

# Bateman Stormwater Management Facility

## **Background:**

The Bateman stormwater management facility is a new facility constructed in an agricultural field on the Bateman property located off of Patapsco Road in Finksburg. The construction of the facility was implemented to address flooding and run-off issues in the West Branch of the Patapsco River Watershed. Over the years damage has been done to both private and public property from the uncontrolled run-off. This facility was constructed to current standards thereby ensuring that the facility provides stormwater control and the field can continue to be used for the agricultural operation.

## **Scope of Work:**

The site was analyzed by the Bureau of Resource Management to determine if infiltration would be feasible. It was determined that the county's standard infiltration design would work well at this site. In order to gain access to the facility for construction a stream crossing was first constructed to move equipment into and out of the site. The design for the facility included construction of the dam and emergency spillway, followed by the construction of the recharge area which included 36" layer of #8 stone with 4" HDPE type "SP" pipe laying on top to draw any excess water off the surface. The pipe was topped with 6" of #8 stone and then finished with 24" of a sand-soil mixture. All of the slopes were designed at 4:1 to allow efficient agricultural operation around the facility. The facility was designed to meet and exceed all current county and state stormwater management regulations. Construction of the pond was done in a very efficient manner.

## **Sequence of Construction:**

The landowners in the watershed were contacted about the proposed watershed restoration, at that time staff members meet with the property owners in the watershed to discuss the proposed projects. Several meetings were held with the Bateman's to discuss the design of the facility. Upon completion of the design a meeting was held with the landowners to review the final plan. The facility went out to bid on January 22, 2007 with bids due back by February 1, 2007.

The job was awarded to White Pine Construction and was slated to begin March of 2007. The contractor began working August 18, 2008. The contractor completed the project in October, but had to return in early November to repair a few ruts in the bottom of the structure and enlarge the stilling basin. All disturbed areas were re-stabilized. The project received a final sediment control inspection on November 13, 2008. The as-built was accepted on December 4, 2008.

## **Project Details:**

Watershed:	Liberty Reservoir
Drainage Area:	47.25 acres
Impervious Surface Treated:	7.40 acres
Costs: Land/Eng./Constr.	\$1,300,000/\$28,601.81/\$101,634.70

## **Submitted By:**

Janet Doody, Watershed Management Specialist









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