

East Polk SWCD

| East Polk SWCD | | | | | | | | | | | |
|---------------------------|-----------------------------------|---------------------------------|--|---|-------------------------|------------------------|--|---|--------------------------|-----------------------|--|
| Water Resource of Concern | | | | | Targeting | | | Projects and Activities | | | |
| (A) | (B) | (C) | (D) | (E) | (F) | (G) | (H) | (I) | (J) | (K) | (L) |
| Local Resource Priority | Primary Water Resource of Concern | Primary Water Resource Category | Conventional Water Quality Impairments Y/N | Water Quality Concern | Scale of Activity Focus | Watershed: 8-Digit HUC | Sub-watershed: 12-Digit HUC (if known) | Project Activity Description | Water Plan Category | Primary Activity | Why is this activity important for the water resource? |
| 1 | Sand Hill River Watershed | Surface Water | Yes | The main stressor for water bodies being impaired within the SHRWD is excessive amount of sediment. Elevated turbidity can affect drinking water quality and the ability of aquatic life to sustain healthy and viable populations. | Major Watershed | 09020301 | | This project will utilize land management planning methods to determine areas of high importance for BMP installation in the Sand Hill River Watershed. | Targeting | Community Engagement | The main impairment within the Sand Hill River is an excessive amount of sediment. Determining areas of high importance for BMP installation will result in reduced sediment delivery once projects are installed. |
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| 2 | Sand Hill River Watershed | Surface Water | Yes | The main stressor for water bodies being impaired within the SHRWD is excessive amount of sediment. Elevated turbidity can affect drinking water quality and the ability of aquatic life to sustain healthy and viable populations. | Major Watershed | 09020301 | | Phase III Sand Hill River Watershed Accelerated Erosion Area BMP's. Continued implementation of erosion control/sediment reduction project in the Upper Sand Hill River Watershed. The focus will be assisting landowners to install water and sediment control basins on high potential sediment delivery areas. | Land and Water Treatment | Erosion Control Water | Reaches of the Sand Hill River are impaired because of sediment. Water and sediment control basins hold back water and allow the soil to filter out in a timely period before entering a water course. |
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| Plan Connection | | | Outputs | | | Budget | | |
| (A) | (M) | (N) | (O) | (P) | (Q) | (R) | (S) | (T) |
| Local Resource Priority | Water Plan or TMDL Implementation Plan Priority Connection | Plan Type | Number of anticipated outputs | Number of outputs specifically identified at this time | Describe how these activities could be accomplished in a 3-year grant period. | Requested State Contribution for FY14-15 Biennium (\$) | Potential Leveraged Funds (\$) | Resource Management Budget(\$) |
| 1 | Identify areas of agricultural land use for the installation of erosion and sediment control practices to reduce sedimentation into rivers, lakes, and wetlands with priority given to land with a Land Management Plan. Pursue funds to do land management plans to accelerate implementation on needed areas with priority to source water protection (pg 66). | County | 30 Plans, 18,000 acres | none | Initial contact leading to planning. Assemble resource data pertaining to planning area. Identify resource problems, opportunities, and concerns. Determine client objectives. Inventory resources. Analyze resource data. Formulate and evaluate alternatives. Plan implementation and evaluation. | \$144,000 | \$36,000 | \$180,000 |
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| 2 | Identify areas of agricultural land use for the installation of erosion and sediment control practices to reduce sedimentation into rivers, lakes, and wetlands with priority given to land with a Land Management Plan (pg 66). | County | 75 Water and Sediment Control Basins | none | These projects will be surveyed, designed and constructed within the 3 year contract. | \$450,000 | \$162,500 | \$612,500 |
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| Local Resource Priority | Primary Water Resource of Concern | Primary Water Resource Category | Conventional Water Quality Impairments Y/N | Water Quality Concern | Scale of Activity Focus | Watershed: 8-Digit HUC | Sub-watershed: 12-Digit HUC (if known) | Project Activity Description | Water Plan Category | Primary Activity | Why is this activity important for the water resource? |
| 3 | Lakes within the Sand Hill River Watershed | Lake | Unknown | Many lakes in this region have been classified by MPCA as having moderate or high sensitivity to disturbance. Lake water quality is important to the residents of the SHRWD, increased demands on these water bodies has lead to increased risk of water quality degradation. | Lake Catchment | 09020301 | | This project will focus on completing shoreland restorations and stabilization projects on larger and more recreationally important lakes in the Sand Hill River Watershed including Union Lake and Lake Sarah. | Land and Water Treatment | Shoreland Management | Lake water quality is important to the residents of the SHRWD. Area lakes are used for recreational opportunities, such as waterfowl hunting, fishing, swimming. Many of these lakes have homes along their banks. Lake water quality is important to the economic progress of the area where many lakes are concentrated. The pressure for development around the lakeshore, plus commercial tourism could result in poor water quality. |
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| 4 | Clearwater River Watershed | Surface Water | Yes | The Clearwater River Watershed is impaired due to high levels of turbidity. Erosion due to storm runoff is a serious problem in the subwatershed. | Major Watershed | 09020305 | | This project will utilize land management planning methods to determine areas of high importance for BMP installation in the Clearwater River Subwatershed. | Targeting | Community Engagement | The RLWD identified the delivery of sediment to district water bodies and drainage systems as a major issue facing the district. Sources of sediment include wind and water erosion from agricultural lands. Determining areas of high importance for BMP installation will result in reduced sediment delivery once projects are installed. |
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| 3 | Maintain and assess the water quality of rivers, lakes, and groundwater resources. Action: Implement the Lake Improvement Districts lake plans. Action: Implement the Watershed District plans. (pg 67) | County | 10 shoreline stabilizations/restorations | none | These projects will be surveyed, designed and constructed within the 3 year contract. | \$120,000 | \$30,000 | \$150,000 |
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| 4 | Identify areas of agricultural land use for the installation of erosion and sediment control practices to reduce sedimentation into rivers, lakes, and wetlands with priority given to land with a Land Management Plan. Pursue funds to do land management plans to accelerate implementation on needed areas with priority to source water protection (pg 66). | County | 30 Land Management Plans, 18,000 acres | none | Initial contact leading to planning. Assemble resource data pertaining to planning area. Identify resource problems, opportunities, and concerns. Determine client objectives. Inventory resources. Analyze resource data. Formulate and evaluate alternatives. Plan implementation and evaluation. | \$144,000 | \$36,000 | \$180,000 |
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| Local Resource Priority | Primary Water Resource of Concern | Primary Water Resource Category | Conventional Water Quality Impairments Y/N | Water Quality Concern | Scale of Activity Focus | Watershed: 8-Digit HUC | Sub-watershed: 12-Digit HUC (if known) | Project Activity Description | Water Plan Category | Primary Activity | Why is this activity important for the water resource? |
| 5 | Clearwater River Watershed | Surface Water | Yes | Portions of the Clearwater River are impaired due to high levels of turbidity, TSS, fecal coliforms and low DO during periods of low flow. | Major Watershed | 09020305 | | The RLWD identified the delivery of sediment to district water bodies and drainage systems as a major issue facing the district. Work with the RLWD to identify ditch systems for BMP installation. Install side inlet pipes to reduce agricultural erosion. Side inlet structures lower the water from a field elevation, a surface drain, or a waterway to a deeper outlet channel. | Land and Water Treatment | Erosion Control Water | Erosion due to storm runoff is a serious problem in the watershed. During periods of high runoff, channel erosion causes bank stabilization concerns for this watershed. Installation of side water inlet pipes will stabilize and control erosion in channels. |
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| 5 | Identify areas of agricultural land use for the installation of erosion and sediment control practices to reduce sedimentation into rivers, lakes, and wetlands with priority given to land with a Land Management Plan (pg 66). | County | 20 Side Inlet Pipes | none | These projects will be surveyed, designed and constructed within the 3 year contract. | \$80,000 | \$20,000 | \$100,000 |
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| 6 | Lakes within the Clearwater River Watershed | Lake | Unknown | The RLWD identified Maple lake suffers from poor water Quality. Erosion of shoreline on Maple and other lakes is ranked as a high priority. | Lake Catchment | 09020305 | | This project will focus on completing shoreland restorations and stabilization projects on larger and more recreationally important lakes in the Clearwater River Watershed including Maple Lake. | Land and Water Treatment | Shoreland Management | Lake water quality is important to the residents of the Clearwater River Watershed. Area lakes are used for recreational opportunities, such as waterfowl hunting, fishing, swimming. Many of these lakes have homes along their banks. Lake water quality is important to the economic progress of the area where many lakes are concentrated. The pressure for development around the lakeshore, plus commercial tourism could result in poor water quality. |
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| 7 | Groundwater in Polk County | Groundwater | No | Many public water supply systems are supplied from groundwater sources. Abandoned wells are a potential contamination conduit to groundwater resources. | County-Wide | | | Develop a cost share program for well sealing. Allow landowners to seal abandoned wells to protect groundwater from contamination. Priority will be given to those meeting the State Cost Share priority guidelines, and/or have the potential to impact aquifers. | Land and Water Treatment | Groundwater and Drinking Water Protection | Unused wells can act as a drain, allowing surface runoff to contaminate groundwater. Many residents in Polk County utilize groundwater for water supply. |
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| 6 | Maintain and assess the water quality of rivers, lakes, and groundwater resources. Action: Implement the Lake Improvement Districts lake plans. Action: Implement the Watershed District plans. (pg 67) | County | 10 shoreline stabilizations/restorations | none | These projects will be surveyed, designed and constructed within the 3 year contract. | \$120,000 | \$30,000 | \$150,000 |
| 7 | Maintain and assess the water quality of rivers, lakes, and groundwater resources. Identify areas of agricultural land use, especially in those areas with sensitive ground water and surface water resources for the installation of erosion and sediment control practices to reduce sedimentation into rivers, lakes, and wetlands with priority given to land with a Land Management Plan. Action: Provide financial support to seal priority wells. Priority will be given to those meeting the State Cost Share priority guidelines, and/or have the potential to impact aquifers. (Pg 66-67) | County | 20 wells sealed | none | Initial contact leading to planning. Assemble resource data pertaining to planning area. Identify resource problems, opportunities, and concerns. Determine client objectives. Inventory resources. Analyze resource data. Formulate and evaluate alternatives. Plan implementation and evaluation. | \$20,000 | \$10,000 | \$30,000 |

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| 8 | Ditch Systems in East Polk County | Surface Water | Unknown | Sedimentation and ditch bank erosion on drainage systems in East Polk County. | County-Wide | | | Assess adequacy of the drainage infrastructure, Identify area's where the installation of BMP's is needed. Assess condition of outlets in areas where tiling is increasing. | Planning and Environmental Controls | Conservation Drainage | The Red Lake Watershed District has identified ditches outletting into natural streams, filling outlet streams with sediment and ditch bank sloughing and stabilization as a high priority natural resources enhancement issue. Erosion is a serious water quality issue throughout the SHRWD's rivers and tributaries. |
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| 9 | Invasive Species | CWMA | Unknown | Noxious and invasive plant species are having a negative economic impact to federal, state, county, local government and private lands in Polk County and across northwest Minnesota. | County-Wide | | | Develop cost share program to reduce the presence of invasive species in Polk County. Focus on controlling invasive species by reduction and elimination of targeted species. | Land and Water Treatment | Vegetation Management | Invasive species threaten native plants, animals and ecosystems. They can cause economic or environmental harm. Invasive plant species are displacing native plant communities throughout Polk County and are resulting in increasing financial management issues for all interested parties and the general public. |
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| 8 | Ensure that county, township, watershed and private ditch systems adequately address the drainage needed to support agriculture without negatively impacting water quality and other natural resources, as well as economic impacts to the infrastructure of Polk County. (pg 83) | County | 20 miles | none | Initial contact leading to planning. Assemble resource data pertaining to planning area. Identify resource problems, opportunities, and concerns. Determine client objectives. Inventory resources. Analyze resource data. Formulate and evaluate alternatives. Plan implementation and evaluation. | \$20,000 | \$5,000 | \$25,000 |
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| 9 | Control terrestrial invasive species by prevention, reduction and elimination. Continue support of the Polk County Cooperative Weed Management Area. (Pg 75) | County | Invasive species removal activities | none | Initial contact leading to planning. Assemble resource data pertaining to planning area. Identify resource problems, opportunities, and concerns. Determine client objectives. Inventory resources. Analyze resource data. Formulate and evaluate alternatives. Plan implementation and evaluation. | \$30,000 | \$7,500 | \$37,500 |
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