

Project Summary: Controlling Nutrients within a HQ Watershed

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This project was designed to address resource concerns associated with the Longmore horse operation. The farmstead has lacks a manure storage leaving the stockpiled manure exposed to uncontrolled surface runoff. This poses a great environmental risk during winter months.

The resource concerns were addressed by implementing several BMPs. The concern was address with the construction of a roofed concrete stacking pad (PA-313) for the manure. The manure stacking pad will accommodate 6 months of manure to allow for timely application. The structure includes gutters and downspouts (PA-558) and underground outlets (PA-620) for the safe collection of roof water.



The project will prevent excess nutrients and sediments from entering the waterways and ultimately the Chesapeake Bay. The project area drains directly to Bowmans Creek, a high quality (HQ) designated stream. The project will allow the manure to be safely stored until it can be safely land applied. Since the manure will now be store under cover, there will be approximately 395 lbs. of nitrogen, 185 lbs. phosphorus, and 245 lbs. potassium prevented from entering the watershed. The project will be very effective for keeping nutrients from entering the Chesapeake Bay.

Since the project will provide a stable stacking pad, under cover, there will be less soil leaving the site, which is responsible for sediment pollution in the nearby HQ streams, as well as the Chesapeake Bay. The amount of soil loss that will be prevented is estimated to be approximately 123 tons of sediment per year.

This project will be a great benefit to improve Wyoming County's water quality and improve the overall health of the Chesapeake Bay. The implementation of the BMPs will prevent both nutrient and sediment pollution from affecting the water quality.