

## MINUTES

### **North Dakota State Water Commission Bismarck, North Dakota June 8, 2023**

The ND State Water Commission (Commission or SWC) held a meeting in the Lewis and Clark Room, Bank of North Dakota, 1200 Memorial Highway, Bismarck, ND, and via phone conference on June 8, 2023. Lt. Governor Miller called the meeting to order at 1:00 PM. A quorum was present. The board opened the meeting by reciting the Pledge of Allegiance.

#### **STATE WATER COMMISSION MEMBERS PRESENT:**

Lt. Governor Miller, Acting Chairman  
Thomas Bodine, Deputy Commissioner, ND Dept. of Agriculture  
Michael Anderson, Lower Red River Basin  
James Odermann, Little Missouri, Upper Heart, and Upper Cannonball River Basins  
Connie Ova, James River Basin (online)  
Gene Veeder, Upper Missouri River Basin  
Jay Volk, Lower Missouri River Basin  
Jason Zimmerman, Mouse River Basin  
April Walker, Upper Red River Basin

#### **OTHERS PRESENT:**

Dr. Andrea Travnicek, Director, ND Dept. of Water Resources (DWR) and Commission Secretary  
DWR Staff  
Jennifer Verleger, General Counsel, Attorney General's Office  
Approximately 80 people present online and in person.

### CONSIDERATION OF AGENDA

**It was moved by Commissioner Zimmerman, seconded by Commissioner Volk, and carried unanimously the agenda for the June 8, 2023, Commission meeting was approved as presented.**

### CONSIDERATION OF DRAFT MEETING MINUTES

**It was moved by Commissioner Zimmerman, seconded by Commissioner Anderson, and carried unanimously the minutes of the April 13, 2023, Commission meeting be approved as written.**

**It was moved by Commissioner Anderson, seconded by Commissioner Volk, and carried unanimously the minutes of the May 11, 2023, Pre-Commission meeting be approved as written.**

## **CERTIFICATES OF APPRECIATION**

### **In Appreciation to Jeffrey Mattern Resolution No. 2023-06-541**

**WHEREAS**, Jeffrey Mattern began his career with the North Dakota State Water Commission in 1980 and has admirably served the people of North Dakota for over 42 years in four different agency divisions as an Assistant Hydrologist; an Assistant Drainage Engineer; the Federal, Municipal, Rural, and Industrial Water Supply Program Manager; and as the Water Supply Cost-Share Program Manager; and

**WHEREAS**, Jeffrey has demonstrated that he is a strong advocate for water management and development efforts that improve the lives of North Dakotans and strengthen the state's economy; and

**WHEREAS**, Because of Jeffrey's thoughtful approach to water development efforts, hundreds of rural, regional, and municipal water supply projects have been completed across the state that serve hundreds of thousands of our citizens with clean, reliable water supplies; and

**WHEREAS**, Because of the admiration and respect of his peers, Jeffrey has earned numerous awards for his professionalism and technical expertise; and

**WHEREAS**, Jeffrey's attention to improved business processes have made the Department of Water Resources incredibly efficient, particularly in today's hybrid work environment; and

**WHEREAS**, Jeffrey is retiring from the State of North Dakota's Department of Water Resources effective June 30, 2023.

**NOW, THEREFORE, BE IT RESOLVED** that Governor Doug Burgum, other members of the North Dakota State Water Commission, and the Department of Water Resources team, assembled this 8<sup>th</sup> day of June 2023, in Bismarck, North Dakota, hereby convey their gratitude and appreciation to Jeffrey Mattern for his admirable and dedicated service to the people of the Great State of North Dakota as a team member of the Department of Water Resources; and

**BE IT FURTHER RESOLVED** that we wish Jeffrey and his wife Kim the best of health and happiness in the future.

**FOR THE NORTH DAKOTA DEPARTMENT OF WATER RESOURCES AND STATE WATER COMMISSION:**

/s/Doug Burgum, Governor-Chairman

/s/Andrea Travnicek, Ph. D., Director-Secretary

**It was moved by Commissioner Odermann, seconded by Commissioner Anderson, to approve Resolution No. 2023-06-541 for Jeffrey Mattern.**

**Commissioners Anderson, Odermann, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.**

**In Appreciation to Richard Johnson  
Resolution No. 2023-06-542**

**WHEREAS**, Richard Johnson was appointed to the State Water Commission on August 10, 2017, by Governor Doug Burgum to represent the Devils Lake Basin and admirably served the people of North Dakota in his role as a Water Commissioner for more than five years; and

**WHEREAS**, Richard demonstrated a strong commitment to the people of the Devils Lake Basin and all areas of the state through his dedication to sound water management and sustainable water development; and

**WHEREAS**, Because of Richard's exceptional knowledge of the Devils Lake Basin, and because of his service as a Devils Lake City Commissioner and Mayor where he was directly involved in that region's decade long flood fight, he was uniquely experienced to approach water management challenges during his time with the State Water Commission; and

**WHEREAS**, Because of Richard's commitment of time, energy, and talent as a member of the State Water Commission, he is well-respected and admired in the water community; and

**WHEREAS**, Richard was selected by his peers to serve as Vice-Chairman of the State Water Commission because of his leadership; and

**WHEREAS**, Richard's expertise and guidance as a valued member of the State Water Commission will continue to enhance the lives of people in North Dakota for generations to come.

**NOW, THEREFORE, BE IT RESOLVED** that Governor Doug Burgum, other members of the North Dakota State Water Commission, and the Department of Water Resources team, assembled this 8<sup>th</sup> day of June 2023, in Bismarck, North Dakota, hereby convey their gratitude and appreciation to Richard Johnson for his admirable and dedicated service to the people of the Great State of North Dakota as a State Water Commissioner; and

**BE IT FURTHER RESOLVED** that we wish Richard and his wife Jackie the best of health and happiness in the future.

**FOR THE NORTH DAKOTA DEPARTMENT OF WATER RESOURCES AND STATE WATER COMMISSION:**

/s/Doug Burgum, Governor-Chairman

/s/Andrea Travnicek, Ph.D., Director-Secretary

**It was moved by Commissioner Zimmerman, seconded by Commissioner Walker, to approve Resolution No. 2023-06-542 for Richard Johnson.**

**Commissioners Anderson, Odermann, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.**

**COMMISSION SECRETARY UPDATE**

Andrea Travnicek, Ph. D., Secretary, updated the Commission on HB 1218, stating the meeting for the NAWS Advisory Board was held last Friday and are hoping to have the names selected for the NAWS Advisory Board by August. Travnicek gave a short update on Devils Lake and the outlets. She thanked Lt. Governor Miller for coming out to Devils Lake along with other local leaders. Travnicek added her team is working on a draft for the Commission on the SWC ethics guidance and responsibilities and more discussion will take place at the July pre-commission meeting.

## **FINANCIAL REPORT**

The Glossary of Terms, allocated program expenditures, and financial reports were presented by Chris Kadrmaz, DWR Administration Division Director (**APPENDIX A**).

The oil extraction tax deposits into the Resources Trust Fund (RTF) total \$464,548,837 estimated through May 2023, which is \$169,326,520 over projected biennium revenue of \$299,422,317. Funds available above projection will be transferred to the Water Project Stabilization Fund (WPSF). \$151,784,727 was transferred to the WPSF and all transfers were complete by March 2023. All transfers to the WPSF sunset February 28, 2023. Excess revenues deposited after February 28, 2023, remain in the RTF.

Commissioner Odermann questioned the projected potential shortfall as shown on the 2021-2023 Purpose Funding diagram. Odermann asked how it is rectified in the budget. Kadrmaz stated that is something the Commission would have to take into consideration when approving projects but in this case, they have the 2023-2025 funding they could utilize, if necessary, specifically because the emergency clause was passed.

## **COST-SHARE POLICY**

### **Irrigation Cost-Share**

Patrick Fridgen, DWR Planning and Education Division Director, discussed a letter from the North Dakota Irrigation Association (NDIA) requesting the SWC consider modifications to existing cost-share policies concerning irrigation development (**APPENDIX B**). Currently, DWR provides financial support in two (2) ways. First, irrigation districts or other eligible sponsors can receive 50 percent state cost-share for off-farm central supply works. Second, the Commission has provided funding in support of the BND's Ag PACE (Partnership in Assisting Community Expansion) program. The BND Ag PACE program provides interest rate buydown on loans to producers investing in on-farm works of up to four (4) percent with a cap of \$40,000 (with \$20,000 each from BND and DWR).

The NDIA's current request is for two (2) modifications; first an increase of the Water Commission's Cost-Share Program policy percentage from 50 percent to as much as 75 percent and BND's Ag PACE buydown cap be raised from \$40,000 to \$100,000. The NDIA request is in response to increased capital costs for irrigation equipment, and as an effort to identify ways to support further irrigation development, which will put additional water to beneficial use.

After discussion, the following motion was made:

**It was moved by Commissioner Zimmerman and seconded by Commissioner Anderson the Commission provide a 14-day comment period on the proposed irrigation development cost-share percentage increase above 50 percent and to direct staff to work with BND on alternative interest buydown options for irrigation development.**

**Commissioners Anderson, Odermann, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.**

### **Rural Farmstead Ring Dike Criteria (HB 1076)**

Fridgen discussed current criteria in place to guide construction efforts within Appendix A (**APPENDIX C**) of the SWC Cost-Share Program policy for individual rural and farmstead ring dikes, stating a DWR dike permit is only required for farmstead ring dikes if the interior volume of the dike consists of 50-acre-feet or more. HB 1076 was passed during the 2023 Legislative Assembly and has been signed into law. It now requires a DWR dike permit for any dike capable of protecting an occupied residence or structure or public infrastructure and it no longer requires a professional engineer to design farmstead dike rings. Fridgen explained Appendix A of the Cost-Share Program policy needs to be updated to reflect the statutory change.

**It was moved by Commissioner Walker and seconded by Commissioner Anderson the State Water Commission update Appendix A of the Cost-Share Policy, Procedure, and General Requirements as attached to address new statutory requirements as provided for in HB 1076 with an effective date of August 1, 2023.**

**Commissioners Anderson, Odermann, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.**

### **WATER SUPPLY PROJECT PRIORITIZATION WITH DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) RANKING**

Fridgen presented the Commission a matrix (**APPENDIX D**) separated out by municipal and rural water supply projects. Projects are ranked using the Commission's Prioritization Guidance as high, moderate, and low and then by utilizing DEQ's priority ranking system for the Drinking Water State Revolving Fund (DWSRF). The DEQ rankings are secondary to the priorities established by the Commission's Water Project Prioritization Guidance but provide the Commission with a mechanism to rank projects numerically if needed for decision making. Fridgen added when the Commission begins to utilize 2023-2025 biennium funding, these rankings will be available as an additional reference for project considerations and approvals.

### **BASIC ASSET INVENTORIES & CAPITAL IMPROVEMENT PLANNING UPDATE**

Duane Pool, DWR Economist, provided an update to the Commission on basic asset inventories and capital improvement planning that will provide consistency on the new requirements for the SWC Cost-Share Program. Pool stated the newly modified and approved Cost-Share Program policy will require water supply project sponsors to submit asset inventories, capital improvement plans, and demonstration of sustainable capital improvement funds. Initially the goal was to provide a guidance document and fillable model for Commission consideration at the June meeting. However, due to staff time commitments related to processing the large number of cost-share applications for the June meeting, and other unforeseen demands, the target timeframe is now August. Staff will continue to have discussions with the working group on the guidance and fillable model options that will meet SWC needs and requirements.

## **NORTHWEST AREA WATER SUPPLY (NAWS)**

### **Contract 2-1E – Snake Creek Pumping Plant Discharge Pipeline – Construction Contract Award \$6,584,763**

Tim Freije, NAWS Project Manager, provided an update on the Snake Creek Pumping Plant Discharge Pipeline Contract 2-1E. The bid opening was held on June 6, 2023. The following bid was received: Michels Construction - \$6,584,763. The engineer's estimate was \$4,700,000.

The bid tabulation and engineer's review letter are attached as **APPENDIX E**. The recommendation was to award the construction contract as outlined in Appendix E for \$6,584,763. Funding for the state share of this contract will be from the federal Municipal, Rural, and Industrial (MR&I) water supply funding allocated to NAWS at the December 2022 State Water Commission meeting. The estimated state funding needed for the award of the contract is \$4.5 million, which is 65 percent of the total bid cost including five (5) percent contingency.

**It was moved by Commissioner Zimmerman and seconded by Commissioner Walker the Commission award NAWS Contract 2-1E Snake Creek Pumping Plant Discharge Pipeline to Michels Construction in the amount of \$6,584,763 pending review of the bidding documents and concurrence from Garrison Diversion Conservancy District and the Bureau of Reclamation with the State Water Commission allocating \$4.5 million from the approved federal Municipal, Rural, and Industrial supply funding.**

**Commissioners Anderson, Odermann, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.**

## **SOUTHWEST PIPELINE PROJECT (SWPP)**

### **Contract 3-2F – Membrane Equipment Procurement for Southwest Water Treatment Plant Expansion – Award \$6,286,090.34**

Sindhuja S. Pillai-Grinolds, DWR Water Development Division Director, explained SWPP Contract 3-2F is for procuring the membrane filtration systems needed for the 12 Million Gallons per Day (MGD) expansion of the Southwest Water Treatment Plant (SWTP) located in Dickinson. The scope of the contract includes design phase services to be completed during the final design of the expansion of the SWTP, furnishing two (2) 6 MGD primary filtration train along with two (2) secondary backwash recovery systems, ancillary systems to support membrane operations, and construction phase services as required by the contract documents.

The sealed proposals were opened and evaluated on May 25, 2023. Four proposals were received from three bidders. Bid Alternate 1 is for extended 12-month warranty on all equipment in addition to the 24-month warranty specified on the contract.

**It was moved by Commissioner Zimmerman and seconded by Commissioner Anderson the Commission authorize the Secretary to award SWPP Contract 3-2F—Southwest Water Treatment Plant Expansion Membrane Equipment Procurement to Westech Engineering, LLC including Bid Alternate 1 in the amount of \$6,286,090.34. The award of the contract is dependent on the satisfactory completion and submission of the Procurement Contract Documents by Westech Engineering, LLC including registration with the North Dakota Secretary of State and the North Dakota Office of Management**

and Budget, and legal review of the documents. Also, the Commission approve \$6.9 million to the Southwest Pipeline Project from the capital assets funds appropriated for the 2021-2023 biennium.

Commissioners Anderson, Odermann, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.

**Contract 3-2G – Softening Equipment Procurement for Southwest Water Treatment Plant Expansion – Award \$1,899,956**

S. Pillai-Grinolds stated SWPP Contract 3-2G is for procuring the softening equipment systems needed for the 12 MGD expansion of the SWTP located in Dickinson. The scope of the contract includes design phase services to be completed during the final design of the expansion of the SWTP, furnishing two (2) 6.5 MGD high rate softening clarifiers, ancillary equipment, and construction phase services as required by the contract documents.

The sealed proposal was opened and evaluated on May 25, 2023. Bid Alternate 1 is for extended 12-month warranty on all equipment in addition to the 24-month warranty specified on the contract.

**It was moved by Commissioner Walker and seconded by Commissioner Anderson the Commission authorize the Secretary to award SWPP Contract 3-2G—Southwest Water Treatment Plant Expansion High-Rate Clarifier Systems Equipment Procurement to Westech Engineering, LLC including Bid Alternate 1 in the amount of \$1,899,956. The award of the contract is dependent on the satisfactory completion and submission of the Procurement Contract Documents by Westech Engineering, LLC including registration with the North Dakota Secretary of State and the North Dakota Office of Management and Budget, and legal review of the documents. Also, the Commission approve \$2.1 million to the Southwest Pipeline Project from the capital assets funds appropriated for the 2021-2023 biennium.**

Commissioners Anderson, Odermann, Ova, Veeder, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.

**CONSENT AGENDA**

The Consent Agenda included the following cost-share projects with requested funding amounts for approval:

**General Water**

- L1. Red River Basin Commission: 2023-25 Biennium Flood Solutions - \$300,000
- L2. DWR: Artificial Aquifer Recharge Opportunities Analysis - \$148,432
- L3. DWR/USGS Cooperative Monitoring Program FY2024 - \$521,440

**Water Supply (Municipal/Regional)**

- M1. Napoleon: Water System Improvements 2023 - \$163,400
- M2. Bismarck: Water Main Rehabilitation (Water Utility 142) - \$842,000
- M3. Mapleton: Water Main Improvements District 2023-1 - \$441,500

- M4. Ray: Surge Tank - \$257,600
- M5. Tioga: 3<sup>rd</sup> Street NW & North Hanson Street - \$419,700

**Water Supply (Rural)**

- N1. North Prairie RWD: Minot to Velva Highway 52 - \$306,900

There were no questions, and the following motion was made:

**It was moved by Commissioner Zimmerman and seconded by Commissioner Veeder the Commission approve the Consent Agenda items as presented.**

**Commissioner Walker voted aye on the consent agenda, abstaining from L1. Red River Basin Commission due to Barr Engineering having an open contract with them.**

**Commissioners Anderson, Odermann, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.**

**STATE COST-SHARE REQUESTS**

**FLOOD CONTROL**

Julie Prescott, DWR Cost-Share Program Manager, presented the following requests for flood control projects.

**Mapleton: Flood Protection Lift Station - \$0  
(SWC Project No. 1271)**

The City of Mapleton is requesting cost-share for construction costs associated with improvements to their 2<sup>nd</sup> Street lift station, which is part of the city's permanent flood control levee system and is located along the Maple River on the west side of the city. The lift station is one component of an overall effort by the city to upgrade its water supply, street, sanitary sewer, and stormwater facilities. The project will include increasing pumping capacity, installing automated controls and a new slide gate, and repairs to a leaking force main.

Prescott noted by the nature of the project it is eligible for cost-share consideration. However, the economic analysis performed for the project returned a benefit-to-cost ratio of zero (0) because the area that is inundated with water does not affect any structures or assets of value. Therefore, the project is eligible for a modified cost-share of 0%.

There were no questions, and the following motion was made:

**It was moved by Commissioner Anderson and seconded by Commissioner Zimmerman the Commission not approve funding for state cost participation in the City of Mapleton's Flood Protection Lift Station project based on the benefit-to-cost ratio of zero (0), resulting in a modified cost-share of 0%.**

**Commissioners Anderson, Odermann, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.**



**Richland-Sargent Joint Water Resource District: Drain No. 1 Improvements Ph. 3 - \$975,812 (SWC Project No. 1978)**

The Richland-Sargent Joint Water Resource District is requesting cost-share for their Richland-Sargent Drain 1 Improvements Phase 3 construction. The project is improvements to approximately 4.5 miles of Richland-Sargent Drain 1, and will include establishing a new grade line, flattening side slopes, and replacement of three (3) road crossings. The purpose of the project is to reduce flooding of agricultural land.

This project meets the requirements of the Water Commission's cost-share policy for flood control projects. There were no questions, and the following motion was made:

**It was moved by Commissioner Volk and seconded by Commissioner Bodine the Commission approve the request from the Richland-Sargent Joint Water Resource District for state cost-share participation in the Richland-Sargent Drain 1 Phase 3 Improvement – Construction project at 45 percent of eligible costs, not to exceed \$975,812. This approval is contingent on available funding.**

**Commissioners Anderson, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. Commissioner Odermann voted nay. The motion carried.**

**WATER SUPPLY (MUNICIPAL/REGIONAL)**

Jeffrey Mattern, DWR Engineer Manager, presented the requests for municipal and regional water supply projects.

**Napoleon: Water Meter Replacement - \$0 (SWC Project No. 2050NAP)**

The City of Napoleon is requesting a change in scope to the Water Tower Replacement project to include adding the replacement of water meters within the city. The existing meters are over 50 years old and are outdated. Napoleon is requesting the use of the anticipated cost-share balance of \$85,000 on this project towards the water meter costs. The Water Tower Replacement project also received a USDA Rural Development Grant in the amount of \$776,000 and will use the anticipated balance of \$90,000 towards the water meter costs. Any cost above the anticipated balances from the cost-share and USDA grant, the city will fund. The meters will be added to an existing construction contract.

This project meets requirements of the Water Commission's cost-share policy for municipal water supply projects. There were no questions, and the following motion was made:

**It was moved by Commissioner Walker and seconded by Commissioner Odermann the Commission approve the request to add water meters to the City of Napoleon's existing water tower replacement project scope of work with the state cost-share participation at 60 percent of eligible costs, and no additional funding. The total state cost-share will not exceed \$1,794,000. This approval is contingent on available funding.**

**Commissioners Anderson, Odermann, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.**

**Fargo: Regional Water System Distribution Extensions - \$4,414,000  
(SWC Project No. 2050FAR)**

The City of Fargo is requesting construction cost-share to install approximately 21,800 feet of 12-inch water main north and 1,700 feet of 36-inch water main south of the city. The north side connection will provide additional capacity for future Cass Rural Water District (CRWD) users and will loop the system in the north to provide for redundancy. The south side is for pump station improvements and an additional bulk service connection to CRWD for service to new users and users in the Horace area.

This project meets requirements of the Water Commission's cost-share policy for municipal water supply projects. There were no questions, and the following motion was made:

**It was moved by Commissioner Anderson and seconded by Commissioner Walker the Commission approve the request from the City of Fargo for state cost-share participation at 60 percent of eligible costs for Regional Water System Distribution Extensions project for an additional \$4,414,000, with the total amount not to exceed \$4,586,000. This approval is contingent on available funding.**

**Commissioners Anderson, Odermann, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.**

**Ashley: Water Tower Improvements - \$36,000  
(SWC Project No. 2050ASH)**

The City of Ashley is requesting preconstruction cost-share for the replacement of the city's existing 65,000-gallon elevated storage tank with a 300,000-gallon elevated storage tank. The city has 300,000-gallons of in-ground storage that is in good condition with pumps sufficiently sized for domestic peak daily needs of twice the daily use of 120,000 gallons. The project includes demolition of the treatment plant, water tower, and ground storage reservoir. A separate project with South Central Regional Water District to bring bulk service to the City of Ashley with a planned completion date of Fall 2025 would require the city to have storage. Under current policy, the project is cost-shared only to meet peak demand storage requirements of 240,000-gallons (twice daily use), which is 80 percent of the requested 300,000-gallons. This results in 80 percent of the maximum 60 percent, or 48 percent cost-share.

Jerod Klabunde, Moore Engineering, and Erich Schock, City of Ashley Mayor, gave the Commission an overview of the project. After discussion, the following motion was made:

**It was moved by Commissioner Veeder and seconded by Commissioner Bodine the Commission approve the request from the City of Ashley for state cost-share participation at 48 percent of eligible costs for the Water Tower Replacement project with a total amount not to exceed \$36,000. This approval is contingent on available funding.**

**Commissioners Anderson, Odermann, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.**

#### **WATER SUPPLY (RURAL)**

Mattern presented the requests for the rural water supply projects.

#### **South Central Regional Water District: Service to Ashley - \$338,250 (SWC Project No. 2050SOU)**

South Central Regional Water District is requesting cost-share for preconstruction costs to upgrade the district's system to serve the City of Ashley and improve the district's system capacity within McIntosh, Emmons, and Logan counties. A parallel 31,000-foot of 10-inch polyvinyl chloride (PVC) water main will be installed east of the Jacob Butte Tank, east of Linton. The project will also include upgrades to the existing McIntosh booster station, a second McIntosh ground storage tank, a new booster station northwest of Ashley, and a parallel 65,600-foot of 6-inch PVC water main west of the Ashley. The City of Ashley will abandon their wells and existing water treatment plant with completion of this project.

This project meets requirements of the Water Commission's cost-share policy for rural water supply projects. There were no questions, and the following motion was made:

**It was moved by Commissioner Zimmerman and seconded by Commissioner Odermann the Commission approve the request from South Central Regional Water District for state cost-share participation at 75 percent of eligible costs for the Service to Ashley project, with total cost-share not to exceed \$338,250. This approval is contingent on available funding.**

**Commissioners Anderson, Odermann, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.**

#### **Northeast Regional Water District: Wellfield and Water Treatment Plant Expansion - \$1,145,000 (SWC Project No. 2050NOE)**

Northeast Regional Water District is requesting preconstruction cost-share for improvements to the water treatment plant and wellfield due to poor water quality and flow variability from the wells. Currently, individual wells cannot be isolated when water quality is poor. This project will update the system with new control panels and a fiber optic system. The water treatment plant will also be upgraded with a new motor control center and control panels, an automated filtration system, and automated chemical treatment system to manage the variability from the wells. The district may be eligible for 75 percent loan forgiveness from the Drinking Water State Revolving Loan Fund (DWSRLF) with the maximum rate of 90 percent federal grant limitation with funding review scheduled to be completed September 2023.

This project meets requirements of the Water Commission's cost-share policy for rural water supply projects. There were no questions, and the following motion was made:

**It was moved by Commissioner Anderson and seconded by Commissioner Volk the Commission approve the request from Northeast Regional Water District for state cost-share participation at 75 percent of eligible costs for the Wellfield and Water Treatment Plant Expansion project with total cost-share not to exceed \$1,145,000, with cost-share reduced to 15 percent or \$229,000 with confirmation of DWSRLF loan forgiveness. This approval is contingent on available funding.**

**Commissioners Anderson, Odermann, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.**

**East Central Regional Water District: Service to Galesburg - \$1,632,000  
(SWC Project No. 2050EAS)**

East Central Regional Water District is requesting cost-share for construction costs of replacing the City of Galesburg distribution lines and upgrading the Galesburg reservoir. Galesburg has been experiencing numerous water main leaks and failing valves due to the aging water system built in the 1960s. The city currently receives water from the district but will transition water users to be direct customers of the district.

Commissioner Anderson expressed his concern for the 38 smaller communities within North Dakota that haven't regionalized with a larger system stating he is fearful due to lack of planning these communities may be in distress with their water supply. Anderson suggested taking inventory on these smaller communities that may have problems with their water supply, infrastructure, aged pipes, and water mains that would create an additional expense over and above what they can take care of internally.

This project meets requirements of the Water Commission's cost-share policy for rural water supply projects. After discussion, the following motion was made:

**It was moved by Commissioner Odermann and seconded by Commissioner Walker the Commission approve the request from East Central Regional Water District for state cost-share participation at 75 percent of eligible costs for the Service to Galesburg project, for an additional \$1,632,000, with total cost-share not to exceed \$1,752,000. This approval is contingent on available funding.**

**Commissioners Odermann, Ova, Veeder, Volk, Walker, Zimmerman, and Lt. Governor Miller voted aye. As a member of East Central, Commissioner Anderson abstained. There were no nay votes. The motion carried.**

**Missouri West Water System: South Mandan Expansion Project - \$2,814,000  
(SWC Project No. 2050MIS)**

Missouri West Water System is requesting cost-share for construction costs to add 22 new users in the Lyons area west of Mandan and to install 13 miles of 4-inch water main along Highway 1806 to increase capacity in the system's southern area.

This project meets the requirements of the Water Commission's cost-share policy for rural water supply projects. There were no questions, and the following motion was made:

It was moved by Commissioner Volk and seconded by Commissioner Veeder the Commission approve the request from Missouri West Water System for state cost-share participation at 75 percent of eligible costs for the South Mandan Expansion project for an additional \$2,814,000, with total cost-share not to exceed \$2,895,000. This approval is contingent on available funding.

Commissioners Anderson, Odermann, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.

### **PROJECT UPDATES**

DWR staff provided brief updates on the following projects:

- Chris Korkowski, DWR Investigations Chief: Devils Lake Outlet, Missouri River, and Mouse River.
- Tim Freije, NAWS Project Manager, NAWS.
- Sindhuja S. Pillai-Grinolds, DWR Water Development Division Director, SWPP.

### **LEGAL UPDATE**

Jennifer Verleger, General Counsel, Attorney General's Office, provided a brief update on current legal matters involving the SWC and DWR.

### **EXECUTIVE SESSION UNDER AUTHORITY OF NDCC § 44-04-19.1(9) FOR ATTORNEY CLIENT CONSULTATION REGARDING SWPP - INTAKE. CONTRACT 1-2A**

It was the recommendation of Lt. Governor Miller that the discussion relating to the SWPP/Fowler Intake to be held in Executive Session, under the provisions of NDCC § 44-04-19.1(9), for the purpose of attorney consultation. The Commission invited the following to participate in the Executive Session:

#### **STATE WATER COMMISSION MEMBERS PRESENT:**

Lt. Governor Miller, Acting Chairman  
Michael Anderson, Lower Red River Basin  
James Odermann, Little Missouri, Upper Heart, and Upper Cannonball River Basins  
Connie Ova, James River Basin (via phone)  
Gene Veeder, Upper Missouri River Basin  
Jay Volk, Lower Missouri River Basin  
April Walker, Upper Red River Basin  
Jason Zimmerman, Mouse River Basin

**OTHERS PRESENT:**

Andrea Travnicek, Ph.D., DWR Director  
Jennifer Verleger, General Counsel, Attorney General's Office  
Sindhuja S.Pillai-Grinolds, DWR Water Development Division Director  
Abby Ebach, DWR Policy Advisor  
Chris Kadrmas, DWR Administrative Services Director  
Shana Brost, DWR Executive Assistant  
Ben Gehrig, DWR Data & Technology Services  
John Reiten, Policy Advisor, Governor's Office

**It was moved by Commissioner Zimmerman and seconded by Commissioner Walker that under the provision of NDCC § 44-04-19.1(9), the Commission proceed into Executive Session on June 8, 2023, at 3:11 PM for the purpose of attorney consultation relating to the Southwest Pipeline Project/Fowler Intake—Contract 1-2A.**

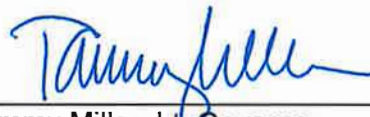
**Commissioners Anderson, Odermann, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.**

Following attorney consultation regarding the Southwest Pipeline Project/Fowler Intake, Contract 1-2A, Lt. Governor Miller reconvened the open session of the Commission meeting at 3:18 PM.

**It was moved by Commissioner Odermann and seconded by Commissioner Veeder the Commission approve \$270,000 in additional funds be allocated and approved from the SWPP's professional services account for mediation expenses.**

**Commissioners Anderson, Odermann, Ova, Veeder, Volk, Walker, Zimmerman, Bodine, and Lt. Governor Miller voted aye. There were no nay votes. The motion carried.**

There being no further business to come before the Commission, Lt. Governor Miller adjourned the June 8, 2023 meeting at 3:21 PM.



---

Tammy Miller, Lt. Governor  
Acting Chairman, State Water Commission



---

Andrea Travnicek, Ph.D.  
Director, DWR, and Secretary to the State  
Water Commission

## Glossary of Terms

**Allocated-**To apportion for a specific purpose. To set apart or earmark.

**Anticipated Construction Request-**Potential construction requests for prior approved and current projects.

**Appropriation-**Specifies the amount of funds to be used for a particular purpose during a period of time, normally one biennium.

**Original-**Legislative authorization to expend.

**Current-**Requesting authorization to allocate funds.

**Unobligated-** Funding available to be obligated to a project.

**Appropriation Authority-**Legislative authority in an Appropriation Act for an agency to expend funds.

**Appropriation Bill-**A bill which appropriations are given legal effect.

**Approved-**Funds approved and allocated by the State Water Commission.

**Beginning Balance-**Resource Trust Fund cash balance that carries over from the previous biennium. This information is provided by Legislative Council and includes carryover and funds not approved or allocate by the State Water Commission.

**Carryover Funds-**Approved funds unpaid during the current biennium which are transferred to the appropriation for the following biennium.

**Carryover Projects-**Projects approved but not finished by the end of the current biennium. The time is limited to 2 years after the end of the current biennium, 6/30/21, unless approved by the State Water Commission to continue past that date.

**Cash-**Resource Trust Fund money received and not allocated to a specific appropriation purpose.

**Cost Increase-**Funding needed above original cost estimate.

**De-Obligation-**Funds released from project allocation made from the current biennium appropriation.

**Expenditure-**Payment or funds spent.

**Obligation**-Funds allocated from current biennium appropriation to pay based on a contract.

**Unexpended**-Not yet spent or paid.

**Turnback**-Carryover funds released from prior biennium from a project allocation.

**Unobligated Carryover**-Previous biennium funding, not associated with a project released to the Resource Trust Fund.

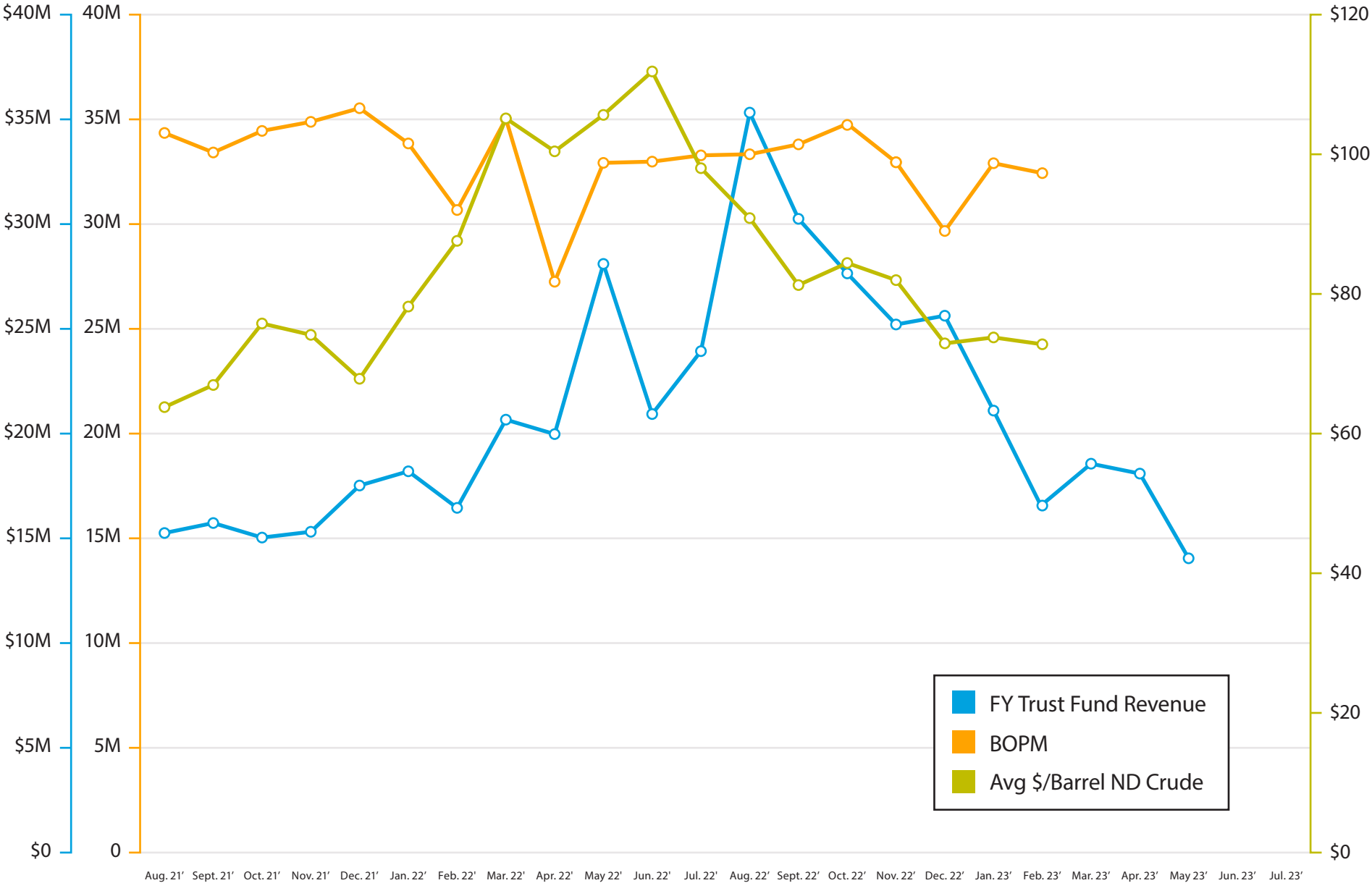
**Unpaid Approval**-A commitment to an expense at a future date.

**Water Infrastructure Revolving Loan Fund (WIRLF) Eligibility**-Approval by the State Water Commission of the eligibility of projects to apply for a Water Infrastructure Revolving Loan in compliance with cost share and statutory authority. Final loan approval is by the Bank of North Dakota.



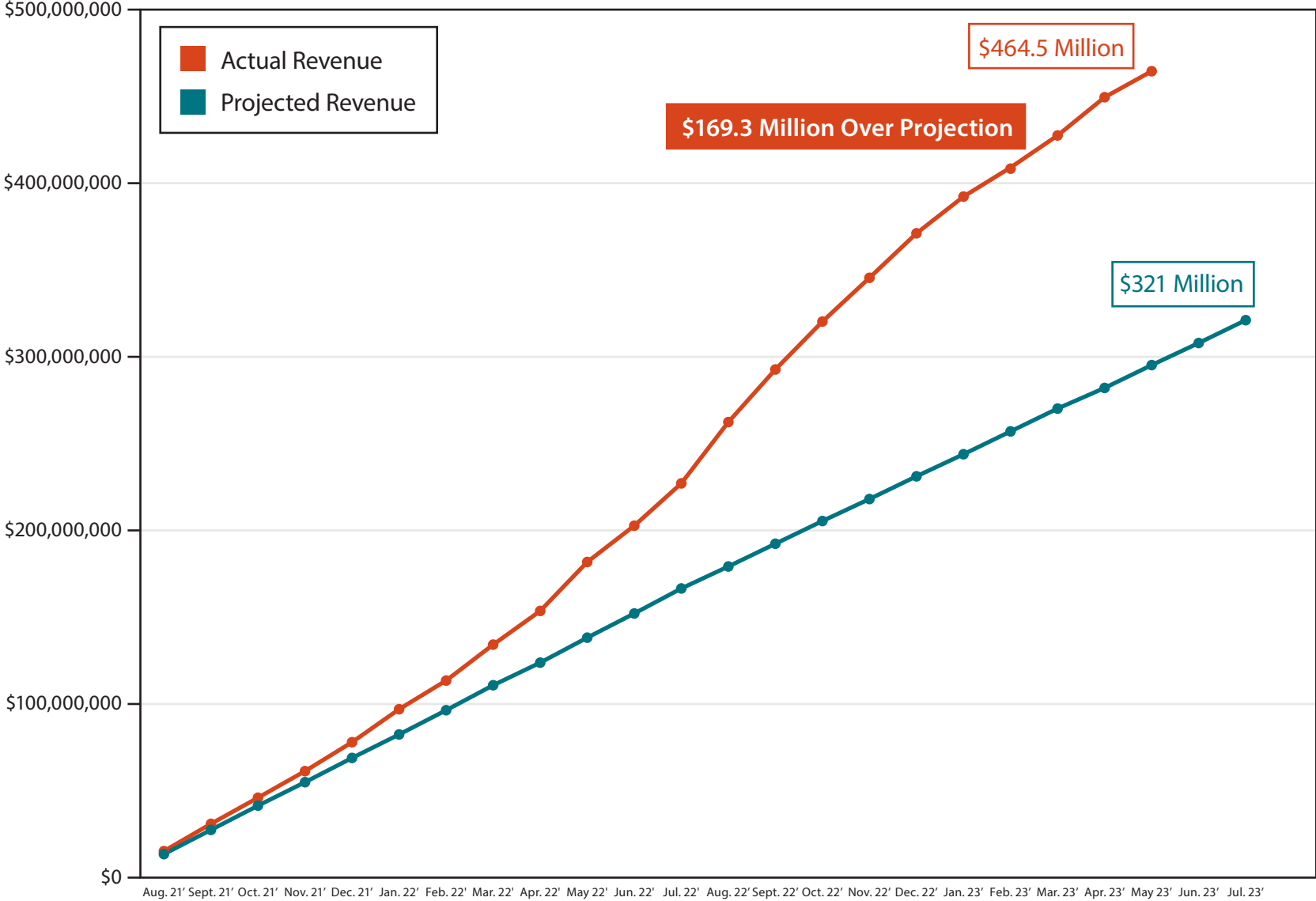
# RESOURCES TRUST FUND REVENUE

2021-2023 (Month by Month) | May 2023



# RESOURCES TRUST FUND REVENUE

2021-2023 (Cumulative) | May 2023



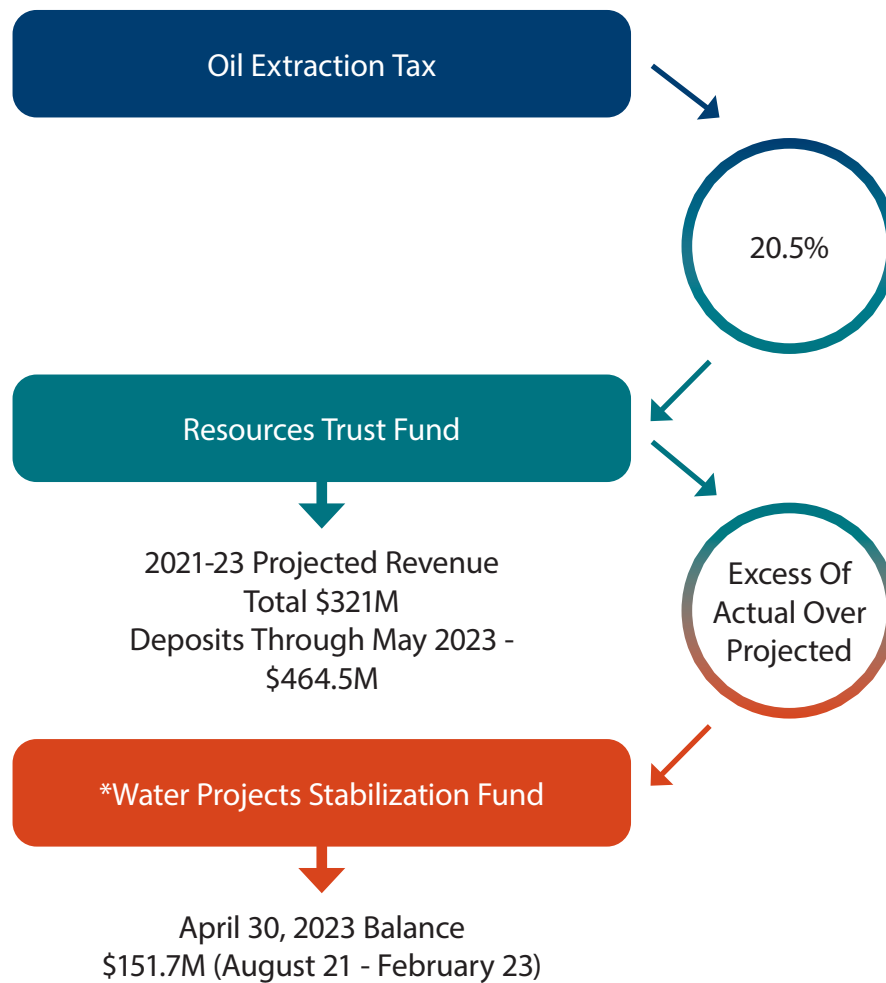
NORTH DAKOTA DEPARTMENT OF WATER RESOURCES  
OIL EXTRACTION REVENUE  
FOR THE 2021 - 2023 BIENNIUM

MONTH / YEAR	PROJECTED <sup>1</sup> REVENUE	ACTUAL <sup>1</sup> REVENUE	TRANSFERS TO <sup>2</sup> WATER PROJECTS STABILIZATION FUND
AUGUST, 2021	13,515,385	15,253,686	1,801,349
SEPTEMBER, 2021	13,965,897	15,731,071	1,829,196
OCTOBER, 2021	13,965,897	15,037,222	1,110,181
NOVEMBER, 2021	13,515,385	15,313,493	1,863,324
DECEMBER, 2021	13,965,897	17,521,266	3,684,320
JANUARY, 2022	13,515,385	18,199,333	4,836,458
FEBRUARY, 2022	13,965,897	16,454,479	2,064,733
MARCH, 2022	14,397,263	20,665,252	6,296,666
APRIL, 2022	13,006,515	19,975,435	7,003,940
MAY, 2022	14,400,070	28,099,982	13,768,756
JUNE, 2022	13,935,552	20,932,464	7,032,072
JULY, 2022	14,400,070	23,935,091	9,582,936
AUGUST, 2022	12,668,683	35,321,250	22,632,530
SEPTEMBER, 2022	13,090,973	30,252,021	17,095,264
OCTOBER, 2022	13,090,973	27,646,687	14,489,930
NOVEMBER, 2022	12,668,683	25,208,112	12,475,767
DECEMBER, 2022	13,090,973	25,626,575	12,469,810
JANUARY, 2023	12,709,026	21,098,288	8,365,943
FEBRUARY, 2023	13,156,757	16,538,309	3,381,552
MARCH, 2023	13,156,757	18,553,016	
APRIL, 2023	11,883,522	18,112,285	
MAY, 2023	13,156,757	19,073,520	
JUNE, 2023	12,732,345		
JULY 2023-JUNE REVENUE	13,156,757		
<b>TOTALS</b>	<b>321,111,419</b>	<b>464,548,837</b>	<b>151,784,727</b>
Excess revenue not transferred		11,625,022	

<sup>1</sup> Projected revenue and actual revenue exclude transfers to the renewable energy development fund and the energy conservation grant fund

<sup>2</sup> Transfers to the water project stabilization fund are calculated before transfers to the renewable energy development fund and energy conservation grant fund occur

# RESOURCES TRUST FUND REVENUE



\*Authorized in Sections 5-7 of Senate Bill 2345 during the November special session.

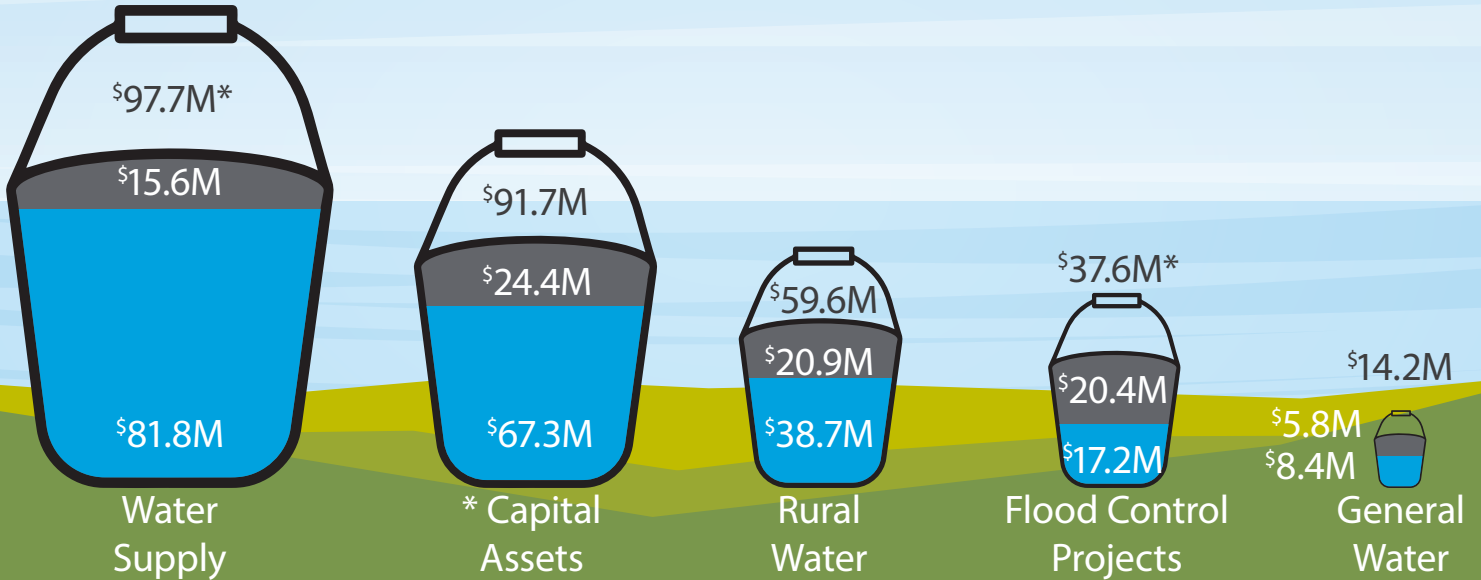
\*Budget Section approval is needed to transfer from the Water Projects Stabilization Fund to the Resources Trust Fund.

# 2021-23 PURPOSE FUNDING

May 31, 2023

APPROVED

UNOBLIGATED



\*Capital Assets bucket includes \$45.6M line of credit. | \*SB 2020 reduced 2021-23 Biennium bucket funding by \$38 Million.



Mouse River Flood

\$6M



Discretionary Funds

\$1.1M



Basin Wide Plan

\$75M

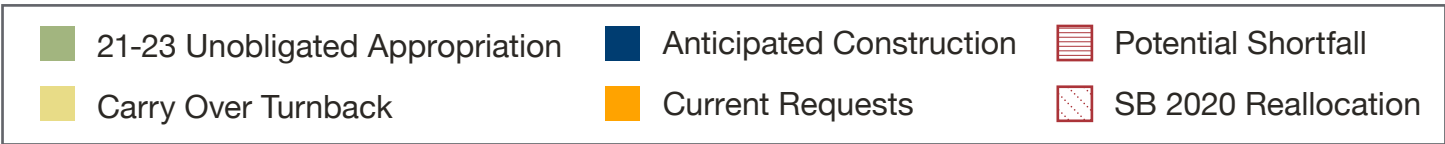
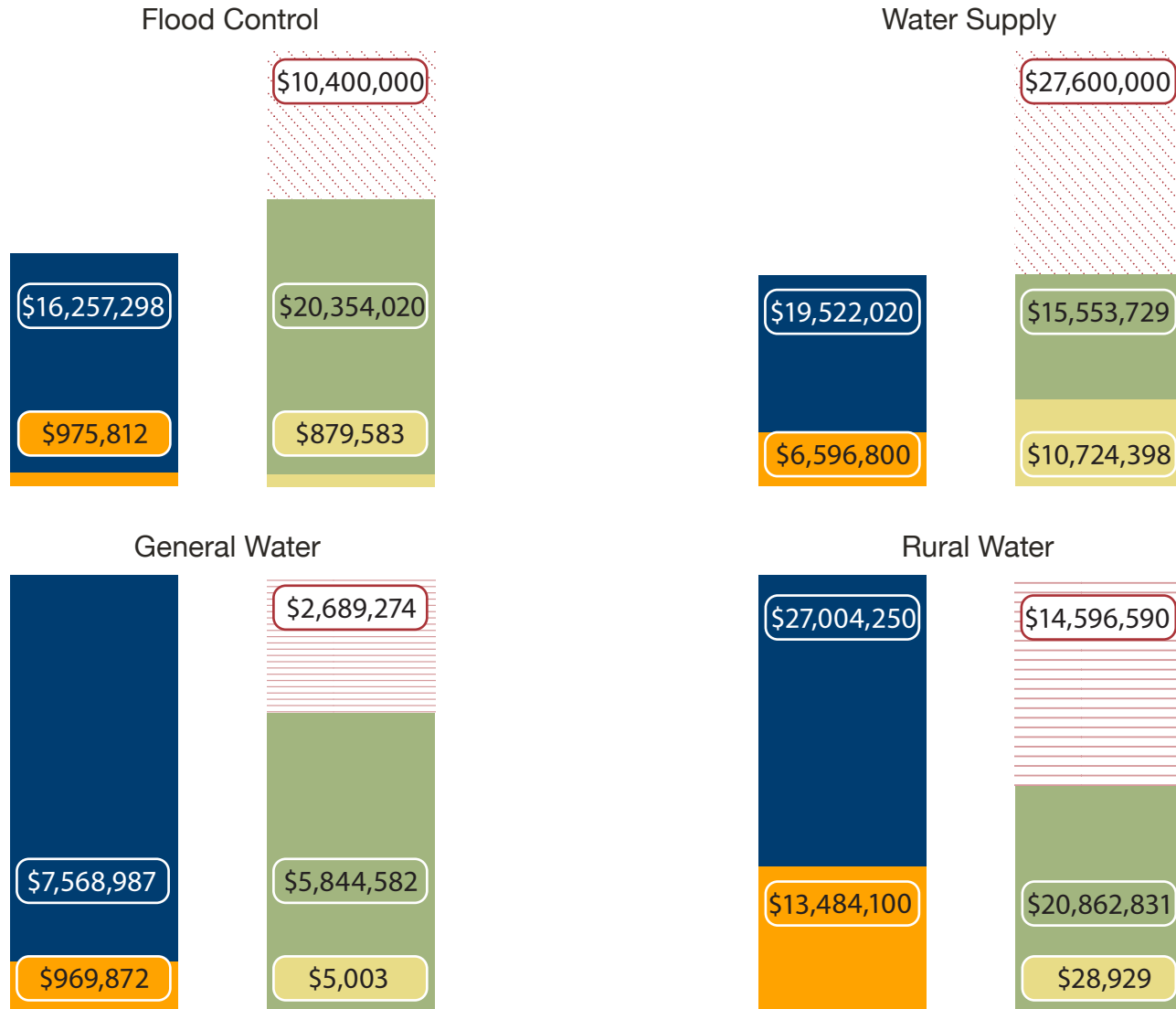


Federal Funds-State Fiscal Recovery Funds - SB 2345

Spent

# 2021-2023 PURPOSE FUNDING

Project Funds | June 2023



**PURPOSE FUNDING SUMMARY**  
**State Water Commission Cost-Share**  
**for June 8, 2023**  
*May 11, 2023*

<b>2021-2023</b> <b>Unobligated</b> <b>Appropriation</b> <b>03-31-23</b>	<b>Carryover</b> <b>Turnback</b> <b>03-31-23</b>
---	--

		Unobligated Appropriation	\$ 20,354,020	\$ 879,583
		<b>Cost-Share</b>		
Construction	1	Mapleton: Storm Sewer Lift Station	\$ -	
Construction	2	Richland-Sargent Joint WRD: Drain 1 Improvements Ph. 3 (\$975,812)	\$ 96,229	\$ 879,583
		<b>Current Requests</b>	\$ 96,229	\$ 879,583
		Anticipated Requests	\$ 16,257,298	
		Anticipated Unobligated Appropriation =	\$ 4,000,493	\$ (0)

		Unobligated Appropriation	\$ 5,844,582	\$ 5,003
		<b>Cost-Share</b>		
Other	1	Red River Basin Commission: 2023-25 Biennium Flood Solutions (\$300,000)	\$ 294,997	\$ 5,003
Other	2	DWR: Artificial Aquifer Recharge Opportunities Analysis	\$ 148,432	
Other	3	SWC/USGS Cooperative Monitoring Program FY2023	\$ 521,440	
		<b>Current Requests</b>	\$ 964,869	\$ 5,003
		Anticipated Requests	\$ 7,568,987	
		Anticipated Unobligated Appropriation =	\$ (2,689,274)	\$ (0)

		Unobligated Appropriation	\$ 15,553,729	\$ 10,724,398
		<b>Cost-Share</b>		
Preconstruction	1	Ashley: Water Tower Improvements	\$ -	\$ 45,000
Preconstruction	2	Napoleon: System Improvements	\$ -	\$ 163,400
Construction	3	Bismarck: Water Main Rehabilitation WU 142	\$ -	\$ 842,000
Construction	4	Fargo: Regional Water System Distribution Extensions	\$ -	\$ 4,427,600
Construction	5	Mapleton: Water Main Improvements District 2023-1	\$ -	\$ 441,500
Construction	6	Ray: Surge Tank	\$ -	\$ 257,600
Construction	7	Tioga: 3rd Street NW & North Hanson Street	\$ -	\$ 419,700
Other	8	Napoleon: Water Tower Replacement - Water Meters	\$ -	\$ -
		<b>Current Requests</b>	\$ -	\$ 6,596,800
		Anticipated Requests	\$ 19,522,020	
		Anticipated Unobligated Appropriation =	\$ (3,968,291)	\$ 4,127,598

		Unobligated Appropriation	\$ 20,862,831	\$ 28,929
		<b>Cost-Share</b>		
Preconstruction	1	Northeast RWD: Wellfield and Water Treatment Plant Expansion	\$ 1,145,000	
Preconstruction	2	South Central RWD: Service to Ashley	\$ 338,250	
Construction	3	Agassiz WUD: User and Transmission Expansion Ph. 2	\$ 3,214,500	
Construction	4	East Central RWD: Service to Galesburg	\$ 1,690,900	
Construction	5	McLean Sheridan WRD: Water Treatment Plant Expansion	\$ 4,354,650	
Construction	6	Missouri West Water System: South Mandan Expansion Project	\$ 2,433,900	
Cost increase	7	North Prairie WRD: Minot to Velva Highway 52	\$ 306,900	
		<b>Current Requests</b>	\$ 13,484,100	\$ -
		Anticipated Requests	\$ 27,004,250	
		Anticipated Unobligated Appropriation =	\$ (19,625,519)	\$ 28,929

		Unobligated Appropriation	\$ 3,569,441	\$ -
		<b>Cost-Share</b>		
	1			
		<b>Current Requests</b>	\$ -	\$ -
		Anticipated Requests	\$ -	
		Anticipated Unobligated Appropriation =	\$ 3,569,441	\$ -

**PURPOSE FUNDING SUMMARY**  
**State Water Commission Cost-Share**  
**for June 8, 2023**  
*May 11, 2023*

<b>2021-2023 Unobligated Appropriation 03-31-23</b>	<b>Carryover Turnback 03-31-23</b>
---	--

	Unobligated Appropriation	\$ 24,395,517	\$ -
<b>Capital Assets</b>			
	<b>SWPP</b>		<b>Cost-Share</b>
Other	1	Contract 3-2F: Membrane equipment procurement for Southwest Water Treatment Plant expansion	\$ 9,000,000
Other	2	Contract 3-2G: Softening equipment procurement for Southwest Water Treatment Plant expansion	\$ 3,000,000
		<b>Current Requests</b>	\$ 12,000,000
		Anticipated Requests	-
<b>NAWS</b>			
Construction	1	Award Contract 2-1E: Snake Creek Pumping Plant discharge pipeline (MR&I \$x,xxx,xxx)	
	2		
		<b>Current Requests</b>	\$ -
		Anticipated Requests	-
		<b>Capital Assets Current Requests</b>	\$ 12,000,000
		Anticipated Capital Assets Requests	\$ -
		Less line of credit	\$ 15,600,000
		Anticipated Unobligated Appropriation Capital Assets =	\$ (3,204,483)

	Unobligated Appropriation	\$ -	\$ -
<b>State Fiscal Recovery Funds (SFRF)</b>			
	1		
		<b>Current Requests</b>	\$ -
		Payments	\$ 75,000,000
		Anticipated Requests	\$ -
		Anticipated Unobligated Appropriation =	\$ -

	2021-2023 Unobligated Appropriation for Purpose and Capital Assets	\$ 90,580,121	\$ 11,637,912
	<b>Current Requests</b>	\$ 26,545,198	\$ 7,481,386
	Anticipated Requests	\$ 70,352,555	
	2021-2023 Anticipated Unobligated Appropriation =	\$ (6,317,632)	



**ANTICIPATED  
State Water Commission Cost-Share Requests  
May 4, 2023**

**Approved  
Pre-Construction**

<b>Flood Control</b>			
<b>Cost-Share</b>			
1	Steele County WRD: Golden Lake Complex Improvement	\$ 198,000	\$ 60,000
2	Maple River WRD: Cass County Drain 37 Improvement	\$ 583,033	\$ 12,375
3	Maple River WRD: Cornell Township Drainage Improvement District 80	\$ 380,000	\$ 31,500
4	Lower Heart WRD: Mandan/Lower Heart River Flood Risk Reduction	\$ 3,900,000	\$ 1,200,000
5	Cass County Hwy Dept.: Normanna Twp Bank Stabilization	\$ 1,139,654	\$ 25,000
6	Pembina County WRD: Drain 16 Expansion	\$ 1,125,000	\$ 112,590
7	Maple River WRD: Drain 34 Improvements	\$ 997,457	\$ 82,800
8	Neche: Neche Flood Protection System	\$ 3,478,786	\$ 355,106
9	Foster County WRD: Drain 1	\$ 405,000	\$ 54,000
10	McLean County WRD: Painted Woods Lake flood Protection Phase 2 (Anticipated Const \$1,752,000 - 23-25)	\$ 223,200	
11	City of Grand Forks: South End Interior Flood Protection	\$ 1,500,000	
12	Trall County WRD: Roseville Drain 19 Outlet	\$ 900,000	
13	North Cass WRD: Cass County Drain 26 Improvements	\$ 315,000	
14	Burleigh County WRD: Sibley Island Flood Control	\$ 1,112,168	\$ 96,420
<b>Total</b>		<b>\$ 16,257,298</b>	<b>\$ 2,029,791</b>

<b>General Water</b>			
<b>Cost-Share</b>			
1	Barnes County WRD: Valley City Little Dam Repurposing Project	\$ 756,683	\$ 102,000
2	Burleigh Co. WRD: McDowell Dam Supplemental Water Supply	\$ 587,304	\$ 45,177
3	Ward County WRD: Ward County Low Head Dams	\$ 4,500,000	\$ 588,750
4	Minot: Little Roosevelt Low Head Dam Remediation	\$ 300,000	\$ 168,750
5	Tioga: Tioga Dam Safety Improvements	\$ 1,200,000	\$ 115,800
6	Ransom County WRD: Fort Ransom Dam Rehabilitation	\$ 225,000	\$ 37,500
<b>Total</b>		<b>\$ 7,568,987</b>	<b>\$ 1,057,977</b>

<b>Water Supply</b>			
<b>Cost-Share</b>			
1	Killdeer: HWBL Water Expansion	\$ 635,000	\$ 75,000
2	Portland: 2021 Water System Improvement	\$ 484,770	\$ 97,350
3	Riverdale: Raw Water Supply & Gate Valve Improvements	\$ 2,493,200	\$ 225,000
4	Wahpeton: Well Field and Transmission Main	\$ 3,496,000	\$ 223,400
5	Williston: 1st Ave W Watermain (Hold Construction)	\$ 385,000	
6	Grand Forks: Agribusiness Park Raw Water Supply (Anticipated Const \$8,000,000 - 23-25)	\$ -	\$ 1,200,000
7	Bismarck: Water Treatment Plant Expansion (Anticipated Const \$35,000,000 - 23-25)	\$ -	\$ 2,794,000
8	Crosby: Hendrickson Holmes Improvements	\$ 1,871,000	\$ 78,000
9	Western Area Water Supply: R&T Battleview McGregor Rural Phase 1 (Anticipated Const \$?? - 23-25)	\$ -	\$ 318,750
10	Wilton: 2023 Street Improvements (Pre-const \$42,000-Sect) (Anticipated Const \$944,8000)	\$ -	\$ 42,000
11	Western Area Water Supply: NWRWD East Williston CR9 Rural Distribution (Anticipated Const \$5,946,400 23-25)	\$ -	
12	Washburn: Raw Water Intake	\$ 1,042,050	
13	Rhame: Water System Improvements 2023	\$ 624,000	\$ 77,000
14	GDGD: Red River Valley Water Supply - Contract 7 (Anticipated Const \$58,500,000 23-25)		\$ 337,500
15	Underwood: Water Tower and Water Main Replacement (Anticipated Construction \$1,963,700 23-25)	\$ 1,963,700	\$ 145,200
16	Mandan: Memorial Highway Water Main (Anticipated Construction \$5,214,000 23-25)	\$ 5,214,000	\$ 348,600
17	Napoleon: System Improvements (Anticipated Construction \$1,313,300 23-25)	\$ 1,313,300	\$ 163,400
<b>Total</b>		<b>\$ 19,522,020</b>	<b>\$ 6,125,200</b>

<b>Rural Water</b>			
<b>Cost-Share</b>			
1	Agassiz Water Users District: User Expansion Phase 2 (\$3,980,000)		\$ 266,000
2	Upper Souris Water District: 2021/2022 Improvements and Expansion	\$ 2,840,000	\$ 245,000
3	Greater Ramsey WD: North System Capacity Improvements	\$ 3,220,000	\$ 590,000
4	South Central RWD: Hawktree Tank	\$ 1,591,000	\$ 120,000
5	Stutsman RWD: Well Field Expansion	\$ 2,953,000	\$ 250,000
6	All Seasons RWD: Rolla Area Booster	\$ 651,000	\$ 26,000
7	Northeast RWD: Wellfield and WTP Expansion (Anticipated Construction \$8,600,000 23-25)	\$ 8,600,000	\$ 1,144,800
8	South Central RWD: Service to Ashley (Anticipated Construction \$7,149,250 23-25)	\$ 7,149,250	\$ 338,250
<b>Total</b>		<b>\$ 27,004,250</b>	<b>\$ 2,980,050</b>

**ANTICIPATED  
State Water Commission Cost-Share Requests  
May 4, 2023**

**Anticipated      Approved  
Pre-Construction**

<b>Discretionary</b>		<b>Cost-Share</b>	
1		\$	-
2			
3			
<b>Total</b>		\$	-

<b>Capital Assets (SWPP)</b>		<b>Cost-Share</b>	
1			
2			
3			
<b>Total</b>		\$	-

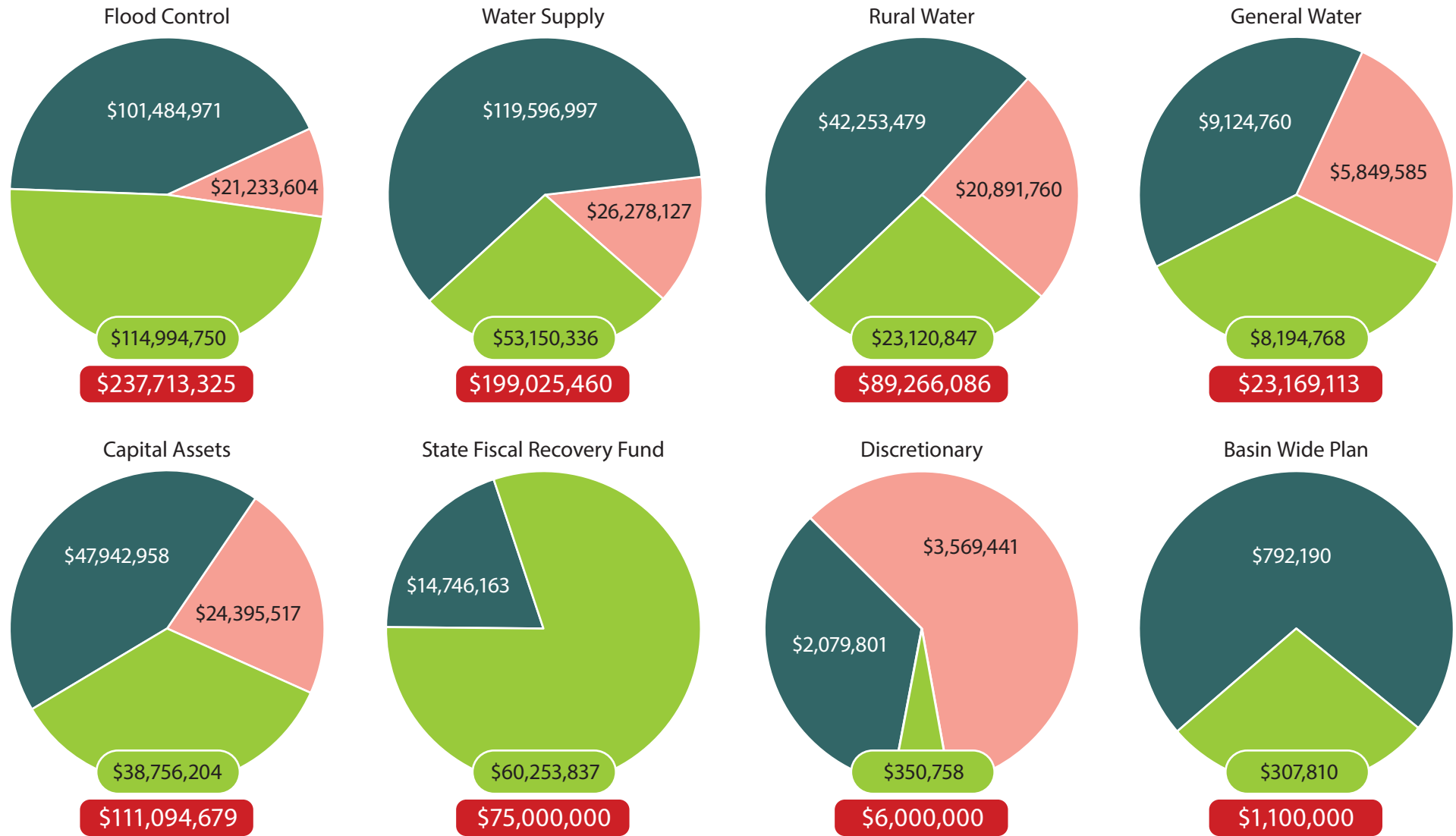
<b>Capital Assets (NAWS)</b>		<b>Cost-Share</b>	
1	Snake Creek Intake Modifications Contract 6-1A (Installation) Bidding February 2023	\$	-
2			
3			
<b>Total</b>		\$	-

<b>State Fiscal Recovery Funds (SFRF)</b>		<b>Cost-Share</b>	
1			
2			\$ -
3			
<b>Total</b>		\$	-

**Anticipated Requests Total \$ 70,352,555**

# 2021-2023 BIENNIUM TO DATE

Project Funds | May 2023



■ Expenditures   
 ■ Unpaid Approvals   
 ■ Unobligated Appropriation   
 ■ 21-23 Total Appropriation (Carryover and New Money)

**DEPARTMENT OF WATER RESOURCES  
PROJECT SUMMARY  
2021-2023 BIENNIUM**

**April 30, 2023**

	2019-2021 CARRYOVER	2021-2023 APPROPRIATION	2021-2023 TOTAL	SWC/Secretary APPROVED	UNOBLIGATED APPROPRIATION
<b>MUNICIPAL &amp; REGIONAL WATER SUPPLY:</b>					
MUNICIPAL WATER SUPPLY	50,144,344	27,009,016	77,153,360	77,153,360	(0)
RED RIVER VALLEY	18,006,482	37,604,667	55,611,149	55,611,149	(0)
OTHER REGIONAL WATER SUPPLY	22,750,237	17,232,587	39,982,824	39,982,824	0
UNOBLIGATED MUNICIPAL/REG WATER SUPPLY	10,724,398	43,153,729	53,878,127		53,878,127
Total	101,625,460	125,000,000	226,625,460	172,747,333	\$ 53,878,127
% OBLIGATED		65.48%			
<b>RURAL WATER SUPPLY:</b>					
RURAL WATER SUPPLY	29,637,156	38,737,170	68,374,326	68,374,326	(0)
UNOBLIGATED RURAL WATER SUPPLY	28,929	20,862,831	20,891,760		20,891,760
Total	29,666,086	59,600,000	89,266,086	68,374,326	20,891,760
% OBLIGATED		65.00%			
<b>FLOOD CONTROL:</b>					
FARGO	50,966,383	(0)	50,966,383	50,966,383	(0)
MOUSE RIVER	38,275,083	10,000,000	48,275,083	48,275,083	(0)
MOUSE RIVER HB1431 BOND PROCEEDS	0	74,500,000	74,500,000	74,500,000	0
VALLEY CITY	11,120,628	(0)	11,120,628	11,120,628	(0)
LISBON	276,544	0	276,544	276,544	0
OTHER FLOOD CONTROL	4,401,274	947,580	5,348,854	5,348,854	0
PROPERTY ACQUISITIONS	7,056,475	308,935	7,365,410	7,365,410	0
WATER CONVEYANCE	12,637,354	5,989,466	18,626,820	18,626,820	0
UNOBLIGATED FLOOD CONTROL	879,583	30,754,020	31,633,603		31,633,603
Total	125,613,325	122,500,000	248,113,325	216,479,722	31,633,603
% OBLIGATED		56.08%			
<b>GENERAL WATER:</b>					
GENERAL WATER	8,936,835	8,382,692	17,319,528	17,319,528	0
UNOBLIGATED GENERAL WATER	5,003	5,844,582	5,849,585		5,849,585
Total	8,941,838	14,227,274	23,169,113	17,319,528	5,849,585
% OBLIGATED		58.92%			
<b>SUBTOTAL</b>	<b>265,846,708</b>	<b>321,327,274</b>	<b>587,173,984</b>	<b>474,920,908</b>	<b>112,253,076</b>
<b>CAPITAL ASSETS:</b>					
SWPP CAPITAL ASSETS	8,528,779	24,528,203	33,056,982	33,056,982	0
NAWS CAPITAL ASSETS	10,865,900	42,776,280	53,642,180	53,642,180	0
UNOBLIGATED CAPITAL ASSETS	0	24,395,517	24,395,517		24,395,517
Total	19,394,679	91,700,000	111,094,679	86,699,162	24,395,517
% OBLIGATED		73.40%			
<b>DISCRETIONARY FUNDING:</b>					
DISCRETIONARY FUNDING PROJECTS	0	2,430,559	2,430,559	2,430,559	0
UNOBLIGATED DISCRETIONARY FUNDS	0	3,569,441	3,569,441		3,569,441
Total	0	6,000,000	6,000,000	2,430,559	3,569,441
% OBLIGATED		40.51%			
<b>BASINWIDE PLAN IMPLEMENTATION:</b>					
BASINWIDE PLAN IMPLEMENTATION	0	1,100,000	1,100,000	1,100,000	0
UNOBLIGATED BASINWIDE PLAN IMPLEMENTATION FUNDS	0	0	0		0
Total	0	1,100,000	1,100,000	1,100,000	0
% OBLIGATED		100.00%			
<b>STATE FISCAL RECOVERY FUND:</b>					
STATE FISCAL RECOVERY FUNDS - SB 2345	0	75,000,000	75,000,000	75,000,000	0
UNOBLIGATED STATE FISCAL RECOVERY FUNDS	0	0	0		0
Total	0	75,000,000	75,000,000	75,000,000	0
% OBLIGATED		100.00%			
<b>TOTAL</b>	<b>285,241,387</b>	<b>495,127,274</b>	<b>780,368,664</b>	<b>640,150,629</b>	<b>140,218,034</b>

**DEPARTMENT OF WATER RESOURCES  
PROJECT SUMMARY  
2021-2023 BIENNIUM**

*Apr-23*

	SWC/Secretary APPROVED	EXPENDITURES	UNPAID APPROVALS
<b>MUNICIPAL &amp; REGIONAL WATER SUPPLY:</b>			
MUNICIPAL WATER SUPPLY	77,153,360	31,022,196	46,131,164
RED RIVER VALLEY	55,611,149	10,066,372	45,544,777
OTHER REGIONAL WATER SUPPLY	39,982,824	12,061,768	27,921,056
TOTAL	172,747,333	53,150,336	119,596,997
<b>RURAL WATER SUPPLY:</b>			
RURAL WATER SUPPLY	68,374,326	23,120,847	45,253,479
<b>FLOOD CONTROL:</b>			
FARGO	50,966,383	50,966,383	0
MOUSE RIVER	48,275,083	38,241,177	10,033,907
MOUSE RIVER HB1431	74,500,000	5,996,153	68,503,847
VALLEY CITY	11,120,628	940,624	10,180,004
LISBON	174,579	94,090	80,489
OTHER FLOOD CONTROL	5,450,818	1,547,745	3,903,073
PROPERTY ACQUISITIONS	7,365,410	7,287,077	78,332
WATER CONVEYANCE	18,626,819	9,921,501	8,705,319
TOTAL	216,479,721	114,994,750	101,484,971
<b>GENERAL WATER:</b>			
GENERAL WATER	17,319,528	8,194,768	9,124,760
<b>SUBTOTAL</b>	474,920,908	199,460,700	275,460,208
<b>CAPITAL ASSETS:</b>			
SWPP CAPITAL ASSETS	33,056,982	22,124,640	10,932,342
NAWS CAPITAL ASSETS	53,642,180	16,631,564	37,010,616
TOTAL	86,699,162	38,756,204	47,942,958
<b>DISCRETIONARY FUNDING:</b>			
DISCRETIONARY FUNDING PROJECTS	2,430,559	350,758	2,079,801
<b>BASINWIDE PLAN IMPLEMENTATION:</b>			
BASINWIDE PLAN IMPLEMENTATION	1,100,000	307,810	792,190
<b>STATE FISCAL RECOVERY FUNDS SB2345</b>			
STATE FISCAL RECOVERY FUND PROJECTS	75,000,000	60,253,837	14,746,163
<b>TOTALS</b>	640,150,629	299,129,309	341,021,320



# North Dakota Irrigation Association

P.O. Box 2254  
Bismarck, ND 58502  
701-223-4615  
701-223-4645 (fax)

Dedicated to strengthening and expanding irrigation to build and diversify our economy

April 24, 2023

State Water Commission  
1200 Memorial Highway  
Bismarck, ND 58504

Governor Burgum, Commissioner Goehring and State Water Commissioners,

The North Dakota Irrigation Association greatly appreciates the opportunity to discuss two possible changes to policy to further support irrigation development across the state. The agriculture industry contributes more than \$30 billion to North Dakota's economy and is a vital cornerstone of cities and rural communities across the state. Irrigation provides an important safety net for individual producers as well as a guarantee of supply for value-added agriculture processors. According to North Dakota State University research, one acre of irrigation provides the same level of productivity as four acres of dryland during normal years. In drought years, that ratio jumps to one acre of irrigated for every six acres of dryland.

Challenges to further development of irrigation are largely twofold: water availability and financing. We greatly appreciate the work of the Department of Water Resources (DWR) staff in diving into available data to ensure we are responsibly using our water resources for irrigation from both groundwater and surface water. North Dakota's greatest untapped water resource, the Missouri River, remains the best potential source of water for further irrigation development.

Financing has proven to be a growing challenge to irrigation development as costs for pipe, power, equipment, etc. have grown and interest rates available to both individuals and irrigation districts have gone up. New irrigation projects range greatly depending on the size, distance from a water source, distance from power, etc. Generally, we estimate the 'off farm' works to cost \$2,000/acre. Recent estimates of 'on farm' works run between \$150,000-\$700,000. The average interest rate for producers right now is about 7%, trending higher, with a seven-year loan.

Today the state provides direct monetary support for irrigation in two ways:

- Cost share provided by the State Water Commission (SWC) and DWR to irrigation districts for shared works, or 'off farm' works.
- Interest rate buy down through the Bank of North Dakota's (BND) Ag Pace program for private, or 'on farm' works, which is also partially funded by the SWC and DWR.

The Association is grateful for this support for irrigation development. The growing interest in irrigation, coupled with increasing costs and interest rates, has led the Association to request the SWC to consider two changes to these very important support programs. Specifically, we request:

- An increase in cost share percentage from the current 50% up to perhaps 75%.
- An increase in the cap on the buy down available through the Ag Pace for Irrigation program from the current \$40,000 to \$100,000.

The Association views these two requests as a potential package that could drive irrigation development across the state by increasing state support for irrigation for every piece of a potential irrigation project.

Current cost share policy provides 50% cost share to irrigation districts for use in developing 'off farm' works. This is funded through the General Water bucket using the Resources Trust Fund. There have been a limited number of applications for this cost share in recent years as irrigation districts are less active than they have been in the past. However, there could be more applications in the future as changes in policy and other considerations drive irrigation development. Should cost share policy be increased to an amount greater than 50%, that would further incentivize the development or reactivation of irrigation districts by individual irrigators as it becomes more economically advantageous to utilize the cost share available to districts, but not individual irrigators.

Additionally, increasing the cost share percentage will make further development within existing, active irrigation districts, including the Garrison Diversion Conservancy District and the Lower Heart Irrigation District, more feasible. Increasing the percentage could tip the scale for more expensive projects to move forward by making the local share more manageable.

The Ag Pace for Irrigation program, available through the BND, provides up to 4% in interest rate buy down, up to \$40,000 for irrigators developing irrigation on their land. Unlike cost share, this program is available to individual irrigators for 'on farm' works, like pivots. Funding for this program is split between the SWC and the BND. The current \$40,000 cap has not been raised since 2001. Raising the cap to \$100,000 would provide meaningful interest rate buy down in the current high-rate environment.

The Irrigation Association has been in discussions with the BND, as well as DWR staff, advocating for an increase in the cap on this program and feels confident that should the SWC approve an increase to the cap, the BND would do likewise.

Making these two policy changes would provide meaningful support for irrigation development and the agriculture industry overall. We would note funding for both of these changes would come from the General Water bucket and, regardless of policy changes funding, would be limited to what is available via that bucket.

Thank you for your consideration of this request. Please feel free to reach out to Dani Quissell, executive director, at [dquissell@ndwater.net](mailto:dquissell@ndwater.net) should you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Steve Hansen". The signature is written in a cursive, flowing style with a long horizontal line extending to the right.

Steve Hansen  
President

## APPENDIX A

### INDIVIDUAL RURAL AND FARMSTEAD RING DIKE CRITERIA

#### MINIMUM DESIGN CRITERIA

- Height: The dike must be built to an elevation 2 ft above either the 100-year flood or the documented high water mark of a flood event of greater magnitude, whichever is greater.
- Top Width:
  - If dike height is 5 ft or less: 4 ft top width
  - If dike height is between 5 ft and 14 ft: 6 ft top width
  - If dike height is greater than 14 ft: 8 ft top width
- Side Slopes: 3 horizontal to 1 vertical
- Strip topsoil and vegetation: 1 ft
- Adequate embankment compaction: Fill in 6-8 inch layers, compact with passes of equipment
- Spread topsoil and seed on ring dike

#### LANDOWNER RESPONSIBILITY

Landowners are responsible to address internal drainage on ring dikes. If culverts and flap gates are installed, these costs are eligible for cost-share. The landowner has the option of completing the work or hiring a contractor to complete the work.

IF CONTRACTOR DOES THE WORK, payment is for actual costs with documented receipts.

IF LANDOWNER DOES THE WORK, payment is based on the following unit prices:

- Stripping, spreading topsoil, and embankment fill: Secretary will determine rate schedule based on current local rates.
- Seeding: Cost of seed times 200 percent
- Culverts: Cost of culverts times 150 percent
- Flap gates: Cost of flap gates times 150 percent

#### OTHER FACTS AND CRITERIA

- The topsoil and embankment quantities will be estimated based on dike dimensions. Construction costs in excess of the 3:1 side slope standard will be the responsibility of the landowner. Invoices will be used for the cost of seed, culverts, and flap gates.



- Height can be determined by existing FIRM data or known elevations available at county floodplain management offices. Engineers or surveyors may also assist in establishing height elevations.
- The projects will not require extensive engineering design or extensive cross sections.
- A dike permit is required **from the Department** ~~if the interior volume of the dike consists of 50 acre feet, or more.~~

# Municipal Water Supply Projects: 2023-2025 Water Development Plan & DEQ Priority Points

LOCAL SPONSOR	PROJECT NAME	PROJECT TYPE	SWC PRIORITY RANK	Water Quality	Water Quantity	Affordability	Infrastructure Adequacy	Consolidation/Regionalization	Miscellaneous	Total DEQ Priority Points	POTENTIAL SWC GRANT 2023-2025	Estimated Cumulative C-S Requested	
City of Napoleon	Water Extension	WS Expansion	Moderate	Primarily for growth - ineligible for DWSRF								\$ 600,000	\$ 600,000
City of Valley City	Water Main Expansion (Northwest Growth Area)	WS Expansion	Moderate	Primarily for growth - ineligible for DWSRF								\$ 360,000	\$ 960,000
City of Wildrose	Water Extension	WS Expansion	Moderate	Primarily for growth - ineligible for DWSRF								\$ 200,628	\$ 1,160,628
City of Crosby	Hendrickson/Holmes Water Main Improvement	WS Improvement	Low	0	10	7	11	0	0	28	\$ 1,869,000	\$ 3,029,628	
City of Medina	Water Supply, Water Treatment, Water Storage	WS Repair or Replacement	Low	0	0	11	13	0	3	27	\$ 3,000,000	\$ 6,029,628	
City of Center	Water Storage & Distribution System Improvements	WS Improvement	Low	0	0	11	11	0	0	22	\$ 1,550,000	\$ 7,579,628	
City of Bismarck	Cast Iron Watermain Replacement	WS Repair or Replacement	Low	3	0	10	6	0	0	19	\$ 3,840,000	\$ 11,419,628	
City of Robinson	Pumping System Upgrades	WS Improvement	Low	0	0	9	10	0	0	19	\$ 300,000	\$ 11,719,628	
City of St. John	Water Tower Replacement	WS Repair or Replacement	Low	0	0	13	3	0	3	19	\$ 840,000	\$ 12,559,628	
City of Amenia	Amenia Water System Improvements	WS Improvement	Low	0	0	3	15	0	0	18	\$ 360,000	\$ 12,919,628	
City of Cando	Water Tower Replacement	WS Repair or Replacement	Low	0	0	13	5	0	0	18	\$ 1,200,000	\$ 14,119,628	
City of Carson	Water System Improvements	WS Improvement	Low	4	0	8	6	0	0	18	\$ 1,692,000	\$ 15,811,628	
City of Fargo	High Service Pump Station Improvements	WS Improvement	Low	0	7	9	2	0	0	18	\$ 2,250,000	\$ 18,061,628	
City of Minot	Municipal Watermain Replacement - Eastwood Park	WS Repair or Replacement	Low	4	0	8	6	0	0	18	\$ 6,300,000	\$ 24,361,628	
City of Hazelton	Pump House & Water Tower Improvements	WS Improvement	Low	0	0	7	7	0	3	17	\$ 1,200,000	\$ 25,561,628	
City of Lehr	Pumphouse & Water Tower Improvements	WS Improvement	Low	0	0	8	6	0	3	17	\$ 1,200,000	\$ 26,761,628	
City of Linton	Water System Improvements	WS Improvement	Low	0	0	14	3	0	0	17	\$ 900,000	\$ 27,661,628	
City of New England	Water System Improvements	WS Improvement	Low	0	0	12	5	0	0	17	\$ 504,000	\$ 28,165,628	
City of Parshall	Watermain Improvements	WS Improvement	Low	0	0	15	2	0	0	17	\$ 402,000	\$ 28,567,628	
City of Parshall	Water Supply Line Improvements	WS Improvement	Low	0	0	15	2	0	0	17	\$ 5,700,000	\$ 34,267,628	
City of Underwood	Elevated Water Tower Replacement	WS Repair or Replacement	Low	0	0	7	10	0	0	17	\$ 1,320,000	\$ 35,587,628	
City of Glen Ullin	Water Distribution System Improvements	WS Improvement	Low	0	0	11	5	0	0	16	\$ 600,000	\$ 36,187,628	
City of Glen Ullin	Water Storage System Improvements	WS Improvement	Low	0	0	11	5	0	0	16	\$ 900,000	\$ 37,087,628	
City of Jamestown	Two New Supply Wells	WS Improvement	Low	0	0	11	5	0	0	16	\$ 1,149,000	\$ 38,236,628	
City of Kindred	Water Reservoir Improvements	WS Improvement	Low	0	0	4	9	0	3	16	\$ 750,000	\$ 38,986,628	
City of Mott	Mott Water Supply Improvements	WS Improvement	Low	0	0	7	9	0	0	16	\$ 1,000,000	\$ 39,986,628	
City of Napoleon	Water Supply System Replacements	WS Repair or Replacement	Low	0	0	6	9	1	0	16	\$ 600,000	\$ 40,586,628	
City of New Salem	Water Tower Replacement	WS Repair or Replacement	Low	0	0	11	5	0	0	16	\$ 1,390,000	\$ 41,976,628	
City of New Town	2025-2026 Utility Improvements	WS Improvement	Low	0	0	13	3	0	0	16	\$ 4,200,000	\$ 46,176,628	
City of Cando	Water System Improvements	WS Improvement	Low	0	0	12	3	0	0	15	\$ 3,900,000	\$ 50,076,628	
City of Carson	Water Storage Improvements	WS Improvement	Low	0	0	8	7	0	0	15	\$ 810,000	\$ 50,886,628	
City of Hunter	Water System Improvements	WS Improvement	Low	4	0	5	6	0	0	15	\$ 1,122,000	\$ 52,008,628	
City of Kulm	Water Tower Replacement	WS Repair or Replacement	Low	0	0	7	5	0	3	15	\$ 900,000	\$ 52,908,628	
City of Mandan	Water Treatment Plant Phase III Optimization	WS Improvement	Low	0	0	7	8	0	0	15	\$ 3,952,440	\$ 56,861,068	
City of McClusky	Water System Improvements	WS Improvement	Low	0	0	12	3	0	0	15	\$ 360,000	\$ 57,221,068	
City of New Town	New Water Tower	WS Improvement	Low	0	0	13	2	0	0	15	\$ 3,000,000	\$ 60,221,068	
City of Portland	Water System Improvements (Water Tower & Distribution)	WS Improvement	Low	0	0	3	12	0	0	15	\$ 180,000	\$ 60,401,068	
City of Wahpeton	New Well Field	WS Improvement	Low	0	0	12	3	0	0	15	\$ 3,719,354	\$ 64,120,422	
City of Fairmount	Water Tower Replacement & Controls Upgrades	WS Repair or Replacement	Low	0	0	9	5	0	0	14	\$ 1,080,000	\$ 65,200,422	
City of Galesburg	Infrastructure Improvements	WS Improvement	Low	0	0	3	11	0	0	14	\$ 1,079,790	\$ 66,280,212	
City of Leeds	Water Well & Transmission Line Repairs	WS Repair or Replacement	Low	0	0	7	7	0	0	14	\$ 300,000	\$ 66,580,212	
City of New Leipzig	New Leipzig Water System Improvements	WS Improvement	Low	0	0	8	6	0	0	14	\$ 424,000	\$ 67,004,212	
City of Tioga	Water Main Replacement	WS Repair or Replacement	Low	0	0	11	3	0	0	14	\$ 1,500,000	\$ 68,504,212	

City of Williston	5th Ave Phase II Reconstruction	WS Repair or Replacement	Low	0	0	8	6	0	0	14	\$ 37,602	\$ 68,541,814
City of Wing	Ground Storage Reservoir	WS Improvement	Low	0	0	7	7	0	0	14	\$ 300,000	\$ 68,841,814
City of Bismarck	Water Treatment Plant Expansion & Improvements	WS Improvement	Low	0	0	6	7	0	0	13	\$ 40,320,000	\$ 109,161,814
City of Fargo	Water Treatment Plant Residuals Facility	WS Improvement	Low	0	0	9	4	0	0	13	\$ 4,800,000	\$ 113,961,814
City of Garrison	Water Main Replacement	WS Repair or Replacement	Low	0	0	7	6	0	0	13	\$ 1,200,000	\$ 115,161,814
City of Hebron	Southside Watermain Replacement	WS Repair or Replacement	Low	0	0	8	5	0	0	13	\$ 2,100,000	\$ 117,261,814
City of Jamestown	NE Transmission Water Main	WS Repair or Replacement	Low	0	0	11	2	0	0	13	\$ 3,000,000	\$ 120,261,814
City of McVile	Water System Improvements	WS Improvement	Low	0	0	7	6	0	0	13	\$ 1,122,000	\$ 121,383,814
City of Noonan	Water Main Replacement	WS Repair or Replacement	Low	0	0	10	3	0	0	13	\$ 447,936	\$ 121,831,750
City of Aneta	Aneta Water System Improvements	WS Improvement	Low	0	0	9	3	0	0	12	\$ 3,444,000	\$ 125,275,750
City of Buffalo	Water System Improvements	WS Improvement	Low	0	0	3	9	0	0	12	\$ 1,771,200	\$ 127,046,950
City of Burlington	Water Main Replacement Wallace Street	WS Repair or Replacement	Low	0	0	7	5	0	0	12	\$ 342,600	\$ 127,389,550
City of Drayton	Water Main Improvements	WS Improvement	Low	0	0	7	5	0	0	12	\$ 1,200,000	\$ 128,589,550
City of Elgin	Water System Improvements	WS Improvement	Low	0	0	9	3	0	0	12	\$ 1,680,000	\$ 130,269,550
City of Fargo	Water Meter Replacement (AMI Improvements)	WS Improvement	Low	0	0	9	2	0	1	12	\$ 1,500,000	\$ 131,769,550
City of Grand Forks	Water Treatment Plant Demolition	WS Repair or Replacement	Low	0	0	9	3	0	0	12	\$ 3,060,000	\$ 134,829,550
City of Harvey	Raw Water Line Replacement	WS Repair or Replacement	Low	0	0	10	2	0	0	12	\$ 1,334,000	\$ 136,163,550
City of Harvey	Water Main Replacement Across RR	WS Repair or Replacement	Low	0	0	10	2	0	0	12	\$ 226,000	\$ 136,389,550
City of Kindred	ACP Water Main Replacement	WS Repair or Replacement	Low	0	0	4	8	0	0	12	\$ 750,000	\$ 137,139,550
City of Leeds	Water Treatment Plant Improvements	WS Improvement	Low	0	0	7	5	0	0	12	\$ 360,000	\$ 137,499,550
City of Mandan	Memorial Highway Water Main Upgrade	WS Improvement	Low	0	0	7	5	0	0	12	\$ 3,322,103	\$ 140,821,653
City of McVile	Water Treatment Plant Upgrades	WS Improvement	Low	0	0	7	5	0	0	12	\$ 390,000	\$ 141,211,653
City of Riverdale	Raw Water Supply Line Replacement & Gate Valve Improvements	WS Repair or Replacement	Low	0	0	7	5	0	0	12	\$ 3,300,000	\$ 144,511,653
City of Rutland	Watermain Replacement & Looping	WS Repair or Replacement	Low	0	0	6	6	0	0	12	\$ 360,000	\$ 144,871,653
City of Underwood	Water Main Replacement	WS Repair or Replacement	Low	0	0	7	5	0	0	12	\$ 1,200,000	\$ 146,071,653
City of Westhope	Water Main Improvements	WS Improvement	Low	0	0	9	3	0	0	12	\$ 750,000	\$ 146,821,653
City of Wilton	Water Storage Reservoir Improvements	WS Improvement	Low	0	0	6	6	0	0	12	\$ 600,000	\$ 147,421,653
City of Arthur	Pump House Rehabilitation	WS Repair or Replacement	Low	0	0	4	4	0	3	11	\$ 180,000	\$ 147,601,653
City of Coleharbor	Water Main Replacement	WS Repair or Replacement	Low	0	0	8	3	0	0	11	\$ 1,200,000	\$ 148,801,653
City of Fargo	Sheyenne River Raw Water Transmission Improvements	WS Improvement	Low	0	0	9	2	0	0	11	\$ 4,200,000	\$ 153,001,653
City of Fargo	Red River Emergency Intake Screen	WS Improvement	Low	0	0	9	2	0	0	11	\$ 1,200,000	\$ 154,201,653
City of Mandan	Southside Reservoir Pump Upgrade	WS Improvement	Low	0	0	7	4	0	0	11	\$ 237,000	\$ 154,438,653
City of Mapleton	Mapleton Original Townsite Water Main Replacement	WS Repair or Replacement	Low	0	0	6	5	0	0	11	\$ 690,000	\$ 155,128,653
City of Max	Water Main Improvements	WS Improvement	Low	0	0	8	3	0	0	11	\$ 310,200	\$ 155,438,853
City of Max	Gate Valve Replacement	WS Repair or Replacement	Low	0	0	8	3	0	0	11	\$ 105,000	\$ 155,543,853
City of Minot	Municipal Watermain Replacement	WS Repair or Replacement	Low	0	0	8	3	0	0	11	\$ 2,355,000	\$ 157,898,853
City of Minot	Municipal Watermain Replacement - SW Area	WS Repair or Replacement	Low	0	0	8	3	0	0	11	\$ 2,400,000	\$ 160,298,853
City of Minot	16th Street SW Watermain Replacement	WS Repair or Replacement	Low	0	0	8	3	0	0	11	\$ 600,000	\$ 160,898,853
City of Mohall	2nd Ave SE Water & Sewer Replacements	WS Repair or Replacement	Low	0	0	8	3	0	0	11	\$ 193,203	\$ 161,092,056
City of Mohall	3rd Ave, 4th & 5th St NW Water & Sewer Replacements	WS Repair or Replacement	Low	0	0	8	3	0	0	11	\$ 236,525	\$ 161,328,581
City of Steele	NW Area Water System Improvements	WS Improvement	Low	0	0	8	3	0	0	11	\$ 450,000	\$ 161,778,581
City of Towner	Water Quality Improvement	WS Improvement	Low	0	0	2	9	0	0	11	\$ 1,236,000	\$ 163,014,581
City of Valley City	Water Main Improvements (NW, NE & SE Quadrants)	WS Improvement	Low	0	0	6	5	0	0	11	\$ 1,200,000	\$ 164,214,581
City of Casselton	ACP Water Main Replacement & Casselton Farms Transmission Line	WS Repair or Replacement	Low	0	0	5	5	0	0	10	\$ 2,520,000	\$ 166,734,581
City of Columbus	Water Main Improvements Phase I	WS Improvement	Low	0	0	8	2	0	0	10	\$ 491,010	\$ 167,225,591
City of Columbus	Water Main Improvements Phase II	WS Improvement	Low	0	0	8	2	0	0	10	\$ 528,780	\$ 167,754,371
City of Devils Lake, Greater Ramsey RWD, & Northeast RWD	Devils Lake Raw Water Capacity Increase	WS Improvement	Low	0	0	6	4	0	0	10	\$ 2,085,282	\$ 169,839,653
City of Drayton	Water Main Replacement	WS Repair or Replacement	Low	0	0	7	3	0	0	10	\$ 3,000,000	\$ 172,839,653
City of Hazen	Water Supply Expansion	WS Improvement	Low	0	0	5	5	0	0	10	\$ 600,000	\$ 173,439,653
City of Langdon	Water Main Replacement	WS Repair or Replacement	Low	0	0	7	3	0	0	10	\$ 1,200,000	\$ 174,639,653
City of Leeds	ACP Water Main Replacement & Looping	WS Improvement	Low	0	0	7	3	0	0	10	\$ 1,560,000	\$ 176,199,653
City of Makoti	Well Replacement	WS Repair or Replacement	Low	0	0	5	5	0	0	10	\$ 300,000	\$ 176,499,653

City of Mandan	Collins Reservoir Replacement	WS Repair or Replacement	Low	0	0	7	3	0	0	10	\$ 1,920,000	\$ 178,419,653
City of Mandan	Water System Improvements	WS Improvement	Low	0	0	7	3	0	0	10	\$ 600,000	\$ 179,019,653
City of Mandan	Downtown Street Improvement District	WS Improvement	Low	0	0	7	3	0	0	10	\$ 720,000	\$ 179,739,653
City of Velva	Water Main Replacement	WS Repair or Replacement	Low	0	0	7	3	0	0	10	\$ 549,300	\$ 180,288,953
City of Williston	Borsheim Addition	WS Improvement	Low	0	0	8	2	0	0	10	\$ 680,000	\$ 180,968,953
City of Devils Lake	Water Main Replacement	WS Repair or Replacement	Low	0	0	6	3	0	0	9	\$ 1,047,450	\$ 182,016,403
City of Drayton	Water Main Looping	WS Improvement	Low	0	0	7	2	0	0	9	\$ 1,200,000	\$ 183,216,403
City of Garrison	Raw Water Intake	WS Repair or Replacement	Low	0	0	7	2	0	0	9	\$ 2,400,000	\$ 185,616,403
City of Glenburn	Water Main Replacement	WS Repair or Replacement	Low	0	0	6	3	0	0	9	\$ 1,707,000	\$ 187,323,403
City of Killdeer	South Water Storage Reservoir	WS Improvement	Low	0	0	7	2	0	0	9	\$ 1,200,000	\$ 188,523,403
City of Langdon	Water Tower Improvements	WS Improvement	Low	0	0	7	2	0	0	9	\$ 300,000	\$ 188,823,403
City of Langdon	Water Main Looping	WS Improvement	Low	0	0	7	2	0	0	9	\$ 420,000	\$ 189,243,403
City of Rutland	Water Tower Replacement	WS Repair or Replacement	Low	0	0	6	3	0	0	9	\$ 660,000	\$ 189,903,403
City of Sawyer	2022 Water Improvements	WS Improvement	Low	0	0	6	3	0	0	9	\$ 60,000	\$ 189,963,403
City of Surrey	Utility Improvements	WS Improvement	Low	0	0	6	3	0	0	9	\$ 1,314,000	\$ 191,277,403
City of Turtle Lake	Water Main Replacement	WS Repair or Replacement	Low	0	0	4	5	0	0	9	\$ 1,200,000	\$ 192,477,403
City of Watford City	3rd Avenue SW Reconstruction	WS Repair or Replacement	Low	0	0	6	3	0	0	9	\$ 1,406,545	\$ 193,883,948
City of Watford City	3rd & 4th Street SW Reconstruction	WS Repair or Replacement	Low	0	0	6	3	0	0	9	\$ 349,070	\$ 194,233,018
City of Watford City	Park Avenue East Reconstruction	WS Repair or Replacement	Low	0	0	6	3	0	0	9	\$ 464,878	\$ 194,697,896
City of West Fargo	Water Main Improvements	WS Improvement	Low	0	0	6	3	0	0	9	\$ 1,500,000	\$ 196,197,896
City of Williston	5th Ave Phase I Reconstruction	WS Repair or Replacement	Low	0	0	3	6	0	0	9	\$ 127,000	\$ 196,324,896
City of Almont	Water System Improvements	WS Improvement	Low	0	0	3	5	0	0	8	\$ 600,000	\$ 196,924,896
City of Bismarck	Ash Coulee Dr Watermain - HC143	WS Improvement	Low	0	0	6	2	0	0	8	\$ 673,482	\$ 197,598,378
City of Carrington	Hwy 281 Watermain Replacement	WS Repair or Replacement	Low	0	0	5	3	0	0	8	\$ 600,000	\$ 198,198,378
City of Flasher	City Wide Curb Stop Replacement	WS Repair or Replacement	Low	0	0	6	2	0	0	8	\$ 26,244	\$ 198,224,622
City of Flasher	Water Meter Replacement	WS Repair or Replacement	Low	0	0	6	2	0	0	8	\$ 9,088	\$ 198,233,710
City of Grenora	Jetson Water Main Replacement	WS Repair or Replacement	Low	0	0	5	3	0	0	8	\$ 373,095	\$ 198,606,805
City of Langdon	Water Main Looping Feasibility Study	Study	Low	0	0	7	0	0	1	8	\$ 24,000	\$ 198,630,805
City of Wildrose	Water Main Replacement	WS Repair or Replacement	Low	0	0	5	3	0	0	8	\$ 336,924	\$ 198,967,729
City of Williston	1st Ave W Reconstruction	WS Repair or Replacement	Low	0	0	2	6	0	0	8	\$ 385,500	\$ 199,353,229
City of Berthold	Water Main Replacement	WS Repair or Replacement	Low	0	0	4	3	0	0	7	\$ 3,847,284	\$ 203,200,513
City of Bowbells	Water Quality Improvements	WS Improvement	Low	0	0	5	2	0	0	7	\$ 94,500	\$ 203,295,013
City of Casselton	Water Main Looping – Martin’s Addition & Central Cass Public School	WS Improvement	Low	0	0	5	2	0	0	7	\$ 420,000	\$ 203,715,013
City of Sherwood	Water Supply Improvements	WS Improvement	Low	0	0	4	3	0	0	7	\$ 404,525	\$ 204,119,538
City of Sherwood	Water Main Replacement	WS Repair or Replacement	Low	0	0	4	3	0	0	7	\$ 659,186	\$ 204,778,724
City of Valley City	Northwest Standpipe Rehabilitation/Replacement	WS Repair or Replacement	Low	0	0	6	0	0	1	7	\$ 1,500,000	\$ 206,278,724
City of Michigan	Water Tower Rehabilitation	WS Repair or Replacement	Low	0	0	4	2	0	0	6	\$ 480,000	\$ 206,758,724
City of Tower City	Water System Improvements	WS Improvement	Low	0	0	3	3	0	0	6	\$ 2,263,200	\$ 209,021,924
City of Harwood	Harwood Water Main Looping	WS Improvement	Low	0	0	2	2	0	0	4	\$ 450,000	\$ 209,471,924
City of Tower City	Water Tower Rehabilitation	WS Repair or Replacement	Low	0	0	2	2	0	0	4	\$ 360,000	\$ 209,831,924
City of Williston	13th Ave W Reconstruction	WS Repair or Replacement	Low	Primarily for growth - ineligible for DWSRF							\$ 722,448	\$ 210,554,372
City of Williston	36th Street Redevelopment	WS Repair or Replacement	Low	Primarily for growth - ineligible for DWSRF							\$ 153,500	\$ 210,707,872
<b>Municipal total=</b>											<b>\$ 210,707,872</b>	

# Rural Water Supply Projects: 2023-2025 Water Development Plan & DEQ Priority Points

Central Plains Water District	Maddock Connection to Central Plains Water District	Rural Connection	High	2	7	12	15	2	6	44	\$ 3,750,000	\$ 3,750,000
East Central Regional Water District	Service to Galesburg	Rural Connection	High	0	0	9	11	1	0	21	\$ 1,337,737	\$ 5,087,737
Stutsman Rural Water District	Service to Streeter	Rural Connection	High	0	0	12	6	2	0	20	\$ 582,000	\$ 5,669,737
South Central Regional Water District	Service to Ashley	Rural Connection	High	2	0	6	6	4	0	18	\$ 5,324,352	\$ 10,994,089
Northeast Regional Water District	Bulk to Individual Service	Supply Shortage	High	0	0	10	3	1	0	14	\$ 2,698,986	\$ 13,693,075
Agassiz Water Users District	User & Transmission Expansion Phase II	WS Expansion	Moderate	0	0	10	8	0	0	18	\$ 2,621,737	\$ 16,314,812
McLean-Sheridan Rural Water District	Phase 3 Rural System Expansion & Improvements	WS Expansion	Moderate	0	0	10	5	2	0	17	\$ 6,600,000	\$ 22,914,812
All Seasons Water Users District	System 1 Expansion Phase 2	WS Expansion	Moderate	0	0	11	0	2	0	13	\$ 7,125,000	\$ 30,039,812
Tri-County Water District	Phase 7 Expansion - McVillage Area	WS Expansion	Moderate	0	0	9	2	0	0	11	\$ 2,464,500	\$ 32,504,312
Northeast Regional Water District	Treatment Plant & Wellfield Expansion	WS Improvement	Low	5	0	10	15	0	3	33	\$ 4,500,000	\$ 37,004,312
East Central Regional Water District	Hillsboro Treatment Plant Expansion	WS Improvement	Low	5	0	9	9	0	0	23	\$ 2,124,513	\$ 39,128,825
Southeast Water Users District	West System Water Treatment Plant Improvements	WS Improvement	Low	7	0	8	5	0	0	20	\$ 10,350,000	\$ 49,478,825
Stutsman Rural Water District	Raw Water Facilities Improvement	WS Improvement	Low	0	0	12	8	0	0	20	\$ 3,203,250	\$ 52,682,075
Rolette County	TMPUC Water System - Highway 43 Reservoir & Pump Station	WS Improvement	Low	0	0	13	4	2	0	19	\$ 3,000,000	\$ 55,682,075
Rolette County	TMPUC - Three Mile Road Rural Water Main Replacement	WS Repair or Replacement	Low	0	0	13	5	0	0	18	\$ 1,125,000	\$ 56,807,075
Rolette County	TMPUC - Highway 3 & BIA 8 Water Main Replacement	WS Repair or Replacement	Low	0	0	13	5	0	0	18	\$ 4,822,500	\$ 61,629,575
Upper Souris Water District	Improvements & Expansion Phase II	WS Improvement	Low	0	0	9	7	0	0	16	\$ 3,750,000	\$ 65,379,575
North Prairie Regional Water District	Reservoir 3 to Max Transmission Water Main	WS Improvement	Low	0	0	10	2	0	3	15	\$ 1,918,000	\$ 67,297,575
Tri-County Water District	Phase 6 Expansion	WS Improvement	Low	0	0	9	6	0	0	15	\$ 1,350,000	\$ 68,647,575
Agassiz Water Users District	Reservoir 1 to 3 Transmission Expansion	WS Improvement	Low	0	2	10	2	0	0	14	\$ 2,150,550	\$ 70,798,125
Cass Rural Water District	System Wide Improvements	WS Improvement	Low	0	2	7	5	0	0	14	\$ 1,575,000	\$ 72,373,125
Dakota Rural Water District	Transmission Pipeline Expansion	WS Improvement	Low	0	0	6	8	0	0	14	\$ 3,698,250	\$ 76,071,375
Stutsman Rural Water District	Phase 8	WS Improvement	Low	0	0	12	2	0	0	14	\$ 570,000	\$ 76,641,375
North Prairie Regional Water District	Backup Generators	WS Improvement	Low	0	0	10	0	0	3	13	\$ 122,250	\$ 76,763,625
East Central Regional Water District	Wellfield, Transmission & User Expansion	WS Improvement	Low	0	0	9	3	0	0	12	\$ 5,954,906	\$ 82,718,531
Missouri West Water System	Fort Abraham Lincoln State Park Improvement	WS Improvement	Low	0	0	8	4	0	0	12	\$ 744,000	\$ 83,462,531
Cass Rural Water District	Water Tower	WS Improvement	Low	0	0	7	4	0	0	11	\$ 4,395,000	\$ 87,857,531
Cass Rural Water District	Reservoir B Expansion	WS Improvement	Low	0	0	7	4	0	0	11	\$ 736,500	\$ 88,594,031
Northeast , Walsh, Agassiz, Tri-County, East Central	North East North Dakota Long-Term Water Supply - Design	WS Improvement	Low	0	0	6	0	2	3	11	\$ 6,255,647	\$ 94,849,678
South Central Regional Water District	Hawktree Tank	WS Improvement	Low	0	0	6	2	0	3	11	\$ 1,591,125	\$ 96,440,803
Southeast Water Users District	System Distribution Improvements	WS Improvement	Low	0	0	8	3	0	0	11	\$ 2,703,750	\$ 99,144,553
Southeast Water Users District	Automatic Meter Reading Improvements	WS Improvement	Low	0	0	8	2	0	0	10	\$ 1,500,000	\$ 100,644,553
Cass Rural Water District	County Road 17 Improvements	WS Improvement	Low	0	0	7	2	0	0	9	\$ 891,675	\$ 101,536,228
<b>Rural total=</b>											<b>\$ 101,536,228</b>	

# Memorandum

---

**To:** Tim Freije, PE  
NAWS Project Manager

**From:** Alan J. Kemmet, PE  
Houston Engineering, Inc.

**Subject:** NAWS Snake Creek Pumping Plant Discharge Pipeline

**Date:** June 7, 2023

**Project:** NDSWC Project 237-4, Contract 2-1E | HEI Project 3553-0079

## INTRODUCTION

The NAWS Intake and Snake Creek Pumping Plant (SCPP) Discharge Pipeline is the last segment of pipeline necessary to complete the NAWS raw water pipeline between the SCPP and the Biota Water Treatment Plant. All of the underground pipe for this project was pre-procured as part of the SCPP Construction Contract. This small pipeline segment represents some of the most challenging construction activities to date on the NAWS project with a significant portion of the pipeline located under a narrow access road on the side of Highway 83 Embankment. This portion of the pipeline (1,400 feet) must also be encased in reinforced concrete. The project also includes a cast-in-place concrete isolation valve vault. The completion dates for the project were set based on the estimated time necessary to complete the project and the projected timeline of the pump station work. The project was advertised for bids on May 3<sup>rd</sup>, 2023, in accordance with state bidding requirements with 1 schedule let for bids: Bid Schedule A – Combined General, Mechanical, & Electrical Construction. A Mandatory Pre-Bid Conference was held at the project site on May 17<sup>th</sup>, 2023 with three prime contractors in attendance. The Bid Opening was held on June 6<sup>th</sup>, 2023 with one bid received for the single Construction Contract.

The final Opinion of Probable Construction Cost (OPCC) prepared by the design team was \$4,740,000 prior to receiving the final USACE conditions with an expected accuracy range of -10% to +30% assuming multiple bidders. This OPCC was low confidence due to the unique nature of the work and very narrow easement available. Three addenda were issued during bidding to revise the Bid Form, Bid Date, and technical documents and to add the USACE Construction License, Easement, and Vegetation Mitigation documents.

A single bid was received for the project from Michels Construction (Brownsville, WI). The Bid was checked to ensure it contained the required bid bond, Contractor's License, and acknowledgements of surety and principal prior to opening. The base bid was \$6,548,763 with no bid on the single Alternate.

## BID REVIEW

### *Michels Construction*

Michels Construction was the only bidder that prepared a bid for the Contact. The bidder provided the following information:

- The bidder acknowledged receipt of all addenda.

- No errors were found in the bidder’s bid form after the bid was tabulated, however the bidder left all unit prices and several bid items blank. HEI discussed this issue with Michels and the blank bid items are considered no value or covered in other bid items but all requirements will be complied with. The blank unit prices will be resolved to determine the actual unit price for payment.
- Bidder has a current, valid Class A Contractor’s License and is in good standing with the Secretary of State.
- The Bidder listed Colstrip Electric as their Electrical Subcontractor. While this subcontractor has not worked on NAWS projects in the past, they are currently the subcontractor for the Demolition and Construction Contracts at the SCPP with the relevant experience necessary to complete the project.
- The Bidder listed “Johnny’s” as the concrete supplier, this appears to be Johnny’s Ready-Mix located in Garrison, ND – HEI has no prior experience with this concrete supplier and it is unclear if they are capable of meeting the project specifications. Michels indicated they will reach out to the supplier to determine they can meet the requirements of specifications, but also have two other potential suppliers lined up if the local supplier cannot meet requirements.
- Bidder’s bid is well within their bonding capacity.
- Bidder provided the EEO Compliance Certificates and the Certification Regarding Debarment, Drug Free Workplace, and Lobbying
- Bidder is confident in their bid and have acknowledged that the blanks on the bid form are intended to be zero cost and unit prices will need to be reconciled based on the total price provided divided by the unit quantity listed on the Bid Form. The bid schedule should be amended prior to award to codify the unit prices.

The bid received for the project is 140% of the OPCC. It should be noted that the number of bidders can significantly impact the cost of the project vs the estimate, usually 20% - 30% higher for two bidders and 25% - 45% higher for a single bidder, which largely accounts for the significant difference between the OPCC and Bid received.

## BID TABULATION

All bids that were opened were verified for accuracy. The following table shows the total value bid for each contract and if necessary that total is shown as corrected by HEI. The attached bid tab contains the OPCC and each bidder’s bid broken down by line item that matches the bid forms.

Contract	Bidder	Total Bid Amount
Bid Schedule A – General Construction (Civil, Structural, and Process Mechanical)	Michels Construction, Inc.	\$6,584,763.00
	OPCC	\$4,740,000.00

There remains a significant gap between the OPCC and bid received which can largely be attributed to the lack of bidders and the unique challenges presented by this project. USACE conditions that were added recently may also have contributed to the high number as there are significant monitoring, mitigation, and restoration requirements.

## AWARD RECOMMENDATION

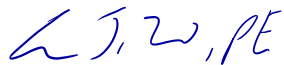
HEI believes the bidding process for this project was fair and did speak to another Contractor that indicated they intended to bid but had difficulty in obtaining quotes for some of the materials, however this Contractor has dispute history issues that may prevent the State from considering them responsive if the project was re-bid. No other

Contractors expressed interest in the project, so it is unlikely that re-bidding the project would result in lower overall costs and has the potential to further delay the project completion and the planned milestone completion dates.

HEI recommends the construction contract for the NAWS Snake Creek Pumping Plant Discharge Pipeline Contract 2-1E be awarded to Michels Construction, Inc. (Base Bid) for a total Contract amount of \$6,584,763.00. The issues regarding blanks on the bid form should be reviewed with Commission legal counsel to determine acceptability of the bid and the appropriate path to reconcile the unit prices.

Please contact us if you have any questions.

In service,

A handwritten signature in blue ink that reads 'Alan J. Kemmet, PE'.

Alan J. Kemmet, PE, Houston Engineering, Inc.  
Cc: Kevin Martin, PE

Attachment (1)



Item	Description	Unit	Estimated Quantity	Estimated Unit Cost	Estimated Price	Michels Construction, Inc.		
						Unit Cost	Total	
1	Mobilization, Demobilization, Bonds, Insurance	LS	1	\$ N/A	\$500,000.00	\$ N/A	\$759,785.00	
2	Build America, Buy America Act Compliance	LS	1	\$ N/A	\$85,000.00	\$ N/A	\$0.00	
3	Davis Bacon Act Compliance	LS	1	\$ N/A	\$25,000.00	\$ N/A	\$0.00	
4	Temporary Traffic Control and Signage	LS	1	\$ N/A	\$20,000.00	\$ N/A	\$224,429.00	
5	Erosion Control	LS	1	\$ N/A	\$30,000.00	\$ N/A	\$52,367.00	
6	Site Work							
6.1.	Demolition	LS	1	\$ N/A	\$30,000.00	\$ N/A	\$0.00	
6.2.	Connection to Discharge Pipeline	LS	1	\$ N/A	\$50,000.00	\$ N/A	\$37,405.00	
6.3.	Temporary HWY 83 Access	LS	1	\$ N/A	\$5,000.00	\$ N/A	\$46,756.00	
6.4.	Reconstruction of Substation Access Road	SY	4450	\$50.00	\$222,500.00	\$25.69	\$116,890.00	
6.5.	Isolation Valve Vault Structure	LS	1	\$ N/A	\$275,000.00	\$ N/A	\$140,268.00	
6.6.	Site Restoration	LS	1	\$50,000.00	\$50,000.00	\$ N/A	\$233,780.00	
6.7.	Isolation Valve Vault Electrical Service	LS	1	\$ N/A	\$5,000.00	\$ N/A	\$9,936.00	
6.8.	Isolation Valve Vault Mechanical	LS	1	\$ N/A	\$275,000.00	\$ N/A	\$175,335.00	
6.9.	Isolation Valve Vault Instrumentation, Controls and Electrical	LS	1	\$ N/A	\$140,000.00	\$ N/A	\$305,083.00	
7	Site Piping							
7.1.	Pre-Procured 36" PC 350 Restrained Joint Ductile Iron Pipe Installation	LF	2,100	\$650.00	\$1,365,000.00	\$1,558.53	\$3,272,919.00	
7.2.	Removal and Replacement of Unsuitable Materials	CY	50	\$250.00	\$12,500.00	\$116.88	\$5,844.00	
7.3.	Pre-Procured 36" Buried Restrained Joint Fitting Installation	EA	7	\$30,000.00	\$210,000.00	\$11,689.00	\$81,823.00	
7.4.	36" Buried Fitting Thrust Block	LS	1	\$ N/A	\$10,000.00	\$ N/A	\$5,844.00	
7.5.	36" Buried Gate Valve	EA	1	\$75,000.00	\$75,000.00	\$64,289.00	\$64,289.00	
7.6.	36" Reinforced Concrete Pipe Encasement	LF	1,400	\$900.00	\$1,260,000.00	\$584.45	\$818,230.00	
7.7.	36" Existing Ductile Iron Pipe Raw Water Connection	LS	1	\$ N/A	\$45,000.00	\$ N/A	\$116,890.00	
7.8.	Flushing and Pressure Testing	LS	1	\$ N/A	\$50,000.00	\$ N/A	\$116,890.00	
Total Contract Price – Bid Schedule A					\$4,740,000.00		\$6,584,763.00	