

## St. Louis North Goals

### Surface Water Quality Goals – St. Louis North

**Complete farm projects on X % of properties identified as needing enhancements (e.g., livestock exclusion, manure storage, pasture management) where there are bacteria impairments.**

- Develop plans for 9 priority farms
- Implement at least 9 feedlot practices that store manure in ways that prevent runoff

**X% of municipalities with identified bacteria impairments are implementing plans to reduce bacteria in surface waters.**

- Develop and implement a pet waste education program
- Outreach to 9 municipalities
- Implement x projects to reduce bacteria to surface waters
- Complete bacteria reduction plans for 5 municipalities
- Assist with planning for 2 municipalities in Swan River and 3 municipalities in Upper Sand River watershed

**Manage chlorides reaching surface and ground water from road salts and water softener salts by ensuring X% of municipalities have Smart Salt Certified Staff, X% Communities achieved Level 2 Certified & education & outreach to X% of priority landowners.**

- Outreach to 9 municipalities
- Work with MPCA to provide Level 2 Certification to 5 municipalities
- Identify high priority private landowners and target outreach
- Evaluate County's salt training with Smart Salt training and identify gaps.
- Provide cost share for staff smart salt training
- Educate large property owners on salt use and promote smart salt training

### Drinking Water Goals – St. Louis North

**Protect groundwater quality by sealing X unused, unsealed wells watershed wide.**

- Seal 20 unused wells
- Provide cost share to seal unused wells
- Develop educational campaign for groundwater protection
- Develop groundwater monitoring program to better understand groundwater quality trends
- Target 1 mile buffer area around DWSMAs for well sealing campaign

## **Land Use Goals – St. Louis North**

**Promote the implementation of low impact development techniques to reduce stormwater runoff, volume and rate control in x% of communities**

- Complete stormwater plans for 5 municipalities
- Develop education/outreach campaign to municipalities
- Work with the State of MN to ensure NPDES permits and guidelines are followed for construction and industrial sources of stormwater.
- Develop an education and outreach campaign to urban landowners on stormwater BMPs

## **Altered Hydrology Goals– St. Louis North**

**Reconnect X miles of priority streams and tributaries to benefit aquatic life and improve water quality.**

- Complete fish friendly culvert design for 2 culvers on Dempsey Creek
- Outreach to road authorities on Dempsey Creek
- Complete culvert inventory in Upper Sand watershed
- Complete feasibility study and preliminary design of dam removal on Ely Creek

**Restore stream reaches that have been altered by human activity, including impounded, straightened, and incised stream reaches on X Linear Feet of high priority streams and tributaries.**

- Inventory priority reaches to prioritize restoration sites
- Restore 2000 linear feet of stream

**Increase X acre/feet of watershed storage by restoring wetlands in identified priority areas where they have been lost and/or altered due to ditching or development activities.**

- Coordinate x meetings with ditch authorities to discuss possible options for ditch decommissioning/stream restoration
- Incorporate check dams in road ditches to help slow the flow
- Evaluate the beneficial use of beaver for watershed storage
- Inventory small hand dug ditches in priority areas to identify potential wetland banking opportunities or wetland restoration projects.

## **Habitat Goals – St. Louis North**

**Protect & manage X acres of private owned forests in areas that protect surface water, drinking/groundwater water quality and riparian habitat.**

- Develop forest management plans for 4126 acres of privately owned forest (~47 plans)
- Outreach to 47 priority land owners
- Enroll 4126 acres of privately owned forest in SFIA, 2C or easements
- Conduct 10 workshops for woodland land owners
- Develop and Implement an outreach campaign to forest landowners

**X % (or feet) of shoreline in prioritized lakes and streams have natural buffers and near shore areas are protected and restored to reduce erosion using bank stabilization, bioengineering, etc. techniques.**

- Outreach to targeted areas
- Design
- Implement 1500 linear feet of shoreland restoration
- Implement tax incentive program to incentivize natural shorelines
- Enforce shoreland setbacks/buffers in all parts of the watershed
- Develop a BMP education and outreach campaign to shoreline landowners in targeted areas.
- Implement a visual preference study with landowner