

PROJECT: Pond Sampling & Dredging Plan (City of Crystal, 2011)
CLIENT: City of Crystal

CHALLENGE: Hagemeister Pond, designated as Minnesota DNR Public Waters Wetland 642W, has been receiving stormwater runoff from its existing residential watershed for decades. Over the years the water body had accumulated a large quantity of sediment, particularly near the inlet where large particles would settle. Maintenance was necessary to return the pond to its natural dimensions and ecological function.

SOLUTION: Determining the extents and characteristics of the accumulated sediment was key to planning for its removal; therefore, Hydromethods began by surveying and sampling the sediment plume. Cores were taken and tested for pollutant chemicals as outlined by the MPCA's Managing Dredged Materials manual to properly quantify the level of pollution. Qualified laboratory results indicated the sediment consisted of a high concentration of hazardous materials, indicating prudent disposal should occur at a waste management facility.

Agency forms and permit applications were completed, and dredging authorization was granted for this DNR Protected Water. Hydromethods completed dredging and disposal construction plans, specifications, cost estimates, and other associated contract documents in time for winter dredging.

