

COLLEGE OF AGRICULTURE & NATURAL RESOURCES



Wastewater Treatment Demonstration Facility

Central Maryland Research and Education Center (CMREC) Clarksville, Maryland

Goals, Audiences, and Opportunities for the Demonstration Facility

- Education of homeowners on systems, components and maintenance practices
- Training for wastewater industry, and government environment personnel including CEUs
- Experiential learning of technology and their operation
- Ability to understand wastewater dispersal systems
- Scheduled tours and workshops for the general public



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Clarksville Facility 4240 Folly Quarter Road Ellicott City, MD 21042

go.umd.edu/CMREC

mowpa.org



The College of Agriculture and Natural Resources and the Maryland Onsite Wastewater Professional Association (MOWPA) have begun development of a facility intended to demonstrate technology and provide education and training on onsite wastewater treatment, or septic systems.

This two-acre site will present unique opportunities for homeowners and various professionals to experience a variety of wastewater treatment technologies including: conventional septic systems, waste water dispersal methods, advanced treatment or best available technology (BAT) systems, demonstration of system landscaping practices, and well technology and protection practices.

THESE SYSTEMS AND TECHNOLOGIES WILL BE ON DISPLAY FOR VISITORS

Conventional Systems

Concrete septic tanks Plastic septic tanks Distribution box One of the above tanks with gravel trenches

Dispersal Systems

Gravel trench (end view) Chambers (low and high) EZ Flow tubes Low pressure pipe Drip dispersal Various pump chamber float configurations Serial distribution Shallow pressurized dispersal At grade mound (end view) Sand mound (end view) Space for future technologies Pump systems Pump tank with timed floats Advanced Treatment Systems

Current MD approved BAT units Space for future approved BAT units Electric controllers, alarm, etc. Peat filters Sand filters Soil and Site Evaluation: Soil pits for hands-on soil evaluation experience Soil types and structure

Landscaping Practices

Tank Drainfield Sand and At Grade mounds Stormwater diversion practices

Wells and Protection Practices

Sanitary caps Pitless adapter Pressure tanks Pumps Well head sloping Well grouting Horizontal separation The two-acre site will present unique opportunities for homeowners and various professionals to experience a variety of wastewater treatment technologies.



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CONTACT:

Andy Lazur UMD Extension Principal Agent, Water Quality Specialist

lazur@umd.edu 301-789-5256

Maryland Onsite Wastewater Professional Association (MOWPA) mowpa.org

UNIVERSITY OF MARYLAND EXTENSION

University of Maryland Extension College of Agriculture and Natural Resources 1296 Symons Hall College Park, MD 20742-5565

agnr.umd.edu



