

# Pump-controlled iron enhanced sand filter basin at the Golden Lake Stormwater Treatment Pond

## PROJECT BACKGROUND

- Golden Lake is impaired for nutrients (total phosphorus—TP)
- To meet water quality standards, the TMDL calls for TP reductions from the watershed (103 lbs/yr) and internal lake loading (236 lbs/yr).
- Once watershed reductions are met, focus will be directed to in-lake sources.
- Prior projects within the watershed have achieved 37 lbs-TP/yr reductions from the watershed.

## PROJECT BENEFITS

- Stormwater retrofit analysis identified this project as one of the most cost-effective remaining opportunities to treat watershed sources of TP.
- This iron enhanced sand filter (IESF) will remove 40 to 60 lbs-TP/yr, depending on source water TP concentration variability.
- The IESF will largely treat dissolved phosphorus, an often untreated fraction of the total phosphorus pool

