

PROGRESS REPORT #1
PERIOD 6/24/19 – 7/20/19
LAKE SHAMINEAU HIGH WATER PROJECT STEP 2

SUMMARY OF PERIOD ACTIVITIES: Coordinated surveying of gravel pit and Stanchfield Dam for infiltration basin design. Met with gravel pit property owner to discuss design and easement for the infiltration basins. Met with property owner to the north of the gravel pits to discuss infiltration basin design and view his road and culvert. Completed site reconnaissance of three outlet alternatives. Completed surveying and sounding of lake bottom at the northeast end of the lake. Completed preliminary design layouts for three alternative routes and prepared detailed costs for comparison. Attended information meeting to discuss preliminary design and design steps that will be completed. Obtained permit information on other DNR-approved lake pump out systems. Researched precipitation information for outlet design volumes. Prepared easement letter for one of the gravel pit infiltration basins. Attended two Technical Evaluation Panel meetings to discuss wetland and groundwater design issues with DNR, Corps of Engineers, Morrison SWCD, BWSR, and Morrison County staff. Prepared easement letter for inlet structure location. Worked on groundwater modeling of infiltration basins to evaluate designs and impact on groundwater levels. Mobilized to the site to obtain water levels in the observation wells and wetlands. Toured the Little McDonald and Devils Lake project facilities and discussed design and operation issues with Jim Figg, President of the Little McDonald, Krebs, and Paul Lake Improvement District Board. Prepared preliminary design work for selected outlet alternative alignment. Working on grading plan for infiltration basins. Discussed design information with property owner along discharge pipe route.

SUMMARY OF PAST ACTIVITIES: _____

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COSTS INCURRED FOR THIS PERIOD: \$28,036.75 **DUE THIS PERIOD:** \$28,036.75

TOTAL BILLINGS TO DATE: \$28,036.75 **ADDITIONAL CONTRACTED COSTS:** \$101,963.25

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KEY INFORMATION OBTAINED: Found that Cantleberry Bay is deep enough for the inlet pipe in addition to other areas along the east shore. Infiltrating 3 feet per day with raise groundwater under the basins by 8 to 10 feet and groundwater elevations along the downgradient wetlands by 2 to 2.5 feet.

ISSUES / CONCERNS: Will DNR want additional observation wells?

GOALS FOR THE NEAR FUTURE: Complete additional design for selected alternative. Prepare easement letters for the designed route. Complete groundwater modeling report for infiltration basin design. Provide additional cost and project description information to Lake Shamineau LID. Complete soil borings along selected outlet route and at the pumping station. Completed detailed design drawings of selected outlet route.

SCOPE CHANGES / VALUE ADDED TO DATE: Participated in weekly status update meetings with Cindy Kevern and Rick Rosar. Evaluated three alignment alternatives with preliminary design and cost estimates.

SCHEDULE STATUS:

- Working on Step 2
- Step 2 to be completed August 19, 2019
- Step 3 to start mid August

INPUT NEEDED FROM CLIENT OR OTHERS: None at this time.

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DATE: _____

SIGNED: _____