

## UMD 602 - Pollution and Prevention/ Good Housekeeping BMP

### Title: **Pond Maintenance and Cleaning - Review**

Four ponds exist on the campus. These ponds have many uses; the slow runoff to allow for sediment to settle out, allow for evapotranspiration, and instruction and recreational purposes. In order for these ponds to work properly they must be adequately maintained for their intended purposes. The ponds on campus are located in the following watersheds:

#### Oregon Creek Watershed:

1. Fire Hall Pond - Located near College St. and Kirby Drive

#### Tischer Creek Watershed (West Branch of Tischer Creek):

2. Eric Clarke Pond - Located in the Southwest corner of the intersection of St Marie St. and Kirby Dr.
3. Rock Pond - Located in the Bagley Nature Area on the northwest corner of the campus.
4. Unnamed - A small pond located near the Grounds Materials Storage building.

#### Review of Current Practices:

Three of the ponds on the campus were constructed in from the late 60's to mid 70's. Typically these ponds have had the outflows checked at least once a season. Fire Hall Pond and Eric Clarke ponds were dredged out to their original depths in 2002. It is believed to be the second time these ponds were dredged since their construction. Rock Pond's outlet is checked more often because of beaver activity the past 5-6 years. The unnamed pond by the Grounds Material Storage building pond was constructed last year as part of the building construction project and its functionality has not yet been determined.

#### **DRAFT PROCEDURE:**

- Remove accumulated trash and debris a minimum of 2 times during the growing season from the side slopes, embankment, emergency spillway and outflow trash racks. Complete inspections after a major rain event as well.
- Inspect the outflow of each pond for evidence of clogging or overflow. Any problems with the outflow structures should be reported immediately.
- Inspect for erosion, sediment accumulation at the inlet/outlet and any other potential problems. Address problems in a timely fashion.
- Remove sediment from the pond as necessary. (Estimated at 20-25 year)
- Dispose of sediment per MPCA requirements and on site if possible.
- Control invasive plants following appropriate integrated pest management practices.
- Control mosquitoes, if necessary, following appropriate integrated pest management practices.