

STORMWATER BMP SITES IN PAXTON CREEK WATERSHED

BMP Type: Farm Show Roof Runoff Reuse



Equine Arena Roof Runoff Tank

Name and Location: Runoff capture and reuse occurs at the Main Exhibition Hall of the PA Farm Show Complex and Expo Center, whose north parking area is adjacent to Cameron Street and Wildwood Park Drive, Harrisburg

Project Site Number and BMP Type Code: 2N

GPS Coordinates: Lat N40.28808 degrees, Long W76.88265 degrees

Site Features: Precipitation capture and reuse involve a varied storage, from barrels and tanks to tanker trucks, that collect the rainwater or snow melt, hold it for a time, and allow its release for reuse. The Farm Show consists of multiple buildings, support facilities, and massive parking areas. Over 75 million gallons of precipitation fall annually upon its 20-acres of roofs, and 60-acres of asphalt parking lots -- creating immense opportunities for runoff collection and reuse. At the Farm Show the reused water can help keep down dust, and clean exhibit areas, animal pens, and other places. The Farm Show system involves roof gutters and drains, collection pipes, a 20,000 gallons storage tank, an air bubbler unit to keep water from freezing in winter, and release outlets. The system has a bypass for when the tank is full, or large storms occur. The roof runoff reuse occurs in Equine Arena vicinity. This practice can remove up to 100% of total suspended solids with their attached pollutants, but the water quality may worsen if the reused water is not filtered, and/or treated before its final discharge. The ideal fate of the captured-reused-released stormwater would be use of another site BMP, such as bioretention areas or rain gardens, where layers of porous soils, vegetation, mulch, and other materials function together in cleaning up dirty water for certain kinds of pollutants. The runoff capture and reuse Best Management Practice (BMP) is a project of a Targeted Watershed Grant for stormwater projects, administered by Susquehanna River Basin Commission in partnering with the PA Farm Show, PCWEA, and others to develop innovative and cooperative stormwater management approaches for PA communities (www.srbc.net for project overview).

Site Directions: The PA Farm Show Complex occupies the land west of Cameron Street (Rt. 322) between Paxton Creek (W), Maclay Street (S) and Wildwood Park Drive (N). Elmerton Avenue intersects with Cameron Street (Rt. 322), and Wildwood Park Drive at a traffic light at the northeast corner of the north parking area. Entrance to this lot is off Wildwood Park Drive (formerly known as Industrial Road) at the traffic light, located opposite to entrance 1 to Harrisburg Area Community College, and PA State Employees Credit Union (PSECU).