

PROJECT BRIEF:

HINZE CATTLE EXCLUSION



PROJECT LEAD:



PRIORITY WATER BODY SERVED:

Rock Lake (Pine County)

PROJECT LOCATION:

near Pine City, MN

POLLUTANT REDUCTION:

- ~1.9 tons per year of sediment
- ~3.5 lbs of phosphorus per year

PROJECT COST

\$5,385 (\$4,580 from LSC WBIF funding)

LIFETIME COST-BENEFIT (\$/LB PHOSPHORUS REMOVED)

Approximately \$29 per lb (20 year project lifespan estimate)



PROJECT SUMMARY

In Fall 2021, the Pine Soil and Water Conservation District requested WBIF funding to partner with a local farmer near Pine City, MN to install new access control fencing to keep cattle out of Rock Lake. Rock Lake is listed as impaired for excess nutrients, and this project will prevent approximately 1.9 tons of sediment and 3.5 lbs of phosphorus per year from entering the lake and downstream Rock Creek.

A 50-ft wide buffer strip between the shoreline and new fencing was also planted with a NRCS native plant pollinator seed mix to help stabilize the shoreline, capture runoff from upland fields, and provide habitat for pollinators and other wildlife.

PROJECT CONSERVATION BENEFITS

CLEAN WATER



Pollutant reduction will improve water quality and prevent algal growth.

EROSION CONTROL



Removing cattle and planting native plant buffer strip will stabilize the shoreline, reduce runoff, and prevent erosion.

BUILDING HABITAT



Planting the native plant buffer strip will provide food and habitat for pollinators and other wildlife.