

GARRISON DIVERSION CONSERVANCY DISTRICT
ENGINEERING & OPERATIONS COMMITTEE

Holiday Inn
Fargo, North Dakota
July 12, 2022

A meeting of the Engineering & Operations Committee of the Garrison Diversion Conservancy District was held at the Holiday Inn, Fargo, North Dakota, on July 12, 2022. The meeting was called to order by Chairman Vein at 1:15 p.m.

DIRECTORS PRESENT

Board Chairman Alan Walter
Committee Chairman Ken Vein
Director Cliff Hanretty
Director Jim Pellman
Director Mike Tweed
Secretary Kip Kovar

OTHERS PRESENT

Staff members of the Garrison Diversion Conservancy District were present along with others. The registration sheet is attached to these minutes as Annex I.

The meeting was recorded to assist with compilation of the minutes.

READING OF THE MINUTES

Motion by Director Hanretty to dispense with a reading of the January 20, 2022, Engineering & Operations Committee minutes and approve them as distributed. Second by Director Tweed. Upon voice vote, motion carried.

MCCLUSKY CANAL REFERENCE MAP

Ryan Anderson, Engineer, Garrison Diversion, referred to the McClusky Canal map, stating this is provided as a reference for canal locations.

2022 WORK PLAN REVIEW

McClusky - - Darren Murray, Superintendent, Operations & Maintenance (O&M), Garrison Diversion, provided a review of the 2022 work activities performed by the O&M crew at McClusky and New Rockford sites, which included a slide show presentation. Regular maintenance at this time consists of mowing, rock hauling, grading and spraying.

Snake Creek Pumping Plant - - Dustin Offerdahl, Plant Supervisor, Snake Creek Pumping Plant (SCPP), updated the committee on the projects and activities at the SCPP via PowerPoint, including pumping operations, tunnel inspections, installation of fiber optic cable and safety gate, shop upgrades and plant tours.

MCCLUSKY CANAL SLIDE REPAIR

Mr. Anderson provided a PowerPoint update and shared photos of the slide repair work taking place along the McClusky Canal.

To date, approximately 6,000 loads of spoil have been hauled in 2022. This equates to 105,000 cubic yards. Just under 2.4 million cubic yards have been hauled altogether. The project is approximately 93% complete.

Mr. Anderson reported they ran out of storage area on the adjacent federal property. An agreement was recently made with an adjacent landowner, and this morning work began stripping topsoil. The O&M crew will begin placing soil at the new location later this week.

Mr. Anderson also informed the committee the installation of trenchless tunnels on the McClusky Canal is being wrapped up. Cleanup work is taking place, and the contractor, Minger Construction, will be off site soon.

The approved budget for the slide repair project is \$17.5 million. Approximately \$6.4 million has been spent through the end of June. This amount will increase significantly due to fuel prices, the new landowner agreement and the bill from Minger Construction for the tunneling.

Geotechnical Investigation Task Order - - Mr. Anderson referred to the task order with Black & Veatch for geotechnical work to be completed at the McClusky Canal. Ongoing slides have resulted in a need to conduct additional soil borings to assess the levels of perched groundwater. The cost of the task order is \$74,000.

Material Testing Services (MTS), LLC, is the subcontractor, who will perform five standard penetration borings. After all field work is complete, a report will be issued, which will include:

- Description of vibrating wire piezometer (VWP) installation work (summary of work, work methods, conditions encountered)
- Description of canal conditions during installation and initial monitoring period
- Description of soil adjacent to each VWP. Description of soil horizons encountered and any unique conditions encountered; e.g., soft zones, permeable soil horizons, etc.
- Classifications of soils encountered in VWP holes supported by laboratory testing data (Atterberg Limits, natural moisture content, particle sizes, percent passing U.S. No. 200 sieve)

Motion by Director Walter to approve the geotechnical investigation task order to complete additional soil borings at the slide repair project on the McClusky Canal at a cost of \$74,000. Second by Director Tweed. Upon roll call vote, the following directors voted aye: Hanretty, Pellman, Tweed, Vein and Walter. Those voting nay: none. Motion carried.

FIVE-YEAR WORK PLAN & BUDGET

Mr. Anderson referred to the Five-Year 2022-2026 OM&R Work Plan, which was approved by the committee at its last meeting. This lays out the O&M job duties, along with milestones and completion dates.

2022 EQUIPMENT INVENTORY

Kip Kovar, District Engineer, Garrison Diversion, referred to the 2022 O&M Master Equipment List, which is the equipment owned by Garrison Diversion.

OTHER BUSINESS

Snake Creek Embankment - - Mr. Kovar commented on the Snake Creek Embankment issue and the potential for seepage. Garrison Diversion and the Bureau of Reclamation have been working on ideas to get some sort of flow to the headworks of the McClusky Canal during a drought. Black & Veatch and AE2S have been asked to prepare a study looking at the minimum flow requirements for current and future irrigation and the RRVWSP.

The Corps of Engineers (COE) is preparing a Dam Safety Modification Study, and they have come up with some alternatives to address the embankment issue. The intention was for the COE to share a preferred alternative in July.

Mr. Kovar added, in the meantime, Garrison Diversion and Reclamation are moving forward with developing a plan together. A draft plan will be brought to this committee at its next meeting.

There being no further business to come before the committee, the chairman called for a motion to adjourn.

Motion by Director Walter to adjourn the Engineering & Operations Committee meeting. Second by Director Hanretty. Upon voice vote, motion carried.

The meeting adjourned at 2:10 p.m.

(SEAL)

Kenneth Vein, Chairman

Kip Kovar, Secretary