House Appropriations Committee - Education and Environment Division

Representative Mike Nathe, Chairman

March 9, 2023

Chairman Nathe, Members of the House Appropriations Committee- Education and Environment Division:

My name is Keith Hunke, and I am the City Administrator for the City of Bismarck.

I am providing written testimony in support of Senate Bill 2020.

Senate Bill 2020 provides the appropriation for defraying the expenses of the Department of Water Resources. Appropriations for water supply grants, discretionary funds for water projects, general water projects are included in Senate Bill 2020.

The City of Bismarck has appreciated the collaboration between the Department of Water Resources team members and City of Bismarck team members involved in preparing the 2023-2025 ND Department of Water Resources State Water Plan. Bismarck has several water utility projects included in the State Water Plan. These projects include the Ash Coulee watermain; cast iron watermain replacements including lead service lines, various valve & hydrant replacements; and the 10 million gallon per day water treatment plant expansion project.

The Bismarck Water Utility provides regional service to the University of Mary (3,800+ students & faculty), South Central Regional Water District (8,000+ users), United Tribes Technical College (900+ students & faculty), and the City of Lincoln (4,300+ population) along with service to Bismarck (22,000+ customer accounts; 74,000+ population).

Bismarck's 10 million gallon per day water treatment plant expansion project will meet peak demands through 2040.

Bismarck's cast iron watermain replacement projects are addressing health and safety issues with the removal of lead service lines and increasing fire flows in the oldest parts of Bismarck.

The Ash Coulee watermain project is necessary due to increased growth in north Bismarck.

Additional project information is attached to my testimony.

Favorable consideration and appropriation of funding for Senate Bill 2020 and Bismarck's water utility projects would be greatly appreciated.

I urge you to give SB 2020 a DO PASS recommendation.

Thank you for the opportunity to provide testimony in support of Senate Bill 2020. I am happy to stand for any questions the Committee may have.

Keith J. Hunke, City Administrator
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Bismarck
PUBLIC WORKS

City of Bismarck Public Works – Utility Operations
2023-2025 Capital Projects Overview

Bismarck has invested $40M in awarded contracts in the last three years (2020-2022) for watermain repairs, disinfecting and dewatering projects. There are several additional water utility projects, representing a tremendous amount of work and planning, that will affect our local and regional residents in the immediate future for which we are seeking state grant funding assistance.

Water Needs – $50M Grant

$43M in grant funding for the WTP Expansion Project has been submitted in the 2023-2025 ND Department of Water Resources State Water Plan. The Expansion Project will alleviate shortages experienced and increase output capacity to 40 million gallons per day. This is expected to have an overall cost of $72M with $29M being funded by City of Bismarck utility fees. The water plant provides regional service to University of Mary, South Central Regional Water District, United Tribes Technical College, and City of Lincoln. Design work is underway.

Two additional projects for $6M and $675K in grant funding are also submitted for Cast iron Watermain Replacements and an Ash Coulee Drive Watermain extension in the 2023-2025 State Water Plan. The remaining costs would be covered by Bismarck utility fees. Design work is underway.

For any additional information, please contact
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Water Treatment Plant Expansion: $72 Million

- Surface Intake Pumps
- Source Water Blending Structure
- Site Piping
- Prepare Diversion Basins and Superpulsators as Pretreatment for Membranes
- Procurement of Electrical Equipment
- Procurement of Ultrafiltration and Reverse Osmosis Membranes
- Construction of UF Break Tank, RO Break Tank and Backwash Holding Tank
- Construction of Membrane Building
- Installation of Membrane Systems and Process Piping
- Installation of Membrane Feed and Backwash Pumps
- Installation of Mechanical and Electrical in Membrane Building

HDR

0 500 Feet

BISMARCK WTP 10 MGD EXPANSION

Bismarck

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City of Bismarck 10 Million Gallon Per Day WTP Expansion

- Preliminary Design Began – November 2022
- CMAR Proposals Received – January 27, 2023
- CMAR Interviews/Selection – March 2023
- Bid Package Prep & Bid Starting – February 2024
- Ultrafiltration and Reverse Osmosis Membrane Procurement – May 2024; Estimated Cost of $8.75 Million
- Significant Project Completion – February 2026
- Final Project Completion – May 2026
- Total Estimated Project Cost = $72 Million

City of Bismarck - DWR/SWC projects

Name	Approved	Cost-Share	Balance
Bismarck Wastewater Treatment Plant Effluent Flood Control - Preconstruction	10/14/2021	$72,000	$9,176
Bismarck Wastewater Treatment Plant Effluent Flood Control - Construction	8/11/2022	$170,009	$170,009
43rd Ave Water System Expansion Phase 1	6/8/2021	$584,000	$113,110
43rd Ave Water System Expansion Phase 2	4/12/2022	$2,936,000	$259,083
Lockport Pump Station	10/8/2020	$2,955,000	$216,378
Bismarck WU137 Watermain Replacement	6/7/2022	$2,170,000	$1,766,799
Bismarck Water Treatment Plant Improvements - Filters 1-6 & Effluent Piping	8/11/2022	$2,307,000	$2,288,508
Bismarck Water Treatment Plant Expansion - PreConstruction/Design	8/1/2022	$2,794,000	$2,794,000
Tom O'Leary Water Intake Improvements (Parks & Rec)	9/2/2022	$49,600	$49,600
2023 Water Main Replacement WU140 (pending-$2,301,360 requested)			
		$14,037,609	$7,666,663