

## I. INTRODUCTION AND PURPOSE

This report provides the results of a Loading Assessment and a Nondegradation Report that was completed for the City of Savage. The City was designated by the Minnesota Pollution Control Agency (MPCA) as one of the selected Municipal Separate Storm Sewer Systems (MS4) that is required to complete a nondegradation analysis as part of the National Pollutant Discharge Elimination System (NPDES) requirements. Cities are selected for this requirement based on high population growth from census data taken from 1990 to 2000 and projected growth as determined by Metropolitan Council and the State Demographer from 2000 to 2020.

Rules for completion of the nondegradation review are outlined in the MPCA's Permit No. MNR040000. Under the rules stated in the permit, the City is required to complete a loading assessment and a nondegradation report and submit the documents to the MPCA by January 1, 2008.

This report provides the results of a water quality modeling and stormwater treatment analysis for systems that are in place within the City of Savage. The report provides the results of the assessment which has been performed to estimate the changes in annual average runoff volumes, total suspended solids loadings and phosphorus loadings that may have occurred from 1990 to the present. The report also estimates changes in runoff volumes and total suspended solids and phosphorus loadings from current day conditions to the year 2020.

**Section II** of this report provides background information specific to the City of Savage that was considered. **Section III** provides a detailed outline of the procedures and methods that were used to develop the loading assessment, stormwater BMP treatment efficiencies, and findings made, relative to changes in loadings over the time periods analyzed. **Section IV** presents and discusses the results of the loading assessment.

Based on the analyses completed in the previous sections, **Section V** identifies a plan that the City can implement in the future so that it remains compliant with the nondegradation standards required by the MPCA. It is anticipated this mitigation plan will be incorporated into the City's Stormwater Pollution Prevention Program to remain compliant with NPDES permit requirements.

**Section VI** provides a summary of the loading assessment and mitigation plan.