

NUTRIENT REDUCTION STRATEGIES

The Iowa Department of Natural Resources (DNR) has implemented the Iowa Nutrient Reduction Strategy to reduce the amount of nutrients found in waterways both within the state and traveling south to the Gulf of Mexico. By lowering nutrient levels, we decrease water pollution, thus improving overall water quality. The ultimate goal of this strategy is to improve the Gulf of Mexico's water quality, while improving Iowa's waterways.

Bolton & Menk has a close working relationship with the Iowa DNR and the Iowa Department of Agriculture and Land Stewardship. These relationships ensure our municipal and agricultural projects fit all strategy requirements while maintaining cost-efficient solutions for our clients. Our team of highly qualified, experienced staff in both the municipal and agricultural sectors are actively working with counties throughout Iowa to improve water quality in accordance with the Nutrient Reduction Strategy.

Types of Sources

Point-Source

Point-sources are those where the pollutants can be tracked back and measured from a single source. Wastewater treatment plants or industrial facilities are the most common point-sources. These sources are easier to regulate since the amount of effluent is measured under permits and has been for some time.

Nonpoint-Source

Nonpoint-sources are more difficult to regulate since the effluent cannot be easily measured or traced to a single source. The most common nonpoint-source in Iowa is agricultural farm fields. The fertilizer used in fields across the state contains nutrients that are carried in the runoff if not absorbed by plants, which pollutes nearby bodies of water.

Why Bolton & Menk

Our unique team of professionals serve municipal and industrial clients as well as county agriculture drainage districts. We bridge the technical and political gaps between point-sources and nonpoint-sources to implement effective nutrient reduction and water quality improvement plans and concepts. Bolton & Menk staff explain technical issues in ways that help overcome traditional conflicts. We help improve understanding of long-term goals, objectives, and technical details, such as cost-effectiveness of specific nutrient reduction practices.

Benefits

- Improved water quality (nutrient and sediment reduction)
- Increased conservation
- Reduced surface runoff and erosion
- Habitat improvement
- Recreation opportunities

Other Water Resources Services

- Comprehensive Stormwater Management Planning
- GIS Compatible Stormwater Modeling
- TMDL Assistance & Implementation Plans
- Water Quality BMP Designs
- Infiltration, Reclamation, & Reuse Designs
- DFIRM Mapping
- Culvert & Waterway Analysis
- Wetland Services
- Agricultural Drainage

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