Vendor |
| 8 | Advantex AX20RT | \$300.00 | 2 | Vendor |
| 9 | Hydro Action AN series | \$300.00 | 2 | Vendor |

Analysis based on price to homeowner per year.

All prices are Estimates and based on basic service level. Prices are subject to change, contact manufacturer.

Additional Charges may apply with certain manufacturers. It is the responsibility of the homeowner to contact the manufacturer for precise details of contract.

| | VENDOR IN ASCENDING ORDER | 1 YEAR ELECTRICAL CONSUMPTION (represented as kWh/ year) | INCREASED ELECTRICAL COSTS PER YEAR ASSUMING \$0.11 PER kWh | VERIFIED BY |
|---|---------------------------|--|---|-------------------|
| 1 | AquaKlear AK6S245 | 298.7 kWh/ year | \$35.84 | Vendor |
| 2 | Advantex AX20RT | 335.8 kWh/ year | \$40.30 | OSET NTP |
| 3 | AdvanTex AX20 | 335.8 kWh/year | \$40.30 | OSET NTP |
| 4 | Hoot BNR | 765.77 kWh/ year | \$91.89 | NSF International |
| 5 | Singulair TNT | 979.66 kWh/ year | \$117.56 | NAT Testing Lab |
| 6 | Singulair Green | 979.66 kWh/year | \$117.56 | NAT Testing Lab |
| 7 | BioMicrobics RetroFast** | 1401.6 kWh/year | \$168.19 | Pump Manufacturer |
| 8 | Hydro Action AN series | 1564.55 kWh/year | \$187.75 | Pump Manufacturer |
| 9 | SeptiTech M400D | 1741.05 kWh/year | \$208.93 | Vendor |

\$0.12 is an assumed average kW/h rate for Maryland 2016.

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HydroAction utilizes a mixer pump during start up. Pump use is discontinued after start up. Usage data will vary after start-up period.

For a list of vendor contact information, 410-537-3599 The information on this page is subject to change. Before selecting a technology for use on the property in question, please contact each vendor to verify the information is current and accurate. MDE is only a facilitator in presenting this information in accordance with HB347. MDE strongly advises that the applicant contact the vendor directly for more information.

Please contact the county Environmental Health Division for specific process of submitting an application

[For a list of county contact information, 410-537-3599](mailto:info@countymd.gov)

Please contact the Maryland Department of the Environment for specific questions regarding becoming a Best Available Technology in Maryland.

[For MDE contact information, 410-537-3599](mailto:info@state.maryland.gov)

RED Font = Technologies that have successfully completed Maryland's Bay Restoration Fund Field Verification process.