

Title: **Storm Water Annual Assessments – 04 Inspections**

A total of 15 outfalls, ponds, and structural pollution control devices (SPCD) were inspected this year. This represents all known SPCDs, 25% of our ponds and 18% of our known outfalls. To date we have inspected 50% of our ponds and 68% of our known outfalls. Individual inspection reports are available by contacting UMD Facilities Management, 1049 University Drive - Room 241, Duluth, MN 55812.

Structural Pollution Control Devices (Part V.G.6.b.2)

Part V.G.6.b.2 of the MPCA permit number MN R 040000 requires to “Inspect annually all structural pollution control devices, such as trap manholes, grit chambers, sumps, floatable skimmers and traps, separators, and other small settling or filtering devices.”

The UMD has five known SPCDs as of January 1, 2005. These are the Stormceptor (ST5146) located off Lot M (Installed 2002) and the Stormceptor / Underground (ST4591- ST4596) holding facility under Lot G (Installed 2003) and a filtration area (ST3982) between Lot T-2 and Rock Pond (Installed 1994). A new Stormceptor (ST1630) was installed this summer by lot P and a new bio-retention area (ST9790) was constructed at Glensheen.

- ST5146 located off Lot M (Installed 2002) was inspected on October 10, 2004 and found to have 8.5” of sediment. Since it was more than the manufacture’s recommended 8”, it was cleaned on January 12, 2005.
- ST4591- ST4596 were inspected on 11/5/04. The Stormceptor had some suspended solids, but no oils and only minor sedimentation. The underground storage tanks were not full to the halfway mark as anticipated in the design. There was evidence that storm water had filled the tanks as there was minor sediment in the bottom. Why the tanks are not remaining partially filled and whether or not this is a problem needs to be determined.
- ST3982 was inspected on 5/6/04 and it is functioning as designed.
- The new Stormceptor (ST1630) located by Lot P was inspected on October 10, 2004. It was found that the City of Duluth storm sewer down stream was blocked and flooding the Stormceptor. The City of Duluth was called to clean the line, but it is unknown if they completed the work prior to freeze up.
- The new bio-retention area (ST9790) was constructed this spring to capture water off part of the Glensheen parking lot.

Outfalls, Sedimentation Basins, and Ponds (PartV.G.6.b.3)

Part V.G.6.b.3 of the MPCA permit number MN R 040000 requires inspecting at least 20% of all outfall, ponds, and sedimentation basins.

Ten outfalls along College Street and Junction Avenue (up to Lot U) were inspected this year. This represents 18% of our known outfalls. To date we have inspected 68% of our known outfalls. There were no major problems associated with our outfalls inspected this year that are under our control.

Fleet/Grounds Pond

The Fleet/Grounds Pond was designed to contain storm water from the materials storage area and have it leach / evaporate out. The pond has been full ever since its construction and overflows through a grassy swale into the West Branch of Tischer Creek. We believe that the high water table is from a perched water table that was not found by the original soil borings. Since the pond is always full, it should be investigated if a bio-retention area or constructed wetland would be a better water quality feature. We took conductivity readings throughout the fall and while the pond had high readings (850+), there was no change in the WBTC above and below the discharge point.