### BAY RESTORATION FUND RANKING DOCUMENTATION December 1, 2021

<table>
<thead>
<tr>
<th>VENDOR IN ASCENDING ORDER</th>
<th>PRICE PER POUND OF N REDUCED</th>
<th>VERIFIED BY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuji Clean CEN 5</td>
<td>$79.41</td>
<td>MDE</td>
</tr>
<tr>
<td>Fuji Clean CEN 7</td>
<td>$91.03</td>
<td>MDE</td>
</tr>
<tr>
<td>Hydro Action AN series</td>
<td>$100.50</td>
<td>MDE</td>
</tr>
<tr>
<td>Advantex AX20</td>
<td>$109.19</td>
<td>MDE</td>
</tr>
<tr>
<td>Fuji Clean CEN 7</td>
<td>$110.31</td>
<td>MDE</td>
</tr>
<tr>
<td>Fuji Clean CEN 5</td>
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<td>Advantex AX20RT</td>
<td>$115.91</td>
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<td>Fuji Clean CEN 7</td>
<td>$118.84</td>
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<td>Fuji Clean CEN 5</td>
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<td>SeptiTech M400D</td>
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All prices are estimates and based on the 2-yr O&M BAT bid submitted to the State. Some prices have been rounded. **RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less.**

Price per pound of N reduced equals \(((\text{Price of technology plus increased electrical costs multiplied by Ten})/\text{divided by Ten}) \times (24.32 \text{ lbs of N per year multiplied by percent reduction of N by system})\)

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.

### 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/yr)

- **Advantex AX20RT**: 210.2 kWh/year
- **Advantex AX20**: 210.2 kWh/year
- **AquaKlear AKG6245**: 298.7 kWh/year
- **Fuji Clean CEN 5**: 446.7 kWh/year
- **Fuji Clean CEN 7**: 648.2 kWh/year
- **Hydro Action AN series**: 734.26 kWh/year
- **Hoot BNR**: 765.77 kWh/year
- **Singular TNT**: 979.66 kWh/year
- **BioMicrobics RetroFast**: 1401.6 kWh/year
- **SeptiTech M400D**: 1741.05 kWh/year

### INCREASED ELECTRICAL COSTS PER YEAR ASSUMING $0.14 PER kWh

- **OSET NTP**: $29.43
- **Vendor**: $29.43
- **Manufacturer**: $81.82
- **Pump Manufacturer**: $102.80
- **NAF International**: $107.21
- **NAT Testing Lab**: $137.15
- **Pump Manufacturer**: $196.22
- **Vendor**: $243.75

$0.14 is an assumed average kWh/h rate for Maryland 2021. **RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less.**

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

### VENDOR IN ASCENDING ORDER

### MEAN % REDUCTION TN (Using 80mg/L influent)

- **Advantex AX20RT**: 76% 14.5 mg/L
- **Advantex AX20**: 77% 14.1 mg/L
- **AquaKlear AKG6245**: 71% 17 mg/L
- **BioMicrobics RetroFast**: 67% 20 mg/L
- **Hydro Action AN series**: 66% 20.3 mg/L
- **Hoot BNR**: 64% 21 mg/L
- **BioMicrobics RetroFast**: 58% 25.4 mg/L
- **SeptiTech M400D**: 55% 27 mg/L
- **Singular TNT**: 55% 27 mg/L
- **AquaKlear AKG6245**: 54% 27.5 mg/L

### MEAN EFFLUENT CONCENTRATION

- **Advantex AX20RT**: 67% 14.5 mg/L
- **Advantex AX20**: 77% 14.1 mg/L
- **AquaKlear AKG6245**: 71% 17 mg/L
- **BioMicrobics RetroFast**: 67% 20 mg/L
- **Hydro Action AN series**: 66% 20.3 mg/L
- **Hoot BNR**: 64% 21 mg/L
- **BioMicrobics RetroFast**: 58% 25.4 mg/L
- **SeptiTech M400D**: 55% 27 mg/L
- **Singular TNT**: 55% 27 mg/L
- **AquaKlear AKG6245**: 54% 27.5 mg/L

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.**

### OPERATION AND MAINTENANCE PER YEAR AFTER THE 2 YEAR CONTRACT

- **Advantex AX20**: $225.00
- **Advantex AX20RT**: $225.00
- **Fuji Clean CEN 5**: $225.00
- **AquaKlear AKG6245**: $250.00
- **BioMicrobics RetroFast**: $275.00
- **SeptiTech M400D**: $275.00
- **Hoot BNR**: $325.00
- **Singular TNT**: $325.00
- **Singular Green**: $325.00
- **Hydro Action AN series**: $300.00

### MINIMUM NUMBER OF SITE VISITS PER YEAR

- **Vendor**: 1
- **Vendor**: 2
- **Vendor**: 2
- **Vendor**: 1
- **Vendor**: 2
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- **Vendor**: 2

All prices are estimates and based on the 2-yr O&M BAT bid submitted to the State. Some prices have been rounded. Prices are subject to change and may vary based on location. Contact manufacturer for O&M price details. **Based on manufacturer-required service visits per year.**


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 on submitting an application.

For a list of county contact information, 410-537-3599

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

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