

STORMWATER BMP SITES IN PAXTON CREEK WATERSHED

BMP Type: HACC Underground Infiltration



HACC Underground Infiltration Unit

Name and Location: Underground infiltration is performed for drainage to a bioretention garden adjacent to the west parking area at Harrisburg Area Community College (HACC) Wildwood Campus, One HACC Drive, Harrisburg

Project Site Number and BMP Type Code: 1G

GPS Coordinates: Lat N40.29612 degrees, Long W76.88783 degrees

Site Features: Surface infiltration troughs, filled with stones (and surrounding voids) were built in front of both sets of bioretention gardens at HACC to receive stormwater runoff from the west parking area, before flows reached the gardens. Found to be inadequate along the corner of a garden that was eroding from excessive surface flows, an underground infiltration unit was constructed to expand storage and replace a section of a trough. Underground infiltration units provide spaces for temporary storage and infiltration of stormwater runoff. The HACC demonstration, small-scale unit consists of a rectangular hole filled with plastic supports to create a space, and is covered in geotextile cloth which rests beneath the underground supports and a stones layer rising to the ground surface level. The HACC demonstration unit uses plastic crates donated by Harrisburg Dairies for the underground supports. This unit occupies a volume of only 18 cu ft. Underground units in developed areas with poor soils infiltration, and/or limited surface areas can have much deeper, larger storage volumes (thousands of cu ft), as beneath large parking lots. These units typically separate the inlet and outlet drains. Only the river stones atop the HACC facility are observable. A small sign points toward the underneath unit. A much larger underground infiltration unit with an outlet drain from the facility's gravel bed serves Beaufort Plaza, a small shopping center located at the corner of Crooked Hill Road and Rt. 39 (Linglestown Road) in Susquehanna Township.

Site Directions: HACC entrance 3 off Industrial Road is closest to the underground infiltration unit. After driving east across the west lot, park in a designated space if driving, and walk about 30 m north (toward the mountain). The unit is on the right at northern end of the last garden. Access to Industrial Road is at 2 places: From Rt. 39 (Linglestown Road) near the Rt. 322 overpass in Susquehanna Township southward;

westward from the junction of N. Cameron Street, Elmerton Avenue, and Wildwood Park Drive at the edge of the northern parking lot of the PA Farm Show in Harrisburg.