



Instructions for Completing the Bay Restoration Fund Grant Application For a Nitrogen-Reducing Pretreatment Unit

The following are instructions for completing an application for a grant to add a nitrogen-reducing pretreatment unit to a property that has an existing septic system. The information listed below corresponds to the items listed on the Bay Restoration Fund Grant Application.

- Building:** Indicate the type of building on the property.
- Type:** Indicate the reason for the septic system upgrade or repair.
- Water Supply:** Indicate the type of water supply on the property.
- Item 1:** List the property owner's name and mailing address including the street address, city, state and ZIP code. Also include phone and email contact information.
- Item 2:** List the building address of the property, including the house number, street name and city.
- Item 3:** Transfer the 12-digit tax account number from your County property tax bill.
- Item 4:** Transfer the subdivision name and lot number from your County property tax bill.
- Indicate the dimensions of the existing and proposed living space in square feet. Include dimensions for unfinished basements, finished basements, first floor, second floor and total floor areas.
- Indicate the number of existing bedrooms and the current perc application number for the property. Owners should complete a perc application prior to submitting a Bay Restoration Fund Grant Application.
- Applicant Information:** Applicant must sign the application and agree to the terms of the application. Provide name and mailing address of the applicant in the box provided.
- Income Information:** Include a copy of the first page of the most recent federal income tax form 1040 for each person listed on the deed. Social Security numbers should be deleted.
- Email Application to:** hdepeter+brf@aacounty.org
- Or Mail Application to:** Anne Arundel County Department of Health
Bureau of Environmental Health
Sanitary Engineering Program
3 Harry S. Truman Parkway
Annapolis, Maryland 21401

For more information, call 410-222-7193 or visit www.aahealth.org/brf.



BAY RESTORATION GRANT APPLICATION
NITROGEN-REDUCING PRETREATMENT UNIT

This application is designed to aid our office in determining your eligibility. This application is considered public information under the Freedom of Information Act. Submit completed applications to the address above.

BUILDING

- Residential
Commercial
Other

TYPE

- Repair of failing septic system
Upgrade of septic system without building improvement
Addition on property
Demo and rebuild project

WATER SUPPLY

- Private well
Public water

1. OWNER _____ MAILING ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____ EMAIL _____

PHONE NUMBER: HOME _____ CELL/WORK _____

2. BUILDING ADDRESS _____

(House Number, Street, City)

3. TAX ACCOUNT NUMBER _____

4. SUBDIVISION _____ LOT NUMBER _____

Describe any problems with your existing system: _____

DIMENSIONS (in square feet)

- Unfinished Basement
Finished Basement
First Floor
Second Floor
Total Floor Area

Existing

Proposed

Table with 2 columns: Existing, Proposed. Rows for Unfinished Basement, Finished Basement, First Floor, Second Floor, Total Floor Area.

Number of Bedrooms: _____

Perc Application No: _____

NAME, ADDRESS AND PHONE NUMBER OF APPLICANT:

Phone: _____

The applicant hereby certifies and agrees as follows:

(1) that the applicant is authorized to make this application; (2) that the information is correct; (3) that the applicant will comply with all regulations of Anne Arundel County which are applicable hereto; and (4) that the applicant grants County officials the right to enter onto the property for the purpose of inspecting the work permitted and posting notices.

Signed _____

Date _____

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.

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

	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.

** 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.

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](tel: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](tel:410-537-3599)

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