

MINUTES

North Dakota State Water Commission Bismarck, North Dakota

December 7, 2018

The North Dakota State Water Commission (State Water Commission or Commission) held a meeting at the Best Western Ramkota Hotel, Bismarck, North Dakota, on December 7, 2018. Governor Burgum called the meeting to order at 9:06 a.m., and requested Garland Erbele, State Engineer, and Chief Engineer-Secretary to the State Water Commission, call the roll. Governor Burgum announced a quorum was present.

STATE WATER COMMISSION MEMBERS PRESENT:

Governor Burgum, Chairman
Doug Goehring, Commissioner, ND Department of Agriculture, Bismarck
Katie Andersen, Jamestown
Michael Anderson, Hillsboro
Richard Johnson, Devils Lake
Leander McDonald, Bismarck
Mark Owan, Williston
Matthew Pedersen, Valley City
Jason Zimmerman, Minot

OTHERS PRESENT:

Lt. Governor Sanford
Garland Erbele, State Engineer, and Chief Engineer-Secretary, State Water Commission
State Water Commission Staff
Jennifer Verleger, General Counsel, Attorney General's Office
Leslie Bakken-Oliver, General Counsel, Governor's Office
Approximately 75 people interested in agenda items.

The attendance register is on file with the official minutes.

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

CONSIDERATION OF AGENDA:

The agenda for the December 7, 2018, State Water Commission meeting was presented; there were no modifications.

CONSIDERATION OF DRAFT MINUTES OF OCTOBER 11, 2018; NOVEMBER 8, 2018, SUBCOMMITTEE MEETING MINUTES; AND, SEPTEMBER 25-26, 2018, WATER TOPICS OVERVIEW COMMITTEE MEETING MINUTES:

The draft minutes of the October 11, 2018, State Water Commission meeting; November 8, 2018, subcommittee meetings; and September 25-26, 2018, Water Topics Overview Committee meeting minutes were reviewed. There were no modifications.

It was moved by Commissioner Andersen, seconded by Commissioner McDonald, and unanimously carried, that the minutes of October 11, 2018, November 8, 2018, subcommittee meeting minutes, and September 25-26, 2018, Water Topics Overview Committee meeting minutes be approved as presented.

STATE WATER COMMISSION FINANCIAL REPORTS:

The allocated program expenditures for the period ending October 31, 2018, were presented and discussed by David Laschkewitsch, Director of Administrative Services. The total expenditures are within the authorized budget amounts.

The Project Summary for the 2017-2019 Biennium, **APPENDIX A**, provided information on the committed and uncommitted funds from the Resources Trust Fund and the Water Development Trust Fund. The final summary for projects showed approved projects totaling \$591,237,697 with expenditures of \$238,783,597. A balance of \$90,241,630 remains available to commit to projects in the 2017-2019 biennium.

The oil extraction tax deposits into the Resources Trust Fund total \$229,590,789 through November 2018 and are currently \$52,585,428 or 29.7 percent above budgeted revenues.

Deposits received for the Water Development Trust Fund total \$23,874,965 through November 2018 and are currently \$14,874,965 above the budget revenues of \$9,000,000. The large increase was due to a settlement agreement between the state and the major tobacco companies over enforcement of the 1998 Tobacco Master Settlement agreement. The next scheduled deposit is April 2019 and anticipated to be \$9,000,000.

USGS STREAM GAGE JOINT FUNDING AGREEMENT FY 2019 - \$422,870 (SWC Project No. 2041)

Jon Patch, Director of Appropriations Division, provided information related to the annual request for funding of the joint gaging program the State Water Commission has

with the USGS. The funding is for the last nine months of the funding period that aligns with the federal funding from October 1, 2018, to June 30, 2019. An additional request will be made in June 2019. The State Water Commission has participated in a cooperative statewide hydraulic monitoring program with the US Geological Survey since the 1950s. A detailed memorandum and gaging information dated December 7, 2018, is attached as **APPENDIX B**.

The total cost of the monitoring program for FY 2019 is \$918,910. The State Water Commission portion of this amount is \$422,870 or 46 percent. This represents a 1.8 percent increase in program funding over the previous fiscal year.

Secretary Erbele recommended the State Water Commission approve the partial nine-month FY 2019 Joint Funding Arrangement with the USGS North Dakota Water Science Center not to exceed \$422,870 from the funds appropriated to the State Water Commission in the 2017-2019 biennium.

It was moved by Commissioner Goehring and seconded by Commissioner Johnson that the State Water Commission approve the partial nine-month FY 2019 Joint Funding Arrangement with the USGS North Dakota Water Science Center not to exceed \$422,870 from the funds appropriated to the State Water Commission in the 2017-2019 biennium.

Commissioners Andersen, Anderson, Johnson, McDonald, Owan, Pedersen, Zimmerman, Goehring, and Governor Burgum voted aye. There were no nay votes. Governor Burgum announced the motion unanimously carried.

EAST CENTRAL REGIONAL WATER DISTRICT, LARIMORE INTERCONNECT - \$513,750

(SWC Project No. 2050EAS)

East Central Regional Water District (East Central) requested cost-share for Phase 3 construction costs to connect the city of Larimore to the Grand Forks System by installing 4.5 miles of 12-inch transmission pipeline.

The Grand Forks System water supply is from the Elk Valley Aquifer treated at a water treatment plant six miles north of Northwood. The Grand Forks System's 2,850 users have water rates ranging from \$29.40 to \$55 per month minimum based on several system expansions, with all water users paying \$5.40 per 1,000 gallons used. New users will have a water rate of \$55 per month minimum and \$5.40 per 1,000 gallons.

The pipeline connection to Agassiz Water Users District will pass five miles east of Larimore. Grand Forks contacted Larimore to inquire if they were interested in buying water and eliminating their water treatment plant. On September 4, 2018, the Larimore City Council voted for a public vote of the people to obtain a water source from East Central. The city-wide vote was held November 30, 2018, and ratified on December 6, 2018. East Central's rate to Larimore would be \$2.57 per 1,000 gallons used. The estimated cost for installing 24,600 feet of 12-inch transmission pipeline to Larimore is \$685,000 and 75 percent cost-share is \$513,750.

Phase 3 project cost estimate is \$8,760,918 with pre-construction costs of \$505,658 and construction costs of \$8,255,260. East Central's total cost-share approved to-date is \$5,854,675. With pre-construction funded at 35 percent and construction activities at 75 percent, the total cost-share is \$6,368,425 for an additional \$513,750. The letter request and cost-share material are attached as **APPENDIX C**.

Secretary Erbele recommended the State Water Commission approve an additional \$513,750, resulting in a total cost-share of \$6,368,425, with pre-construction costs for adding Larimore funded at 75 percent and construction costs funded at 75 percent, for East Central projects. The funding is in the form of a cost-share towards eligible costs and contingent on available funding.

It was moved by Commissioner Goehring and seconded by Commissioner Johnson that the State Water Commission approve an additional \$513,750, resulting in a total cost-share of \$6,368,425, with pre-construction costs for adding Larimore funded at 75 percent and construction costs funded at 75 percent, for East Central projects. The funding is in the form of a cost-share towards eligible costs and contingent on available funding.

Commissioners Andersen, Johnson, McDonald, Owan, Pedersen, Zimmerman, Goehring, and Governor Burgum voted aye. There were no nay votes. Commissioner Anderson abstained from voting. Governor Burgum announced the motion unanimously carried.

BOTTINEAU COUNTY WATER RESOURCE DISTRICT, BAUMANN LEGAL DRAIN - \$391,742

(SWC Project No. 1059)

Bottineau County Water Resource District (District) requested cost-share assistance for Baumann Legal Drain.

The Baumann Drain was designed by the Soil Conservation Services (SCS) and originally constructed in the late 1950s. Baumann Drain is approximately six miles long and was originally designed to handle a watershed of 11,000 acres with an assessment district of 3,320 acres. It has subsequently been determined that the actual contributing watershed is 41,850 acres, and the new assessment district is 34,473 acres or ten times the original. The original project was undersized to handle the actual watershed resulting in crop and road damage during intense summer rain storms.

The original Baumann Drain channel is approximately 7.3 miles long, and the proposed Baumann Drain project includes a total of approximately 9 miles of channel improvements. The project will extend the channel, increase the channel grade, flatten side slopes and re-establish culvert crossing. The channel bottom will vary from 14-16 feet in width with 3:1 side slopes. The ND Department of Transportation agreed to fund the design and construction of a new crossing on US Highway 83 and has approximately \$1,000,000 available and has placed the culvert crossing improvement on their 2017-2019 biennium construction schedule. The drain is located near Westhope. The assessment district was approved in April 2017 by a 63 percent vote, and Drain Permit #5123 was approved.

A sediment analysis was completed, and the cost of removing sediment was eliminated from the request. The estimated total project cost is \$1,958,480. The District requests 45 percent cost-share on eligible items which is \$391,742 in state funds. The cost-share request is attached as **APPENDIX D**.

Secretary Erbele recommended the State Water Commission approve the request for state cost-share participation in the Baumann Legal Drain project at an amount not to exceed \$391,742. This approval is subject to the entire contents of the recommendation contained herein and the availability of funds.

It was moved by Commissioner Goehring and seconded by Commissioner Pedersen that the State Water Commission approve the state cost-share participation in the Baumann Legal Drain project at an amount not to exceed \$391,742. This approval is subject to the entire contents of the recommendation contained herein and the availability of funds.

Commissioners Andersen, Anderson, Johnson, McDonald, Owan, Pedersen, Zimmerman, Goehring, and Governor Burgum voted aye. There were no nay votes. Governor Burgum announced the motion unanimously carried.

RICHLAND COUNTY WATER RESOURCE DISTRICT, LEGAL DRAIN #7
CHANNEL IMPROVEMENTS - \$274,541
(SWC Project No. 1180)

Richland County Water Resource District (District) requested cost-share assistance for Legal Drain #7 Channel Improvements.

The drain is located near McLeod. Richland County Legal Drain #7 is a tributary to Antelope Creek and the watershed is approximately 17,000 acres. The first three miles of the drain, west of the discharge to Antelope Creek, have been reconstructed as two prior projects. This portion of the drain has the same issues with insufficient channel capacity, erosion and slope failures, and localized flooding issues. The reconstructed drain with 4:1 side slopes and 8-10 foot bottom width would better contain flood waters, and convey snow and ice melt more efficiently in the spring. A Corp of Engineers 404 permit was approved, Drain Permit #5100 was granted, and a sediment analysis was completed in October 2018.

The estimated total project cost is \$833,000. With eligible items cost-shared at 45 percent and the sediment removal discounted, the District is requesting \$274,541 in cost-share.

Secretary Erbele recommended the State Water Commission approve the request for state cost-share participation in the Legal Drain #7 Channel Improvements at an amount not to exceed \$274,541. This approval is subject to the entire contents of the recommendation contained herein and the availability of funds. The letter request and supporting documentation is attached as **APPENDIX E**.

It was moved by Commissioner Goehring and seconded by Commissioner Pedersen that the State Water Commission approve the state cost-share participation in the Legal Drain #7 Channel Improvements at an amount not to exceed \$274,541. This approval is subject to the entire contents of the recommendation contained herein and the availability of funds.

Commissioners Andersen, Anderson, Johnson, McDonald, Owan, Pedersen, Zimmerman, Goehring, and Governor Burgum voted aye. There were no nay votes. Governor Burgum announced the motion unanimously carried.

GARRISON DIVERSION CONSERVANCY DISTRICT MM 0 AND MM 0.4 - \$1,673,793
(SWC Project No. 1968)

Garrison Diversion Conservancy District (District) requested cost-share assistance for MM 0 and 0.4 Irrigation projects.

The projects are located near Coleharbor. The projects will service a total irrigable acreage of approximately 2,810 acres for five producers (mile marker 0 is four producers and mile marker 0.4 is one producer). The cost for the water delivery systems will be approximately \$1,194 per acre for 2,560 acres (mile marker 0) and approximately \$765 per acre for 250 acres (mile marker 0.4). With the cost-share, the cost of the central supply works is reduced to approximately \$597 per acre for the 2,560 acres at mile marker 0, and approximately \$383 per acre for the 250 acres at mile marker 0.4. The District is requesting cost-share for the central supply works which includes intakes, pump stations, controls, main transmission pipelines, and power grids. The irrigators must purchase and install pivots and pipe to transmit water from the main transmission lines to the pivots. The remaining 50 percent cost of the central supply works, pivots, and connection to the water delivery system will be paid by the irrigator.

The estimated total project cost is \$3,347,586. The project is eligible at 50 percent cost-share in state funds as an irrigation project in the General Water category for a cost-share of \$1,673,793. The request form and supporting documentation is attached as **APPENDIX F**.

Secretary Erbele recommended the State Water Commission approve the request by the Garrison Diversion Conservancy District for state cost-share participation in the MM 0 and 0.4 Irrigation projects at an amount not to exceed \$1,673,793. This approval is subject to the entire contents of the recommendation contained herein and the availability of funds.

It was moved by Commissioner Goehring and seconded by Commissioner McDonald that the State Water Commission approve state cost-share participation in the MM 0 and 0.4 Irrigation projects at an amount not to exceed \$1,673,793. This approval is subject to the entire contents of the recommendation contained herein and the availability of funds.

Commissioners Andersen, Anderson, Johnson, McDonald, Owan, Pedersen, Zimmerman, Goehring, and Governor Burgum voted aye. There were no nay votes. Governor Burgum announced the motion unanimously carried.

**GOLDEN VALLEY COUNTY WATER RESOURCE DISTRICT, ODLAND DAM
REHABILITATION PROJECT - \$110,055**
(SWC Project No. 0394)

Golden Valley County Water Resource District (District) requested cost-share assistance for the Odland Dam Rehabilitation project.

The project is located nine miles north Beach on Little Beaver Creek. Odland Dam was originally built by the Federal Emergency Relief Agency (FERA) in 1936. According to NDCC § 61-16.1-39 and 61-16.1-40, the District has responsibility and jurisdiction over the dam. The dam is approximately 28 feet tall and 690 feet in total length. It has an uncontrolled spillway that is 100 feet wide. Dam inspections conducted by State Water Commission dam safety staff show a continuous history of voids, cracking near the lower portion of the spillway, instability and cracking of the leftwing wall, as well as seepage. Repairs and modifications to the primary spillway have taken place on at least nine occasions beginning in 1937.

The District has completed a feasibility study previously cost-shared by the State Water Commission that examined three alternatives to a 10 percent design level to allow evaluation and selection of a preferred alternative for repair of the dam. The District and local citizens have selected the alternative of replacement of the existing 100-foot-wide primary spillway with a new 50-foot-wide primary spillway. The new 50-foot primary spillway would improve safety and liability exposure, maintain the upstream impoundment, reduce the ongoing long-term maintenance, and maintain angler and recreational uses of the upstream impoundment and surrounding area. The Odland Dam impoundment on Little Beaver Creek is highly valued by area residents and is listed by the ND Game and Fish Department as a priority water in the Save Our Lakes program. This funding request is for completion of final design and permitting as a precursor to bidding and construction.

The estimated total project cost is \$146,740. The project is eligible at 75 percent cost-share in state funds as a dam safety project in the General Water management category for a cost-share of \$110,055. The letter request and supporting documentation is attached as **APPENDIX G**.

Secretary Erbele recommended the State Water Commission approve the request by the Golden Valley County Water Resource District for state cost-share participation in the Odland Dam Rehabilitation project at an amount not to exceed \$110,055. This approval is subject to the entire contents of the recommendation contained herein and the availability of funds.

It was moved by Commissioner Pedersen and seconded by Commissioner Anderson that the State Water Commission approve state cost-share participation in the Odland Dam Rehabilitation project at an amount not to exceed \$110,055. This approval is subject to the entire contents of the recommendation contained herein and the availability of funds.

Commissioners Andersen, Anderson, Johnson, McDonald, Owan, Pedersen, Zimmerman, Goehring, and Governor Burgum voted aye. There were no nay votes. Governor Burgum announced the motion unanimously carried.

SOUTHWEST PIPELINE PROJECT – 2019 CAPITAL REPAYMENT AND REPLACEMENT AND EXTRAORDINARY MAINTENANCE (REM) RATE (SWC Project No. 1736-99)

Under the agreement for the Transfer of Management, Operations, and Maintenance Responsibilities for the Southwest Pipeline Project (Transfer Agreement), the Southwest Water Authority (SWA) must prepare a budget by December 15 of each year and submit it to the Secretary of the State Water Commission. The State Water Commission received the budget on November 14, 2018. This budget is deemed approved unless the Chief Engineer-Secretary notifies the SWA of the Commission's disapproval by February 15.

SWA Budget:

Water rates are a primary component of the SWA's budgeting process. The State Water Commission approves the capital repayment rate and REM rate explicitly by State Water Commission action.

An amendment to the Transfer Agreement established the Consumer Price Index (CPI) in effect on September 1 (August CPI) as the basis for determining the capital repayment. In accordance with the amended Transfer Agreement, the September 1 CPI was used to calculate the capital repayment rate for 2019. The September 1 CPI this year was 252.1 versus 245.5 last year. The new capital repayment rates are \$1.21 per thousand gallons for contract users and \$36.97 per month for rural users. These compare with 2018 rates of \$1.18 per thousand gallons for contract users and \$36.00 per month for rural users. The 2018 capital repayment rate for the Morton County users is \$28.51. Applying the CPI adjustment to this figure results in a 2019 rate for these users of \$29.28 per month.

The REM was set by the Commission at its February 9, 1999, meeting at \$0.35 per thousand gallons. The original rate of \$0.30 per thousand gallons had been set in 1991.

The SWA Board of Directors voted to increase the REM rate to \$0.40 per thousand gallons for their 2013 budget. The REM rate was increased from \$0.40 to \$0.50 per thousand gallons in 2014, \$0.50 to \$0.55 per thousand gallons in 2015, and \$0.55 to \$0.65 per thousand gallons in 2016. For 2017, the SWA Board of Directors approved a water rate with no REM rate increase. For 2018, the REM rate was increased \$0.05 to \$0.70 per thousand gallons. For 2019, the SWA Board of Directors approved a water rate with no REM rate increase.

The SWA's budget proposed a \$12.00 per thousand gallons water rate for oil industry contracts. The oil industry rate is being reduced in 2019 in hopes of increasing sales. Through October 2018, SWA sold 2.8 million gallons to oil industry while the budgeted oil industry sales for 2018 was 9 million gallons. The breakdown of the general oil industry rate is as follows: One-third will be towards capital repayment, one-third towards REM, and the remaining third to SWA. For the SWA's water depot east of Dickinson, one-fourth will be towards capital repayment, one-fourth towards REM, and the remaining half towards SWA. Higher percentage is allocated to SWA in order to mitigate SWA's maintenance cost at this depot and to help SWA fulfil their contract for purchasing automatic meter reads.

The SWA's water rate for contract customers in 2019 increased from \$4.43 to \$5.23 per thousand gallons. The increase of \$0.80 is the total of \$0.03 increase in capital repayment and \$0.77 increase in transmission operation and maintenance rate.

The minimum monthly rate for rural customers in 2019 increased from \$42.00 to \$47.00. The breakdown of the monthly minimum is \$36.97 towards capital repayment and \$10.03 towards the operations and maintenance fee. The State Water Commission receives \$5.00 of operation and maintenance fee for the first two years, and then it goes to the SWA for fixed operation and maintenance. The usage rate for rural customers increased from \$5.04 to \$5.91 per thousand gallons. The increase of \$0.87 is the total of \$0.77 increase in transmission operation and maintenance and \$0.10 increase in distribution operation and maintenance.

The SWA Board of Directors approved the budget projecting 2.5 months in reserve and changed the Board policy that required four months in reserve to 2.5 months in reserve.

Included in the SWA's budget was the budget for the REM funds. The estimated beginning balance in REM funds for 2019 is \$18.57 million; estimated income for 2019 is \$2.18 million; and estimated expenses for 2019 is \$0.92 million for a year-end balance of \$19.83 million. The possible expenses for 2019 from the REM fund include pump and motor replacements, air vacuum and blow off replacement, SCADA upgrades retainage payment, pipe relocation in road rights-of-way, replacement of variable

frequency drive at Jung Lake Pump Station, cathodic protection of steel vaults, and bid alternates approved on Contract 4-1E/4-2B.

Secretary Erbele recommended that the State Water Commission establish 2019 capital repayment and REM rates as follows:

Capital repayment for contract and rural customers: \$1.21 per thousand gallons for contract users, \$29.28 for rural users in Morton County with water service from Missouri West Water System, \$36.97 per month for other rural users. Capital repayment for oil industry contracts: \$3.00 per thousand gallons for Dickinson Water Depot and \$4.00 per thousand gallons for other oil industry contracts.

REM rate: \$0.70 per thousand gallons for contract users, \$0.80 per thousand gallons for rural users, \$3.00 per thousand gallons for SWA's Dickinson Water Depot and \$4.00 per thousand gallons for other oil industry contracts.

Mary Masad, Manager/CEO of SWA, and Gary Zuroff, Dickinson Public Works Superintendent, provided history and information on rate increases as well as sales of industrial water.

It was moved by Commissioner Goehring and seconded by Commissioner McDonald that the State Water Commission establish the 2019 Capital Repayment for contract and rural customers in the amount of \$1.21 per thousand gallons for contract users; \$29.28 for rural users in Morton County with water service from Missouri West Water System; and, \$36.97 per month for other rural users. Capital Repayment for oil industry contracts in the amount of \$3.00 for Dickinson Water Depot, and \$4.00 for other oil industry contracts.

REM Rates are approved in the amount of \$0.70 per thousand gallons for the contract users; \$0.80 per thousand gallons for rural users; \$3.00 per thousand gallons for the SWA's Dickinson Water Depot; and, \$4.00 per thousand gallons for other oil industry contracts.

Commissioners Andersen, Anderson, Johnson, McDonald, Owan, Pedersen, Zimmerman, Goehring, and Governor Burgum voted aye. There were no nay votes. Governor Burgum announced the motion unanimously carried.

Project Update

Sindhuja S.Pillai-Grinolds, SWPP Project Manager, provided a project update, attached as **APPENDIX H**.

Sindhuja informed the Commission that there had been a few inquiries on the RFP for the transfer of ownership of SWPP and funding models, but no proposals were received. After discussion, it was determined that the Finance, Planning, and Budget Subcommittee should coordinate with State Water Commission staff to complete the selection process when written submittals are received.

ND DRINKING WATER STATE REVOLVING LOAN FUND – 2019 INTENDED USE PLAN:

An update of the ND Drinking Water State Revolving Loan Fund was presented by Shannon Fisher, Program Manager, ND Department of Health (Department). A complete memorandum and 2019 Intended Use Plan are attached as **APPENDIX I**.

The United States Congress authorized the Drinking Water State Revolving Loan Fund (DWSRF) under the 1996 Safe Drinking Water Act Amendments with the intention of assisting public water systems in complying with the act. Funding is in the form of a loan program administered by the Environmental Protection Agency through the Department. The Department prepared the 2019 Intended Use Plan, which contains the Comprehensive Project Priority List and the Fundable List. The plan was available to the public for review and comment, with a public hearing held on November 8 and comments accepted until November 16.

In accordance with NDCC Chapter 61-28.1, the Department must administer and disburse DWSRF funds with the approval of the State Water Commission. Also, the Department must establish assistance priorities and expend grant funds pursuant to the priority list for the DWSRF, after consulting with and obtaining the approval of the State Water Commission.

The process of prioritizing new or modified projects is completed on an annual basis. The list includes 260 projects, with a cumulative total project cost of \$639.3 million. Available funding for the DWSRF program for 2019 is anticipated to be approximately \$15.4 million with six projects receiving funds. Depending on loan demand, the DWSRF program may be able to fund additional projects by issuing bonds and transferring funds between the DWSRF program and the Clean Water State Revolving Loan Fund program. The present loan interest rate for eligible public water systems that qualify for tax-exempt financing is 2 percent. The present loan interest rate for eligible public water systems that do not qualify for tax-exempt financing is 3 percent. All loans include a 0.5 percent administration fee. The repayment period for DWSRF loans is 20 years with the option for extended term financing beyond the base 20-year loan repayment period. Extended term financing allows for repayment periods to be 30 years or the useful life of the project, whichever is less.

Following Commission approval of the 2019 Comprehensive Project Priority List and Fundable List, the Department will apply for the Environmental Protection Agency program. Commission approval will enable the Department to proceed with disbursement of funds once the Environmental Protection Agency has approved the capitalization grant. The Department intends to disburse DWSRF funds according to the fundable list.

Secretary Erbele recommended the State Water Commission approve the Comprehensive Project Priority List and the Fundable List, and authorize the Department to administer the 2019 Intended Use Plan for the Drinking Water State Revolving Loan Fund. This approval is subject to the entire contents contained herein.

It was moved by Commissioner McDonald and seconded by Commissioner Zimmerman that the State Water Commission approve the Comprehensive Project Priority List and the Fundable List, and authorize the Department to administer the 2019 Intended Use Plan for the DWSRF. This action is subject to the entire contents contained herein.

Commissioners Andersen, Anderson, Johnson, McDonald, Owan, Pedersen, Zimmerman, and Governor Burgum voted aye. There were no nay votes. Commissioner Goehring was absent for the vote. Governor Burgum announced the motion unanimously carried.

2019-2021 AGENCY STRATEGIC PLAN:

Pat Fridgen, Director of Planning and Education, gave an overview of the final 2019-2021 Agency Strategic Plan. State Water Commission staff re-evaluated the strategic planning process and identified the highest priorities of each division. Using that information, the agency then developed new goals for the State Water Commission, and strategic initiatives to accomplish those goals. The new plan contains a more direct and concise approach to strategic planning, and clearly articulates the agency's priorities. The plan is a biennial publication which also contains summaries of key State Water Commission projects and programs, including action plans and tasks.

Pat was asked to clarify the difference between the Agency Strategic Plan and the State Water Development Plan. The Agency Strategic Plan is the State Water Commission's internal plan and direction on how the agency needs to move forward to provide better services to project sponsors and the citizens of North Dakota. The State Water Development Plan is the State Water Commission's overall plan on how to address the water development needs throughout the state and contains the 2019-2021 funding requests and recommendations of the State Water Commission. Governor Burgum

requested the tribal section in the Agency Strategic Plan be expanded for the next biennium.

It was requested the final plan be approved and presented in January 2019 during Legislative Session. Approximately 300 hard copies will be printed and the plan will be available on the State Water Commission website.

It was moved by Commissioner Goehring and seconded by Commissioner Johnson that the State Water Commission approve the final 2019-2021 Agency Strategic Plan for publication and presentation during the 2019 Legislative Session.

Commissioners Andersen, Anderson, Johnson, McDonald, Owan, Pedersen, Zimmerman, and Governor Burgum voted aye. There were no nay votes. Governor Burgum announced the motion unanimously carried.

2019 STATE WATER DEVELOPMENT PLAN:

An update to the 2019 State Water Development Plan (Plan) was presented by Pat Fridgen.

The Commission is required to develop and maintain a comprehensive water development plan on a biennial basis. In compliance with this requirement, the Planning and Education Division developed the 2019-2021 State Water Development Plan. Requests were sent in February 2018 to potential project sponsors to identify water development projects, plans for implementation, and estimated costs. The input from local project sponsors and water managers was the foundation of the State Water Commission's budget request to the Governor and will be presented during Legislative Session.

The State Water Commission staff also worked with the ND League of Cities and ND Rural Water Systems Association to determine the extent of aging infrastructure in rural and municipal waters supply systems throughout the state.

The State Water Commission was also required to schedule commissioner-hosted meetings within seven major drainage basins. The meetings were held in the upper and lower Red, James, Mouse, upper and lower Missouri, and Devils Lake basins. The purpose of these meetings was to promote and encourage local project sponsor participation in the water planning process and in the agency's project development efforts.

The specific focus of commissioner-hosted meetings was to: 1) review potential projects identified by local sponsors that were proposed for implementation in the 2019-2021 biennium and beyond; 2) present and collect additional input related to the agency's economic analysis and life cycle cost analysis processes; and 3) outline changes to the agency's cost-share and project prioritization policies.

After lengthy discussion regarding the budget process and how final project funding recommendation numbers were determined, Governor Burgum suggested that the process be reevaluated for future budget-development efforts. This would include how the State Water Commission's funding recommendations for future biennia are established and presented.

It was requested the final plan be approved and presented in January 2019 during Legislative Session.

It was moved by Commissioner Goehring and seconded by Commissioner Pedersen that the State Water Commission approve the final 2019 State Water Development Plan for publication and presentation during the 2019 Legislative Session.

Commissioners Anderson, Johnson, McDonald, Pedersen, Zimmerman, and Governor Burgum voted aye. Commissioners Andersen and Owan voted nay. Governor Burgum announced the motion carried.

ADVISORY STATEMENT FROM LITTLE MISSOURI RIVER COMMISSION:

Governor Burgum directed the Office of the State Engineer and the Water Appropriations Division develop a policy for the issuance of temporary industrial water-depot permits in the Little Missouri River Basin. This directive was issued after passage of Section 22 of HB1020 during the Sixty-fifth Legislative Assembly that allowed for temporary industrial use permits from the Little Missouri River. An interim policy was initially issued by the State Engineer on May 5, 2017, and revised by the State Water Commission in June 2017. The State Engineer was instructed to consult and be advised by the Little Missouri River Commission (LMRC) before the policy was formally adopted. The revised interim policy was presented to the LMRC in October 2017. Extensive discussion occurred before being tabled. The topic was again discussed in August 2018 where the following motion was passed on 6-1-1 vote:

The motion is the Little Missouri Scenic River Commission supports the State Water Commission's proposed policy to include that reasonable precaution shall be taken to

minimize the visual and audible disruptions to the scenic Little Missouri River Valley. Pumps and motors shall be set back from the shoreline a sufficient distance to ensure any fluids or oils that may leak will be contained before they have a chance to enter the stream. Portable containment for pump and motor fluid leakage may be required upon order of the state engineer.

During the 2018 field season, the Water Appropriations Division undertook an intensive monitoring effort of the Little Missouri River between Medora and the Long-X bridge with the installation of 5 PRESENS real-time monitoring devices. The LMRC requested that the Water Appropriations Division expand the monitoring effort with additional monitoring devices in the reach of the Little Missouri River downstream of the Long-X bridge up to the Highway 22 crossing north of Killdeer.

The Water Appropriations Division plans to establish three to five additional sites along the Little Missouri River and continue the existing locations between Medora and Long-X next season. Several locations have been identified and landowner approval has been given.

It was recommended the State Water Commission adopt the policy as written and attached as **APPENDIX J** for issuing temporary industrial water permits in the Little Missouri River Basin.

It was moved by Commissioner Owan and seconded by Commissioner Zimmerman that the State Water Commission adopt the policy as written and attached as Appendix J for issuing temporary industrial water permits in the Little Missouri River Basin.

Commissioners Andersen, Anderson, Johnson, McDonald, Owan, Pedersen, Zimmerman, and Governor Burgum voted aye. There were no nay votes. Governor Burgum announced the motion unanimously carried.

RED RIVER VALLEY WATER SUPPLY PROJECT:

Duane DeKrey, General Manager, Garrison Diversion Conservancy District, and Fargo Mayor, Dr. Tim Mahoney, provided an update on the status of the Red River Valley Water Supply project. A summary of the update is attached as **APPENDIX K**.

There was discussion regarding Mayor Mahoney's recent meeting with Missouri and the ongoing efforts for continuing dialogue with Missouri and Manitoba.

FM AREA DIVERSION PROJECT UPDATE:

Cass County Commissioner, Mary Scherling, and Fargo Mayor, Dr. Tim Mahoney, provided an update on the status of the FM Area Diversion project. A summary of the update is attached as **APPENDIX L**.

An additional \$300 million funding request will be presented at the February 2019 State Water Commission meeting. The permit needed from MNDNR is expected to be issued by the end of the year.

PROJECT UPDATES AND ROUNDTABLE UPDATES WITH COMMISSIONERS:

Because Commissioner Goehring and Governor Burgum were under time constraints, the project updates and roundtable discussions with Commissioners were tabled until the February 2019 meeting.

EXECUTIVE SESSION UNDER AUTHORITY OF NDCC § 44-04-19.1(9) FOR ATTORNEY CLIENT CONSULTATION REGARDING DEVILS LAKE WEST END OUTLET SETTLEMENT:

It was the recommendation of Governor Burgum, Chairman, that the discussion relating to the Devils Lake West End Outlet settlement be held in executive session, under the provisions of NDCC § 44-04-19.1(9), for the purpose of attorney consultation. The State Water Commission invited the following to participate in the executive session:

STATE WATER COMMISSION MEMBERS:

Governor Burgum, Chairman (left at 12:40 p.m.)
Doug Goehring, Commissioner, ND Department of Agriculture (left at 12:40 p.m.)
Katie Andersen, Jamestown
Michael Anderson, Hillsboro
Richard Johnson, Devils Lake (left at 1:07 p.m.)
Leander McDonald, Bismarck (left at 1:30 p.m.)
Mark Owan, Williston
Matthew Pedersen, Valley City
Jason Zimmerman, Minot

OTHERS:

Lt. Governor Sanford
Garland Erbele, State Engineer, and Chief Engineer-Secretary, State Water Commission
State Water Commission Staff: Craig Odenbach, John Paczkowski, David Laschkewitsch, Jon Kelsch, Tim Dodd, Braden Rambo, and Cheryl Fitzgerald
Jennifer Verleger, General Counsel, Attorney General's Office

Leslie Bakken-Oliver, General Counsel, Governor's Office
Jessie Pfaff, Policy Advisor, ND Department of Agriculture

It was moved by Commissioner Goehring and seconded by Commissioner Johnson that under the provision of NDCC § 44-04-19.1(9), the State Water Commission proceed into executive session on December 7, 2018, at 12:18 p.m., for the purpose of attorney consultation relating to the Devils Lake West End Outlet settlement.

Commissioners Andersen, Anderson, Johnson, McDonald, Owan, Pedersen, Zimmerman, Goehring, and Governor Burgum voted aye. There were no nay votes. Governor Burgum announced the motion unanimously carried.

Following attorney consultation regarding the Devils Lake West End Outlet settlement, Lt. Governor Sanford reconvened the open session of the State Water Commission meeting on December 7, 2018, at 1:34 p.m. Instruction was given to State Water Commission attorney to continue the process of mediation.

There being no further business to come before the State Water Commission, Lt. Governor Sanford adjourned the December 7, 2018, meeting at 1:37 p.m.



Doug Burgum, Governor
Chairman, State Water Commission

Garland Erbele, P.E.
North Dakota State Engineer,
and Chief Engineer-Secretary
to the State Water Commission

**STATE WATER COMMISSION
PROJECT SUMMARY
2017-2019 BIENNIUM**

				<i>Oct-18</i>	
	2015-2017 CARRYOVER	2017-2019 FUNDING	2017-2019 BUDGET	SWC/SE APPROVED	REMAINING UNOBLIGATED
MUNICIPAL & REGIONAL WATER SUPPLY:					
MUNICIPAL WATER SUPPLY	54,802,659	40,419,203	95,221,862	95,221,862	0
RED RIVER VALLEY	0	30,000,000	30,000,000	17,000,000	13,000,000
OTHER REGIONAL WATER SUPPLY	60,241,296	48,161,581	108,402,877	108,402,877	0
UNOBLIGATED MUNICIPAL/REG WATER SUPPLY		1,544,216	1,544,216		1,544,216
% OBLIGATED		87.89%			
RURAL WATER SUPPLY:					
RURAL WATER SUPPLY	41,195,208	26,902,317	68,097,524	68,097,524	0
UNOBLIGATED RURAL WATER SUPPLY		552,090	552,090		552,090
% OBLIGATED		97.99%			
FLOOD CONTROL:					
FARGO	78,376,087	66,500,000	144,876,087	78,376,087	66,500,000
MOUSE RIVER	28,819,192	58,144,726	86,963,918	86,963,918	0
VALLEY CITY	13,693,459	2,700,354	16,393,813	16,393,813	0
LISBON	9,000,010	0	9,000,010	9,000,010	0
OTHER FLOOD CONTROL	36,063,386	948,542	37,011,928	37,011,928	0
PROPERTY ACQUISITIONS	16,849,083	7,408,241	24,257,324	24,257,324	0
WATER CONVEYANCE	19,914,006	(849,438)	19,064,568	19,064,568	0
UNOBLIGATED FLOOD CONTROL		1,147,574	1,147,574		1,147,574
% OBLIGATED		50.26%			
GENERAL WATER:					
GENERAL WATER	17,255,761	8,256,126	25,511,886	25,511,886	0
UNOBLIGATED GENERAL WATER		7,497,750	7,497,750		7,497,750
% OBLIGATED		52.41%			
REVOLVING LOAN FUND:					
GENERAL WATER PROJECTS	4,681,900	900,000	5,581,900	5,581,900	0
WATER SUPPLY	354,000	0	354,000	354,000	0
% OBLIGATED		100.00%			
TOTALS	381,246,045	300,233,286	681,479,327	591,237,697	90,241,630

**STATE WATER COMMISSION
PROJECT SUMMARY
2017-2019 BIENNIUM**

	SWC/SE APPROVED	EXPENDITURES	REMAINING UNPAID
			<i>Oct-18</i>
MUNICIPAL & REGIONAL WATER SUPPLY:			
MUNICIPAL WATER SUPPLY	95,221,862	29,972,795	65,249,067
RED RIVER VALLEY	17,000,000	8,000,000	9,000,000
OTHER REGIONAL WATER SUPPLY	108,402,877	47,924,309	60,478,569
RURAL WATER SUPPLY:			
RURAL WATER SUPPLY	68,097,524	32,558,744	35,538,780
FLOOD CONTROL:			
FARGO	78,376,087	21,468,431	56,907,656
MOUSE RIVER	86,963,918	24,516,898	62,447,020
VALLEY CITY	16,393,813	8,090,691	8,303,122
LISBON	9,000,010	5,968,444	3,031,566
OTHER FLOOD CONTROL	37,011,928	15,781,459	21,230,469
PROPERTY ACQUISITIONS	24,257,324	21,296,911	2,960,413
WATER CONVEYANCE	19,064,568	7,015,377	12,049,191
GENERAL WATER:			
GENERAL WATER	25,511,886	10,253,639	15,258,247
REVOLVING LOAN FUND:			
GENERAL WATER PROJECTS	5,581,900	5,581,900	0
WATER SUPPLY	354,000	354,000	0
TOTALS	591,237,697	238,783,597	352,454,099
	591,237,697	238,783,597	352,454,099

**STATE WATER COMMISSION
PROJECT SUMMARY
2017-2019 Biennium**

WATER SUPPLY

Approved SWC					Approved	Total	Total	Oct-18
By	No	Dept	Sponsor	Project	Date	Approved	Payments	Balance
Municipal Water Supply:								
	2050-13	5000	Mandan	New Raw Water Intake	10/7/2013	1,515,672	117,447	1,398,225
	2050-15	5000	Washburn	New Raw Water Intake	10/7/2013	2,281,927	140,716	2,141,211
	2050-18	5000	Grafton	Water Treatment Plant Phase 3	10/7/2013	48,822	48,822	(0)
	2050-20	5000	Dickinson	Capital Infrastructure	10/6/2015	1,731,926	0	1,731,926
	2050-21	5000	Watford City	Capital Infrastructure	8/1/2015	536,627	13,873	522,754
	2050-26	5000	Fargo	Fargo Water System Regionalization Improvements	7/29/2015	4,131,788	1,254,302	2,877,486
	2050-28	5000	Mandan	Water Systems Improvement Project	10/6/2015	2,005,765	1,641,484	364,281
	2050-29	5000	Minot	Water Systems Improvement Project	10/6/2015	3,478,647	2,567,684	910,963
	2050-30	5000	Watford City	Water Systems Improvement Project	10/6/2015	5,374,639	548,390	4,826,249
	2050-31	5000	West Fargo	Water Systems Improvement Project	10/6/2015	392,388	392,388	0
	2050-32	5000	Williston	Water Systems Improvement Project	10/6/2015	7,857,010	0	7,857,010
	2050-36	5000	Dickinson	Water Systems Improvement Project	10/6/2015	0	0	0
	2050-37	5000	Dickinson	Dickinson State Avenue South Water Main	12/11/2015	963,920	0	963,920
	2050-44	5000	Beulah	Water Treatment Plant	3/9/2016	1,639,813	1,639,813	0
	2050-49	5000	Grand Forks	Grand Forks Water Treatment Plant	8/23/2017	50,645,520	21,050,576	29,594,943
	2050-51	5000	Mercer	Connect to McLean-Sheridan	8/23/2017	0	0	0
	2050-52	5000	New Town	Water Transmission Storage	10/11/2018	1,940,000	66,273	1,873,728
	2050-53	5000	West Fargo	Brooks Harbor Water Tower	8/23/2017	1,950,000	0	1,950,000
	2050-54	5000	West Fargo	North Loop Connection	8/23/2017	510,000	0	510,000
	2050-55	5000	West Fargo	West Loop Connection	8/23/2017	1,110,000	0	1,110,000
	2050-56	5000	Williston	US Highway 2 Water Main	8/23/2017	434,400	419,029	15,371
	2050-66	5000	Lincoln	Lincoln Water System Improvement Project	2/8/2018	1,130,000	0	1,130,000
	2050-67	5000	Williston	Williston Water System Improvements	2/8/2018	2,336,000	0	2,336,000
	2050-69	5000	Mandan	Sunset Reservoir Water Transmission Line	4/12/2018	3,135,000	0	3,135,000
	2050-70	5000	Wing	Water Tower Repair	4/12/2018	72,000	72,000	0
TOTAL MUNICIPAL WATER SUPPLY						95,221,862	29,972,795	65,249,067
Regional Water Supply:								
	1736-05	8000	SWPP	Southwest Pipeline Project	7/1/2017	52,249,989	27,835,129	24,414,860
	2374	9000	NAWS	Northwest Area Water Supply	2/8/2018	27,108,462	3,358,263	23,750,199
HB 1020	1973-02	5000	WAWSA	WAWSA	9/15/2014	155,603	155,603	(0)
	1973-05	5000	WAWSA	WAWSA	10/6/2015	8,888,823	5,651,927	3,236,896
	1973-06	5000	WAWSA	WAWSA	12/8/2017	20,000,000	10,923,386	9,076,614
	325-105	5000	RRVWSP	RRVWSP Garrison Diversion	8/23/2017	17,000,000	8,000,000	9,000,000
TOTAL REGIONAL WATER SUPPLY						125,402,877	55,924,309	69,478,569
Rural Water Supply:								
	2050-17	5000	Barnes Rural RWD	Improvements	3/11/2015	1,096,634	1,096,634	0
	2050-23	5000	Greater Ramsey WRD	SW Nelson County Expansion	8/23/2017	1,364,794	624,103	740,690
	2050-25	5000	All Seasons Water District	Bottineau County Extension, Phase I	7/29/2015	299,358	0	299,358
	2050-33	5000	Stutsman RWD	Phase V Storage & Pipeline Expansion Project	10/6/2015	1,172,760	1,172,760	0
	2050-34	5000	North Prairie RWD	Storage and Water Main	10/6/2015	1,968,086	872,554	1,095,532
	2050-35	5000	Southeast Water Users Dist	System Wide Expansion Feasibility Study	8/23/2017	13,159,145	7,812,225	5,346,920
	2050-38	5000	Dakota Rural Water District	Reservoir C Expansion	12/11/2015	52,601	52,601	0
	2050-41	5000	Northeast Regional WD	City of Devils Lake Water Supply Project	12/11/2015	12,789,020	12,033,613	755,406
	2050-42	5000	Walsh RWD	Phase 1 & 2 System Expansion	12/11/2015	1,639,753	1,243,606	396,147
	2050-43	5000	All Seasons Water District	System 4 Connection to System 1	12/11/2015	4,900,000	0	4,900,000
	2050-45	5000	Garrison Rural Water District	System Expansion Project	3/9/2016	1,271,241	1,271,241	0
	2050-50	5000	Grand Forks Traill RWD	Eastern Expansion & TRWD Interconnect Feasibility	8/23/2017	126,000	126,000	0
	2373-39	5000	North Central Rural Water Consortium	Carpio Berthold Phase 2	4/1/2015	2,425,167	1,088,455	1,336,712
	2373-41	5000	North Central Rural Water Consortium	Granville-Deering Area	10/24/2016	1,831,540	1,351,144	480,396
	2050-57	5000	North Central Regional Water District	Mountrail Expansion Phase II	8/23/2017	3,086,000	16,258	3,069,743
	2050-58	5000	North Central Regional Water District	Mountrail Co. Watery Phase III	8/23/2017	3,430,000	0	3,430,000
	2050-59	5000	Cass Rural Water District	Horace Storage Tank	10/11/2018	1,846,000	0	1,846,000
	2050-60	5000	North Prairie Rural District	Reservoir 9 Water Supply	6/12/2018	1,114,620	22,494	1,092,126
	2050-61	5000	North Prairie Rural District	Surrey/Silver Spring	6/12/2018	107,430	82,379	25,051
	2050-62	5000	Traill Rural District	Expansion/Interconnect	8/23/2017	150,880	150,880	0
	2050-63	5000	Walsh RWD	System Expansion Project	4/12/2018	1,300,000	395,066	904,934
	2050-64	5000	McLean-Sheridan Water District	Turtle Lake Water Tower	8/9/2018	2,378,450	113,589	2,264,861
	2050-65	5000	Tri-County Rural Water District	System Expansion Project	8/9/2018	2,803,250	35,000	2,768,250
	2050-71	5000	East Central RWD	Grand Forks/Traill Project	8/9/2018	5,577,795	2,998,142	2,579,653
	2050-72	5000	Stutsman RWD	Phase 6 Pettibone Project	4/12/2018	2,100,000	0	2,100,000
	2050-73	5000	Northeast Regional WD	Master Plan	10/11/2018	107,000	0	107,000
TOTAL RURAL WATER SUPPLY						68,097,524	32,558,744	35,538,780
TOTAL						288,722,263	118,455,848	170,266,415

SWC Board Approved to Continue

**STATE WATER COMMISSION
PROJECT SUMMARY
2017-2019 Biennium**

FLOOD CONTROL

					Oct-18			
Approved SWC By	No	Dept	Sponsor	Project	Approved Date	Total Approved	Total Payments	Balance
Flood Control:								
SB 2020	1928-01	5000	Fargo	Fargo Flood Control Project	4/19/2016	20,001,131	20,001,131	0
SB 2020	1928-05	5000	Fargo	Fargo Metro Flood Diversion Authority 2015-2017	7/6/2016	58,374,956	1,467,300	56,907,656
	1771-01	5000	Grafton	Grafton Flood Control Project	10/12/2016	32,175,000	14,469,429	17,705,571
	1974-06	5000	Souris River Joint WRD	Development of 2011 Flood Inundation Maps	12/18/2015	1,522	0	1,522
	1974-09	5000	Souris River Joint WRD	Mouse River Flood Control Design Engineering	4/12/2018	276,696	276,696	(0)
	1974-11	5000	Souris River Joint WRD	Funding of 214 agreement between SRJB & USACE	12/5/2014	31,500	0	31,500
	1974-12	5000	Souris River Joint WRD	Maple Diversion Design MI-4	4/12/2018	1,345,000	128,626	1,216,374
	1974-14	5000	Souris River Joint WRD	StARR Program (Structure Acquisition, Relocation, or Ring Dike)	3/9/2016	5,895,975	3,670,283	2,225,692
	1974-13	5000	Souris River Joint WRD	Tierrecita Viljejo Levee Design	4/12/2018	1,170,000	11,257	1,158,743
	1974-15	5000	Souris River Joint WRD	Perketti Ditch Improvements	12/2/2016	404,593	274,341	130,252
	1974-16	5000	Souris River Joint WRD	Corps of Engineers Feasibility Study MREFFP	4/12/2018	505,546	443,323	62,223
	1974-18	5000	Souris River Joint WRD	Rural Reaches, Preliminary Engineering	10/12/2016	236,941	12,441	224,500
	1974-19	5000	Souris River Joint WRD	4th Avenue Tieback Levee & Burlington Levee - Design Engineering	4/12/2018	2,854,240	1,948,023	906,217
	1974-20	5000	Souris River Joint WRD	Utility Relocations	10/12/2016	422,034	18,750	403,284
	1974-21	5000	Souris River Joint WRD	Highway 83 Bypass & Bridge Replacement	10/12/2016	1,983,623	533,733	1,449,890
	1974-22	5000	Souris River Joint WRD	Broadway Pump Station Phases MI-1	3/29/2017	35,271,200	6,239,867	29,031,333
	1974-23	5000	Souris River Joint WRD	Peterson Coulee Outlet	3/29/2017	1,427,022	0	1,427,022
	1974-25	5000	Souris River Joint WRD	Flood Specific Emergency Action Plan for Ward Co.	7/20/2017	182,000	0	182,000
	1974-26	5000	Souris River Joint WRD	Phases MI-2, MI-3 Construction	8/23/2017	29,348,843	10,780,522	18,568,321
	1974-27	5000	Souris River Joint WRD	Corps of Engineers Section 408 Review Through Section 2145	8/23/2017	74,750	74,750	0
	1974-30	5000	Souris River Joint WRD	Mouse River Park Bridge Design	4/12/2018	390,000	0	390,000
	1974-31	5000	Souris River Joint WRD	Sawyer Bridge Design Project	4/12/2018	260,000	0	260,000
	1974-32	5000	Souris River Joint WRD	Velva Bridge Design Project	4/12/2018	260,000	0	260,000
	1974	5000	Souris River Joint WRD	Phases MI-2, MI-3 Reallocation	4/12/2018	3,932,500	0	3,932,500
	36063386	5000	City of Minot	SWIF Outfall Pipe Rehabilitation Project	10/11/2018	387,433	0	387,433
	2122	5000	US Army Corps of Engineers	Development of Comprehensive Plan for Souris Basin	9/5/2017	302,500	104,266	198,214
	1344-04	5000	Valley City	Sheyenne River Valley Flood Control Project PHII	8/29/2016	58,414	38,278	20,136
	1504-01	5000	Valley City	Permanent Flood Protection Project	5/1/2015	477,445	422,018	55,427
SB 2371	1504-03	5000	Valley City	Permanent Flood Protection PH III	12/9/2016	13,157,600	7,358,526	5,799,074
	1504-06	5000	Valley City	Permanent Flood Protection PH III & PH V	12/8/2017	914,175	271,868	642,307
	1504-07	5000	Valley City	Permanent Flood Protection PH III Construction	10/11/2018	1,786,179	0	1,786,179
	1344-02	5000	Lisbon	Sheyenne River Valley Flood Control Project	8/8/2016	1,000,582	896,611	103,971
	1991-01	5000	Lisbon	Permanent Flood Protection Project	5/29/2014	146,969	0	146,969
	1991-03	5000	Lisbon	Permanent Flood Protection - Levee C Project	3/11/2015	377,799	6,989	370,810
	1991-06	5000	Lisbon	Permanent Flood Protection - Levee E Project	3/9/2016	84,125	52,000	32,125
	1991-08	5000	Lisbon	Permanent Flood Protection - Levee D Project	4/12/2018	2,888,535	2,639,562	246,973
	1991-10	5000	Lisbon	Permanent Flood Protection - Levee F Project	4/12/2018	4,504,000	2,373,263	2,130,717
	2079-01	5000	Williston	West Williston Flood Control	12/9/2016	3,655,517	807,820	2,847,697
	2131	5000	Lower Heart River WRD	Flood Risk Reduction Project	6/14/2018	280,000	0	280,000
	2008	5000	City of Mapieton	Recertification of Flood Control Levee System Project	4/12/2018	314,770	314,770	0
	2111	5000	Maple River WRD	Davenport Flood Risk Reduction	7/20/2017	35,000	34,999	1
	2118	5000	Cass Count Joint WRD	Sheldon Subdivision Levee	10/11/2018	370,200	0	370,200
	2124	5000	City of Belfield	Heart River & Tributaries Flood Control Study	11/6/2018	27,000	0	27,000
	620	5000	Lower Heart WRD	Mandan Flood Control Protective Works (Levee)	6/22/2017	14,855	14,855	0
	1932	5000	Nelson Co. WRD	Michigan Spillway Rural Flood Assessment	3/9/2016	67,903	67,903	0
	1705	5000	Red River Joint Water Resource District	Red River Joint WRD Watershed Feasibility Study - Phase 2	9/21/2011	0	0	0
	2073	5000	Walsh Co. WRD	Oslo Area Ag Levee Feasibility Study	7/6/2016	71,683	71,683	0
Subtotal Flood Control						227,745,755	75,825,922	151,919,833
Floodway Property Acquisitions:								
	1993-05	5000	Minot	Minot Phase - Floodway Acquisitions	4/12/2018	14,093,720	13,136,938	956,782
SB 2371	1523-05	5000	Ward County/Minot	Ward County - Floodway Acquisitions	1/27/2012	6,015,347	5,590,605	424,742
SB 2371	1504-05	5000	Valley City	Valley City - Floodway Acquisitions	12/8/2017	3,406,947	2,027,831	1,379,116
SB 2371	2000-05	5000	Sawyer	Sawyer Phase - Floodway Acquisitions	6/13/2012	135,844	0	135,844
	1991-05	5000	Lisbon	Lisbon - Floodway Acquisition	12/9/2016	603,300	539,371	63,929
	1987-05	5000	Burlington	Mouse River Enhanced Flood Plan Property Acquisition	5/10/2017	2,166	2,166	0
Subtotal Floodway Property Acquisitions						24,257,324	21,296,911	2,960,413
TOTAL FLOOD CONTROL						252,003,079	97,122,833	154,880,246
Revolving Loan Fund:								
(General Water)								
	2077-16	1050	Valley City	Valley City Flood Protection - Phase II Construction (LOAN)	12/9/2016	3,289,400	3,289,400	0
	2077-15	1050	Valley City	Valley City Pre Design & Eng & Phase III Buyouts (LOAN)	12/9/2016	1,392,500	1,392,500	0
	2077-14	1050	Lisbon	Permanent Flood Control	8/23/2017	900,000	900,000	0
(Water Supply)								
	2077-13	1050	North Central Rural Water Consortium II	Carpio Berhold Phase 2 (LOAN)	10/12/2016	215,000	215,000	0
	2077-12	1050	North Central Rural Water Consortium	Granville-Surrey-Deering Water Supply Project (LOAN)	10/12/2016	139,000	139,000	0
REVOLVING LOAN TOTAL						5,935,900	5,935,900	0
TOTAL						257,938,979	103,058,733	154,880,246

SWC Board Approved to Continue

STATE WATER COMMISSION
PROJECT SUMMARY
2017-2019 Biennium
Resources Trust Fund

WATER CONVEYANCE

Approved SWC By	No	Dept	Approved Biennium	Sponsor	Project	Approved Date	Total Approved	Total Payments	Oct-18 Balance
Drain & Channel Improvement Projects:									
SE	1056	2000	2015-17	Bottineau Co. WRD	Stead Legal Drain	2/16/2017	14,738	11,670	3,068
SE	1059	5000	2017-19	Bottineau Co WRD	Baumann Legal Drain	3/7/2018	41,427	0	41,427
SWC	1070	5000	2015-17	Maple River WRD	Drain #14 Channel Improvements	3/29/2017	741,562	136,576	604,986
SWC	1071	5000	2015-17	Maple River WRD	Cass County Drain #15 Channel Improvements	3/9/2016	282,561	179,516	103,045
SWC	1088	5000	2015-17	Maple River WRD	Cass Drain #37 Channel Improvements	3/9/2016	215,157	77,902	137,255
SWC	1089	5000	2015-17	Maple River WRD	Cass County Drain #39 Channel Improvements	3/9/2016	210,568	89,616	120,952
SE	1180	5000	2015-17	Richland Co WRD	Legal Drain No. 7 Channel Improvements	5/11/2017	24,926	19,158	5,768
SWC	1101	5000	2011-13	Dickey Co. WRD	Yorktown-Maple Drainage Improvement Dist No. 3	11/1/2017	798,562	356,270	442,292
SE	1140	5000	2015-17	Pembina Co. WRD	Drain 11 Outlet Extension Cost Overrun Project	7/7/2015	5,088	0	5,088
SWC	1222	5000	2015-17	Sargent Co WRD	Drain No 11 Channel Improvements	10/12/2016	1,378,376	0	1,378,376
SWC	1236	5000	2015-17	Traill Co. WRD	Murray Drain No. 17 Channel Improvements	10/12/2016	127,759	100,838	26,921
SWC	1311	5000	2015-17	Traill Co. WRD	Buxton Township Improvement District No. 68	3/9/2016	110,418	81,285	29,133
SWC	1314	5000	2015-17	Wells Co. WRD	Hurdsfield Legal Drain	3/29/2017	644,292	0	644,292
SWC	1331	5000	2015-17	Richland Co WRD	Drain #14 Reconstruction	12/9/2016	252,738	179,852	72,886
SWC	1486	5000	2015-17	Griggs Co. WRD	Thompson Bridge Outlet No. 4 Project	10/6/2015	621,661	0	621,661
SWC	1520	5000	2015-17	Walsh Co. WRD	Walsh County Drain 30-1	3/29/2017	282,307	175,589	106,718
SWC	1520	5000	2017-19	Walsh Co. WRD	Walsh County Drain 30-2	10/11/2018	328,042	0	328,042
SWC	1951	5000	2015-17	Maple River WRD	Lynchburg Channel Improvements	7/6/2016	1,131,338	0	1,131,338
SWC	1951	5000	2015-17	Maple River WRD	Lynchburg Channel Improvements	7/6/2016	23,412	2,829	20,583
SWC	1975	5000	2015-17	Walsh Co. WRD	Drain 31-1	10/12/2016	111,543	94,533	17,010
SWC	1978	5000	2015-17	Richland-Sargent Joint WRD	RS Legal Drain #1 Extension & Channel Improvement	3/29/2017	378,000	125,170	252,830
SWC	1990	5000	2011-13	Mercer Co. WRD	Lake Shore Estates High Flow Diversion Project	3/7/2012	43,821	0	43,821
SE	2016	5000	2015-17	Pembina Co. WRD	Establishment of Pembina County Drain No. 80	4/10/2017	74,965	39,404	35,561
SWC	2049	5000	2015-17	Grand Forks Co. WRD	Grand Forks Legal Drain No. 58	3/29/2017	1,481,850	0	1,481,850
SWC	2068	5000	2015-17	Traill Co. WRD	Stavanger-Belmont Drain No. 52 Channel Impr	10/12/2016	414,652	294,513	120,139
SWC	2080	5000	2015-17	Walsh Co. WRD	Sam Berg Coulee Drain	10/12/2016	182,775	86,233	96,542
SWC	2081	5000	2015-17	Walsh Co. WRD	Drain #70	10/12/2016	562,429	474,246	88,183
SWC	2087	5000	2015-17	Walsh Co. WRD	Drain #87/McLeod Drain	3/29/2017	5,273,586	1,557,902	3,715,684
SWC	2088	5000	2015-17	Pembina Co. WRD	Drain No. 79	12/9/2016	875,428	791,026	84,402
SWC	2108	5000	2015-17	Walsh Co. WRD	Walsh Co Drain #22	6/22/2017	266,086	153,673	112,413
SE	2112	5000	2017-19	Pembina Co. WRD	Pembina Co Drain #81	7/30/2017	56,000	0	56,000
SE	2093/1427	5000	2015-17	Bottineau Co. WRD	Moen Legal Drain	9/6/2016	18,542	1,130	17,412
Snagging & Clearing Projects:									
SE	662	5000	2015-17	Walsh Co. WRD	Park River Snagging & Clearing	2/17/2017	51,435	28,320	23,115
SE	1934	5000	2015-17	Traill Co. WRD	Elm River Snagging & Clearing	6/21/2017	47,500	19,803	27,697
SE	2095	5000	2015-17	Nelson Co WRD	Sheyenne River Snagging & Clearing	4/10/2017	19,700	0	19,700
SE	2110	5000	2015-17	Ward Co. WRD	Meadowbrook Snagging & Clearing	6/21/2017	33,000	0	33,000
TOTAL							17,126,244	5,077,053	12,049,191
SWC Board Approved to Continue									

**STATE WATER COMMISSION
PROJECT SUMMARY
2017-2019 Biennium
Resources Trust Fund**

COMPLETED WATER CONVEYANCE

Approved SWC		Dept	Approved		Project	Approved Date	Total Approved	Total Payments	<i>Oct-18</i>
By	No		Biennium	Sponsor					Balance
SWC	568	5000	2013-15	Southeast Cass WRD	Sheyenne River Reaches Snagging & Clearing Project	12/5/2014	10,312	10,312	0
SWC	568	5000	2015-17	Southeast Cass WRD	Sheyenne River Snagging & Clearing Reaches II	12/11/2015	27,905	2,451	25,454
SWC	568	5000	2015-17	Southeast Cass WRD	Sheyenne River Snagging & Clearing Reaches I	12/11/2015	73,902	0	73,902
SWC	568	5000	2015-17	Southeast Cass WRD	Sheyenne River Snagging & Clearing Reaches III	12/11/2015	87,035	0	87,035
SE	571	5000	2013-15	Oak Creek WRD	Oak Creek Snagging & Clearing Project	3/30/2015	1,107	0	1,107
SWC	710	5000	2015-17	Maple River WRD	Upper Swan Creek Channel Improvement Project	10/6/2015	62,061	33,484	28,577
SWC	1056	5000	2015-17	Bottineau Co. WRD	Tacoma Blitz Legal Drain	7/6/2016	210,572	49,978	160,594
SWC	1064	5000	2013-15	Rush River WRD	Cass County Drain No. 2 Channel Improvements Project	3/11/2015	41,683	0	41,683
SWC	1176	5000	2015-17	Richland Co. WRD	Legal Drain #2 Reconstruction/Extension Project	3/9/2016	224,231	33,758	190,473
SWC	1179	5000	2015-17	Richland Co. WRD	Legal Drain #5 (Lateral 27) Reconstruction	3/9/2016	180,353	10,937	169,416
SWC	1231	5000	2015-17	Trail Co. WRD	Carson Drain No. 10 Channel Improvements	10/12/2016	141,322	110,912	30,410
SWC	1227	5000	2011-13	Trail Co. WRD	Mergenthal Drain No. 5 Reconstruction	9/15/2014	12,225	0	12,225
SE	1328	5000	2015-17	North Cass Co. WRD	Drain No. 23 Channel Improv Preliminary Engineering	9/30/2015	921	0	921
SWC	1328	5000	2015-17	North Cass Co. WRD	Drain #23 Channel Improvements	3/9/2016	81,612	53,103	28,509
SE	1334	5000	2017-19	Trail Co WRD	Norway Drain No. 38	3/28/2018	61,917	61,917	0
SWC	1891	5000	2015-17	Steele Co WRD	Drain No. 8 Channel Improvement	7/6/2016	2,599	2,599	0
SWC	1977	5000	2011-13	Dickey-Sargent Co WRD	Jackson Township Improvement Dist. #1	5/20/2015	447,653	106,287	341,366
SE	1978	5000	2015-17	Richland-Sargent Joint W	RS Legal Dam #1 - Pre-Construction Engineering	10/24/2016	13,680	13,680	0
SWC	2042	5000	2015-17	Bottineau Co. WRD	Haas Coulee Legal Drain Phase II	6/22/2017	86,361	86,361	0
SWC	2062	5000	2015-17	Trail Co. WRD	Trail Co. Drain #64	7/6/2016	19,549	13,729	5,820
SWC	2074	5000	2015-17	City of Wahpeton	Toe Drain & Encroachment Project	7/6/2016	1,125,482	1,125,482	0
SE	2078	5000	2017-19	Southeast Cass WRD	Raymond-Mapleton Township Imp Dist #76	7/20/2017	3,043	3,043	0
SWC	1523	5000	2015-17	Ward Co. WRD	Robinwood Bank Stabilization Project	10/6/2015	98,648	18,238	80,410
SWC	1991	5000	2013-15	City of Lisbon	Sheyenne Riverbank Stabilization Project	9/15/2014	47,768	0	47,768
SE	2058	5000	2015-17	City of Grafton	Grafton Debris Removal Plan	4/10/2017	8,177	8,170	7
SNAGGING & CLEARING PROJECTS									
SWC	568	5000	2015-17	Southeast Cass WRD	Sheyenne River Snagging & Clearing Reaches I,II,III	12/9/2016	150,073	150,073	0
SE	1287	5000	2013-15	McHenry Co. WRD	Souris River Snagging & Clearing Project	2/3/2015	10,500	0	10,500
SE	1667	5000	2015-17	Trail Co. WRD	Goose River Snagging & Clearing	6/21/2017	47,500	43,811	3,689
TOTAL							3,278,191	1,938,324	1,339,867

**STATE WATER COMMISSION
PROJECT SUMMARY
2017-2019 Biennium
Resources Trust Fund**

GENERAL PROJECTS

Approved SWC By	No	Dept	Approved Biennium	Sponsor	Project	Approved Date	Total Approved	Total Payments	Oct-18 Balance
Hydrologic Investigations:									
SE	1400	3000	2015-17	Fireside Office Solutions	Document Conversion (Water Permit Scanning)	3/28/2018	21,125	19,899	1,226
SWC	2041	3000	2017-19	USGS	Stream Gage Joint Funding Agreement	12/8/2017	553,790	553,790	0
Subtotal Hydrologic Investigations							574,915	573,689	1,226
Devils Lake Basin Development:									
SWC	416-10	4700	2015-17	Operations	Devils Lake Outlet Operations	3/9/2016	10,027,973	5,216,493	4,811,480
SE	416-01	5000	2017-19	Devils Lake Basin Joint WRB	Board Manager	6/14/2017	60,000	0	60,000
Subtotal Devils Lake Basin Development							10,087,973	5,216,493	4,871,480
General Water Management:									
SWC	160	5000	2017-19	McLean Co WRD	Painted Woods Lake Flood Damage Reduction & Habitat	8/9/2018	284,768	0	284,768
SE	274	5000	2015-17	City of Neche	Neché Levee Certification Project	3/21/2016	54,000	0	54,000
SE	390	5000	2015-17	Logan County WRD	Beaver Lake Dam Rehabilitation Feasibility Study	6/8/2016	16,076	0	16,076
SWC	399	5000	2017-19	Barnes Co WRD	Kathryn Dam Project	8/9/2018	754,875	0	754,875
SE	420	5000	2015-17	Hettinger Park Board	Mirror Lake Dam Emergency Action Plan	12/2/2016	24,400	12,827	11,573
SE	460	5000	2015-17	Griggs Co. WRD	Uelend Dam Rehabilitation Feasibility Study	5/20/2016	17,500	0	17,500
SE	477	5000	2015-17	Valley City	Mill Dam Rehabilitation Feasibility Study	6/8/2016	15,073	12,136	2,937
SE	494	5000	2015-17	Nelson Co. WRD	McVile Dam Emergency Action Plan	5/3/2018	10,000	0	10,000
SE	512	5000	2015-17	Emmons County WRD	Nieuwsma Dam Emergency Action Plan	11/28/2016	7,532	812	6,720
SE	531	5000	2015-17	Benson Co WRD	Bouret Dam Rehabilitation Feasibility Study	10/11/2016	12,118	10,109	2,009
SWC	551	5000	2015-17	McHenry Co. WRD	Buffalo Lodge Lake Outlet	6/22/2017	134,915	73,375	61,540
SE	561	5000	2015-17	City of Tioga	Tioga Dam EAP	5/20/2016	40,000	0	40,000
SE	667	5000	2017-19	Burke Co WRD	Northgate Dam 2 Emergency Action Plan	9/5/2017	26,396	0	26,396
SE	848	5000	2015-17	Sargent Co WRD	Tewaukon WS-T-1-A (Brummond-Lubke) Dam EAP	12/18/2015	12,016	0	12,016
SE	848	5000	2015-17	Sargent Co WRD	Tewaukon WS-T-7 (Nelson) Dam EAP	12/18/2015	12,180	0	12,180
SWC	848	5000	2017-19	Sargent Co WRD	Brummond/Lubke Dam	10/11/2018	317,111	0	317,111
SE	849	5000	2015-17	Pembina Co. WRD	Renwick Dam Emergency Action Plan	9/29/2015	2,212	0	2,212
SWC	980	5000	2015-17	Cass Co. Joint WRD	Rush River Watershed Detention Study	1/7/2016	127,697	12,487	115,210
SWC	980	5000	2015-17	Cass Co. Joint WRD	Upper Maple River Watershed Detention Study	1/11/2016	128,039	48,371	81,668
SE	1264	5000	2013-15	Barnes Co WRD	Little Dam Repurposing Feasibility Study	6/17/2015	12,385	0	12,385
SE	1270	5000	2015-17	City of Wilton	Wilton Pond Dredging Recreation Project	12/29/2015	35,707	0	35,707
SWC	1273	5000	2015-17	City of Oakes	James River Bank Stabilization	12/11/2015	262,500	67,457	195,043
SE	1289	5000	2015-17	McKenzie Co. Weed Board	Control of Noxious Weeds on Sovereign Land	4/10/2017	44,010	16,461	27,549
SWC	1296	5000	2015-17	Pembina Co. WRD	Tongue River NRCS Watershed Plan	3/9/2016	104,703	24,055	80,648
SWC	1301	5000	2015-17	Richland Co. WRD	North Branch Antelope Creek NRCS Small Watershed	3/9/2016	113,400	11,447	101,953
SE	1303	5000	2013-15	Sargent Co WRD	Gwinner Dam Improvement Feasibility Study Program	4/17/2015	20,181	0	20,181
SWC	1303	5000	2015-17	Sargent Co WRD	Shortfoot Creek Watershed Planning Program	3/9/2016	109,047	5,541	103,506
SWC	1389	5000	2013-15	Bank of ND	BND AgPace Program	12/13/2013	170,365	120,000	50,365
SE	1396	5000	2017-19	USGS	Water Level Monitoring of Missouri River	9/7/2017	15,000	0	15,000
SWC	1401	5000	2015-17	Pembina Co. WRD	International Boundary Roadway Dike Pembina	7/20/2017	294,528	33,653	260,875
SE	1444	5000	2015-17	City of Pembina	Flood Protection System Certification	4/19/2016	1,657	0	1,657
SE	1453	5000	2015-17	Hettinger County WRD	Karey Dam Rehabilitation Feasibility Study	5/23/2016	6,853	0	6,853
SE	1625	5000	2015-17	Carlson McCain, Inc.	Ordinary High Water Mark Delineations Left Bank of Miss	12/2/2016	2,000	0	2,000
SWC	1851-01	5000	2015-17	ND State Water Commission	Drought Disaster Livestock Water Supply Assistance	2/8/2018	2,025,000	1,240,780	784,220
SWC	1859	5000	2017-15	ND Dept of Health	NPS Pollution	8/23/2017	200,000	91,955	108,045
SWC	2115	5000	2017-19	0	(PMP) Probable Maximum Precipitation Estimates	10/11/2018	600,000	0	600,000
SWC	1968	5000	2015-17	Garrison Diversion	MM 15 Irrigation Project	3/29/2017	321,781	228,166	93,615
SWC	1968	5000	2015-17	Garrison Diversion	MM 42L Irrigation Project	8/23/2017	937,207	372,766	564,441
SWC	2050-68	5000	2017-19	Valley City	Valley City Membrane Replacement Project	2/8/2018	586,350	0	586,350
SE	2055	5000	2015-17	Red River Joint Water Resource District	Lower Red Basin Regional Detention Study	7/17/2015	45,500	0	45,500
SWC	2059	5000	2015-17	Park River Joint WRD	North Branch Park River NRCS Watershed Study	10/6/2015	81,200	0	81,200
SWC	2060	5000	2015-17	Walsh Co. WRD	Forest River Watershed Study	4/10/2017	154,012	0	154,012
SWC	2060	5000	2015-17	Walsh Co. WRD	Matejcek Dam Rehabilitation	10/11/2018	279,750	0	279,750
SE	2070	5000	2015-17	Garrison Diversion Conservancy Dist	Mile Marker 42 Irrigation Project	5/20/2016	29,741	0	29,741
SE	2071	5000	2015-17	Foster County WRD	Alkali Lake High Water Feasibility Study	4/19/2016	4,830	0	4,830
SE	2072	5000	2015-17	Barnes Co WRD	Ten Mile Lake Flood Risk Reduction Project	6/8/2016	36,812	0	36,812
SWC	2074	5000	2015-17	City of Wahpeton	Flood Control - Levee Certification	7/6/2016	247,500	0	247,500
SWC	2074	5000	2015-17	City of Wahpeton	Breakout Easements	7/6/2016	265,000	0	265,000
SWC	2075	5000	2015-17	Ward Co. WRD	Second Larson Coulee Detention Pond	7/6/2016	602,307	0	602,307
SWC	2083	5000	2015-17	Pembina Co. WRD	Herzog Dam Gate & Catwalk Retrofit - Construction	10/12/2016	114,632	809	113,823
SE	2085	5000	2015-17	Adams Co WRD	Orange Dam Rehabilitation Feasibility Study	10/13/2016	10,770	1,930	8,840
SE	2089	5000	2015-17	Maple River WRD	Tower Township Improvement District No. 77 Study	12/19/2016	28,175	11,717	16,458
SE	2090	5000	2015-17	International Water Institute	River Watch Program	11/2/2017	24,150	11,944	12,206
SE	2090-02	5000	2017-19	International Water Institute	River of Dreams Program	6/6/2018	23,275	0	23,275
SWC	2096	5000	2015-17	Southeast Cass WRD	Sheyenne-Maple Flood Control Dist #2 Improvements	3/29/2017	1,035,358	43,943	991,416
SE	2099	5000	2017-19	City of Hunter	Hunter Dam Emergency Action Plan	2/22/2018	46,108	45,574	534
SWC	2107-01	5000	2015-17	City of Minot	Levee Repair & Bank Stabilization Project	6/14/2018	581,476	427,533	153,943
SWC	2107-02	5000	2017-19	City of Minot	Outfall Pipe Rehabilitation Project	6/14/2018	368,778	0	368,778
SE	2109	5000	2017-19	Logan County WRD	McKenna Lake Feasibility Study	6/21/2017	2,247	0	2,247
SE	2109	5000	2017-19	Logan County WRD	McKenna Lake Hydrologic Study	9/12/2018	72,167	0	72,167
SWC	2123	5000	2017-19	Geotech, Inc.	Airborne Electromagnetic (AEM) 2018	8/9/2018	425,000	0	425,000
SE	1396-01	5000	2013-15	Trout, Raley, Montano, Witwer, & Fream	Missouri River Recovery Program	11/17/2015	46,785	275	46,510
SE	1878-02	5000	2015-17	Maple-Steele Joint WRD	Upper Maple River Dam EAP	5/20/2016	12,800	0	12,800
SE	AOC/IRA	5000	2017-19	ND Irrigation Association	Water Irrigation Funding	10/3/2017	75,000	75,000	0
SWC	PS/IRR/LOW	5000	2017-19	Lower Yellowstone Irrigation District #2	Lateral W Irrigation Project	6/14/2018	692,500	0	692,500
SE	AOC/WEF	5000	2017-19	ND Water Education Foundation	ND Water Magazine	8/2/2017	26,000	13,000	13,000
SWC	AOC/RRC	5000	2017-19	Red River Basin Commission	Red River Basin Commission Contractor	6/22/2017	200,000	100,000	100,000
SWC	AOC/ASS	5000	2017-19	Assiniboine River Basin Initiative	ARBI's Outreach Efforts	6/22/2017	100,000	50,000	50,000
SE	PS/WRD/UPP	5000	2017-19	Upper Sheyenne River Joint WRB	USR/JWB Operational Costs	6/20/2017	6,000	3,134	2,867
SE	PS/WRD/MRJ	5000	2017-19	Missouri River Joint WRB	MRRIC Terry Fleck	6/7/2017	45,000	18,140	26,860
SE	PS/WRD/MRJ	5000	2017-19	Missouri River Joint WRB	Board Operational Costs	6/7/2017	10,000	4,658	5,342
SE	PS/WRD/LOW	5000	2015-17	Lower Heart WRD	Lower Heart Flood Control Study	5/10/2017	21,140	0	21,140
Subtotal General Projects							13,573,595	3,188,053	10,385,541

TOTAL

24,236,482 8,978,235 15,258,247

SWC Board Approved to Continue

STATE WATER COMMISSION
PROJECT SUMMARY
2017-2019 Biennium
Resources Trust Fund

COMPLETED GENERAL PROJECTS

Approved SWC		Dept	Approved		Project	Approved Date	Total Approved	Total Payments	Oct-18
By	No		Biennium	Sponsor					Balance
Hydrologic Investigations:									
SE	1396	3000	2017-19	USGS	Maintain Gaging Station East of Lisbon Sheyenne River	9/25/2017	10,500	10,500	0
SE	989	3000	2017-19	ND Dept of Health	Water Sampling Testing	9/25/2017	105,500	105,500	0
SWC	2041	3000	2015-17	USGS	Stream Gage Joint Funding Agreement	10/12/2016	136,028	136,028	0
Subtotal Hydrologic Investigations							252,028	252,028	0
SWC	322	5000	2009-11	ND Water Education Four	ND Water: A Century of Challenge	2/22/2010	36,800	35,000	1,800
SWC	346	5000	2015-17	Williams County WRD	Epping Dam Spillway Reconstruction	3/29/2017	19,499	19,439	60
SWC	347	5000	2009-11	City of Velva	City of Velva's Flood Control Levee System Certification	3/28/2011	32,497	32,497	0
SE	394	5000	2015-17	Golden Valley Co WRD	Odland Dam Rehabilitation Feasibility Study	10/13/2016	13,220	13,220	0
SE	399	5000	2013-15	Barnes Co WRD	Kathryn Dam Feasibility Study	9/19/2014	12,742	7,061	5,681
SE	479	5000	2017-19	Morton Co Parks & Recre	Fish Creek Dam Rehabilitation	10/4/2017	62,970	62,970	0
SE	841	5000	2013-15	Maple River WRD	Garsteig Dam Repair Project	1/26/2015	18,661	0	18,661
SWC	980	5000	2013-15	Cass Co. Joint WRD	Swan Creek Watershed Detention Study PHII	3/11/2015	122,666	2,152	120,514
SE	1296	5000	2013-15	Pembina Co. WRD	Bathgate-Hamilton & Carlisle Watershed Study	10/17/2013	6,726	6,726	0
SE	1303	5000	2015-17	Sargent Co WRD	Gwinner Dam Breach Project	3/21/2018	44,364	42,673	1,691
SE	1403	5000	2017-19	NDSU	ND Water Resource Institute grant student stipends	1/9/2018	25,000	25,000	0
SE	1418	5000	2015-17	City of Bisbee	Big coulee Dam EAP	5/10/2017	11,320	11,095	225
SWC	1638	5000	2009-11	Mutiple	Red River Basin Non-NRCS Rural/Farmstead Ring Dike Progr	6/23/2009	177,864	0	177,864
SE	1808	5000	2015-17	Steele Co WRD	Beaver Creek Dam Safety Inspection	5/23/2016	2,625	2,625	0
SWC	1968	5000	2013-15	Garrison Diversion	McClusky Canal Mile Marker 10 & 49 Irrigation Project	3/17/2014	51,614	0	51,614
SE	1974	5000	2015-17	USGS	Installation of 5 Rapid Deployment Gages in the Mouse River	3/23/2017	23,200	23,200	0
SE	1974	5000	2015-17	USGS	Regulated Streamflow Frequency for the Upper Souris River B	12/16/2016	12,367	12,367	0
HB1009	1986	5000	2017-19	ND Dept Agriculture	Wildlife Services 17-201	8/22/2017	125,000	125,000	0
SWC	2065	5000	2015-17	Cass Co. Joint WRD	Lake Bertha Flood Control Project No. 75	3/9/2016	201,350	201,350	0
SWC	2066	5000	2015-17	Southeast Cass WRD	Sheyenne-Maple Flood Control Dist #1 Mitigation Improvement	3/9/2016	169,201	169,201	0
SE	2069	5000	2015-17	Center Township	Wild Rice River Bank Stabilization	4/19/2016	954	954	0
SE	2076	5000	2015-17	Elm River Joint WRD	Elm River Dam #1 Modification Study	7/6/2016	9,503	9,503	0
SE	2094	5000	2015-17	McLean Co WRD	Lower Buffalo Creek Flood Management Feasibility	6/7/2017	7,539	7,534	5
SE	2079-01	5000	2015-17	City of Williston	West Williston Flood Control	10/24/2016	39,900	39,900	0
SE	2114	5000	2017-19	HDR Engineering	LCCA & EA Guidance Workshop	5/17/2018	9,804	9,804	0
HB1020	2114	5000	2017-19	HDR Engineering	Economic Analysis-Flood Control & Conveyance Projects	12/28/2017	74,093	74,093	0
HB1020	2119	5000	2017-19	HDR Engineering	Life Cycle Cost Analysis Guidelines & Process Development	12/28/2017	59,263	59,263	0
SE	AOC/MIS	5000	2017-19	Missouri River Advisory C	MRAC Startup Funding	8/3/2017	2,000	2,000	0
SE	AOC/WRD	5000	2015-17	ND Water Resource Distr	ND Water Managers Handbook	6/21/2017	24,750	24,750	0
SE	AOC/WEF/TO	5000	2017-19	ND Water Education Four	Summer Water Tours	4/30/2018	2,500	2,500	0
SE	NDAWN	5000	2017-19	NDSU	NDAWN CENTER	3/13/2018	1,500	1,500	0
SWC	PS/WRD/ELM	5000	2013-15	Elm River Joint WRD	Dam #3 Safety Improvements Project	9/15/2014	5,672	0	5,672
Subtotal General Projects							1,407,163	1,023,377	383,786
TOTAL							1,659,191	1,275,404	383,786

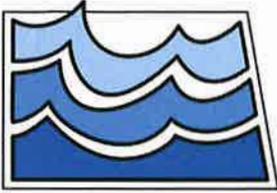
Water Supply Bucket 2017-2019		
Bucket Total		\$120,125,000
Obligated This Biennium	Grand Forks - Water Treatment Plant	\$30,000,000
	Lake Agassiz Water Authority - Red River Valley Water Supply	\$17,000,000
	Lincoln - Water Supply Main	\$1,130,000
	Mandan - Sunset Reservoir Transmission Line	\$3,135,000
	Mercer - McLean Sheridan Connection	\$166,950
	State Water Commission - Northwest Area Water Supply	\$14,600,000
	New Town - Water Tower	\$1,940,000
	State Water Commission - Southwest Pipeline Project	\$13,500,000
	West Fargo - Brooks Harbor Water Tower	\$1,950,000
	West Fargo - North Loop Connection	\$510,000
	West Fargo - West Loop Connection	\$1,110,000
	Western Area Water Supply - Phase 5	\$20,000,000
	Williston - US Highway 2 Water Main	\$434,400
	Williston - 9th Ave E Water Main	\$246,000
	Williston - 18th St Water Main	\$2,090,000
	Wing - Water Tower	\$72,000
Remaining Balance		\$12,240,650
Money Turned Back		\$2,303,566
Remaining Balance		\$14,544,216
December 2018 Agenda		\$0
Remaining Balance		\$14,544,216
Planned Yet This Biennium	Lake Agassiz Water Authority - Red River Valley Water Supply	\$13,000,000
Remaining Balance		\$1,544,216

Rural Water Supply Bucket 2017-2019		
Bucket Total		\$27,000,000
Obligated This Biennium	East Central Regional Water District - Grand Forks System	\$4,150,000
	East Central Regional Water District - Traill System	\$1,396,880
	East Central Regional Water District - Agassiz WUD	\$232,795
	Greater Ramsey Water District - Devils Lake Regionalization	\$599,000
	Northeast Regional Water District - Master Plan	\$107,000
	North Prairie Rural Water District - Mountrail County	\$6,516,000
	Southeast Water User District - Expansion System Wide	\$2,749,000
	Stutsman Rural Water District - Phase 6 Pettibone	\$2,100,000
	Walsh Rural Water District - System Improvements	\$1,300,000
	North Prairie Rural Water District - Silver Spring Surrey	\$107,430
	North Prairie Rural Water District - Reservoir 9	\$1,114,620
	Cass Rural Water User District - Horace Tank	\$1,846,000
	McLean-Sheridan Rural Water District - Turtle Lake Tower	\$2,378,450
	Tri-County Rural Water District - McVille Connection	\$2,803,250
Remaining Balance		(\$400,425.00)
Money Turned Back		\$952,515
Remaining Balance		\$552,090
December 2018 Agenda	East Central Regional Water District - Larimore	\$513,750
Remaining Balance		\$38,340
Planned Yet This Biennium		\$0
Remaining Balance		\$38,340

Flood Control Bucket 2017-2019		
Bucket Total		\$136,000,000
Obligated This Biennium	Mouse River Flood Control	\$63,907,784
	Valley City Flood Control	\$2,171,925
	*Pembina Co. WRD	\$56,000
	*SE Cass WRD	\$3,043
	*Bottineau Co. WRD	\$41,427
	*Traill Co. WRD	\$61,917
	Mapleton Re-Certification	\$213,670
	Lower Heart Flood Control	\$280,000
	Davenport Flood Risk Reduction	\$35,000
	Michigan Spillway Flood Assessment	\$42,053
	Valley City Flood Control Phase III Construction	\$1,786,179
	City of Minot SWIF	\$387,433
	Sheldon Subdivision Levee	\$370,200
	City of Belfield	\$27,000
	*Walsh County Drain 30-2	\$328,042
Remaining Balance		\$66,288,327
Money Turned Back		\$1,359,248
Remaining Balance		\$67,647,575
December Agenda	*Richland County Drain 7	\$274,541
	*Bottineau County Bauman Drain	\$391,742
Remaining Balance		\$66,981,292
Planned Yet This Biennium	Fargo Flood Control	\$66,500,000
Remaining Balance		\$481,292
Not In Water Plan	City of Davenport	\$2,083,600

* Conveyance Projects

General Water Management Bucket 2017-2019		
Bucket Total		\$15,750,000
Obligated This Biennium	Garrison Diversion Unit, Mile 42 Irrigation	\$937,207
	Drought Disaster Livestock Water Supply	\$500,000
	Drought Disaster Livestock Water Supply	\$775,000
	Drought Disaster Livestock Water Supply	\$500,000
	Valley City Water Treatment Plant	\$586,350
	USGS Cooperative Hydrologic Monitoring	\$553,790
	Wildlife Services - ND Dept. of Agriculture	\$125,000
	Yellowstone Irrigation District	\$692,500
	NPS Pollution – Dept. of Health	\$200,000
	Red River Basin Commission	\$200,000
	Painted Woods Lake Flood Damage Reduction	\$284,768
	Kathryn Dam	\$754,875
	AEM	\$425,000
	Assiniboine Outreach	\$100,000
	Various State Engineer Approvals	\$804,686
	Matacjek Dam	\$279,750
	Brummond-Lubke Dam	\$317,111
PMP Update	\$600,000	
Remaining Balance		\$7,113,963
Money Turned Back		\$383,787
Remaining Balance		\$7,497,750
December Agenda	Garrison Diversion MM 0 and 0.4 Irrigation Project	\$1,673,793
	USGS Cooperative Gaging Network	\$422,870
	Odland Dam Engineering	\$110,055
Remaining Balance		\$5,291,032
Originally Budgeted for This Biennium	Devils Lake Outlet Operations	\$5,000,000
Remaining Balance		\$291,032



North Dakota State Water Commission

900 EAST BOULEVARD AVENUE, DEPT 770 • BISMARCK, NORTH DAKOTA 58505-0850
 (701) 328-2750 • TTY 1-800-366-6888 or 711 • FAX (701) 328-3696 • <http://swc.nd.gov>

MEMORANDUM

TO: Governor Doug Burgum
 Members of the State Water Commission

FROM: Garland Erbele, P.E., Chief Engineer-Secretary 

SUBJECT: USGS Stream Gage Joint Funding Agreement FY-2019 (9-month)

DATE: December 7, 2018

The State Water Commission has participated in a cooperative statewide hydrologic monitoring program with the US Geological Survey since the 1950s. The Joint Funding Arrangement for data collection consists of three components: **stream gaging** to measure flow rate and volume, stream and lake **water quality monitoring**, and **aquifer water level and water quality monitoring**. This data collection system consists of:

Surface Water gage sites (52 Total, of which SWC shares in the cost of 46)
 Groundwater Observation Wells (92 Total, of which SWC shares in the cost of 87)
 67 measured monthly
 25 equipped with real-time monitoring
 Water Quality monitoring
 44 Surface water sites (semi-annually)
 9 Chain of Lakes network (quarterly)
 About 1/3 of Groundwater network (25-30 wells, annually)

The stream gaging network provides stream flow statistics that are needed for a wide variety of applications including the design of flood control structures, bridges, culverts, general water resource planning, floodplain mapping, water management and permitting. Many of the gaging sites provided real-time stream stage data which was crucial in responding to the flood events that occurred in 2009 and 2011, and in water appropriation regulatory decisions based on gage flow readings during the recent drought and temporary industrial water permit conditions based on gage readings from these gages.

Water samples are collected for chemical analysis at specific stream sites during high and low-flow periods and at selected lakes. This data is used to determine the suitability of the chemical quality for beneficial use, interpret area hydrology, and to assess changes in the quality resulting from the stresses of both man-induced activities and natural processes caused by climatic variations. The water quality data also provides planners with a basis to assess if waste-water resulting from beneficial use can be discharged into surface water bodies.

Monitoring ground-water levels and quality in wells completed in selected aquifers throughout the state provides essential information used to allocate and manage the state's ground-water resources. The data collection system include real-time monitoring capabilities to the continuous recorder wells.

This request for funding is for a 9-month time span in an effort to align the future funding requests with the State of North Dakota fiscal and biennium funding cycles rather than using the Federal fiscal calendar of October to September. It is anticipated that starting in June, 2019, the program funding requests will be a two-year period to align with the legislative biennial calendar.

The total cost of the monitoring program for FY2019 (October 1, 2018-June 30, 2019) is \$918,910. The State Water Commission portion of this amount is \$422,870 or 46%. This represents a 1.8% increase in program funding over the similar time span of the previous fiscal year.

I recommend that the State Water Commission approve the Partial (9 mo.) FY 2019 (October 1, 2018-June 30, 2019) Joint Funding Arrangement with the USGS North Dakota Water Science Center not to exceed \$422,870 from the funds appropriated to the State Water Commission in the 2017-2019 biennium.

GE:JCP(2041)



Attachment 1

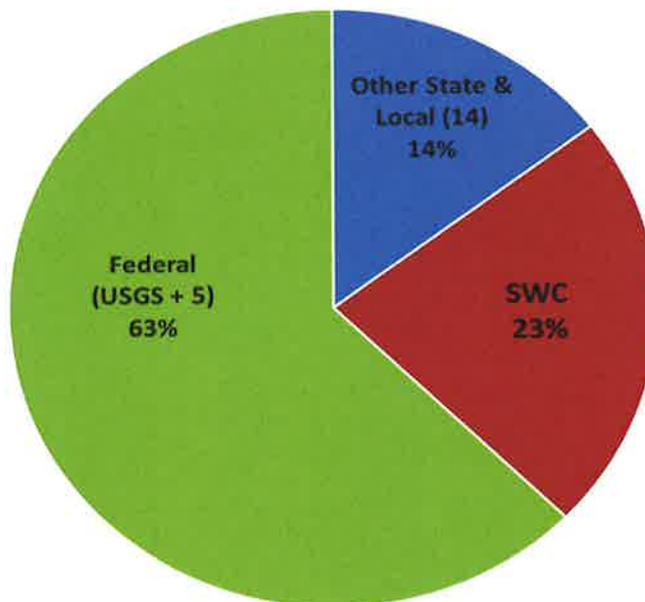
Program Summary for Funding Year, Oct. 1, 2018 to June 30, 2019

<u>Program</u>	<u>Credit</u>	<u>USGS</u>				<u>OFP</u>	<u>Total</u>
		<u>NDSWC</u>	<u>CMF</u>	<u>FPS</u>	<u>NGWMN</u>		
Surface water		259,540	164,835	92,505		51,100	567,980
Ground water		86,220	41,559		23,160	0	150,939
Water Quality	21,380	98,490	78,385			1,740	199,995
Total:		444,250	284,779	92,505	23,160		
	Credit Applied	(21,380)					
Total:		422,870	400,444			52,840	918,910
	FY 2018	415,342					
	FY 2019	422,870					
			1.8 % Increase				

Prepared by SMR on 9/18/2018

- Credit - Credit for SWC construction crew support
- CMF - Cooperative Matching Funds
- FPS - Federal Priority Streamgage (previously known as NSIP)
- NGWMN - National Ground Water Monitoring Network (previously known as GW Climate Response Network)
- OFP - Other funding partners

**Proposed FY 2019 USGS Cooperative Gaging Program
Total Proposed Statewide Program \$2,881,191**



APPENDIX C



Grand Forks Trill Water District

BOX 287
1401 7th AVENUE N.E.
THOMPSON, NORTH DAKOTA 58278
"Rural Water for a Better Rural Life"

Office: 1 Mile West of Thompson
Phone: 701-599-2963
Fax: 701-599-2056

Neil Breidenbach
System Manager
www.gftwd.com

October 17, 2018

Garland Erbele, P.E.
North Dakota State Water Commission
900 E Boulevard Ave
Bismarck ND 58505-0850

**Re: GFTWD: User Expansion, Pipeline Expansion, and TRWD/AWUD Interconnect (Phase 3)
GFTWD: Larimore Interconnect
Grand Forks Trill Water District (GFTWD)**

Dear Mr. Erbele:

GFTWD recently installed a 12-inch pipeline from their WTP near Larimore to Agassiz Water User's District Reservoir No.5. The newly installed 12-inch pipeline, at its closest point, is located 4.5-miles east of the City of Larimore. The City of Larimore is struggling to find and keep licensed operators for the WTP, have been having problems maintaining a consistent water quality, and lack the population to support maintenance and upkeep on their current WTP. The addition of a water supply from Grand Forks Trill Water District, would help alleviate Larimore's water supply struggles.

At the September 4th Larimore City Council meeting, the council, voted unanimously in favor to have a public vote of the people, for obtaining a water source from Grand Forks Trill Water District, contingent on grant cost-share. Currently, the City-wide vote is scheduled for November 30th, 2018, with the vote being official December 6th. The total project cost is estimated at \$685,000.

Grand Forks Trill Water District is requesting \$513,750 grant for 75% matching grant share for the above referenced project, contingent on a positive vote of the people November 30th. The project would be installed in spring of 2019.

Thank you for your continued cooperation regarding the above referenced project. If you have any questions, please feel free to contact me at (701) 599-2963.

Sincerely,

Neil Breidenbach
GFTWD System Manager



COST-SHARE REQUEST FORM
 NORTH DAKOTA STATE WATER COMMISSION
 DEVELOPMENT DIVISION
 SFN 60439 (6/2018)

This form is to be filled out by the project or program sponsor with State Water Commission staff assistance as needed. Applications for cost-share are accepted at any time. However, applications received less than 45 days before a State Water Commission meeting will be held for consideration at the next scheduled meeting.

Please answer the following questions as completely as possible. Supporting documents such as maps, detailed cost estimates, and engineering reports should be attached to this form. If additional space is required, please use extra sheets as necessary.

For information regarding cost-share program eligibility see the *State Water Commission Cost-Share Policy, Procedure, and General Requirements* – available upon request or at www.swc.nd.gov.

Project, Program, Or Study Name GFTWD: Phase 3 System Expansion		
Sponsor(s) East Central Regional Water District		
County Grand Forks	City	Township/Range/Section
Description Of Request <input type="checkbox"/> New <input checked="" type="checkbox"/> Updated (previously submitted)		
Specific Needs Addressed By The Project, Program, Or Study New water supply for the City of Larimore		
If Study, What Type <input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Hydrologic <input type="checkbox"/> Floodplain Mgmt. <input type="checkbox"/> Feasibility <input type="checkbox"/> Other		
If Project/Program		
<input type="checkbox"/> Flood Control	<input type="checkbox"/> Multi-Purpose	<input type="checkbox"/> Bank Stabilization
<input type="checkbox"/> Recreation	<input checked="" type="checkbox"/> Water Supply	<input type="checkbox"/> Snagging & Clearing
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Water Retention	<input type="checkbox"/> Rural Flood Control
<input type="checkbox"/> Dam Safety/EAP	<input type="checkbox"/> Property Acquisition	<input type="checkbox"/> Other
Jurisdictions/Stakeholders Involved East Central Regional Water District City of Larimore		
Description Of Problem Or Need And How Project Addresses That Problem Or Need Currently, the City of Larimore operates a Water Treatment Plant (WTP) in Grand Forks County. Larimore does not have a licensed operator currently on staff, and have been relying on assistance from East Central Regional Water District to have licensed operator. The WTP has also been having problems providing a consistent water quality to its residences with several instances of red water. In the near future the WTP will have to undergo significant operation and maintenance costs to continue to provide water to its people. By regionalizing with East Central Water District, these problems will be minimized and provide Larimore with a high quality safe reliable water source.		
Has Feasibility Study Been Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Not Applicable		
Has Engineering Design Been Completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Ongoing <input type="checkbox"/> Not Applicable		
Have Land Or Easements Been Acquired? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Ongoing <input type="checkbox"/> Not Applicable		

Have You Applied For Any State Permits? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable				
If Yes, Please Explain				
Have You Been Approved For Any State Permits? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable				
If Yes, Please Explain				
Have You Applied For Any Local Permits? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable				
If Yes, Please Explain				
Have You Been Approved For Any Local Permits? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable				
If Yes, Please Explain				
Briefly Explain The Level Of Review The Project Or Program Has Undergone				
Do You Expect Any Obstacles To Implementation (i.e., problems with land acquisition, permits, funding, local, opposition, environmental concerns, etc.)? None anticipated at this time with a succesful public vote.				
Funding Timeline (carefully consider when SWC cost-share will be needed) December SWC Meeting				
Source	Total Cost	2017-2019 7/1/17-6/30/19	2019-2021 7/1/19-6/30/21	Beyond 7/1/21
Federal	\$	\$	\$	\$
State Water Commission	\$	\$ 513,750.00	\$	\$
Other State	\$	\$	\$	\$
Local	\$	\$ 171,250.00	\$	\$
Total	\$ 0.00	\$ 685,000.00	\$ 0.00	\$ 0.00
List All Other State Of North Dakota Funding Sources (Grant or Loan), For Which You Have Applied N/A				
Please Explain Implementation Timelines, Considering All Phases And Their Current Status The project will begin design January 2019 with anticipated construction to begin in spring of 2019 and completed mid summer 2019.				
Have Assessment Districts Been Formed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Not Applicable				
Submitted By Neil Breidenbach			Date 10/18/18	
Address PO Box 287		City Thompson	State ND	ZIP Code 58278
Telephone Number 701599-2963		Engineer Telephone Number 701-746-8087		
Sponsor Email Neilbre@yahoo.com		Engineer Email Geoffrey.slick@ae2s.com		
I Certify That, To The Best Of My Knowledge, The Provided Information Is True And Accurate.				
Signature <i>Neil Breidenbach</i>			Date <i>10/22/18</i>	

MAIL TO:

ND State Water Commission • ATTN: Cost-Share Program
900 E Boulevard Ave. • Bismarck, ND 58505-0850

Grand Forks-Trail Water District Phase 3

* Rural Users = 40

GFTWD Pipeline Status

- Completed
- Pipeline to Larimore
- Remaining

Pipeline to Larimore

ECRWD WTP

AWUD Res. 5

Emerado

Grand Forks

Res 4

Thompson
Res 12

Res 6

Res 8

Northwood

Res 2

Reynolds

Res 7

Res 11

Res 9
Hafon

Sharon

Finley

Portland
Mayville





COST-SHARE REQUEST FORM
 NORTH DAKOTA STATE WATER COMMISSION
 DEVELOPMENT DIVISION
 SFN 60439 (5/2017)

APPENDIX D

This form is to be filled out by the project or program sponsor with State Water Commission staff assistance as needed. Applications for cost-share are accepted at any time. However, applications received less than 30 days before a State Water Commission meeting will be held for consideration at the next scheduled meeting.

Please answer the following questions as completely as possible. Supporting documents such as maps, detailed cost estimates, and engineering reports should be attached to this form. If additional space is required, please use extra sheets as necessary.

For information regarding cost-share program eligibility see the *State Water Commission Cost-Share Policy, Procedure, and General Requirements* – available upon request or at www.swc.nd.gov.

Project, Program, Or Study Name Baumann Legal Drain		
Sponsor(s) Bottineau County Water Resource District		
County Bottineau	City Westhope	Township/Range/Section
Description Of Request <input checked="" type="checkbox"/> New <input type="checkbox"/> Updated (previously submitted)		
Specific Needs Addressed By The Project, Program, Or Study Rural Agricultural Drainage		
If Study, What Type <input type="checkbox"/> Water Supply <input type="checkbox"/> Hydrologic <input checked="" type="checkbox"/> Floodplain Mgmt. <input type="checkbox"/> Feasibility <input type="checkbox"/> Other		
If Project/Program		
<input type="checkbox"/> Flood Control <input type="checkbox"/> Multi-Purpose <input type="checkbox"/> Bank Stabilization <input type="checkbox"/> Dam Safety/EAP <input type="checkbox"/> Recreation <input type="checkbox"/> Water Supply <input type="checkbox"/> Snagging & Clearing <input type="checkbox"/> Property Acquisition <input type="checkbox"/> Irrigation <input type="checkbox"/> Water Retention <input checked="" type="checkbox"/> Rural Flood Control <input type="checkbox"/> Other		
Jurisdictions/Stakeholders Involved Bottineau County Water Resource District		
Description Of Problem Or Need And How Project Addresses That Problem Or Need <p>The Baumann Drain was originally designed and constructed by SCS in the 1950s. The Baumann Drain is approximately six miles long and was designed to handle a watershed of 11,000 acres with an assessment district of 3,320 acres. The original project is not adequate to handle the runoff from the actual watershed of 41,850 acres. This project will extend the channel, increase the channel grade, flatten side slopes and re-establish culvert crossing. The central portion of the drain is extremely flat.</p>		
Has Feasibility Study Been Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Not Applicable		
Has Engineering Design Been Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Not Applicable		
Have Land Or Easements Been Acquired? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Not Applicable		

Have You Applied For Any State Permits? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable				
If Yes, Please Explain Drainage Permit was submitted 4/13/2018				
Have You Been Approved For Any State Permits? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable				
If Yes, Please Explain				
Have You Applied For Any Local Permits? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable				
If Yes, Please Explain				
Have You Been Approved For Any Local Permits? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable				
If Yes, Please Explain				
Briefly Explain The Level Of Review The Project Or Program Has Undergone An assessment district has been approved in April of 2017. The project has been evaluated by the Water Resource District and preliminary alignment plans have been prepared by an engineer. Coordination with the NDDOT and FWS have taken place to ensure compliance.				
Do You Expect Any Obstacles To Implementation (i.e., problems with land acquisition, permits, funding, local, opposition, environmental concerns, etc.)? No				
Funding Timeline (carefully consider when SWC cost-share will be needed)				
Source	Total Cost	2015-2017 7/1/15-6/30/17	2017-2019 7/1/17-6/30/19	Beyond 7/1/19
Federal	\$	\$	\$	\$
State Water Commission	\$ 416,250	\$	\$ 416,250	\$
Other State	\$ 970,000	\$	\$ 970,000	\$
Local	\$ 573,750	\$	\$ 573,750	\$
Total	\$ 1,960,000	\$	\$ 1,960,000	\$
List All Other State Of North Dakota Funding Sources (Grant or Loan), For Which You Have Applied An assessment district has been formed and the assessments approved in April 2017.				
Please Explain Implementation Timelines, Considering All Phases And Their Current Status The District plans to award construction in the summer of 2018.				
Have Assessment Districts Been Formed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ongoing <input type="checkbox"/> Not Applicable				
Submitted By Bottineau County Water Resource District			Date 4/13/2018	
Address PO Box 268		City Bottineau	State ND	ZIP Code 58318-0268
Telephone Number 701-471-9300		Sponsor Email BCWRD@outlook.com		Engineer Email Jennifer.Malloy@ApexEngGroup.com
I Certify That, To The Best Of My Knowledge, The Provided Information Is True And Accurate.				
Signature <i>Dawn B Paul</i>			Date <i>4/13/2018</i>	

MAIL TO:

ND State Water Commission • ATTN: Cost-Share Program
900 E Boulevard Ave. • Bismarck, ND 58505-0850

November 14, 2018

Craig Odenbach, PE
Water Development, Division Director
ND State Water Commission
900 East Boulevard Avenue
Bismarck, ND 58505

RE: Baumann Legal Drain Sediment Analysis

Mr. Odenbach:

The Bottineau County Water Resource District requested cost-share for the Baumann Drain Legal Drain project on April 13, 2018. A portion of the Baumann Legal Drain proposed for construction is the existing Baumann Legal Drain that was designed by the Soil conservation Services and constructed in the late 1950's. As part of the cost-share requirements the State Water Commission is requesting a sediment analysis with any application for cost-share assistance for reconstruction of an existing drain.

The Bottineau County WRD retained Terracon Consultants to conduct the soil sampling and complete a geotechnical report (attached). The report summarizes the soil boring results and discusses an average sediment depth of 6.3 inches. A sediment deposit percentage of 17% of the total channel excavation of the original drain was calculated using the 6.3 inch depth and channel bottom widths from old plans which range from 6 to 16 feet. The original Baumann Drain is approximately 7.3 miles and the proposed Baumann Drain project has a total of approximately 9 miles of channel improvements. The channel excavation and spoil leveling quantities have been separated for the original drain and extended portion of the drain. See attached updated Opinion of Cost.

If you have any questions regarding the sediment analysis, please contact me at 701-323-3967. Thank you and your staff for taking the time to review.

Sincerely,
Apex Engineering Group, Inc.



Jennifer Malloy, PE, CFM
Project Manager

Encl.

cc: Duane Pool, Bottineau County WRD Administrator via email
Clif Issendorf, Bottineau County WRD Chairman via email



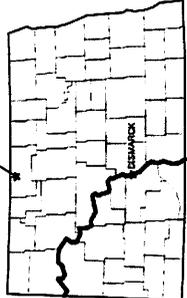
Baumann Legal Drain
Preliminary Cost Estimate
 R16.137.0086
 Date: November 14, 2018

Item No.	Description	Quantity	Sediment Deduction	Unit	Unit Cost	Total Cost	% Sediment Deduction	Total Cost of Eligible Items	(45%) Eligible Total Cost
1	Bond	1		LS	\$6,000.00	\$6,000.00		\$6,000.00	\$2,700.00
2	Mobilization	1		LS	\$20,000.00	\$20,000.00		\$20,000.00	\$9,000.00
3	Remove Existing Pipe - All types and sizes	1,195		LF	\$15.00	\$17,925.00		\$17,925.00	\$8,066.25
4	Remove and Reset Pipe - All types and sizes	225		LF	\$80.00	\$18,000.00		\$18,000.00	\$8,100.00
4	48" CSP	780		LF	\$120.00	\$93,600.00		\$93,600.00	\$42,120.00
5	60" CSP	150		LF	\$160.00	\$24,000.00		\$24,000.00	\$10,800.00
6	48" Control Gates	2		EA	\$23,000.00	\$46,000.00		\$46,000.00	\$20,700.00
7	Stripping	20,000		CY	\$5.00	\$100,000.00		\$100,000.00	\$45,000.00
8	Channel Excavation (Original Drain)	52,200	8,820	CY	\$4.00	\$208,800.00	1.7%	\$173,520.00	\$78,084.00
9	Channel Excavation	16,300		CY	\$4.00	\$65,200.00		\$65,200.00	\$29,340.00
10	Spoil Leveling (Original Drain)	52,200	8,820	CY	\$2.50	\$130,500.00	1.7%	\$108,450.00	\$48,802.50
11	Spoil Leveling	16,300		CY	\$2.50	\$40,750.00		\$40,750.00	\$18,337.50
12	Seeding	60		AC	\$700.00	\$42,000.00		\$42,000.00	\$18,900.00
13	Roadway Gravel	300		Ton	\$40.00	\$12,000.00		\$12,000.00	\$5,400.00
Total Estimated Construction Estimate						\$824,775.00			\$345,350.25
Engineering 12%						\$98,973.00			\$41,442.03
Administration and Legal 8%						\$65,982.00			\$0.00
Subconsultant (Sediment Analysis)						\$11,000.00			\$4,950.00
Estimated Project Cost (BCWRD Responsibility)						\$989,730.00			\$391,742.28
NDDOT Construction Estimate						\$775,000.00			\$0.00
Engineering(Design & Construction), Administration 25%						\$193,750.00			\$0.00
Estimated Project Cost (NDDOT Responsibility)						\$968,750.00			\$0.00
Estimated Total Construction Cost						\$1,958,480.00			\$391,742.28

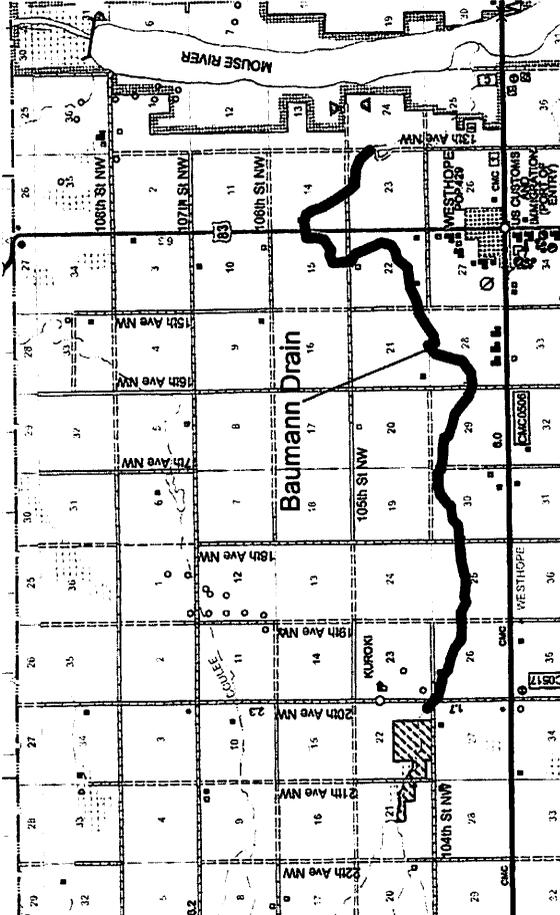
Vertical Datum: NAVD 83	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	16.137.0186/H-4-083(137)262	1	1	1
PCN 21591				

CONSTRUCTION PLANS FOR BAUMANN DRAIN

PROJECT LOCATION



NORTH DAKOTA
STATE LOCATION MAP



This document is preliminary and not for construction or implementation purposes.

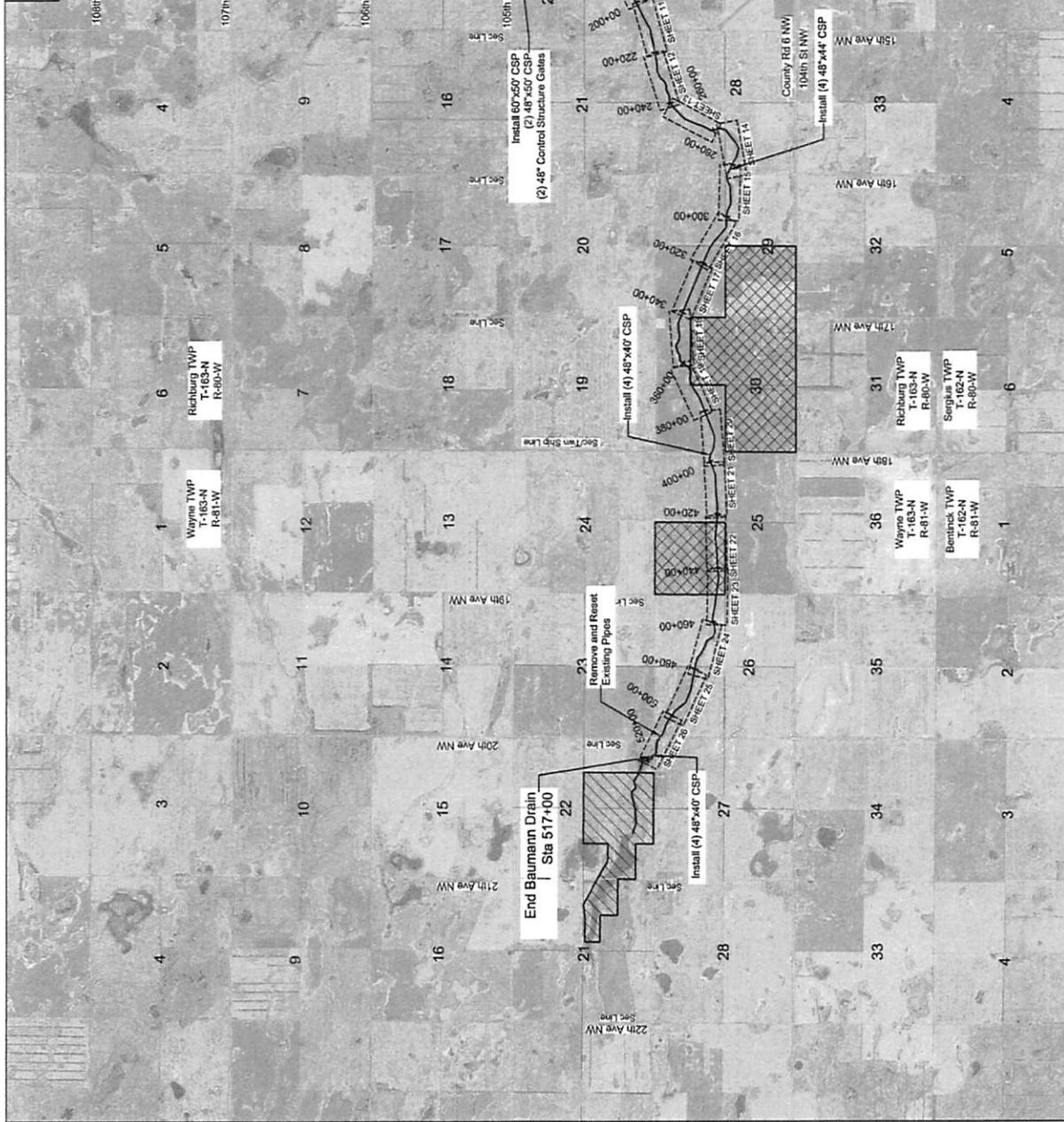
BOTTINEAU COUNTY WATER RESOURCE DISTRICT

Apex Engineering Group, Inc.
Bismarck - Fargo, North Dakota
600 South 2nd Street, Suite # 145
Bismarck, North Dakota 58504
Office: 701-323-3950
Fax: 701-323-3951
www.apexenggroup.com



NOT TO SCALE. THIS PLAN IS A PRELIMINARY DESIGN AND IS SUBJECT TO CHANGE WITHOUT NOTICE.

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	16.137.0186/H-4-083(137)262	4	1



Legend

- Waterfowl Production Areas
- Wildlife Easements

This document is preliminary and not for construction or implementation purposes.

Scope of Work
Baumann Drain
Bottineau County Water Resource District

\\snp\projects\2015\1517262\16 EC\WED - Baumann Drain\Drawings\DWG\137262-4-083.dwg

SERVICE TO LARIMORE

ITEM	ITEM DESCRIPTION	QUANTITY	UNITS	UNIT COST	EXTENDED COST
A.	Mobilization	1	l.s.	\$42,568.75	\$42,568.75
B.	Pipe				
	2. 12-inch PVC SDR 26 CL 160 IPS	24,600	l.f.	\$16.75	\$412,050.00
C.	Gate Valves				
	1. 12-inch (PE X PE)	2	ea.	\$3,465.00	\$6,930.00
D.	1-inch Flush/Air Blow-off Valve	2	ea.	\$1,100.00	\$2,200.00
E.	Non-Cased Bores (includes pipe & couplers)				
	1. 12-Inch DR 11 IPS POLY (100' Length)	6		\$10,050.00	\$60,300.00
F.	Directional Bores (includes pipe & couplers)				
	1. 12-Inch DR 11 IPS POLY	900	l.f.	\$76.25	\$68,625.00
G.	Cased Bores (includes pipe, casing, couplers, spacers, & other fittings)				
	1. 180' - 12" DR 11 IPS POLY Carrier Pipe w/ 160' - 16" Steel Casing	1	l.s.	\$28,500.00	\$28,500.00
H.	Gas Line Crossing (includes pipe, couplers, & hydro-vac)				
	1. 12-Inch DR 11 IPS POLY	0	l.s.	\$11,250.00	\$0.00
I.	Fittings (includes couplers to transition from Poly to PVC)				
	1. 12-Inch POLY 90° Bend	3	ea.	\$1,700.00	\$5,100.00
	2. 12-Inch POLY Tee	1	ea.	\$1,100.00	\$1,100.00
J.	Air Release Valve Manhole (ARV)	1	ea.	\$6,500.00	\$6,500.00
K.	Fused Connection to Meter-PRV Manhole	1	l.s.	\$1,300.00	\$1,300.00
L.	Signs	9	ea.	\$80.00	\$720.00
M.	Seeding	5	acre	\$500.00	\$2,500.00
N.	Gravel	0	ton	\$50.00	\$0.00
O.	Restoration	24,600	l.f.	\$0.50	\$12,300.00
SUBTOTAL CONSTRUCTION:					\$650,693.75
Engineering					\$29,306
Crop Damage					\$5,000
TOTAL PROJECT COST:					\$685,000



January 22, 2018

ND State Water Commission
Attn: Cost-Share Program
900 E Boulevard Avenue Dept. 770
Bismarck, ND 58505-0850

RE: Legal Drain #7
Reconstruction Part 2
Richland County, ND
W17-46

Dear Sir or Madame:

On behalf of the Richland County Water Resource District Board enclosed please find a cost share request form, project location map, preliminary plans, project narrative, and a detailed cost estimate for the referenced project. We are requesting that cost share be considered at the next SWC meeting so that we can keep this project on track. Please proceed with processing this request and let us know if you need additional information.

The State's cost share will be integral to completing this needed project as proposed. An "Application to Drain" permit is being submitted to the State Engineers office for processing simultaneously. A Corp of Engineers 404 permit is also being applied for.

If you have any questions, please do not hesitate to contact me at any time. We look forward to hearing from you soon.

Sincerely,
Interstate Engineering, Inc.

A handwritten signature in blue ink, appearing to read 'Mike Bassingthwaite'.

Mike Bassingthwaite, P.E.

MB/mb
Attachments
C: RCWRB

Professionals you need, people you trust.



COST-SHARE REQUEST FORM
 NORTH DAKOTA STATE WATER COMMISSION
 DEVELOPMENT DIVISION
 SFN 60439 (3/2017)

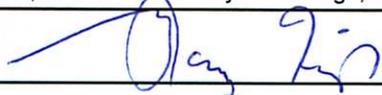


This form is to be filled out by the project or program sponsor with State Water Commission staff assistance as needed. Applications for cost-share are accepted at any time. However, applications received less than 30 days before a State Water Commission meeting will be held for consideration at the next scheduled meeting.

Please answer the following questions as completely as possible. Supporting documents such as maps, detailed cost estimates, and engineering reports should be attached to this form. If additional space is required, please use extra sheets as necessary.

For information regarding cost-share program eligibility see the *State Water Commission Cost-Share Policy, Procedure, and General Requirements* – available upon request or at www.swc.nd.gov.

Project, Program, Or Study Name Drain #7 Channel Improvements (Part 2)			
Sponsor(s) Richland County Water Resource District			
County Richland	City near McLeod	Township/Range/Section 20-23/134/51	
Description Of Request <input checked="" type="checkbox"/> New <input type="checkbox"/> Updated (previously submitted)			
Specific Needs Addressed By The Project, Program, Or Study see attached project narrative			
If Study, What Type <input type="checkbox"/> Water Supply <input type="checkbox"/> Hydrologic <input type="checkbox"/> Floodplain Mgmt. <input type="checkbox"/> Feasibility <input type="checkbox"/> Other			
If Project/Program			
<input type="checkbox"/> Flood Control	<input type="checkbox"/> Multi-Purpose	<input type="checkbox"/> Bank Stabilization	<input type="checkbox"/> Dam Safety/EAP
<input type="checkbox"/> Recreation	<input type="checkbox"/> Water Supply	<input type="checkbox"/> Snagging & Clearing	<input type="checkbox"/> Property Acquisition
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Water Retention	<input checked="" type="checkbox"/> Rural Flood Control	<input type="checkbox"/> Other
Jurisdictions/Stakeholders Involved Richland County Drain 7 assessment district and downstream landowners (ag land)			
Description Of Problem Or Need And How Project Addresses That Problem Or Need RC Legal Drain 7 is a tributary to Antelope Creek in central Richland County. The 1st 3 miles of the drain west of the discharge to Antelope Creek have been reconstructed as 2 prior projects. This portion of the drain has the same issues with insufficient channel capacity, erosion and slope failures, and localized flooding issues. The reconstructed drain with flatter slopes would better contain flood waters and allow snow and ice to melt more efficiently in the spring.			
Has Feasibility Study Been Completed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Not Applicable
Has Engineering Design Been Completed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Not Applicable
Have Land Or Easements Been Acquired?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Not Applicable

Have You Applied For Any State Permits?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
If Yes, Please Explain ND State Engineer Application to Drain					
Have You Been Approved For Any State Permits?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
If Yes, Please Explain applied for January 2018 (pending)					
Have You Applied For Any Local Permits?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
If Yes, Please Explain none required					
Have You Been Approved For Any Local Permits?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable	
If Yes, Please Explain					
Briefly Explain The Level Of Review The Project Or Program Has Undergone Utility Companies have been notified and will be sent final plans for minor adjustments needed. Corp 404 permit has been applied for.					
Do You Expect Any Obstacles To Implementation (i.e., problems with land acquisition, permits, funding, local, opposition, environmental concerns, etc.)? no					
Funding Timeline (carefully consider when SWC cost-share will be needed)					
Source	Total Cost	2015-2017 7/1/15-6/30/17	2017-2019 7/1/17-6/30/19	Beyond 7/1/19	
Federal	\$	\$	\$	\$	
State Water Commission	\$ 275,000	\$	\$ 275,000	\$	
Other State	\$	\$	\$	\$	
Local	\$ 558,000	\$	\$ 558,000	\$	
Total	\$ 833,000	\$	\$ 833,000	\$	
List All Other State Of North Dakota Funding Sources (Grant or Loan), For Which You Have Applied None					
Please Explain Implementation Timelines, Considering All Phases And Their Current Status Project will be let for bids in March or April of 2018 and all construction will be completed by December 2019. The existing maintenance assessment district funds will be used for the local cost share.					
Have Assessment Districts Been Formed?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Ongoing	<input type="checkbox"/> Not Applicable
Submitted By Richland County Water Resource District			Date		
Address 418 2nd Ave N		City Wahpeton	State ND	ZIP Code 58075	
Telephone Number 701-642-7773 (701-642-5521 IE)	Sponsor Email mzentgraf@co.richland.nd.us		Engineer Email mike.bassingthwaite@interstateeng.com		
I Certify That, To The Best Of My Knowledge, The Provided Information Is True And Accurate.					
Signature 			Date 1-9-18		

MAIL TO:

ND State Water Commission • ATTN: Cost-Share Program
900 E Boulevard Ave. • Bismarck, ND 58505-0850

**PRELIMINARY ENGINEER'S ESTIMATE
DRAIN 7 RECONSTRUCTION (PART 2)
RICHLAND COUNTY, NORTH DAKOTA**

ITEM No.	ITEM DESCRIPTION	UNIT	No. OF UNITS	UNIT PRICE L & M	EXTENDED AMOUNT L & M	MATERIAL COSTS	
						UNIT PRICE Materials	EXTENDED AMOUNT Materials
1	Mobilization	LS	1	\$10,000.00	\$10,000.00	\$0.00	\$0.00
2	Remove & Salvage CSP	LF	1,874	\$7.50	\$14,055.00	\$0.00	\$0.00
3	Construction Traffic Control	LS	1	\$2,500.00	\$2,500.00	\$0.00	\$0.00
4	Clearing & Grubbing	LS	1	\$500.00	\$500.00	\$0.00	\$0.00
5	Topsoil (P)	CY	65,000	\$1.65	\$107,250.00	\$0.00	\$0.00
6	Excavation (P)	CY	115,000	\$1.20	\$138,000.00	\$0.00	\$0.00
7	Embankment (P)	CY	15,000	\$0.70	\$10,500.00	\$0.00	\$0.00
8	Spoil Spreading	MILE	4	\$7,000.00	\$28,000.00	\$0.00	\$0.00
9	Install 18" CSP	LF	2,110	\$10.00	\$21,100.00	\$11.50	\$24,265.00
10	Install 24" CSP	LF	400	\$12.00	\$4,800.00	\$15.00	\$6,000.00
11	Install 30" CSP	LF	80	\$14.00	\$1,120.00	\$21.00	\$1,680.00
12	Install 48" CSP	LF	160	\$25.00	\$4,000.00	\$46.00	\$7,360.00
13	Install 54" CSP	LF	280	\$27.50	\$7,700.00	\$53.00	\$14,840.00
14	Install 18" Flap Gate	EA	26	\$100.00	\$2,600.00	\$300.00	\$7,800.00
15	Install 24" Flap Gate	EA	5	\$125.00	\$625.00	\$400.00	\$2,000.00
16	Install 30" Flap Gate	EA	1	\$150.00	\$150.00	\$500.00	\$500.00
17	Erosion Control Blanket	SY	300	\$2.50	\$750.00	\$0.00	\$0.00
18	Fiber Rolls 20"	LF	500	\$5.00	\$2,500.00	\$0.00	\$0.00
19	Riprap Grade I	TON	550	\$50.00	\$27,500.00	\$0.00	\$0.00
20	Aggregate Surface Course	TON	500	\$20.00	\$10,000.00	\$0.00	\$0.00
21	Seeding & Mulching	ACRE	40	\$700.00	\$28,000.00	\$0.00	\$0.00
22	Culverts Markers	EA	32	\$75.00	\$2,400.00	\$0.00	\$0.00
SUBTOTALS					\$414,050.00		\$64,445.00
CONTINGENCIES					\$21,505.00		
OPINION OF PROBABLE CONSTRUCTION COST					\$500,000.00		

PROJECT COST SUMMARY

DESIGN ENGINEERING REMAINING (\$11,500 billed to date)	\$35,000.00
ESTIMATED CONSTRUCTION ENGINEERING	\$70,000.00
RIGHT-OF-WAY (Permanent and Temporary)	\$148,000.00
UTILITY RELOCATION (OHP)	\$40,000.00
LEGAL ADMINISTRATION AND BONDING	\$52,000.00

OPINION OF TOTAL PROBABLE PROJECT COST \$845,000.00

LESS SWC COST SHARING (35% of design engineering)	\$12,000.00
LESS SWC COST SHARING (45% of eligible items)	\$275,000.00

OPINION OF TOTAL PROBABLE LOCAL COST \$558,000.00

	RIGHT-OF-WAY – Section 23		RIGHT-OF-WAY – Section 23		
	PRICE/ACRE	ACRES	ACRES	ACRES	TOTAL PRICE
PERM. ROW	\$5,000.00	2.03		2.03	\$20,300.00
TEMPORARY ROW (2 YEARS)	\$300.00	10.50		10.50	\$6,300.00
	RIGHT-OF-WAY – Section 22		RIGHT-OF-WAY – Section 22		
	PRICE/ACRE	ACRES	ACRES	ACRES	TOTAL PRICE
PERM. ROW	\$5,000.00	3.61		3.61	\$36,100.00
TEMPORARY ROW (2 YEARS)	\$300.00	7.48		7.48	\$4,488.00
	RIGHT-OF-WAY – Section 21		RIGHT-OF-WAY – Section 21		
	PRICE/ACRE	ACRES	ACRES	ACRES	TOTAL PRICE
PERM. ROW	\$5,000.00	3.61		3.61	\$36,100.00
TEMPORARY ROW (2 YEARS)	\$300.00	7.48		7.48	\$4,488.00
	RIGHT-OF-WAY – Section 20		RIGHT-OF-WAY – Section 20		
	PRICE/ACRE	ACRES	ACRES	ACRES	TOTAL PRICE
PERM. ROW	\$5,000.00	3.61		3.61	\$36,100.00
TEMPORARY ROW (2 YEARS)	\$300.00	7.48		7.48	\$4,488.00



COST-SHARE REQUEST FORM
 NORTH DAKOTA STATE WATER COMMISSION
 DEVELOPMENT DIVISION
 SFN 60439 (8/2018)

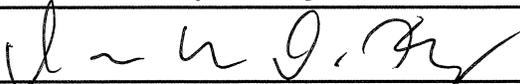
APPENDIX F

This form is to be filled out by the project or program sponsor with State Water Commission staff assistance as needed. Applications for cost-share are accepted at any time. However, applications received less than 45 days before a State Water Commission meeting will be held for consideration at the next scheduled meeting.

Please answer the following questions as completely as possible. Supporting documents such as maps, detailed cost estimates, and engineering reports should be attached to this form. If additional space is required, please use extra sheets as necessary.

For information regarding cost-share program eligibility see the *State Water Commission Cost-Share Policy, Procedure, and General Requirements* – available upon request or at www.swc.nd.gov.

Project, Program, Or Study Name MM 0 and MM 0.4 Irrigation Projects		
Sponsor(s) Garrison Diversion Conservancy District		
County McLean	City Coleharbor	Township/Range/Section T147N/R82W
Description Of Request <input checked="" type="checkbox"/> New <input type="checkbox"/> Updated (previously submitted)		
Specific Needs Addressed By The Project, Program, Or Study Central Supply works and pre-construction engineering services for an irrigation system.		
If Study, What Type <input type="checkbox"/> Water Supply <input type="checkbox"/> Hydrologic <input type="checkbox"/> Floodplain Mgmt. <input type="checkbox"/> Feasibility <input type="checkbox"/> Other		
If Project/Program		
<input type="checkbox"/> Flood Control	<input type="checkbox"/> Multi-Purpose	<input type="checkbox"/> Bank Stabilization
<input type="checkbox"/> Recreation	<input type="checkbox"/> Water Supply	<input type="checkbox"/> Snagging & Clearing
<input checked="" type="checkbox"/> Irrigation	<input type="checkbox"/> Water Retention	<input type="checkbox"/> Rural Flood Control
<input type="checkbox"/> Dam Safety/EAP	<input type="checkbox"/> Property Acquisition	<input type="checkbox"/> Other
Are Connections Of New Rural Customers Located Within The Extra-Territorial Jurisdiction Of Municipality? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Jurisdictions/Stakeholders Involved Garrison Diversion Conservancy District		
Description Of Problem Or Need And How Project Addresses That Problem Or Need		
<p>Two irrigation projects have been selected by Garrison Diversion. The projects will service a total irrigable acreage of approximately 2,810 acres. Garrison Diversion District is requesting 50% cost share funding, not to exceed \$1,613,242, for the central supply works (intakes, pump stations, controls, main transmission pipelines and power grids) of the two projects. In addition to the central supply works the irrigators must also purchase pivots and pipe to transmit water from the main transmission lines to the pivots. With the aid of the 50% cost sharing for the central supply works the overall cost of the project is reduced making the project affordable.</p> <p>Garrison Diversion is also requesting 35% cost share on the pre-construction expenses for the engineering design services of the two projects, not to exceed \$35,000. Based on a consulting engineering firms estimate and previous experiences on similar projects, the total estimated pre-construction engineering services is estimated to be approximately \$100,000 for both projects.</p> <p>The total amount of cost share funding Garrison Diersion is requesting is \$1,648,242 for both projects. +</p>		
Has Feasibility Study Been Completed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ongoing <input type="checkbox"/> Not Applicable		
Has Engineering Design Been Completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Ongoing <input type="checkbox"/> Not Applicable		
Have Land Or Easements Been Acquired? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ongoing <input type="checkbox"/> Not Applicable		

Have You Applied For Any State Permits? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable				
If Yes, Please Explain				
Have You Been Approved For Any State Permits? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable				
If Yes, Please Explain				
Have You Applied For Any Local Permits? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable				
If Yes, Please Explain				
Have You Been Approved For Any Local Permits? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable				
If Yes, Please Explain				
Briefly Explain The Level Of Review The Project Or Program Has Undergone Bureau of Reclamation will follow the NEPA process for the projects.				
Do You Expect Any Obstacles To Implementation (i.e., problems with land acquisition, permits, funding, local, opposition, environmental concerns, etc.)? No				
Funding Timeline (carefully consider when SWC cost-share will be needed)				
Source	Total Cost	2017-2019 7/1/17-6/30/19	2019-2021 7/1/19-6/30/21	Beyond 7/1/21
Federal	\$	\$	\$	\$
State Water Commission	\$ 1,658,793.00	\$	\$ 1,658,793.00	\$
Other State	\$	\$	\$	\$
Local	\$ 1,688,793.00	\$	\$ 1,688,793.00	\$
Total	\$ 3,347,586.00	\$ 0.00	\$ 3,347,586.00	\$ 0.00
List All Other State Of North Dakota Funding Sources (Grant or Loan), For Which You Have Applied N/A				
Please Explain Implementation Timelines, Considering All Phases And Their Current Status With the cost sharing by the State Water Commission, the project is planned to start construction in the spring of 2019 and be completed in 2019.				
Have Assessment Districts Been Formed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Not Applicable				
Submitted By Duane DeKrey			Date 10/19/2018	
Address 401 US-281		City Carrington	State ND	ZIP Code 58421
Telephone Number (701) 652-3194		Engineer Telephone Number		
Sponsor Email		Engineer Email		
I Certify That, To The Best Of My Knowledge, The Provided Information Is True And Accurate.				
Signature 			Date 19 Oct 18	

MAIL TO:

ND State Water Commission • ATTN: Cost-Share Program
900 E Boulevard Ave. • Bismarck, ND 58505-0850



October 19, 2018

Garland Erbele, State Engineer
State Water Commission
State Office Building
900 East Boulevard
Bismarck, ND 58505

Dear Garland:

GARRISON DIVERSION
CONSERVANCY DISTRICT
P.O. Box 140
CARRINGTON, N.D. 58421
(701) 652-3194
FAX (701) 652-3195
gdcd@gdcd.org
www.garrisondiversion.org

The Dakota Water Resources Act of 2000 authorizes approximately 24,000 acres of irrigation along the McClusky Canal. Over the last year, the Garrison Diversion Conservancy District has been canvassing the area for future projects. Two projects have been selected at this time. The irrigable acreage in these two areas is approximately 2,560 acres and 250 acres.

The total cost of the central supply works for both projects is estimated to be \$3,247,586. Garrison Diversion respectfully requests 50% cost share funding, not to exceed \$1,623,793, for the central supply works (intakes, pump stations, controls, main transmission pipelines and power grids) of both projects.

Garrison Diversion also requests 35% cost share funding, not to exceed \$35,000, for the associated pre-construction engineering services, which are estimated to total \$100,000 for both projects. The total amount of cost-share funding that Garrison Diversion is requesting is \$1,658,793. The remaining 50% of the central supply works, pivots, and connection to the water delivery system will be paid by the irrigator.

Based on the acres, the cost for the water delivery systems will be approximately \$1,194 per acre for 2,560 acres and approximately \$765 per acre for 250 acres. In addition to these costs, the irrigator must purchase and install pivots and pipe from the main transmission pipelines to the pivots. With the cost share, the cost of the central supply works is reduced to approximately \$597 per acre for 2,560 acres and approximately \$383 per acre for 250 acres. Enclosed are the cost estimates.

According to a report developed by the North Dakota State University titled, *A Reevaluation of Garrison Diversion Unit Irrigation*, development of the 24,000 designated acres will create up to 403 new jobs in the region and increase business activity by \$7 to \$10 million annually in 1991 dollars. This demonstrates the value to the state to complete this project.

Suitability of the soils for irrigation in this area was evaluated using NDSU irrigation guidelines and previous U.S. Bureau of Reclamation land class determinations. The majority of soils in the project area are irrigable without condition.

Sincerely,

Duane DeKrey
General Manager

DD/slg
Enclosures

MM 0 Cost Estimate (Off Farm Expenses) (2,560 Acres)

No.	Description	Qty.	Unit	Unit Price	Extended Price
A.	Bonding	1	l.s.	\$ 50,000	\$ 50,000
B.	Mobilization	1	l.s.	\$ 50,000	\$ 50,000
C.	Erosion Control	1	l.s.	\$ 1,000	\$ 1,000
D.	Pumps Stations				
	200 HP (6HH)	5	ea.	\$ 100,000	\$ 500,000
	Main Transmission Line Filter System	1	ea.	\$ 135,000	\$ 135,000
E.	Electrical Work	1	l.s.	\$ 300,000	\$ 300,000
F.	Control Valves @ Pump Station	4	ea.	\$ 15,225	\$ 60,900
G.	Flow Meter	1	l.s.	\$ 15,000	\$ 15,000
H.	Pressure Transmitter	1	l.s.	\$ 3,000	\$ 3,000
I.	Pipes				
	16" Steel Watermain	400	l.f.	\$ 300	\$ 120,000
	36" Steel Watermain	50	l.f.	\$ 700	\$ 35,000
	24" PIP (125 psi)	9550	l.f.	\$ 60	\$ 573,000
	24" PIP (100 psi)	1580	l.f.	\$ 50	\$ 79,000
	21" PIP (125 psi)	1350	l.f.	\$ 50	\$ 67,500
	21" PIP (100 psi)	5350	l.f.	\$ 40	\$ 214,000
	12" PIP (100psi)	7775	l.f.	\$ 25	\$ 194,375
	12" PIP (80 psi)	4530	l.f.	\$ 20	\$ 90,600
	10" PIP (100 psi)	600	l.f.	\$ 20	\$ 12,000
J.	Fittings				
	Steel to PIP Starter Coupler	2	ea.	\$ 4,000	\$ 8,000
	16" FL Steel 45	3	ea.	\$ 2,000	\$ 6,000
	36x30 Steel Reducer	2	ea.	\$ 8,000	\$ 16,000
	30x24 Steel Reducer	2	ea.	\$ 6,000	\$ 12,000
	16x24 Steel Reducer	1	ea.	\$ 5,000	\$ 5,000
	24x16 Steel Wye	1	ea.	\$ 5,000	\$ 5,000
	30x16 Steel Wye	1	ea.	\$ 7,000	\$ 7,000
	36x16 Steel Wye	2	ea.	\$ 8,000	\$ 16,000
	36x24 Steel Wye	1	ea.	\$ 8,000	\$ 8,000
	24x24x12 PVC Tee	1	ea.	\$ 3,000	\$ 3,000
	24x21x12 PVC Tee	1	ea.	\$ 3,000	\$ 3,000
	24x21x10 PVC Tee	1	ea.	\$ 2,500	\$ 2,500
	21x21x8 PVC Tee	1	ea.	\$ 2,500	\$ 2,500
	21x21x12 PVC Tee	1	ea.	\$ 2,500	\$ 2,500
	18x12x12 PVC Tee	1	ea.	\$ 2,500	\$ 2,500
	12x12x12 PVC Tee	1	ea.	\$ 2,500	\$ 2,500
	12x12 90 Degree PVC Elbow	1	ea.	\$ 2,000	\$ 2,000
K.	Valves				
	Pressure Reducing Valves	7	ea.	\$ 2,500	\$ 17,500
L.	Air Vacs/Pump Outs				
	24" PVC Combination Air Valve Assembly	4	ea.	\$ 4,000	\$ 16,000
	21" PVC Combination Air Valve Assembly	2	ea.	\$ 4,000	\$ 8,000
	12" PVC Combination Air Valve Assembly	3	ea.	\$ 3,000	\$ 9,000
	24" Drain Assembly	2	ea.	\$ 2,500	\$ 5,000
	21" Drain Assembly	2	ea.	\$ 2,000	\$ 4,000
	12" Drain Assembly	2	ea.	\$ 1,000	\$ 2,000
M.	Turnouts				
	Turnout Manifold Assembly	9	ea.	\$ 8,000	\$ 72,000
	24" and 21" Pipeline Manifold	1	ea.	\$ 16,000	\$ 16,000
N.	MEC Electrical				\$ 25,000
O.	10% Contingency				\$ 277,838
				Total	\$ 3,056,213

Cost to Construct per Acre (Off Farm) \$ 1,194

Total Cost with 50% Cost Share \$ 1,528,106

Cost to Construct per Acre (Off Farm) with 50% Cost Share \$ 597

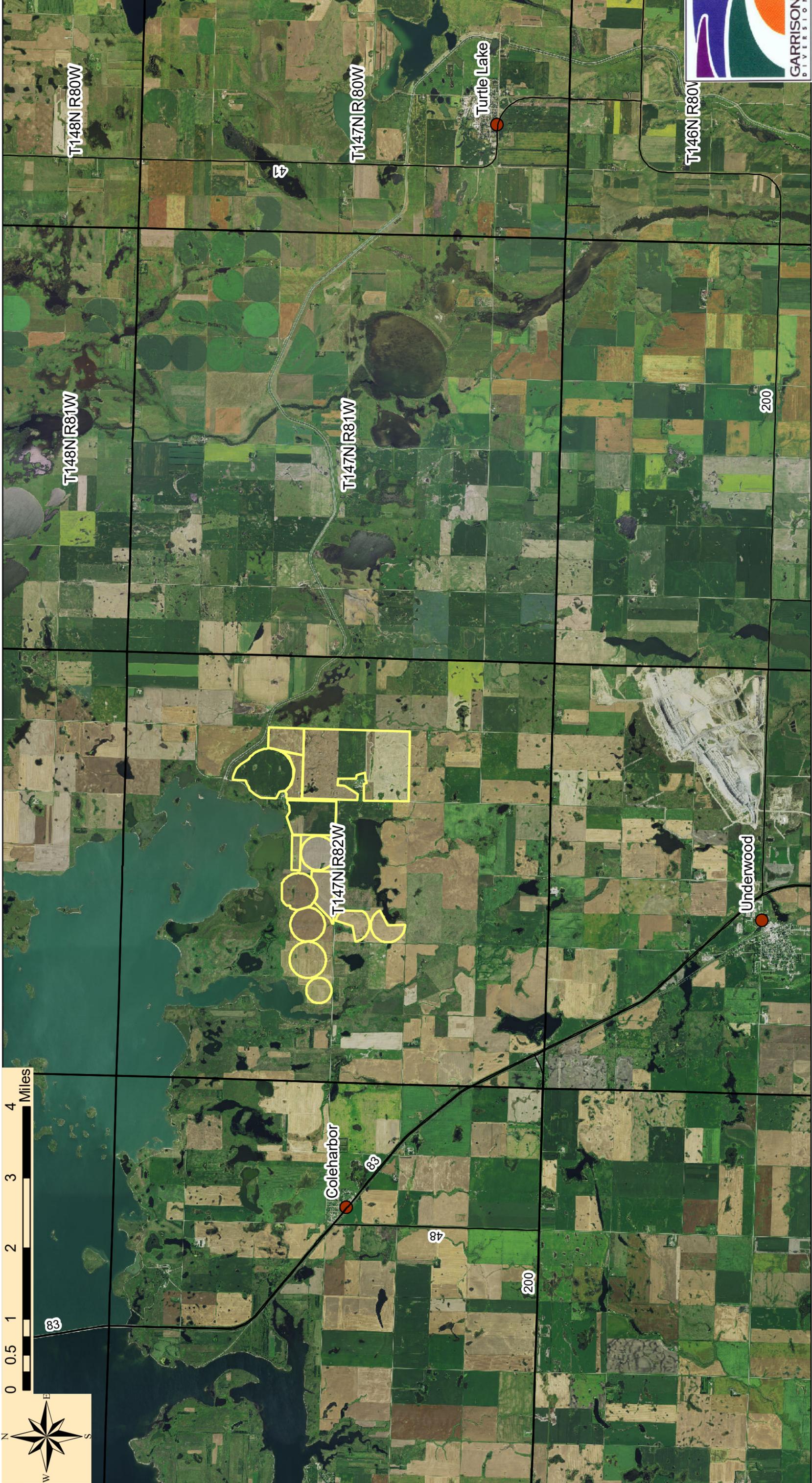
MM 0 Pre-Construction Engineering Services (Engineering Design) Estimate

Pre-Constuction Engineering Services	\$	70,000
35% Request from the SWC for Pre-Constuction Engineering Services	\$	24,500

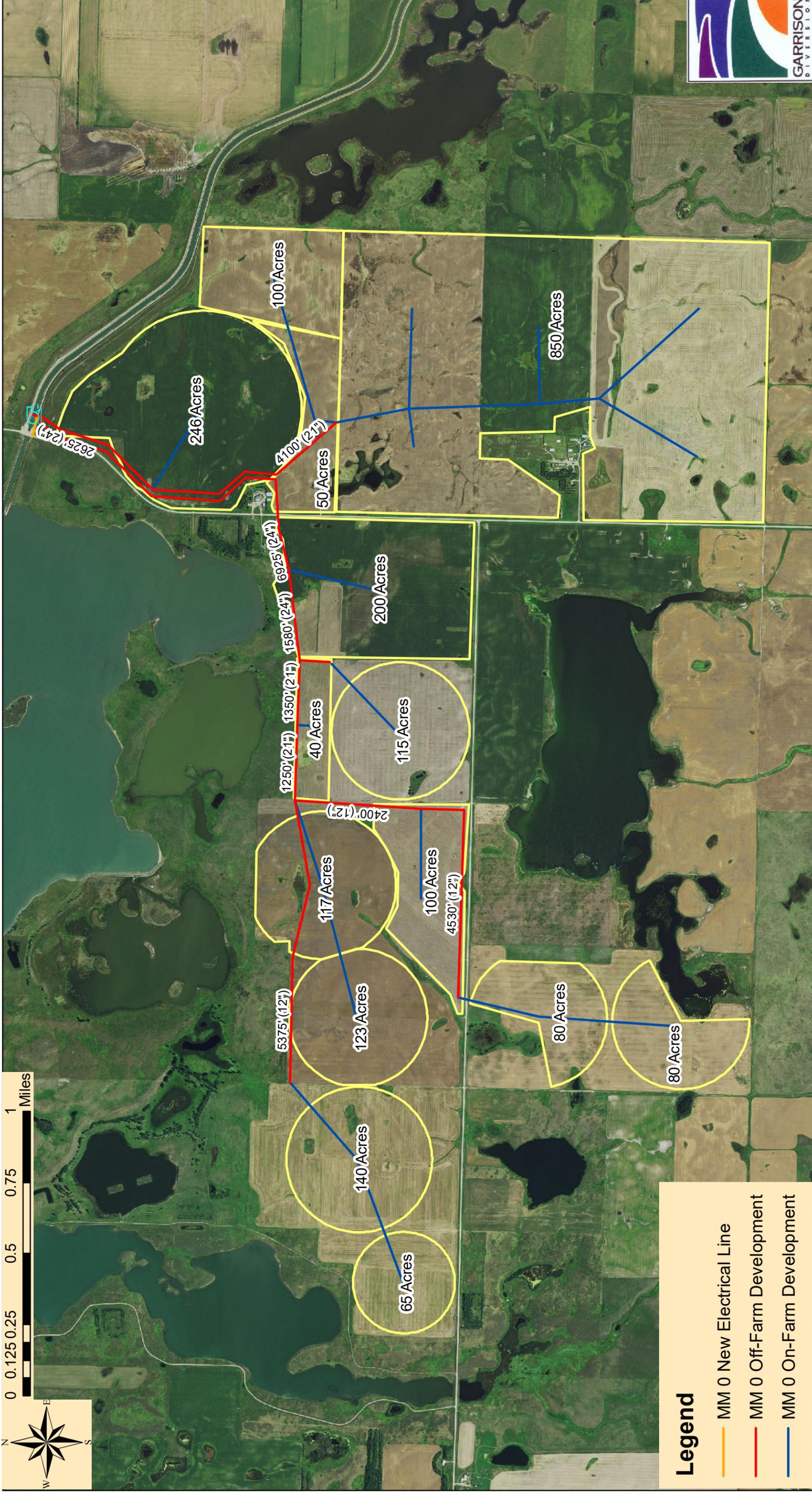
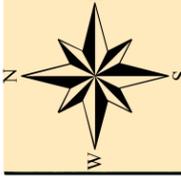
50% Cost Share for Central Supply Works from SWC \$ 1,528,106

35% Cost Share for Pre-Constuction Engineering Services from SWC \$ 24,500

Total Amount Requested from SWC \$ 1,552,606

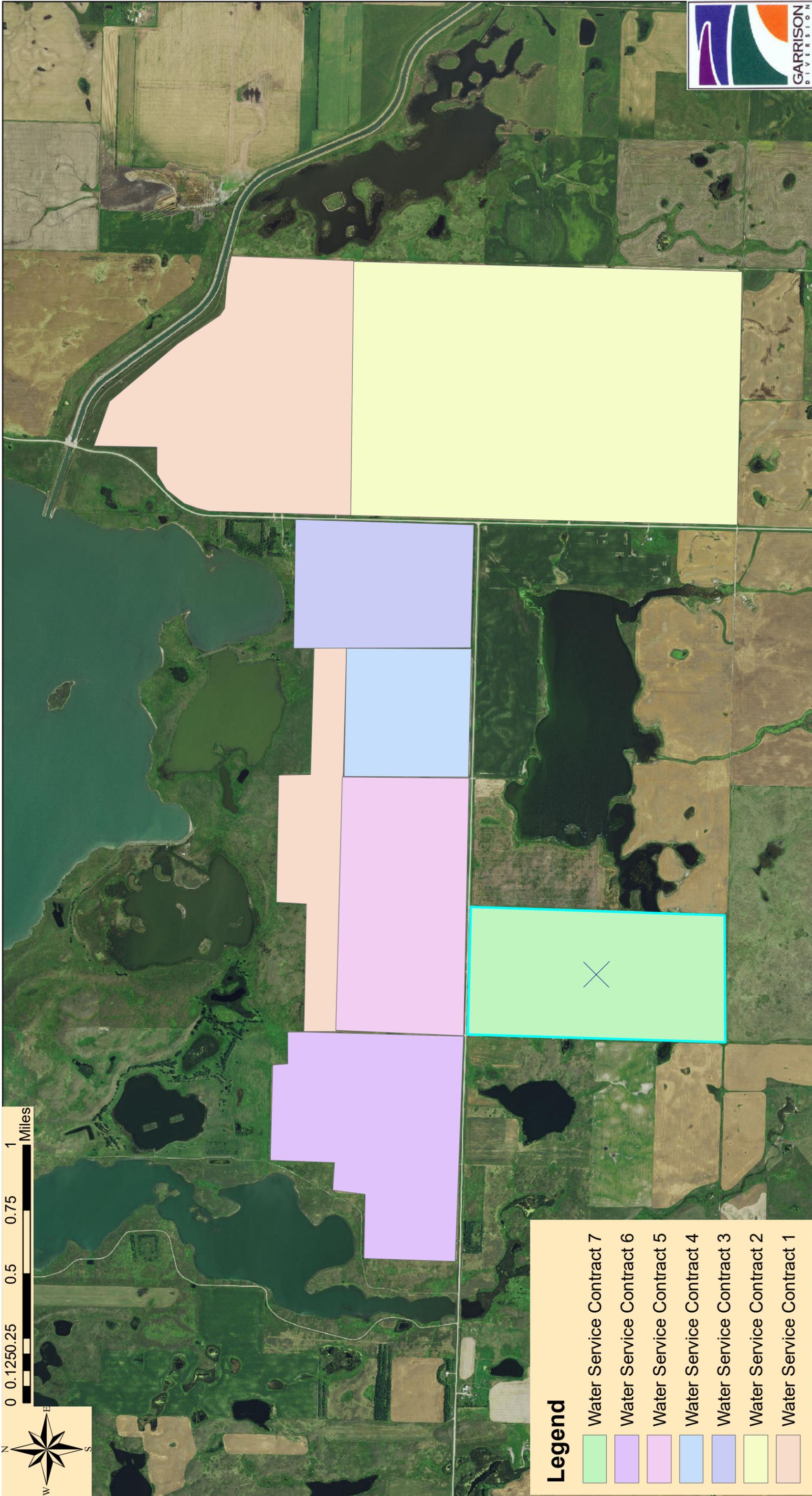
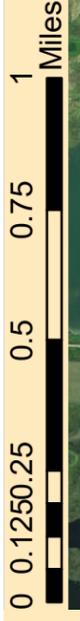
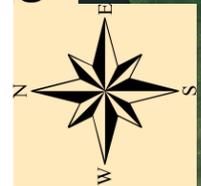


Potential MM 0 Irrigation Project



- Legend**
- MM 0 New Electrical Line
 - MM 0 Off-Farm Development
 - MM 0 On-Farm Development

Potential MM 0 Irrigation Project



Legend

-  Water Service Contract 7
-  Water Service Contract 6
-  Water Service Contract 5
-  Water Service Contract 4
-  Water Service Contract 3
-  Water Service Contract 2
-  Water Service Contract 1



Potential MM 0 Irrigation Project

MM 0.4L Cost Estimate (Off Farm) (250 Acres)

No.	Description	Qty.	Unit	Unit Price	Extended Price
A.	Bonding	1	l.s.	\$ 5,000	\$ 5,000
B.	Mobilization	1	l.s.	\$ 5,000	\$ 5,000
C.	Erosion Control	1	l.s.	\$ 1,000	\$ 1,000
D.	Pumps Stations				\$ -
	75 HP Motos (4RB)	1	ea.	\$ 37,500	\$ 37,500
	Main Transmission Line Filter	1	ea.	\$ 20,000	\$ 20,000
E.	Electrical Work	1	l.s.	\$ 30,000	\$ 30,000
F.	Control Valves @ Pump Station	1	ea.	\$ 15,225	\$ 15,225
G.	Flow Meter	1	l.s.	\$ 5,000	\$ 5,000
H.	Pressure Transmitter	1	l.s.	\$ 1,000	\$ 1,000
I.	Pipes				\$ -
	12" Steel Watermain	100	l.f.	\$ 150	\$ 15,000
	12" PIP (100 psi)	450	l.f.	\$ 25	\$ 11,250
J.	Valves				\$ -
	Pressure Reducing Valve	1	ea.	\$ 2,500	\$ 2,500
K.	Fittings				\$ -
	Steel to PIP Starter Coupler	1	ea.	\$ 2,500	\$ 2,500
L.	Turnouts				\$ -
	Turnout Manifold Assembly	1	ea.	\$ 8,000	\$ 8,000
M.	MEC Electrical				\$ 15,000
N.	10% Contingency				\$ 17,398
Total					\$ 191,373

Cost to Construct per Acre (Off Farm) \$ 765

Total Cost with 50% Cost Share \$ 95,687

Cost to Construct per Acre (Off Farm) with 50% Cost Share \$ 383

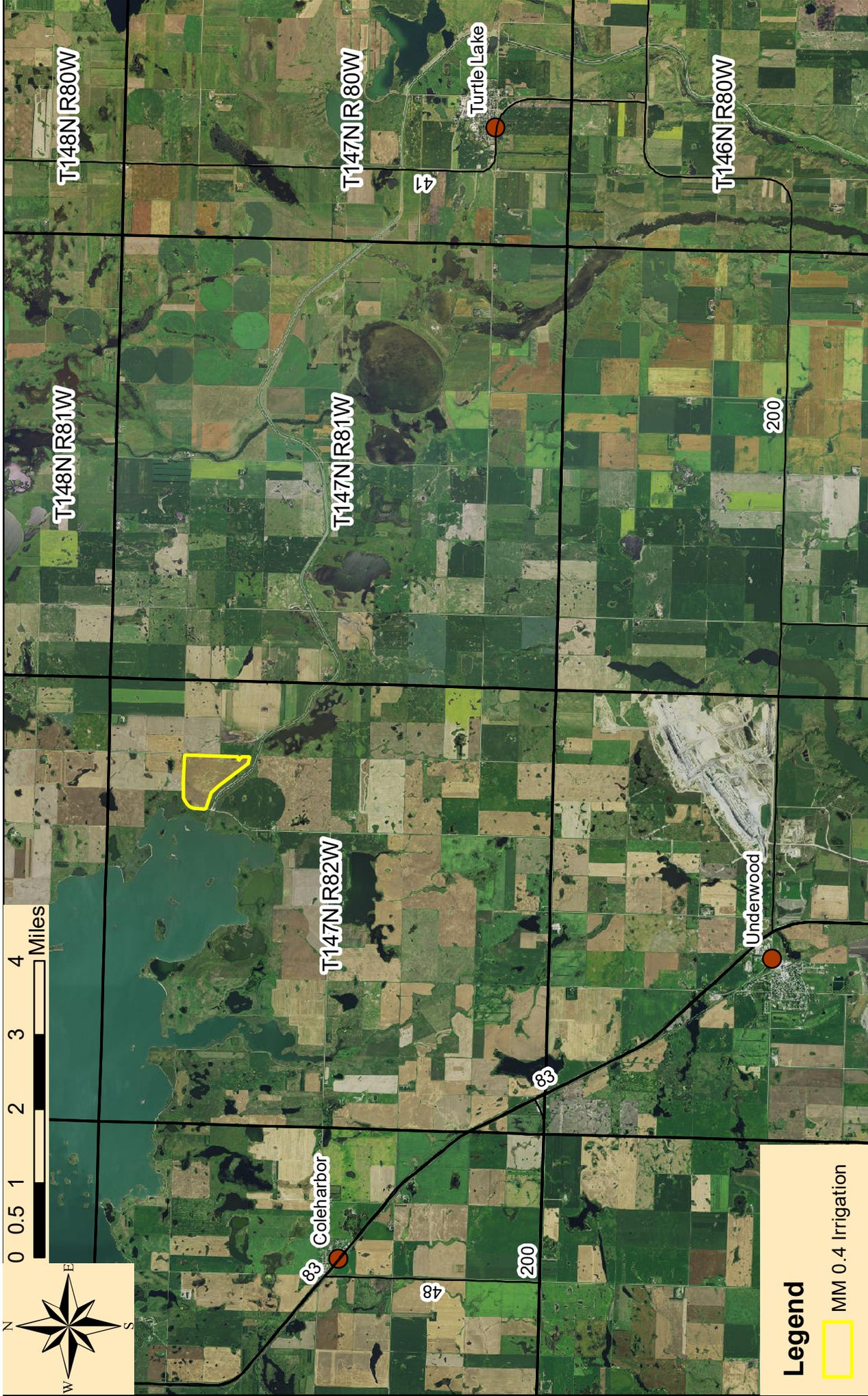
MM 0.4 Pre-Construction Engineering Services (Engineering Design) Estimate

Pre-Constuction Engineering Services	\$ 30,000
35% Request from the SWC for Pre-Constuction Engineering Services	\$ 10,500

50% Cost Share for Central Supply Works from SWC \$ 95,687

35% Cost Share for Pre-Constuction Engineering Services from SWC \$ 10,500

Total Amount Requested from SWC \$ 106,187



Potential MM 0.4 Irrigation Project



Potential MM 0.4 Irrigation Project

APPENDIX G

Date: October 19, 2018

Garland Erbele, PE
State Engineer,
North Dakota State Water Commission,
900 E. Boulevard Ave,
Bismarck, ND 58505

Subject: Odland Dam Rehabilitation Project
Little Beaver Creek, Saddle Butte Township, ND

Dear Mr. Erbele,

The Golden Valley County Water Resource Board has completed an alternatives analysis for evaluating options for the rehabilitation of Odland Dam. The alternatives evaluation study was previously cost-shared with the State Engineer in 2016 through the State Water Commission Project #0394. Three alternatives were examined as potential solutions to address the ongoing erosion, seepage, cracked abutments and spillway repair of the dam.

The Board and local community have used the alternatives evaluation to guide their decision to select the preferred alternative. The preferred alternative is to replace the existing failing spillway with new smaller spillway and associated dam embankment. This alternative was selected as the most cost-effective solution with the best potential for continued long-term reductions in maintenance. The Board's decision was validated during a public meeting held in Beach, ND on July 17, 2018 when all persons in attendance were in agreement with selection of the preferred alternative for dam rehabilitation.

The Odland Dam impoundment on Little Beaver Creek is highly valued by area residents and is listed by the North Dakota Game and Fish Department (NDGF) as a priority water in the Save Our Lakes program. Replacement of the failing spillway will assure the continued presence of this important regional landscape feature and eliminate the any associated safety issues related to the failing structure. The primary objective of the project will be to address the safety concerns associated with the failing structure. The Board expects to begin the study in January of 2018 with completion of final design and permitting by late summer 2019. The cost for completion of final design and permitting is estimated to cost \$146,740.

With this letter and submission of supporting data, the Board respectfully requests cost-share from the North Dakota State Water Commission at 75% of the eligible costs for an amount of \$110,055 under the Commission's current cost-share policy.

Enclosed are a cost-share request form, final design cost proposal, and the Alternatives Evaluation Report. If you have any questions, please free to contact me or our project manager Ron Koth, Barr Engineering Co. at 952-832-2815.

Sincerely,

A handwritten signature in black ink, appearing to read "Bud Ordahl". The signature is written in a cursive, flowing style.

GOLDEN VALLEY COUNTY WATER RESOURCE BOARD

Bud Ordahl
Chair

Attached: SWC cost-share request, Barr Engineering final design and permitting cost proposal,
Alternatives Evaluation Report



COST-SHARE REQUEST FORM
NORTH DAKOTA STATE WATER COMMISSION
DEVELOPMENT DIVISION
 SFN 60439 (8/2018)

This form is to be filled out by the project or program sponsor with State Water Commission staff assistance as needed. Applications for cost-share are accepted at any time. However, applications received less than 45 days before a State Water Commission meeting will be held for consideration at the next scheduled meeting.

Please answer the following questions as completely as possible. Supporting documents such as maps, detailed cost estimates, and engineering reports should be attached to this form. If additional space is required, please use extra sheets as necessary.

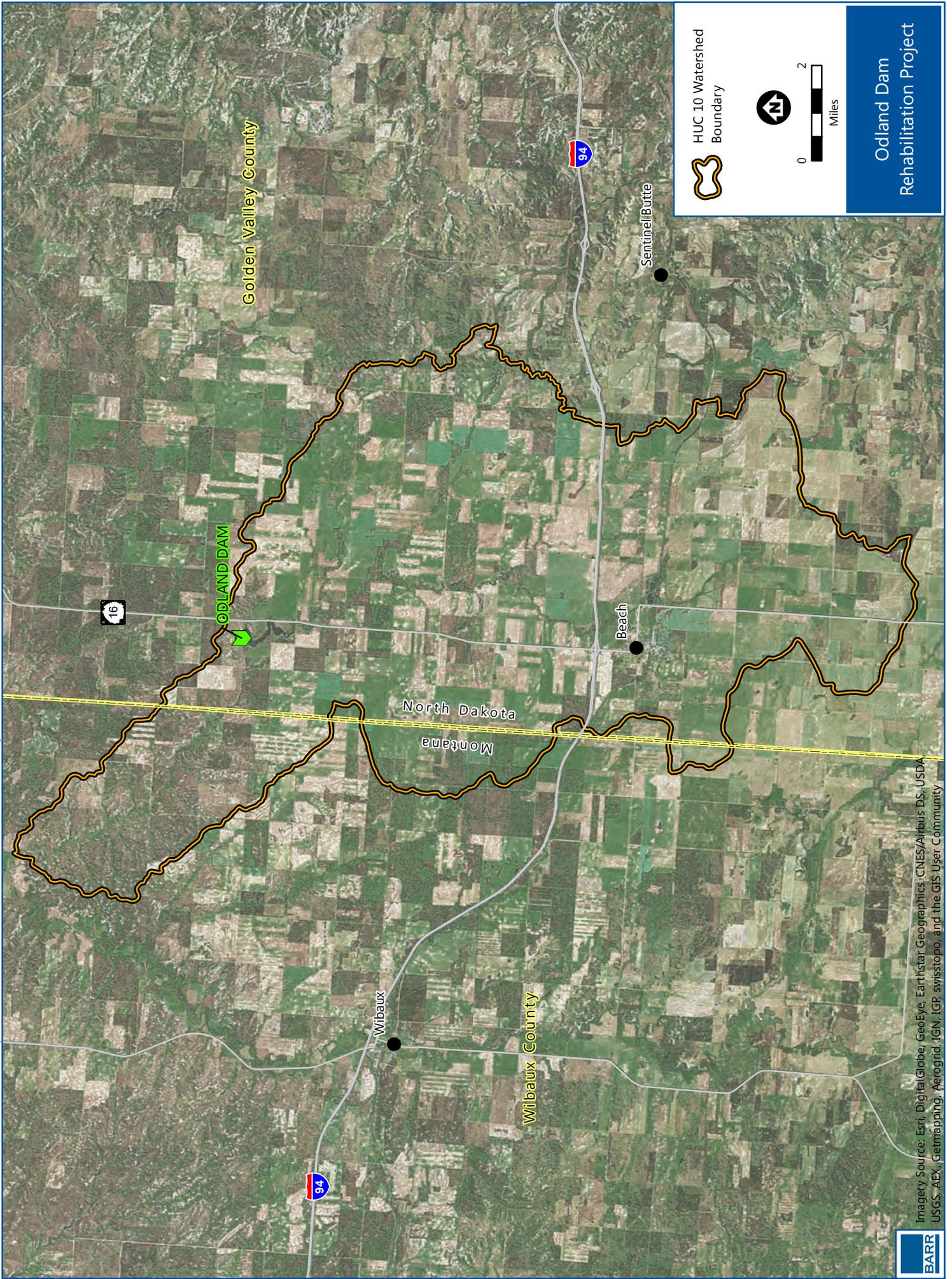
For information regarding cost-share program eligibility see the *State Water Commission Cost-Share Policy, Procedure, and General Requirements* – available upon request or at www.swc.nd.gov.

Project, Program, Or Study Name Odland Dam Rehabilitation Project			
Sponsor(s) Golden Valley County Water Resource Board			
County Golden Valley	City Saddle Butte Township	Township/Range/Section T141N, R105W, S08	
Description Of Request <input checked="" type="checkbox"/> New <input type="checkbox"/> Updated (previously submitted)			
Specific Needs Addressed By The Project, Program, Or Study Final design for replacement of the failing spillway and associated dam embankment.			
If Study, What Type <input type="checkbox"/> Water Supply <input type="checkbox"/> Hydrologic <input type="checkbox"/> Floodplain Mgmt. <input type="checkbox"/> Feasibility <input type="checkbox"/> Other			
If Project/Program			
<input type="checkbox"/> Flood Control	<input type="checkbox"/> Multi-Purpose	<input type="checkbox"/> Bank Stabilization	<input checked="" type="checkbox"/> Dam Safety/EAP
<input type="checkbox"/> Recreation	<input type="checkbox"/> Water Supply	<input type="checkbox"/> Snagging & Clearing	<input type="checkbox"/> Property Acquisition
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Water Retention	<input type="checkbox"/> Rural Flood Control	<input type="checkbox"/> Other
Are Connections Of New Rural Customers Located Within The Extra-Territorial Jurisdiction Of Municipality? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Jurisdictions/Stakeholders Involved Golden Valley County Water Resource Board			
Description Of Problem Or Need And How Project Addresses That Problem Or Need The Odland Dam was originally built by the Federal Emergency Relief Agency (FERA) on the Little beaver Creek in 1936. According to N.D.C.C. Sections 61-16.1-39 and 61-16.1-40, the Golden Valley County Water Resource Board (Board) has the ownership of the dam. The dam is currently facing significant downstream and structural erosion along with severe cracks at the abutments, separated wing walls, and seepage. The Board has completed a feasibility study previously cost-shared by the ND State Engineer that examined three alternatives to a 10% design level to allow evaluation and selection of a preferred alternative for repair of the Dam. The Board and local citizens have selected the alternative to completely replace the existing spillway with a smaller spillway and associated new dam embankment. The Odland Dam impoundment on Little Beaver Creek is highly valued by area residents and is listed by the North Dakota Game and Fish Department (NDGF) as a priority water in the Save Our Lakes program. The primary objective of this funding request for completion of final design and permitting as a precursor to bidding and construction.			
Has Feasibility Study Been Completed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ongoing <input type="checkbox"/> Not Applicable			
Has Engineering Design Been Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Not Applicable			
Have Land Or Easements Been Acquired? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Not Applicable			

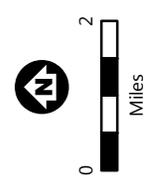
Have You Applied For Any State Permits? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable				
If Yes, Please Explain				
Have You Been Approved For Any State Permits? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable				
If Yes, Please Explain				
Have You Applied For Any Local Permits? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable				
If Yes, Please Explain				
Have You Been Approved For Any Local Permits? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable				
If Yes, Please Explain				
Briefly Explain The Level Of Review The Project Or Program Has Undergone The Board has completed an alternatives analysis study that examined three alternatives for repair and have conducted public outreach meetings with the local community to assist the Board in making the decision on a preferred alternative for repair.				
Do You Expect Any Obstacles To Implementation (i.e., problems with land acquisition, permits, funding, local, opposition, environmental concerns, etc.)? None anticipated				
Funding Timeline (carefully consider when SWC cost-share will be needed)				
Source	Total Cost	2017-2019 7/1/17-6/30/19	2019-2021 7/1/19-6/30/21	Beyond 7/1/21
Federal	\$	\$	\$	\$
State Water Commission	\$	\$ 110,055.00	\$	\$
Other State	\$	\$	\$	\$
Local	\$	\$ 36,685.00	\$	\$
Total	\$ 0.00	\$ 146,740.00	\$ 0.00	\$ 0.00
List All Other State Of North Dakota Funding Sources (Grant or Loan), For Which You Have Applied None				
Please Explain Implementation Timelines, Considering All Phases And Their Current Status 1) January 2019-Begin final design, April 60% design complete for review and permitting, June 90% design, July final design completion				
Have Assessment Districts Been Formed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Not Applicable				
Submitted By Mr. Bud Ordahl, Chairman, Golden Valley Water Resource District			Date October 19, 2018	
Address PO Box 964		City Beach	State North Dakota	ZIP Code 58621-0964
Telephone Number 701-872-4917		Engineer Telephone Number 952-832-2815		
Sponsor Email jdahl@westplains.com		Engineer Email rkoth@barr.com		
I Certify That, To The Best Of My Knowledge, The Provided Information Is True And Accurate.				
Signature 			Date October 19, 2018	

MAIL TO:

ND State Water Commission • ATTN: Cost-Share Program
900 E Boulevard Ave. • Bismarck, ND 58505-0850

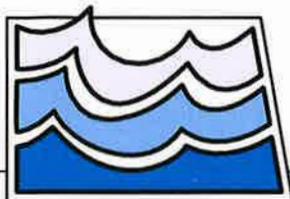


HUC 10 Watershed Boundary



Odland Dam Rehabilitation Project





North Dakota State Water Commission

900 EAST BOULEVARD AVENUE, DEPT 770 • BISMARCK, NORTH DAKOTA 58505-0850
 (701) 328-2750 • TTY 1-800-366-6888 or 711 • FAX (701) 328-3696 • <http://swc.nd.gov>

MEMORANDUM

TO: Governor Doug Burgum
 Members of the State Water Commission

FROM: Garland Erbele, P.E., Chief Engineer - Secretary

SUBJECT: SWPP – Project Update

DATE: November 15, 2018

Oliver, Mercer, North Dunn (OMND) Regional Service Area Rural Distribution Contracts 7-9E and 7-9G Bid Schedule 1:

Final administrative items remain before final payments can be made on Contract 7-9E and Contracts 7-9G Bid Schedule 1.

Other Contracts

Contract 8-1A New Hradec Reservoir:

This contract involves furnishing and installing a 296,000-gallon fusion powder coated bolted steel reservoir. Olander Contracting Company is the contractor. The contract documents were executed on May 16, 2013, and the Notice to Proceed was issued on June 3, 2013. The substantial completion date on this contract was September 15, 2013. The tank was put into service on February 20, 2014. The contractor disputed the liquidated damages withheld. The contractor did not provide any justification for the delays. The contractor filed a lawsuit against us and their tank sub-contractor in October 2016. Our legal counsel filed an answer to their lawsuit. We did not hear anything regarding the lawsuit for many months. In October 2018, the contractor filed the complaint in the District Court and requested scheduling conference for the lawsuit. The scheduling conference is on November 23, 2018.

Contract 3-2D Six (6) MGD Water Treatment Plant (WTP) at Dickinson:

The water treatment plant started producing finished water on February 7, 2018. The contract was considered substantially complete on March 7, 2018. All three contractors are working on administrative and punch list items. An issue with delamination of concrete floors was identified and a solution was provided to the General Contractor. The General Contractor filed a claim disputing the decision by the Engineer on potential change order for the concrete floor repair work. The contractor was directed to complete the repair work, and then the responsibility of the cost be disputed. The floor repair work is complete. A meeting between BW/AECOM, SWC and the contractor to discuss the claim is currently being scheduled. BW/AECOM has determined the cost responsibility for the temporary and permanent heat and electricity between SWC, General, Mechanical and Electrical contractors and forwarded that information to the contractors. It will be incorporated into a future change order. To date, six change orders totaling \$401,652.24 (2 percent of the contract amount) have been signed by all parties.

The Electrical Contractor, Edling Electric, is working on administrative items and punch list items. Two change orders totaling \$56,663.26 (2 percent of the contract amount) are signed by all parties.

The Mechanical Contractor, Williams Plumbing and Heating, is working on administrative items and punch list items. Three change orders totaling \$158,644.48 (6 percent of the contract amount) has been signed by all parties.

Contract 3-2E Residual Handling Building at Dickinson WTP:

The preconstruction conference for this contract was held on October 5, 2017 with all three contractors, Rice Lake Construction Group, Central Mechanical, Inc. and Edling Electric. The General Contractor, Rice Lake Construction Group, mobilized to site on October 16, 2017. The contract has a milestone completion date of September 1, 2018 for having the building enclosed and a Substantial Completion date of February 28, 2019. The Milestone Completion was considered achieved on October 19, 2018. The General Contractor sent a letter indicating that the Electrical and Mechanical contractors were able to begin work on several areas on September 1st and were not impacted, so the intent of the Milestone completion date was achieved on September 1, 2018. BW/AECOM has responded to the letter indicating that their statement regarding Electrical and Mechanical contractors not impacted by the delayed Milestone completion requires concurrence from the Electrical and Mechanical Contractors. It was also noted that possible additional weather days and days for work change directives have not been accounted for yet.

The Electrical and Mechanical contracts are approximately 15 percent and 25 percent complete.

Contract 5-1A and 5-2A 2nd Richardton Reservoir and 2nd Dickinson Reservoir:

The State Water Commission (SWC), at its October 12, 2016 meeting, awarded Contract 5-2A, 2nd Dickinson Reservoir, to John T. Jones Construction Company. Preconstruction conference for this contract was held on March 30, 2017. The contractor has completed work on the new reservoir, and the new reservoir came online on September 7, 2018. Work on the existing tank is mostly complete. Site seeding and reclamation and work on the davit and platform on the existing tank remains to be completed. One change order for \$19,475 (0.5 percent of the contract amount) has been executed by all parties. The contract completion date on this contract was November 1, 2017. Contractor initially requested a 115-day extension to the contract due to weather delays and changes incorporated to the contract. In response to request for more documentation, the contractor changed their request to 67 days. We have responded to their request indicating a 45-day extension is justified. Contractor has sent a request to waive liquidated damages for delay in completion of the contract. The contractor attributes lack of available labor and weather as the reason for delay. BW/AECOM is developing a response based on the supporting weather data provided by the contractor.

The SWC at its December 9, 2016 meeting awarded Contract 5-1A, 2nd Richardton Reservoir, to Engineering America, Inc. A preconstruction conference for this was held on

June 7, 2017. The contract was approximately 88 percent complete. Engineering America, Inc., went out of business as of the end of July. The bonding company has taken over responsibility for the remaining work on the contract. The bonding company has directed us to get quotes for completing the remaining work with them being responsible for any costs above the remaining funds on the contract. The remaining work on the contract will require five different contractors; a bolted tank contractor, cathodic protection contractor, earthwork contractor, welded tank contractor and fencing contractor. We executed contracts with a bolted tank contractor and cathodic protection contractor, and their work is complete. Proposal from the welded tank contractor has been signed to complete the overflow weir work on the existing tank. Earthwork and General contractors have been contacted for proposals for finishing the work.

Contract 2-1B Raw Water Line Capacity Upgrade from intake to OMND WTP:

The scope of work for Contract 2-1B generally consists of furnishing and installing 19,026 lineal feet of 30" diameter steel pipeline. Pipeline installation is complete. Hydrostatic testing of the pipeline and reclamation work remains to be completed. A preliminary list of punch list items has been provided to the contractor. The contractor submitted a claim for approximately \$280,000 alleging differing subsurface condition. BW/AECOM responded by disagreeing to their claim. One change order totaling \$170,866.50 (3 percent of the contract amount) has been signed by all parties.

Contract 1-2A Supplemental Raw Water Intake:

The contractor, J.W.Fowler Company (JWF), launched the Microtunneling Boring Machine (MTBM) along the current alignment in August 2017. On October 5, 2017, JWF had installed approximately 1000 feet of intake pipe when employees observed some cracks on pipe no. 58 located approximately 500 feet from the caisson. After pushing a few additional pipes, the cracks worsened. On October 18, 2017, JWF informed that the best course of action to remediate the incident was to leave the installed pipe string in place and pursue other options to complete the intake pipe to the screen location.

JWF's initial plan was to install a 65 X 25-foot rescue shaft on top of the MTBM to retrieve the machine and relaunch the machine from the rescue shaft. This information was conveyed to the United States Army Corps of Engineers (USACE) to get permission for performing geotechnical exploration. USACE's review indicated that the rescue shaft is located on an established culturally significant site. USACE's ability to allow a rescue shaft at the location would depend on consultation and review by other agencies and tribes and will involve a significant amount of time. JWF explored other options which included constructing an emergency rescue shaft on the shoreline approximately 150' lake side of the MTBM location, installing the intake pipe by using Direct Pipe® option from near the existing shaft to the proposed screen location and using Horizontal Directional Drilling (HDD) for installing the intake pipe. JWF is working with the builder's risk insurance carrier to secure coverage.

HDD method is currently the primary focus for JWF. JWF considered 36" outside diameter (OD) steel pipe and 42" OD HDPE pipe as options. JWF's diving subcontractor completed the underwater topographical survey under the lake during the week of September 11.

SWPP – Project Update

Page 4

November 15, 2018

Based on the topographical data obtained, 42" HDPE pipe along the first tunnel drive is the preferred option for the contractor. The contractor is developing a detailed written description of their plan which will be attached to the permit application for easement and license from the Corps of Engineers.

Contract 4-1E/4-2B Upgrades at the Dodge and Richardton pump stations:

Contract documents are executed for all three contracts – General, Mechanical and Electrical.

Future Contracts:

Specific Authorizations for the design of the 2nd Davis Butte reservoir, 2nd Belfield reservoir and blowoff replacements along the main transmission required because of pump station upgrades, have been executed. These contracts are planned for construction next biennium.

GE:SSP:pdh/1736-99



NORTH DAKOTA
DEPARTMENT of HEALTH

ENVIRONMENTAL HEALTH SECTION
Gold Seal Center, 918 E. Divide Ave.
Bismarck, ND 58501-1947
701.328.5200 (fax)
www.ndhealth.gov



MEMORANDUM

TO: Governor Doug Burgum
Members of the State Water Commission (Commission)

FROM: North Dakota Department of Health (Department)

RE: Drinking Water State Revolving Fund (DWSRF)
Request for Approval of the Comprehensive Project Priority List and Fundable List, as Shown in the Final 2019 Intended Use Plan (IUP) for the North Dakota DWSRF, and Approval to Administer and Disburse DWSRF Funds Pursuant to the List and the Final 2019 IUP

DATE: November 19, 2018

On December 7, the Department will appear before the Commission, as required by state law, to request the above approval. This approval will enable the Department to: apply to the Environmental Protection Agency (EPA) for additional federal capitalization funds for the DWSRF of \$11,107,000 for FY2019; and, administer and disburse DWSRF funds pursuant to the 2019 project list and IUP.

The IUP is a document required by the EPA as part of the DWSRF capitalization grant application process. The IUP details how the DWSRF will operate in 2019 and must include, among other things, a comprehensive project priority list and fundable list that are based on an EPA-approved priority ranking system. A public hearing was held on the draft IUP. A full discussion of the comments received, as well as how they were addressed is included in the final IUP.

The comprehensive project priority list represents an updated master list of projects submitted to the Department for potential DWSRF loan assistance. The fundable list represents the highest ranked projects from the comprehensive list that are anticipated to apply for DWSRF assistance by December 31, 2019. All projects have been ranked in accordance with an EPA-approved priority ranking system, which was developed by the Department using a consultative process.

The comprehensive list changes yearly as projects are added, completed, reranked, or withdrawn. The fundable list will change when higher ranked projects on the list do not proceed, if project costs change, or if other funding sources are involved. Also, the Department, through the issuance of leveraged bonds, is prepared to assist additional projects (beyond those on the fundable list) that become ready to proceed.

In summary, the Department has met EPA requirements in this matter. Therefore, the Department respectfully requests the above approval to enable continued DWSRF assistance for needed drinking water projects statewide.

Questions may be directed to Shannon Fisher at 328-5220.

2019 INTENDED USE PLAN

for the

NORTH DAKOTA DRINKING WATER STATE REVOLVING FUND

prepared by the

DRINKING WATER STATE REVOLVING FUND PROGRAM

DIVISION OF MUNICIPAL FACILITIES

ENVIRONMENTAL HEALTH SECTION



November 19, 2018

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Appendices

Appendix A: Eligible and Ineligible Projects and Project-Related Costs Under the Drinking Water State Revolving Loan Fund (DWSRF) Program

Appendix B: Comprehensive Project Priority List and Fundable List for 2018

Appendix C: Priority Ranking System for Financial Assistance Through the Drinking Water State Revolving Loan Fund (DWSRF) Program

Appendix D: Non-Project Set-Aside and Loan Fee Activity

Appendix E: Amounts Available to Transfer Between State Revolving Fund Programs

Appendix F: Sources and Uses Table

Appendix G: Abbreviations

Introduction

On August 6, 1996, President Clinton signed into law the Safe Drinking Water Act (SDWA) Amendments of 1996 (P.L. 104-182). Section 1452 of the SDWA authorizes a Drinking Water State Revolving Loan Fund (DWSRF) Program. It further requires the U.S. Environmental Protection Agency (EPA) to enter into agreements with and make capitalization grants to eligible states to assist public water systems (PWSs) in financing the costs of infrastructure needed to achieve or maintain compliance with the SDWA and to protect public health.

North Dakota's legislature, under North Dakota Century Code (NDCC) section 61-28.1-11, established a drinking water revolving loan fund that would be administered by the North Dakota Department of Health (NDDoH). The powers and duties of the department include applying for grants from the EPA to be used for purposes authorized under SDWA, administering the fund, disbursing funds, establishing assistance priorities, and adopting rules necessary for the administration of the fund.

North Dakota's DWSRF federal allotments for fiscal years (FY) 1997 through 2018 totaled \$204,930,767, and the anticipated 2019 allotment is \$11,107,000. Allotted funds are provided by the EPA through capitalization grants and matched 20 percent by North Dakota.

DWSRF funds may be used for:

- Loans.
- Loan guarantees.
- A source of reserve and security for leveraged loans (the proceeds of which must be placed in the DWSRF).
- Buying or refinancing existing local debt obligations (publicly-owned systems only) where the initial debt was incurred and construction started after July 1, 1993.
- Earning interest prior to disbursement of assistance.

To the extent that there are enough eligible projects, at least 15 percent of the funds available for construction must be used annually to provide loan assistance to PWSs that serve fewer than 10,000 persons. Up to 30 percent of the funds available for construction may also be used to provide subsidized loans to disadvantaged communities. A portion of the DWSRF allotments may also be used for non-project set-aside activities such as:

- DWSRF Program administration (the maximum of the following: \$400,000, 1/5 percent of the current valuation of the fund, or 4 percent of all grant awards to the fund for the fiscal year).
- State program assistance (up to 10 percent).
- Small system technical assistance (up to 2 percent).
- Local assistance and state programs, including the delineation and assessment

of source water protection areas (up to 10 percent for any one activity with a maximum of 15 percent for all activities combined).

PWSs eligible for DWSRF assistance include community water systems (both publicly- and privately-owned) and nonprofit noncommunity water systems. Federally-owned PWSs are not eligible to receive DWSRF assistance. Appendix A depicts the types of projects and project-related costs that are eligible and ineligible for DWSRF assistance.

Section 1452(b) of the SDWA requires each state to annually prepare an Intended Use Plan (IUP). The IUP must describe how the state intends to use the DWSRF funds to meet the objectives of the SDWA and further the goal of protecting public health. The IUP must be made available to the public for review and comment prior to submitting it to the EPA as part of the capitalization grant application. Specifically, the IUP must include a:

- Priority list of projects, including a description of the projects and the present size of the PWSs served.
- Description of the criteria and methods to be used for the distribution of funds.
- Description of the financial status of the DWSRF Program, including the use of set-asides along with funds reserved, and the amount of funds that will be used to assist disadvantaged communities.
- Description of the short- and long-term goals of the DWSRF Program, including how the capitalization grant funds will be used to ensure compliance and protect public health.

This document is intended to serve as the state of North Dakota's IUP for 2019 and will stay in effect until superseded by a subsequent IUP. In accordance with the authority granted to the North Dakota Department of Health (NDDoH) under North Dakota Century Code (NDCC) Chapter 61-28.1, this document, based on comments received from the public, will be incorporated into a capitalization grant application and submitted to the EPA to further capitalize the state's DWSRF Program in the amount of \$11,107,000 (anticipated amount). State match bonds were issued in 2015 and 2018 to provide the 20 percent match for the capitalization grant.

Priority List of Projects

States are required to develop and maintain a comprehensive priority list of eligible projects for funding and to identify projects that will receive funding in the first year after the capitalization grant award. In determining funding priority, states must ensure to the maximum extent practicable that priority for the use of funds be given to projects that: (1) address the most serious risks to human health; (2) are necessary to ensure compliance under the SDWA; and (3) assist systems most in need on a per household basis (i.e., affordability).

A DWSRF may provide assistance only for expenditures (excluding operation, maintenance, and monitoring) of a type or category which will facilitate compliance or otherwise significantly further health protection under the SDWA. Projects eligible for DWSRF financial assistance include investments to:

- Address present SDWA exceedances.
- Prevent future SDWA exceedances (of regulations presently in effect).
- Replace aging infrastructure.
- Restructure or consolidate water supplies.
- Buy or refinance existing debt obligations (publicly owned systems only) where the initial debt was incurred and construction started after July 1, 1993.

Appendix A provides additional information concerning the types of projects and project-related costs that are eligible for DWSRF financial assistance.

Development Process

As part of the IUP development process, all potential DWSRF loan recipients were requested to notify the NDDoH if they had a drinking water project not presently on the list and for which they were interested in pursuing DWSRF financial assistance. Systems with previously ranked and listed projects were requested to provide the NDDoH with a written update for each project either not yet under construction or under construction using funds other than DWSRF funds. The updates were to include a detailed project description and cost estimate, the amount of DWSRF funds needed, and the anticipated construction start date. In lieu of this information, systems were asked to inform the NDDoH if they no longer intended to complete a project or no longer intended to complete a project using DWSRF assistance. Systems requesting ranking of new projects were provided ranking questionnaires. Requests for project re-ranking or deletion were evaluated on a case-by-case basis, with ranking questionnaires provided as needed. Several projects were deleted due to completion (with or without DWSRF assistance) or the acquisition of other funding sources.

Finalized project priority lists may be amended to include new non-emergency projects. Amendments are subject to public review and comment and may require North Dakota State Water Commission approval.

Priority Ranking System

The priority ranking system was developed by the NDDoH, the state agency with primary enforcement authority for the SDWA. The priority ranking system is designed to ensure that DWSRF funds are focused on solutions to address the most serious risks to human health, rectify SDWA compliance problems, and assist those systems most in need based on affordability considerations. The priority ranking system has received both EPA Region VIII and Headquarter concurrence. The priority ranking system will be amended as needed to reflect the changing nature of the SDWA and the DWSRF

Program. Any significant amendments will be presented for public review and comment in an IUP.

Comprehensive Project Priority List and Fundable List

Appendix B contains the comprehensive project priority list. The fundable list represents those projects from the comprehensive project priority list anticipated to receive loan assistance this year. The list of projects is based on anticipated start dates, projected funding needs, and expected available loan funds (see Financial Status section of this document). The list will change if such information or assumptions vary, if higher ranked projects not on the list become ready to proceed, or if projects on the list are bypassed (see Criteria and Methods for the Distribution of Funds).

Criteria and Methods for the Distribution of Funds

To the maximum extent possible, states are required to prioritize projects needed for SDWA compliance, projects that provide the greatest public health protection, and those projects that assist systems most in need based on affordability. The information below describes the process used by the NDDoH to select projects for potential DWSRF assistance.

Ranking and Project Bypass Considerations

It is the intent of the NDDoH that DWSRF funds are directed toward North Dakota's most pressing SDWA compliance problems and public health protection needs. To this end, the NDDoH reserves the right to require the separation of project components into separate projects, if feasible and necessary, to focus on critical water supply problems. Project components which are separated will be ranked independently. Projects for existing PWSs, including refinancing projects, will be given preference over projects for the development of new water systems.

Under the SDWA, DWSRF funds may be used to buy or refinance existing local debt obligations (for publicly-owned systems only) where the initial debt was incurred and construction started after July 1, 1993. Cross-cutter requirements, including American Iron and Steel and Davis Bacon wage rate requirements, apply to these projects. American Iron and Steel requirements apply to projects with construction after December 16, 2014. Davis Bacon wage rate requirements apply to projects with construction after October 30, 2009. DWSRF assistance requests of this type, if eligible, will be ranked based on the original purpose and success of the constructed improvements. In the event of a tie in project rankings, new projects for existing systems will be given preference over refinancing projects.

The NDDoH reserves the right to fund lower-ranked projects ahead of higher-ranked projects based on the considerations below. To the maximum extent possible, the NDDoH will work with bypassed projects to ensure that they will be eligible for funding in the following fiscal year. Criteria reviewed in bypassing a project include:

- Readiness to proceed (i.e., applicant is prepared to begin construction and is immediately ready or poised to be ready to enter into assistance agreements).
- Willingness to proceed (e.g., applicant withdraws project from consideration, obtains other funding sources, or is nonresponsive).
- Emergency conditions (i.e., an unanticipated failure occurs requiring immediate attention to protect public health).
- Financial (includes inability to pay and loan repayment issues), technical, or managerial capability.
- Meets the 15 percent requirement (i.e., funding lower-ranked project would satisfy the requirement that at least 15 percent of the funds available for construction be used annually to provide loan assistance to PWSs that serve populations of fewer than 10,000 persons).
- Meets the Green Project Reserve (if required).
- Inability to verify initial ranking score.

The NDDoH reserves the right to fund unanticipated, non-ranked emergency projects requiring immediate attention to protect public health without going through a public review process. Such assistance will be limited to (1) eligible PWS types and project features and (2) situations involving acute contaminants, loss or potential loss of a water supply in the near future, or that otherwise represent an unreasonable risk to health.

Capacity

Section 1452 of the 1996 SDWA Amendments precludes states from providing DWSRF assistance to any eligible PWS that lacks the capacity to maintain SDWA compliance, unless the PWS owner or operator agrees to undertake feasible and appropriate changes to ensure compliance over the long term. States are also precluded from providing DWSRF assistance to any eligible PWS that is in significant noncompliance with any requirement of a National Primary Drinking Water Regulation (NPDWR) or variance, unless such assistance will ensure compliance. In the context of the SDWA, PWS capacity refers to the overall technical, managerial, and financial capability of a PWS to consistently produce and deliver drinking water meeting all NPDWRs. The NDDoH has the legal authority and responsibility under NDCC Chapter 61-28.1 to ensure PWS capacity.

The NDDoH will use the DWSRF loan application as the principal control point for capacity assessment. Information from the loan application and other available and relevant information (such as SDWA compliance data, sanitary survey reports, and operator certification status) will be evaluated to assess capacity at present and for the foreseeable future. The North Dakota Public Finance Authority (PFA), as financial agent for the DWSRF Program through formal agreement, will evaluate the financial information provided in the loan application. Based upon input provided by the NDDoH regarding technical and managerial capability, the PFA will make recommendations to the NDDoH concerning financial capability. The final decision regarding overall capacity will be made by the NDDoH.

As required by the SDWA, DWSRF assistance will be denied to applicants considered priority systems because they score 11 or higher in the Enforcement Tracking Tool, if it is determined that the project will not ensure compliance. Likewise, DWSRF assistance will be denied to applicants that lack capacity if they are unwilling or unable to undertake feasible and appropriate changes to ensure capacity over the long term. The lack of capacity at the time of loan application will not preclude DWSRF assistance if the project will ensure compliance, or the applicant agrees to implement changes that will rectify capacity problems. On a case-by-case basis, special conditions may be included in loan agreements to rectify compliance and/or capacity problems. As needed and appropriate, the NDDoH will utilize other specific legal authorities as control points to ensure capacity. This includes the review and approval of plans and specifications. Under NDCC Chapter 61-28.1 and North Dakota Administrative Code (NDAC) Chapters 33-03-08 and 33-18-01, the NDDoH is both empowered and required to review and approve plans and specifications for all new or modified drinking water facilities prior to construction.

Set-Aside and Fee Activities

Under the SDWA, states are required to set aside a certain percentage of their available DWSRF loan funds to provide financial assistance to small systems. States at their option may also set aside a portion of their federal DWSRF allotment for certain other project and non-project activities, and assess fees on loans to help support administration costs. A description of the different set-asides and past/proposed activities related to both set-asides and fees follows.

Mandatory Small System Project Set-Aside

To the extent that there are enough eligible projects to fund, states must annually use at least 15 percent of all funds credited to the DWSRF loan fund to provide loan assistance to PWSs that serve fewer than 10,000 people. States that exceed the 15 percent requirement in any one year are permitted to bank the excess toward future years.

A total of 237 loans totaling \$561,452,470 have been approved to date. Of these, 199 loans (totaling \$242,652,338 or 43.2 percent of loan total) represent PWSs that serve fewer than 10,000 people. The NDDoH envisions that additional loans will be made to small PWSs based on the comprehensive project list and fundable list (See Appendix B).

Mandatory Additional Subsidization Set-Aside

Congress has mandated in previous appropriations bills that 20 to 30 percent of assistance provided from DWSRF capitalization grants be in the form of additional subsidies. The DWSRF program provides these additional subsidies as loan

forgiveness. The NDDoH has the authority under state law (NDCC Chapter 61-28.1) to provide financial assistance through the DWSRF as authorized by federal law and EPA.

Criteria for determining the amount of loan forgiveness is on a project-specific basis. Loan forgiveness will be based on the relative future water cost index (RFWCI). The RFWCI is defined as the ratio of the expected average annual residential water user charge resulting from the project, including costs recovered through special assessments, to the local median household income (based on the most-recent American Communities Survey 5-Year Estimate).

For 2019, projects with a RFWCI of 2.0 percent or greater will qualify for 75 percent loan forgiveness. Projects with a RFWCI of 1.5 percent to 1.9 percent will qualify for 40 percent loan forgiveness. Projects with a RFWCI of less than 1.5 percent will not qualify for any loan forgiveness. Projects that do not qualify for loan forgiveness still qualify for a traditional DWSRF loan.

Loan forgiveness will only be used to finance new construction. DWSRF loan and loan forgiveness can be bundled together with funding from other sources to form funding packages for projects. The combined loan forgiveness and grant in a bundled funding package must be less than or equal to 90 percent of project costs.

To meet congressional and EPA capitalization grant spend-down intent for the DWSRF, the loan forgiveness cap for FY2016 and earlier capitalization grants is removed. The maximum percentage of loan forgiveness will also be raised from 60 percent to 75 percent and from 30 percent to 40 percent for these capitalization grants.

Timely progression of additional subsidization projects is required. To ensure this, there will be a binding commitment deadline, a construction contract notice of award deadline, and a loan forgiveness disbursement deadline. If projects identified as receiving additional subsidization do not meet these deadlines, the additional subsidization set-aside will be used to fund lower-ranked projects on the project priority list.

It is unknown at this time if mandatory additional subsidization will apply to the FY 2019 DWSRF allotment. To address this potential requirement, the fundable portion of the comprehensive project priority list depicts 20 percent (the minimum required) plus \$100,000 additional subsidization through loan forgiveness. Adjustments will be made, as necessary, based on the actual required subsidization level and capitalization grant amount. The DWSRF will disburse the minimum required amount and up to an additional \$100,000. If mandatory additional subsidization is available in FY 2019, up to half of the amount will be utilized for lead service line removal projects to the extent there are eligible projects ready to proceed.

Mandatory Green Project Reserve (GPR) Set-Aside

To the extent there are sufficient eligible applications, Congress has mandated in several previous appropriations bills that 10 to 20 percent of DWSRF capitalization grants be used for water efficiency, energy efficiency, green infrastructure, or other

environmentally innovative activities. Where it is not clear that a project or component qualifies to be included as counting toward the requirement, the files for such projects will contain documentation of the business case on which the project was judged to qualify, as described in the DWSRF capitalization grant requirements.

It is unknown at this time if mandatory GPR will apply. Adjustments will be made to the priority list based on the actual GPR requirement and capitalization grant amount. The DWSRF Program also participates voluntarily in GPR as projects allow.

Disadvantaged Community Set-Aside

States shall provide additional loan subsidies (i.e., reduced interest or negative interest rate loans, principal forgiveness) to benefit communities meeting the definition of disadvantaged or which the state expects to become disadvantaged as the result of the project. A disadvantaged community is one in which the entire service area of a PWS meets affordability criteria established by the state following public review and comment. The value of the subsidies may not be less than 6 percent or more than 35 percent of the amount of the federal capitalization grant for any fiscal year. For 2019, the DWSRF will distribute at least 6 percent but not more than 7 percent of the amount of the capitalization grant.

The EPA is required to provide guidance to assist states in developing affordability criteria. The NDDoH will use the same criteria established for additional subsidization to determine qualification for disadvantaged assistance. For 2019, projects with a RFWCI of 2.0 percent or greater will qualify for 75 percent loan forgiveness. Projects with a RFWCI of 1.5 percent to 1.9 percent will qualify for 40 percent loan forgiveness.

Optional Non-Project Set-Asides

States may use a portion of their federal DWSRF allotment (up to specified ceilings) for the following non-project set-aside activities:

- DWSRF Program administration - the maximum of \$400,000, 1/5 percent of the current valuation of the fund, or 4 percent of all grant awards to the fund for the fiscal year.
- State program administration - up to 10 percent.
 - Public Water Supply Supervision (PWSS) Program
 - source water protection program(s)
 - capacity development program
 - operator certification program
- Small system technical assistance (serving 10,000 or fewer people) - up to 2 percent.
- Local assistance and other state programs - up to 10 percent for any one activity with a maximum of 15 percent for all activities combined.
 - Loans to PWSs to acquire land or conservation easements for source water protection programs.
 - Loans to community water systems to implement source water protection measures or to implement recommendations in source water petitions.

- Assist PWSs in capacity development.
- Assist states in developing/implementing EPA-approved wellhead protection programs.

States may transfer funds among the non-project set-aside categories or between the loan fund and such set-aside categories, provided that the statutory set-aside ceilings are not exceeded. Non-project set-aside funds may be transferred at any time to the loan fund. However, loan commitments must be made for the transferred funds within one year of the transfer of payments that have already been taken for the set-aside funds. Monies intended for the loan fund may be transferred to non-project set-asides only if no payments have yet been taken for the monies to be transferred. Otherwise, funds in or transferred to the loan fund must remain in the loan fund. Transfers may be done only if described in an IUP and approved by the EPA as part of a capitalization grant agreement or amendment.

Non-Project Set-Aside and Fee Activity

Appendix D depicts non-project set-aside and fee activity. The anticipated FY2019 federal DWSRF allotment for North Dakota is \$11,107,000. The NDDoH intends to set aside \$1,466,420 of the allotment for non-project activities. The NDDoH also intends to reserve \$310,700 of set-aside funds of the FY2019 capitalization grant for use in future years, in addition to funds held in reserve from previous years. The state program administration (PWSS Program) set-aside is \$800,000. The 2 percent set-aside for small system technical assistance is \$222,140. The DWSRF administration set-aside method used is the 4% of the capitalization grant option. The 10 percent set-aside will also be held for ongoing and future PWSS administration. The 2 percent set-aside will be held for ongoing and future small system technical assistance. Should the capitalization grant be different than \$11,107,000, the set-aside for DWSRF administration will be adjusted to use the method that provides the maximum set-aside.

The NDDoH has limited, and will continue to limit, the usage of set-asides to maximize funds available for construction. Set-aside usage has been restricted to that necessary to administer the DWSRF Program, provide technical assistance to small PWSs (2 percent set-aside), provide state program administration (10 percent set-aside), and complete source water assessments mandated under the SDWA (15 percent set-aside).

The DWSRF Program administration set-aside is inadequate to cover the cost of administering the DWSRF Program. Congress also will choose at some point to no longer capitalize the program, at which time no new funds will be available for program administration. Based on these considerations, the NDDoH considers it both prudent and necessary to set aside and hold the full DWSRF Program administration set-aside from each grant and accumulated loan administration fees to enable ongoing and future administration of the program.

Funds from the 2 percent set-aside have been used to assist small PWSs in capacity development, financial capacity, operator certification, managerial capacity, and source

water protection. Funds from this set-aside will continue to be used for these purposes and for new initiatives such as assisting these communities in complying with the new Revised Total Coliform Rule. The NDDoH closely monitors demand and need for this set-aside to avert over-accumulation of funds.

The 10 percent state program administration set-aside will be used to help fund administration of the PWSS Program in pursuit of its mission. This set-aside required a 1:1 match by the state for all capitalization grants through the 2016 capitalization grant. One of the sources of funds for this 1:1 match is the 0.5 percent loan administration fee. Another source of funding for the 1:1 match is credit for state match funds spent in 1993 on administration of the PWSS Program. This credit is good for up to half of the 1:1 match with a maximum credit of \$236,359 per year. This match credit does not represent spendable funds. Beginning with the 2017 capitalization grant, the 1:1 match is no longer required.

Under the SDWA, states are permitted to assess fees on loans to support DWSRF administration costs. North Dakota DWSRF loan recipients are required to pay an annual loan administration fee presently set at 0.5 percent of the outstanding loan principal balance. This loan administration fee is payable semiannually on each loan payment date. The fees are held under the master trust indenture and are available to pay DWSRF administration costs allowable under the SDWA. To enable continued management of the DWSRF once the DWSRF is no longer annually capitalized through federal grants, loan administration fees will be held and used for loan-bond servicing and DWSRF administration as allowed under the SDWA. The loan administration fees were also used from 2008 to 2016 as a source of 1:1 match that is required when using the state program administration set-aside to administer the PWSS Program.

To meet congressional and EPA capitalization grant spend-down intent for the DWSRF Program, approximately \$120,000 (or any remaining amount) from the FY2016 10 percent state program administration set-aside will be moved to the construction loan fund during 2019.

Financial Status

The information presented below describes the financial structure of the North Dakota DWSRF, the method used to generate the required state match, transfers between state revolving loan funds (SRFs), the basis for approving loans, loan assistance terms (including a discussion concerning market interest rates in North Dakota), sources and intended use of funds, and special considerations for State and Tribal Assistance Grants (STAG) grants.

Financial Structure

Bonds for the 20 percent state match are issued by the PFA under a master trust indenture adopted by the Industrial Commission of North Dakota. The PFA may also

issue leveraged bonds under the master trust indenture, the proceeds of which can be used to fund loans.

The current demand for DWSRF loan assistance in North Dakota exceeds authorized federal DWSRF allotments and the required state match for those allotments. Under the financial structure initially established for the DWSRF, excess leveraging and higher loan interest rates would be needed to satisfy this excess demand.

A modified financial structure within the existing master trust indenture has been implemented to better satisfy the continuing high demand for DWSRF financial assistance, yet avert excessive leveraging and higher loan interest rates. Under the modified structure, DWSRF allotments and state match bond proceeds will be used first to fund loans. Leveraged bonds will be issued only if (1) loan demand exceeds the amount of DWSRF allotments and state match available for loans or (2) deemed in the best interest of the program. If leveraged bonds are issued, they will be sized together with DWSRF allotments and state match to satisfy current cash flow needs as represented by the projected annual construction costs of eligible projects. This funding approach will expedite loan assistance to more projects that are ready to proceed to construction, avert premature or unnecessary bond issuances, and ensure a more reliable loan repayment stream to satisfy both bond debt service requirements and future loan demand.

In the event there are insufficient amounts available to make scheduled principal and interest payments on outstanding DWSRF bonds when payments are due, the master trust indenture for the DWSRF provides the trustee may transfer available excess revenues from the Clean Water State Revolving Fund (CWSRF) to the DWSRF bond fund to meet the deficiency. Following such a transfer, the DWSRF has an obligation to reimburse the CWSRF with future available DWSRF excess revenues.

State 20 Percent Match Requirement

Under the SDWA, states are required to match their DWSRF allotment at an amount at least equal to 20 percent. North Dakota has issued state match bonds to satisfy match requirements through FY2025.

Anticipated Proportionality Ratio

Leveraged and state match bonds were sold in 2018. The required 20 percent state match has been provided through approximately FY2025. Payments were made using 100 percent state match funds until all of the match funds were disbursed. The program is in an over-matched condition at this time.

Disbursement of Funds

Funds will be disbursed in the following order: federal capitalization grants, state match bond proceeds, leveraged bond proceeds, and FCLA. All state match funds have been disbursed and the DWSRF is currently over-matched. Set-asides are closely monitored

and disbursed quickly when requests are made to ensure timely expenditure and avoid over-accumulation. All federal funds are disbursed in a first-in, first-out manner.

Transfer of Funds Between DWSRF and CWSRF

At the governor's discretion, a state may transfer up to 33 percent of its DWSRF capitalization grant to the CWSRF or an equal amount from the CWSRF to the DWSRF. In addition to transferring grant funds, states can transfer state match, investment earnings, principal and interest repayments, unrestricted cumulative excess, restricted cumulative excess, or FCLA funds between SRF programs.

Transfers were authorized by the governor in 2002, 2004, 2007, 2009, and 2015. These funds are transferred between the programs on an as-needed basis. The governor's authorizations are as follows:

- 2002 - \$10 million from CWSRF to DWSRF
- 2004 - \$4 million from CWSRF to DWSRF
- 2007 - \$20 million from CWSRF to DWSRF (with provision to return funds to CWSRF as needed)
- 2009 - \$2.6 million of American Recovery and Reinvestment Act of 2009 funds from CWSRF to DWSRF
- 2015 - \$60 million from DWSRF to CWSRF (with provision to return funds to DWSRF as needed)

The NDDoH is anticipating the transfer of funds from the CWSRF in 2019, as authorized in 2015. Approximately \$1,000,000 of non-federal funds will be transferred.

The NDDoH transfers funds on a net basis, since prior transfers have occurred between the two SRFs. The current net transfer between programs is \$22,455,491 from the CWSRF to the DWSRF. The \$1 million transfer from the CWSRF in 2019 will change the net transfers between programs to \$23,455,491. It is estimated the long-term impact to the DWSRF average revolving level is an increase of \$121,667 per year over the next 20 years at this level of net transfer. With this transfer, the DWSRF will be able to fund additional water projects during 2019. Transferring funds will not impact DWSRF set-aside funding. Appendix E itemizes the amount of funds transferred to and from the DWSRF Program.

Funding Process

Projects may be submitted to the NDDoH each year for consideration and inclusion into an IUP. A new IUP is developed for public review and comment in the fall of each year. New and eligible projects for which ranking questionnaires are submitted are evaluated, ranked (if possible), and included on the comprehensive project priority list. Requests for re-ranking of previously listed and ranked projects are evaluated on a case-by-case basis, and may require the completion of an updated ranking questionnaire.

Loan approvals are based on project ranking, readiness to proceed, and availability of funds based on cash flow considerations, including projected disbursements under

already approved and potential new loans. The NDDoH is prepared to issue leveraged bonds if the loan demand exceeds the amount of available DWSRF allotments and state match or if it is in the best interest of the program.

Loan Assistance Terms

The base repayment period for DWSRF loans under the SDWA is 20 years following project completion. The NDDoH may utilize shorter repayment periods on a project-by-project basis. Candidate projects include low-cost projects for which minimal water rate increases will be required to retire the loan debt. The loan interest rate will be 1.5 percent for PWSs that qualify for tax-exempt financing and 2.5 percent for those that do not qualify for tax-exempt financing, except for projects that use leveraged bond proceeds. Leveraged bonds will be discussed later in this section. As discussed under Set-Aside and Fee Activities, an annual loan fee of 0.5 percent is assessed on all loans to support DWSRF administration.

The SDWA requires that the interest rate for a loan be less than or equal to the market interest rate. The NDDoH will establish as the market interest rate the average interest rate received by North Dakota political subdivisions on bond issues with a 20-year maturity and sold on a competitive or negotiated basis during the prior quarter. This rate will be calculated and updated quarterly based upon the prior quarter bond sales. If there are no qualified bond sales, the market rate for that quarter will be calculated using comparable regional bond issues. Based upon fourth quarter 2018 North Dakota 20-year competitive bond sales, the current market interest rate is 3.3 percent.

Leveraging the fund is appropriate where financing needs significantly exceed available funds; however, it impacts the DWSRF by reducing the interest rate subsidy provided or reducing future loan capacity. By continuing to leverage, the program will be able to assist more communities currently on the priority list and help those communities achieve or remain in compliance with the SDWA. Loans necessitating leveraging will be subject to a loan interest rate (including the 0.5 percent administration fee) of 75 percent of the current market interest rate, if needed, to maintain program viability. The interest rate on these loans will be more than the regular DWSRF interest rate which currently is 2.0 percent (including the 0.5 percent administration fee).

There is now an option for extended-term financing beyond the base 20-year loan repayment period. Extended-term financing allows for repayment periods to be 30 years or the useful life of the project, whichever is less. A 30-year repayment period will be granted if it is determined that the principal portion of the loan for project components that have a useful life of 20 years or less will be paid off within 20 years. Project components considered having a 20-year or less useful life are process equipment, pumps, electrical equipment, controls, and auxiliary equipment. Project components considered to have a 30-year or more useful life are buildings, concrete, other structures, conveyance structures (piping), and earthen structures.

The NDDoH and the PFA strive to ensure continued long-term viability of the program to provide loans for eligible drinking water projects. To achieve this goal, the refinancing of completed DWSRF projects will not be allowed using the extended-term financing option or the latest interest rate.

Sources and Uses of Funds

Appendix F depicts a detailed breakdown of sources and uses of funds from FY1997 through FY2019. An additional \$10,640,580 of new funds is anticipated to become available in 2019, making \$15,421,629 available for projects. All the funds are allocated to projects as shown in the Comprehensive Project Priority List and Fundable List (Appendix B).

Short- and Long-Term Goals

The 1996 SDWA Amendments authorize a DWSRF Program to assist PWSs in financing the costs of infrastructure needed to achieve or maintain compliance with SDWA requirements and to protect public health. The objectives of the NDDoH's DWSRF Program include addressing public problems and priorities, ensuring compliance with the SDWA, assisting systems to ensure affordable drinking water, and maintaining the long-term viability of the fund. To address these objectives, the DWSRF Program will help ensure that North Dakota's public water supplies remain safe and affordable through prioritized financial assistance, enhanced source water protection activities, and increased technical assistance to small systems. The short and long-term goals set forth below are established to accomplish these objectives.

Short-Term Goals

1. On December 7, 2018, obtain North Dakota State Water Commission approval of this IUP.
2. Continue to implement the DWSRF Program for the state of North Dakota by funding projects for systems that are having problems maintaining compliance with the revised total coliform rule, ground water rule, the arsenic rule, the disinfection byproduct rule series, and the surface water treatment rule series.

Long-Term Goals

1. Help North Dakota PWSs achieve and maintain compliance with the SDWA. This is accomplished by coordinating with the PWSS Program and targeting those rules with which systems in the state are having problems maintaining compliance. These include the lead and copper rule, revised total coliform rule, ground water treatment rule, arsenic, disinfection byproduct rule series, and the surface water treatment rule series.
2. Assist the PWSS Program in meeting goals. The DWSRF Program assistance includes providing technical support on infrastructure issues, capacity reviews, and small system technical assistance. Through the small system technical assistance set-aside, the DWSRF Program helps operators become certified and

- systems return to compliance and maintain capacity.
3. Administer the DWSRF Program in a manner that will maximize the long-term availability of funds for eligible and needed drinking water infrastructure improvements.
 4. Assist North Dakota PWSs in improving drinking water quality, quantity, and dependability by providing reduced interest rate and long-term financial assistance for eligible and needed drinking water infrastructure improvements. This infrastructure assistance helps with compliance of drinking water rules, regionalization/consolidation, and replacement of aging infrastructure.
 5. To the greatest extent possible, continue to integrate DWSRF funding with other available funding to maximize the benefits to public water systems and needed drinking water projects statewide. The cooperating agencies include the U. S. Department of Agriculture, Community Development Block Grant Program, North Dakota Department of Land Trusts, the Bank of North Dakota, and the North Dakota State Water Commission.

Environmental Results

1. Loan Fund
 - a. Through December 31, 2017, the fund utilization rate (as measured by the ratio of executed loans to funds available for projects) was 94 percent which is slightly below the national average of 96 percent. The 2019 goal is to maintain the fund utilization rate at 90 percent or above.
 - b. Through December 31, 2017, the rate at which projects progressed (as measured by disbursements as a percentage of assistance provided) was 81 percent. This is below the national average of 87 percent. The 2019 goal is to maintain the construction pace above 80 percent.
 - c. The DWSRF Program funded 13 projects in the first six months of 2018 totaling \$12.6 million and serving a population of 97,697. The 2019 goal is to fund 20 loans totaling \$30 million and serving a population of 30,000.
2. Set-Asides, Small System Technical Assistance
 - a. The goal for the number of systems receiving training is 120.
 - b. The goal for the number of systems receiving on-site technical assistance is 50.

Public Participation

A state is required to make its annual IUP available to the public for review and comment prior to submitting it to the EPA as part of its capitalization grant application. States are also required to describe the public review process used and how major comments and concerns received were addressed.

Process

The public was invited to comment on the draft 2019 IUP at a public hearing held in Bismarck on November 8, 2018. Written comments were also accepted until November 16, 2018. The following comments were received:

- Dan Jonasson, City of Minot, submitted a questionnaire for a project. The project was ranked and added to the priority list.
- Ken Nysether, SEH, Inc., submitted a questionnaire for a project on behalf of the City of Lincoln. The project was ranked and added to the priority list.
- Jeff Ebsch, Brosz Engineering, submitted a questionnaire for a project on behalf of the City of Stanley. The project was ranked and added to the priority list.
- AJ Tuck, Ulteig Engineers, spoke on behalf of the City of Benedict and their project for water main replacement. The city currently has 3” asbestos cement pipe water mains and approximately 50% of their service lines are lead. Alternatives that are being considered include a full replacement of the water mains or individually connecting residents to North Prairie Rural Water. The city has experienced four water main breaks in the past year, which has dwindled funds in the water account. Rates will be raised to accommodate current and anticipated system costs.
- AJ Tuck, Ulteig Engineers, spoke on behalf of the City of Riverdale and their project for a water tower, water treatment plant upgrades, and water main replacement. The city plans to raise water rates. An advisory board, which consists of Riverdale, Underwood, and North Prairie Rural Water, oversees the water tower and water treatment plant. Underwood and North Prairie Rural Water have not yet agreed to a cost share for the project but may reconsider if the project receives loan forgiveness. Funding from the State Water Commission is not expected to be available for this project. The project has applied for a Section 513 grant through the United States Army Corp of Engineers.

Appendix A

Eligible and Ineligible Projects and Project-Related Costs Under the Drinking Water State Revolving Loan Fund (DWSRF) Program

Examples of Eligible Projects and Project-Related Costs

- Projects that address present Safe Drinking Water Act (SDWA) exceedances.
- Projects that prevent future SDWA exceedances (applies only to regulations in effect).
- Projects to replace aging infrastructure.
- Rehabilitate or develop drinking water sources (excluding reservoirs, dams, dam rehabilitation, and water rights) to replace contaminated sources.
- Install or upgrade drinking water treatment facilities if the project would improve the quality of drinking water to comply with primary or secondary SDWA standards.
- Install or upgrade storage facilities, including finished water reservoirs, to prevent microbiological contaminants from entering the water system.
- Install or replace transmission and distribution piping to prevent contamination caused by leaks or breaks, or to improve water pressure to safe levels.
- Projects to restructure and consolidate water supplies to rectify a contamination problem, or to assist systems unable to maintain SDWA compliance for financial or managerial reasons (assistance must ensure compliance).
- Projects that purchase a portion of another system's capacity if such purchase will cost-effectively rectify an SDWA compliance problem.
- Land acquisition.
 - Land must be integral to the project (i.e., needed to meet or maintain compliance and further public health protection, such as land needed to locate eligible treatment or distribution facilities).
 - Acquisition must be from a willing seller.
- Planning (including required environmental assessment reports), design, and construction inspection costs associated with eligible projects.
- Service lines from the main to the house, including lead service lines.

Examples of Ineligible Projects and Project-Related Costs

- Dams or rehabilitation of dams.
- Water rights, except if the water rights are owned by a system that is being purchased through consolidation as part of a capacity development strategy.
- Reservoirs, except for finished water reservoirs and those reservoirs that are part of the treatment process and are located on the property where the treatment facility is located.
- Drinking water monitoring costs.
- Operation and maintenance costs.

- Projects needed mainly for fire protection.
- Projects for systems that lack adequate technical, managerial, and financial capability, unless assistance will ensure compliance.
- Projects for priority systems in the Enforcement Tracking Tool, unless funding will ensure compliance.
- Projects primarily intended to serve future growth.

Appendix B

Shaded projects are on the fundable list

Comprehensive Project Priority List and Fundable List for 2019¹

Priority Ranking	Priority Points	Tracking No.	System Name	Present Population	Project Description	Project Cost (\$1,000)	Construction Start Date	Est. Loan Term ⁴	Engineering Firm
159	8	1801056-18-01	Agassiz WUD	4,044	Transmission main between reservoirs	3,000	2019		AE2S
132	9	1801056-19-01	Agassiz WUD	4,044	Water main replacement (Oldham Ave)	250	2019		AE2S
41	16	4001153-14-01	All Seasons WUD	764	Parallel and looped pipelines to correct low pressure issues	796	2019		Bartlett & West
80	13	4001153-14-02	All Seasons WUD	754	Service to Turtle Mountains/Lake Metigoshe area	27,920	2020		Bartlett & West
6	21	4001153-15-01	All Seasons WUD ²	2,233	WTP & wellfield improvements, pipeline to connect systems	6,638	2019	20	Bartlett & West
96	11	0900035-11-01	Arthur	337	Water tower replacement	1,450	2019		Moore
28	18	1700059-14-01	Beach	1,300	Transmission main to connect north standpipe to south end of system	1,933	2020		AE2S
3	23	1700059-18-01	Beach	1,019	Transmission main & lead service line replacement	4,130	2020		Highlands
150	8	4500065-15-01	Belfield	910	Transmission main	1,302	2019		AE2S
199	6	4500065-18-01	Belfield	910	Water main replacement	2,529	2019		AE2S
156	8	4500065-18-02	Belfield	910	Water storage rehab or replacement	3,090	2019		AE2S
1	27	2800069-19-01	Benedict	75	Water main replacement & pump house upgrades	1,565	2020		Ulteig
195	6	5100072-18-01	Berthold	454	Gate valve, hydrant, & water main replacement	100	2019		Moore
205	6	5100072-18-02	Berthold	454	Water tower improvements	150	2019		Moore
169	7	2900074-14-01	Beulah	3,121	Water main, hydrant, gate valve, & lead service line replacement	1,000	2019		Moore
196	6	2900074-19-01	Beulah	3,121	Well, pump, & control repairs, well & transmission line installation	500	2020		Moore
109	10	0800080-19-01	Bismarck	135,000	Water main & lead service line replacement	3,700	2019		Bismarck
25	18	0500099-16-01	Bottineau	2,331	WTP RO system	12,000	2022		AE2S/Wold
233	4	0600119-09-01	Bowman	1,800	Water main replacement	1,000	2019		Brosz
240	4	0600119-14-01	Bowman	1,800	Water main replacement (4th Avenue W)	1,011	2020		Brosz
251	3	0600119-19-01	Bowman	1,800	Water tower rehabilitation	850	2020		Brosz
91	11	0900134-11-01	Buffalo	225	Water main, service line, gate valve, & hydrant replacement	1,900	2019		Moore
226	5	5100138-12-01	Burlington	1,191	Storage tank	1,650	2021		Ackerman-Estvold
149	8	5100138-18-01	Burlington	1,191	Water main & gate valve replacement	140	2019		Ackerman-Estvold
101	11	4800152-13-02	Cando	1,115	Water main replacement	1,800	2019		Moore
105	11	4800152-18-01	Cando	1,115	Refinance of WTP improvements project & connection to NRWD	2,200			Moore
175	7	1600159-19-01	Carrington	2,200	Refinance of WTP expansion	3,661			Interstate
15	19	1900162-19-01	Carson	263	Distribution system improvements	2,930	2019	30	Interstate
206	6	0901060-05-02	Cass Rural Water Users District	16,885	Storage improvements	3,575	2019		Bartlett & West
93	11	0901060-16-01	Cass Rural Water Users District	16,885	Transmission lines, distribution lines, & storage for correction of water quantity & pressure issues	2,750	2019		Bartlett & West
234	4	0900166-19-01	Casselton	2,513	Lead service line replacement	500	2021		Moore
42	16	3400170-18-01	Cavalier	1,540	Ground storage reservoir	800	2021		AE2S
5	21	3400170-09-01	Cavalier ²	1,540	Water tower replacement	2,200	2019	30	AE2S
92	11	3300174-18-01	Center	580	Water main replacement	2,106	2019		Ulteig
55	14	3900183-09-01	Christine	150	Water main, gate valve, & hydrant replacement	600	2019		Moore
235	4	3900196-06-01	Colfax	147	Water main replacement	478	2019		Interstate
16	19	0700198-16-01	Columbus	133	Water main replacement	1,441	2019		Ackerman-Estvold
168	8	2001061-18-01	Dakota RWD	3,369	Extend services to residential user on private wells	9,100	2019		AE2S
23	18	0900217-11-01	Davenport	264	Upsize transmission line, storage improvements, control replacement, & booster station renovation/replacement	753	2019		Interstate
10	20	0200226-16-01	Dazey	104	Water main replacement & reservoir system upgrades	250	2019	30	Interstate

Priority Ranking	Priority Points	Tracking No.	System Name	Present Population	Project Description	Project Cost (\$1,000)	Construction Start Date	Est. Loan Term ⁴	Engineering Firm
116	10	3400269-11-01	Drayton	824	Clearwell replacement	2,215	2020		AE2S
69	13	3400269-16-01	Drayton	824	Intake & WTP updates	7,638	2020		AE2S
47	15	1801062-19-01	East Central RWD	12,147	Transmission lines, connections to other suppliers for redundancy, & well improvements	6,200	2019		AE2S
31	17	1900303-18-01	Elgin	642	Water main replacement	2,271	2019		Ulteig
102	11	3700314-02-01	Enderlin	1,082	Well field & transmission line	1,648	2019		Moore
97	11	3700314-02-02	Enderlin	1,082	Water main replacement	775	2019		Moore
84	12	3700314-02-03	Enderlin	1,082	WTP improvements	1,648	2019		Moore
70	13	3700314-08-01	Enderlin	1,082	Water tower replacement	1,957	2019		Moore
133	9	3900333-06-01	Fairmount	367	Water main replacement	675	2019		Moore
119	10	0900336-09-01	Fargo	155,620	Water tower rehabilitation 2019	1,030	2019		AE2S
207	6	0900336-11-01	Fargo	155,620	High service pump station modifications	8,807	2019		AE2S
208	6	0900336-11-02	Fargo	155,620	WTP residuals facility	36,050	2019		AE2S
160	8	0900336-12-02	Fargo	155,620	Downtown water tower improvements	6,750	2019		AE2S
209	6	0900336-12-03	Fargo	155,620	Water tower rehabilitation 2020	1,030	2020		AE2S
161	8	0900336-15-01	Fargo	155,620	WTP facility plan phase II	11,750	2019		AE2S
37	16	0900336-16-01	Fargo	155,620	Regionalization improvements- booster station, generator, & improvements to the distribution system, low lift transfer pump station, & WTP	5,200	2019		AE2S
162	8	0900336-18-01	Fargo	155,620	Drain 27 conveyance improvements	6,500	2019		AE2S
176	7	0900336-18-02	Fargo	155,620	Lead service line replacement	515	2019		AE2S
177	7	3000342-16-01	Flasher	230	Water main replacement	376	2019		Ulteig
32	17	0700344-13-02	Flaxton	74	Water main, hydrant, & gate valve replacement	340	2019		Ackerman-Estvold
57	14	1100346-15-01	Forbes	53	Water main, service, meter, gate valve, & hydrant replacement	1,150	2019		Moore
58	14	4100357-08-01	Forman	504	Water tower replacement	1,200	2019		Moore
60	14	4100357-14-01	Forman	504	Well upgrades, transmission line replacement	750	2019		Moore
71	13	4100357-15-01	Forman	504	Distribution system upgrades	900	2019		Moore
67	14	2400380-19-01	Gackle	310	Remote reading water meters & software	253	2019		Interstate
77	13	0900387-06-01	Gardner	80	Water main replacement	400	2019		Moore
117	10	2800389-13-01	Garrison	1,453	WTP expansion	5,000	2019		Moore
98	11	2800389-13-02	Garrison	1,453	Water main replacement	4,500	2019		Moore
163	8	2800389-15-01	Garrison	1,453	Intake structure replacement	2,000	2019		Moore
210	6	2801430-19-01	Garrison RWD	1,400	Water mains, gate valves, & appurtenances	500	2019		Ackerman-Estvold
45	15	4500396-18-01	Gladstone	300	Storage tank & water main replacement	1,300	2019		Bartlett & West
134	9	3000400-19-01	Glen Ullin	807	Refinancing of distribution system improvements	1,000			Moore
61	14	3000400-19-02	Glen Ullin	807	Water main replacement & looping	2,000	2020		Moore
197	6	3800397-13-01	Glenburn	380	Water main, gate valve, & hydrant replacement	1,640	2019		Moore
90	12	5000408-02-01	Grafton	4,913	Pretreatment & advanced oxidation WTP improvements	10,441	2023		AE2S
120	10	5000408-03-01	Grafton	4,913	Park River water intake improvements	1,315	2021		AE2S
121	10	5000408-16-01	Grafton	4,913	Raw water transmission line replacement	2,096	2022		AE2S
122	10	5000408-16-02	Grafton	4,913	Red River intake improvements	4,854	2021		AE2S
106	11	1801062-15-01	Grand Forks-Traill RWD	8,900	Transmission lines	6,386	2019		AE2S
200	6	2500415-12-01	Granville	300	Water main replacement	364	2019		Ackerman-Estvold
135	9	5300425-18-01	Grenora	350	Water main replacement (Robinson St)	853	2019		Ackerman-Estvold
136	9	5300425-18-02	Grenora	350	Water main replacement (Railroad Ave)	876	2019		Ackerman-Estvold
137	9	5300425-19-01	Grenora	350	Water main replacement (Hanks St)	856	2019		Ackerman-Estvold

Priority Ranking	Priority Points	Tracking No.	System Name	Present Population	Project Description	Project Cost (\$1,000)	Construction Start Date	Est. Loan Term ⁴	Engineering Firm
178	7	1300432-19-01	Halliday	188	Water main replacement & rehab	1,200	2019		Interstate
72	13	2000446-09-01	Hannaford	150	Water tower replacement & pump house improvements	1,200	2019		Moore
8	20	5200458-16-01	Harvey	1,783	WTP improvements	800	2019	20	Moore
43	16	5200458-19-01	Harvey	1,783	Refinance of water main replacement	2,250			Moore
243	3	0900460-16-01	Harwood	718	Water main looping	280	2020		Moore
103	11	4900465-19-01	Hatton	777	Water main, hydrant, valve, and service line replacement	1,000	2019		Moore
236	4	2900470-16-01	Hazen	2,411	Storage tank	1,500	2019		Moore
201	6	3000473-16-01	Hebron	750	Water tower replacement	800	2020		AE2S
78	13	4900482-19-01	Hillsboro	1,603	Transmission main repair & replacement	700	2019		AE2S
107	11	4600487-08-01	Hope	258	Water main extension	190	2019		Moore
244	3	0900488-15-01	Horace	1,600	Water tower improvements	188	2019		Interstate
252	2	0900488-16-01	Horace	1,600	Water main, gate valve, & hydrant replacement	756	2019		Interstate
54	14	0900488-18-01	Horace	1,600	WTP improvements & elevated storage reservoir	5,915	2019		Interstate
38	16	0900492-15-01	Hunter	261	Pump house upgrades, water tower replacement	2,100	2020		Moore
79	13	0900492-15-02	Hunter	261	Water main replacement	3,100	2020		Moore
211	6	4700498-02-01	Jamestown	16,000	Treated water transmission line (WTP to Porter Brothers tank)	4,500	2020		Interstate
212	6	4700498-09-01	Jamestown	16,000	Remote reading water meters & software	2,835	2019		Interstate
213	6	4700498-13-01	Jamestown	16,000	WTP, storage, & distribution system SCADA improvements	455	2019		Interstate
153	8	4700498-13-02	Jamestown	16,000	WTP filter controls & media replacement	860	2019		Interstate
129	9	4700498-14-01	Jamestown	16,000	Transmission line replacement (WTP to state hospital)	2,760	2019		Interstate
179	7	4700498-14-02	Jamestown	16,000	Transmission line to improve flow to NE pressure zone	4,968	2020		Interstate
180	7	4700498-18-01	Jamestown	16,000	Pitless unit well improvements	200	2019		Interstate
181	7	4700498-18-02	Jamestown	16,000	Water main replacement	1,653	2019		Interstate
214	6	4700498-18-03	Jamestown	16,000	Lime slaker improvements	290	2019		Interstate
215	6	4700498-19-01	Jamestown	16,000	Backwash recycle system	400	2019		Interstate
216	6	4700498-19-02	Jamestown	16,000	Water tower improvements	350	2019		Interstate
11	20	2300508-15-01	Jud	72	Distribution system & pump house improvements	300	2019	30	Moore
173	7	5100515-15-01	Kenmare	1,200	Water main, gate valve, & hydrant replacement	575	2019		Ackerman-Estfold
182	7	2300535-09-01	Kulm	354	Water tower replacement	1,200	2019		Moore
183	7	3200536-18-01	Lakota	780	Water tower replacement	700	2019		AE2S
130	9	2300537-14-01	LaMoure	889	Water main replacement	500	2019		Moore
170	7	1000543-09-01	Langdon	1,878	Water main replacement	1,435	2020		Moore
245	3	1000543-09-02	Langdon	1,878	Water tower rehabilitation	450	2020		Moore
30	17	1800550-16-01	Larimore	1,350	Distribution system replacement	8,439	2019		AE2S
56	14	0300553-13-01	Leeds	427	Well & transmission line upgrades	375	2019		Moore
85	12	0300553-13-02	Leeds	427	WTP improvements	2,019	2019		Moore
81	12	0300553-13-03	Leeds	427	Pipe & lead service line replacement	600	2019		Moore
12	20	2600556-11-01	Lehr	80	Water main replacement	500	2019	30	Moore
62	14	3900567-16-01	Lidgerwood	652	Water main replacement	510	2019		Interstate
110	10	0800570-16-01	Lincoln	4,500	Transmission line from Bismarck	1,750	2019		SEH
198	6	0800570-19-01	Lincoln	4,350	Water storage tank replacement	3,300	2019		SEH
94	11	3700574-11-01	Lisbon	2,154	Water well	150	2019		Moore
82	12	3700574-11-02	Lisbon	2,154	Water main replacement	2,500	2019		Moore
46	15	3700574-14-01	Lisbon	2,154	WTP upgrades	1,000	2019		Moore
63	14	5100593-13-01	Makoti	154	Well improvements	400	2019		Moore
17	19	5100593-13-02	Makoti	154	Water main replacement	2,000	2020		Moore

Priority Ranking	Priority Points	Tracking No.	System Name	Present Population	Project Description	Project Cost (\$1,000)	Construction Start Date	Est. Loan Term ⁴	Engineering Firm
246	3	3000596-09-01	Mandan	24,227	30" transmission line replacement	5,172	2019		AE2S
190	7	3000596-13-03	Mandan	22,228	Distribution system improvements (Boundary Road PRV)	551	2019		AE2S
174	7	3000596-16-03	Mandan	22,228	Raw water intake	20,835	2019		AE2S
237	4	3000596-19-01	Mandan	22,228	Reservoir replacement	2,800	2021		AE2S
111	10	0900613-16-01	Mapleton	946	Storage tank replacement	1,400	2019		Moore
138	9	2800619-18-01	Max	334	Water main & service line replacement	447	2019		Ackerman-Estvold
18	19	0500620-16-02	Maxbass	80	Water main, gate valve, & hydrant replacement	500	2019		Moore
64	14	4900622-16-01	Mayville	1,858	WTP upgrades	500	2019		Moore
4	23	4200626-19-01	McClusky	380	Water tower, transmission lines, & booster station	2,500	2020		Moore
53	15	4200626-19-02	McClusky	380	Water main, hydrants, & appurtenances	325	2019		Moore
44	16	4200626-19-03	McClusky	380	Lead service line replacement	325	2019		Moore
29	17	2801400-19-01	McLean-Sheridan RWD	3,292	Correct low flow & pressure problems, WTP expansion	16,188	2020		AE2S
14	19	3200636-19-01	McVille	336	WTP improvements	600	2021		Moore
39	16	4700637-16-01	Medina	308	WTP & well improvements	800	2019		Moore
51	15	4700637-16-02	Medina	308	Water main & service line replacement	4,000	2019		Moore
65	14	4700637-16-03	Medina	308	Water tower replacement	1,000	2019		Moore
123	10	4700637-16-04	Medina	308	Refinance of WTP improvements	80			Moore
241	4	3200653-13-01	Michigan	345	Water tower improvements	75	2019		Moore
154	8	4101425-19-01	Milnor	638	Control replacement, booster station renovation, & backup generator	490	2019		Interstate
238	4	5100660-19-01	Minot	80,000	Water main relocation	1,076	2019		Houston
95	11	5000691-14-01	Minto	604	Water main replacement	780	2019		AE2S
225	6	5000691-14-02	Minto	604	Portion of new public works building that is directly related to the drinking water system	363	2019		AE2S
242	4	3001431-19-01	Missouri West Water System	7,618	Administrative office & shop	1,200	2019		
227	5	3001431-19-02	Missouri West Water System	7,438	Water storage improvements	482	2019		Bartlett & West
228	5	3001431-19-03	Missouri West Water System	7,438	Automatic meter reading system	374	2019		Bartlett & West
247	3	3800695-14-01	Mohall	808	Water main looping	426	2021		Ackerman-Estvold
171	7	3800695-18-01	Mohall	808	Water main replacement	272	2020		Ackerman-Estvold
127	9	3900703-11-01	Mooreton	197	Gate valve replacement, control upgrades, bladder tank storage	200	2019		Interstate
217	6	2400715-13-01	Napoleon	707	Service to residents on private wells	900	2020		Moore
73	13	1400732-12-01	New Rockford	1,391	Water main, gate valve, & hydrant replacements; WTP upgrades	5,800	2019		Interstate
218	6	1400732-12-02	New Rockford	1,391	Water storage improvements	290	2019		Interstate
89	12	3000736-16-01	New Salem	1,000	Water main replacement (Phase I)	2,260	2019		AE2S
124	10	3100744-18-01	New Town	2,524	Gate valve & hydrant replacement	285	2019		Ackerman-Estvold
104	11	3100744-18-02	New Town	2,524	Water main & service line replacement	406	2019		Ackerman-Estvold
202	6	1200748-18-01	Noonan	144	Water main replacement	641	2019		Ackerman-Estvold
113	10	5101065-18-02	North Prairie RWD	13,085	WTP improvements, well replacement	2,300	2019		Interstate
191	7	5101189-19-01	North Prairie RWD	10,208	Generators at reservoirs & booster stations	594	2019		Interstate
86	12	5101189-19-02	North Prairie RWD	10,208	Distribution system to serve Benedict as individual users	490	2020		Interstate
115	10	1001380-19-01	Northeast RWD	9,806	Water meters, automatic meter read system, & meter vaults	1,000	2019		AE2S
193	7	1001380-19-02	Northeast RWD	9,806	Extend services to residential users on private wells	3,000	2019		AE2S
99	11	1001380-19-03	Northeast RWD	9,806	Extend service to meet user demands	500	2020		AE2S
219	6	1100758-09-01	Oakes	1,856	Reservoir, pump station, & transmission line	720	2019		Moore
139	9	1100758-11-01	Oakes	1,856	WTP improvements	2,000	2019		Moore

Priority Ranking	Priority Points	Tracking No.	System Name	Present Population	Project Description	Project Cost (\$1,000)	Construction Start Date	Est. Loan Term ⁴	Engineering Firm
184	7	1100758-11-02	Oakes	1,856	Well & well house replacement	400	2019		Moore
13	20	0300762-15-01	Oberon	104	Distribution system replacement	3,100	2020		Moore
19	19	0300762-15-02	Oberon	104	Well & pump house replacement	550	2020		Moore
27	18	0200763-09-01	Oriska	128	Water reservoir & pump house replacement	550	2019		Moore
66	14	5000773-14-01	Park River	5,100	Water main replacement	1,600	2020		AE2S
192	7	3100775-19-01	Parshall	903	Water tower replacement	2,000	2020		AE2S
83	12	3100798-16-01	Plaza	171	Well & WTP rehab for emergency use	2,000	2020		AE2S
229	5	3100798-16-02	Plaza	171	Hydrant rehab or replacement	500	2020		AE2S
151	8	3100798-16-03	Plaza	171	Water tower replacement	750	2020		AE2S
248	3	0700800-19-01	Portal	150	Water main looping	150	2020		Ackerman-Estvold
249	3	0700800-19-02	Portal	150	Hydrant & gate valve replacement	235	2020		Ackerman-Estvold
140	9	4900803-08-01	Portland	606	Water tower replacement	1,350	2019		Moore
2	24	2800825-18-01	Riverdale	222	Water tower, WTP upgrades, & water main replacement	1,961	2019	20	Ulteig
26	18	2200827-16-01	Robinson	37	Pumping system improvements & water main, gate valve, hydrant, & curb stop replacement	250	2019		Moore
20	19	4000833-12-01	Rolette	594	Water main, gate valve, & hydrant replacement	4,000	2019		Moore
87	12	4000833-19-01	Rolette	594	Water meter replacement, service to residents on private wells	425	2019		Moore
164	8	4100848-16-01	Rutland	163	Water main looping	500	2019		Moore
74	13	4100848-18-01	Rutland	163	Water tower replacement; piping, valving, & controls replacement in city's building which meters water purchased from Southeast WUD	1,000	2019		Moore
141	9	0200858-13-01	Sanborn	194	Water main, service line, gate valve, & hydrant replacement	575	2019		Moore
114	10	5100868-14-01	Sawyer	367	Water main, hydrant, & gate valve replacement	600	2020		Moore
142	9	3800877-15-01	Sherwood	256	Water main replacement	414	2019		Ackerman-Estvold
52	15	1400879-15-01	Sheyenne	204	Water main replacement	3,100	2020		Moore
230	5	0801154-19-01	South Central RWD	19,945	Addition of pretreatment process	2,084	2020		Bartlett & West
157	8	4500891-19-01	South Heart	307	Water main & service line replacement	2,926	2019		Apex
220	6	3901068-14-01	Southeast WUD		Automated meter reading system	1,133	2019		AE2S
232	5	3901068-14-02	Southeast WUD		Connections to users on individual wells	21,700	2019		AE2S
221	6	3901068-18-01	Southeast WUD		Redundant raw water line	567	2019		AE2S
204	6	3100898-19-01	Stanley	2,400	Water main replacement	4,500	2019		Brosz
24	18	1501310-15-01	State Line Water Cooperative	386	Water tower replacement, system improvements	1,080	2019		
33	17	4700922-12-01	Streeter	170	Water main extension & looping	500	2019		Moore
34	17	4700922-13-01	Streeter	170	WTP improvements	500	2019		Moore
21	19	4700922-13-02	Streeter	170	Well & pump house improvements	860	2019		Moore
35	17	4700922-19-01	Streeter	170	Water tower replacement	1,000	2019		Moore
146	9	4701303-16-01	Stutsman RWD	5,000	Water supply line, distribution system for Pettibone, mainline pipelines between reservoirs (Phase VI)	2,900	2019		Bartlett & West
165	8	4701303-18-01	Stutsman RWD	6,200	Water meter replacement & automated meter reading system	800	2019		Bartlett & West
59	14	4701303-19-01	Stutsman RWD	6,200	Service to Streeter	504	2019		Bartlett & West
143	9	4701303-19-02	Stutsman RWD	6,200	Transmission lines to provide adequate pressure & flow	2,379	2019		Bartlett & West
194	7	4701303-19-03	Stutsman RWD	6,200	Refinance of Phase III of System Wide Expansion & Improvement project	3,150			Bartlett & West
147	9	4701303-19-04	Stutsman RWD	6,200	Well & WTP improvements, transmission lines	2,558	2019		Bartlett & West

Priority Ranking	Priority Points	Tracking No.	System Name	Present Population	Project Description	Project Cost (\$1,000)	Construction Start Date	Est. Loan Term ⁴	Engineering Firm
118	10	5200927-13-01	Sykeston	117	Water main, corporations, curb stops, & hydrant replacement	2,400	2019		Moore
100	11	5200927-18-01	Sykeston	117	Water tower replacement & pump house improvements	1,200	2019		Moore
185	7	5301152-16-01	Tioga	2,500	Water main replacement	8,602	2019		Ackerman-Estvoid
222	6	0900945-09-01	Tower City	252	Water tower improvements	250	2019		Moore
48	15	0900945-12-01	Tower City	252	Water main & hydrant replacement	2,100	2019		Moore
166	8	0900945-19-01	Tower City	252	Refinance of gate valve & service line replacement project	430			Moore
49	15	2500946-16-01	Towner	533	Water main, gate valve, hydrant, service line, & curb stop replacement	1,500	2019		Moore
50	15	2500946-16-02	Towner	533	WTP improvements	750	2019		Moore
148	9	3201072-19-01	Tri-County WD	2,662	Service to residents on private wells	4,000	2020		Bartlett & West
172	7	2200951-18-01	Tuttle	79	Transmission main & well pump replacement	100	2019		
36	17	2500956-16-01	Upham	133	Water main, gate valve, hydrant, & service line replacement	516	2019		Ackerman-Estvoid
112	10	0200958-19-01	Valley City	6,585	Water main & service line replacement	400	2019		KLJ
40	16	2500964-19-01	Velva	1,265	Water main & service line replacement	483	2019		Ackerman-Estvoid
22	19	2300969-12-01	Verona	85	Distribution system improvements	515	2019		Moore
9	20	2300969-14-01	Verona	85	Reservoir & pump house replacement	300	2019	30	Moore
68	14	2300969-19-01	Verona	85	Water meter replacement	100	2019		Moore
131	9	3900973-04-01	Wahpeton	7,766	Water main replacement & looping	164	2022		
75	13	3900973-16-01	Wahpeton	7,766	WTP improvements (Phase II)	10,707	2024		Stantec
186	7	3900973-18-01	Wahpeton	7,766	Water main & service line improvements (Loy Avenue)	610	2019		
187	7	3900973-18-03	Wahpeton	7,766	Water main & service line improvements (15th Ave N & 14th St N)	947	2021		
188	7	3900973-18-04	Wahpeton	7,766	Water main & service improvements (8th Ave N)	2,112	2023		Interstate
144	9	3900973-19-01	Wahpeton	7,766	Well improvements	4,748	2021		
189	7	3900973-19-02	Wahpeton	7,766	Water main & service improvements (5th Ave to 8th Ave)	655	2020		
108	11	5001075-19-01	Walsh RWD	3,448	Service to residents on private wells, pipelines, interconnection with NRWD	800	2019		AE2S
76	13	2800989-18-01	Washburn	1,313	Intake, wet well, & pump house	3,700	2019		AE2S
231	5	2700990-14-01	Watford City	6,500	Distribution system looping & pressure deficiency corrections	7,132	2019		AE2S
250	3	2700990-14-03	Watford City	6,500	Water tower	3,060	2019		AE2S
239	4	2700990-16-01	Watford City	6,500	Water main replacement	2,204	2019		AE2S
128	9	0900999-19-01	West Fargo	35,000	Water main replacement	2,000	2019		Moore
203	6	5101447-16-01	West River WD	650	Service line replacement	453	2019		Ackerman-Estvoid
155	8	5301686-18-01	Western Area Water Supply Authority	10,490	System expansion & regional storage expansion/improvements	13,484	2019		AE2S
125	10	5301686-18-02	Western Area Water Supply Authority	10,490	R&T Stanley, White Earth East, Tioga to Stanley transmission main, White Earth West	29,181	2019		AE2S
223	6	5301686-18-03	Western Area Water Supply Authority	10,490	North 200K service area, East Highway 1804 transmission improvements	5,642	2019		AE2S
152	8	5301686-18-04	Western Area Water Supply Authority	10,490	Williston WTP pretreatment & superstructure	3,831	2019		AE2S
224	6	5301686-19-01	Western Area Water Supply Authority	20,494	Phase VI system improvements	12,500	2020		AE2S
145	9	0501001-09-01	Westhope	429	Water main & service line replacement	462	2019		Ackerman-Estvoid
258	1	5201012-14-01	Williston	30,000	Distribution system improvements (Hi-Land Heights)	5,253	2020		AE2S
253	2	5201012-19-01	Williston	30,000	Water main improvements (9th Ave E)	178	2019		AE2S
254	2	5201012-19-02	Williston	30,000	Water main improvements (16th Ave)	414	2021		AE2S

Priority Ranking	Priority Points	Tracking No.	System Name	Present Population	Project Description	Project Cost (\$1,000)	Construction Start Date	Est. Loan Term ⁴	Engineering Firm
255	2	5201012-19-03	Williston	30,000	Water main improvements (42nd St)	528	2021		AE2S
256	2	5201012-19-04	Williston	30,000	Water main improvements (47th St)	276	2020		AE2S
259	1	5201012-19-05	Williston	30,000	Water main improvements (Borsheim Addition)	880	2020		AE2S
257	2	5201012-19-06	Williston	30,000	Water main improvements (Front St & Reiger Dr)	580	2020		AE2S
260	1	5201012-19-07	Williston	30,000	Water main improvements (Sunset & Kettler Subdivisions)	700	2020		AE2S
158	8	0801031-18-01	Wilton	750	Water main replacement (7th St)	1,449	2019		Ulteig
7	20	0801036-19-01	Wing	152	Water tower, water main, hydrant, & gate valve replacement	1,400	2019	30	Moore
167	8	2601037-18-01	Wishek	1,002	Remote reading water meters & software	410	2019		Interstate
126	10	3901043-08-01	Wyndmere	429	Distribution system improvements	800	2019		Bolton & Menk
88	12	3901043-16-01	Wyndmere	429	Service line & water meter replacement, SCADA system	600	2019		Bolton & Menk

Total Project Cost: 639,314

¹ It is unknown at this time if mandatory additional subsidization will apply to the 2019 DWSRF allotment. To address this potential requirement, a funding level of \$2,221,400 has been assumed for additional subsidization (as loan forgiveness). Adjustments will be made, as necessary, based on the actual requirements and capitalization grant amount.

² These projects appear eligible for 75% loan forgiveness. The actual loan forgiveness amount is dependent upon available funds. Loan forgiveness eligibility will be confirmed when the loan application is submitted.

³ These projects appear eligible for 40% loan forgiveness. The actual loan forgiveness amount is dependent upon available funds. Loan forgiveness eligibility will be confirmed when the loan application is submitted.

Appendix C

STATE OF NORTH DAKOTA

PRIORITY RANKING SYSTEM FOR FINANCIAL ASSISTANCE THROUGH THE DRINKING WATER STATE REVOLVING LOAN FUND (DWSRF) PROGRAM

DWSRF PROGRAM
DIVISION OF MUNICIPAL FACILITIES
ENVIRONMENTAL HEALTH SECTION
NORTH DAKOTA DEPARTMENT OF HEALTH

October 2018

The following criteria and point system is utilized by the DWSRF Program to rank eligible projects for potential financial assistance through the DWSRF Program:

- Water Quality (35 points maximum)
- Water Quantity (20 points maximum)
- Affordability (15 points maximum)
- Infrastructure Adequacy (15 points maximum)
- Consolidation or Regionalization of Water Supplies (10 points maximum)
- Operator Safety (5 points maximum)

Maximum Total Points = 100

DWSRF funds may be used to buy or refinance existing local debt obligations (publicly owned systems only) where the initial debt was incurred and the construction started after July 1, 1993. DWSRF assistance requests of this type, if eligible, will be ranked based on the original purpose and success of the constructed improvements.

Creation of New Systems - eligible projects are those that, upon completion, will create a community water system (CWS) to address existing and serious public health problems caused by unsafe drinking water from individual wells or surface water sources. Eligible projects are also those that create a new regional CWS by consolidating existing systems with technical, financial, or managerial difficulties. Projects to address existing public health problems associated with individual wells or surface water sources must be limited in scope to the specific geographic area affected by contamination. Projects that create new regional CWSs by consolidating existing systems must be limited in scope to the service area of the systems being consolidated. A project must be a cost-effective solution to addressing the problem. Applicants must ensure that sufficient public notice has been given to potentially affected parties and consider alternative solutions to addressing the problem. Capacity to serve future population growth cannot be a substantial portion of the project.

Water Quality (select all that apply, 35 points maximum) ^{1,2}	
A. Documented waterborne disease outbreaks within last 2 years.	20
B. Unresolved nitrate or nitrite maximum contaminant level (MCL) exceedance(s), OR acute microbiological MCL exceedance(s) within last 12 months.	15
C. Exceedance(s) of EPA-established unreasonable risk to health (URTH) level(s) within last 4 years for regulated chemicals or radionuclides (excludes nitrate and nitrite).	10
D. Disinfection treatment inadequate to satisfy one of the following: <ul style="list-style-type: none"> • The Surface Water Treatment Rule (SWTR) • The Enhanced SWTR (ESWTR) • The Groundwater Disinfection Rule (GWDR) once finalized • Groundwater source(s) deemed by the PWSS to be under the direct influence of surface water • Multiple turbidity treatment technique requirement (TTR) violations within last 2 years (includes at least one event where the maximum allowed turbidity was exceeded) 	8
E. Multiple turbidity TTR violations within last 2 years (no events where the maximum allowed turbidity was exceeded), OR 3 or more non-acute microbiological MCL violations within last 12 months.	7
F. MCL or TTR exceedance(s) (no URTH level exceedances) within last 4 years (excludes microbiological contaminants, nitrate, nitrite, and turbidity).	6
G. Potential MCL or TTR compliance problems based on most recent 4-year period (excludes microbiological contaminants and turbidity).	
75% to 100% of MCL or TTR	5
50% to 74% of MCL or TTR	4
H. General water quality problems (see table on page 5).	
Significant general water quality problem	4
Moderate general water quality problem	3
Minor general water quality problem	2

Water Quantity (select all that apply, 20 points maximum) ^{2,3}	
A. Correction of a critical water supply problem involving the loss or imminent loss of a water supply in the near future.	20
B. Correction of an extreme water supply problem. Maximum water available <150 gallons per capita per day (gpcd) (community water systems only), OR continuous water shortages during all periods of operation (non-profit non-community water systems only).	10
C. Correction of a serious water supply problem. Maximum water available <200 gpcd (community water systems only), OR daily water shortages, or inability to meet peak daily water demand at a frequency of at least once per week during all periods of operation (non-profit non-community water systems only).	7

D. Correction of a moderate water supply problem. Maximum water available <250 gpcd (community water systems only), OR occasional daily water shortages, or occasional inability to meet peak daily water demands on a seasonal basis (non-profit non-community water systems only).	4
E. Correction of a minor water supply problem. Maximum water available <300 gpcd (community water systems only), OR sporadic water shortages or occasional inability to meet peak water demands (non-profit non-community water systems only).	2

Affordability (for the applicable subcategory, select one for each item, 15 points maximum)	
A. Community Water Systems	
Relative income index- ratio of local or service area annual median household income (AMHI) to the state nonmetropolitan AMHI (based on 2011-2015 ACS 5-Year Estimates)	
≤60%	8
61% to 70%	7
71% to 80%	5
81% to 90%	3
91% to 100%	1
Relative future water cost index- ratio of expected average annual residential water user charge resulting from the project, including costs recovered through special assessments, to the local AMHI (based on 2011-2015 ACS 5-Year Estimates)	
>2.5%	7
2.0% to 2.5%	6
1.5% to 1.9%	5
1.0% to 1.4%	3
0.5% to 0.9%	1
B. Non-profit Non-community Water Systems	
Relative income index- ratio of local or service area AMHI to the state non-metropolitan AMHI (based on 2011-2015 ACS 5-Year Estimates)	
≤60%	8
61% to 70%	7
71% to 80%	5
81% to 90%	3
91% to 100%	1
Relative future water cost index- ratio of expected annual water service expenditures resulting from the project to total annual operating expenses	
>20%	7
15% to 20%	6
10% to 14%	5
5% to 9%	3
2% to 4%	1

Infrastructure Adequacy (select all that apply, 15 points maximum)	
A. Correction of general disinfection treatment deficiencies - excludes improvements necessary to directly comply with the SWTR, the ESWTR, or the GWDR (once finalized).	3
B. Correction of well construction or operating deficiencies.	3
C. Correction of distribution system pressure problems (dynamic pressure <20 psi).	3
D. Replacement of deteriorated water mains.	3
E. Replacement of deteriorated finished water storage structures.	3
F. Replacement of distribution system piping/materials shown via DWP-approved testing to contribute unacceptable levels of lead or asbestos.	3
G. Water treatment plant operating at or above design capacity.	3
H. Water treatment plant operating at or beyond useful or design life.	3
I. Correction of specific design or operating deficiencies associated with water treatment plant unit processes (excludes disinfection treatment).	2
J. Correction of specific design or operating deficiencies associated with surface water intake facilities.	2
K. Correction of specific design or operating deficiencies associated with finished water storage facilities.	2
L. Correction of specific design or operating deficiencies associated with raw or finished water pumping facilities.	2
M. Correction of specific design or operating deficiencies associated with raw or finished water distribution system piping.	2
N. Correction of specific design or operating deficiencies associated with chemical feed installations (excludes disinfection).	2
O. Provision of a second well where only one functional well exists for systems relying solely on their own groundwater supplies.	2
P. Replacement of inoperative, obsolete, or inadequate instrumentation or controls.	2

Consolidation or Regionalization of Water Supplies (select all that apply, 10 points maximum)	
A. Correction of Safe Drinking Water Act (SDWA) compliance problem(s) or extreme to critical water supply problem(s) for one or more PWSs through consolidation with another PWS or regionalized service provided by another PWS.	4
B. Correction of contamination problems (regulated contaminants) or extreme water quantity problems (no water, imminent loss of water supply, or continuous/frequent daily water shortages) for individual residences or businesses through consolidation with another PWS or regionalized service provided by a PWS.	3
C. Correction of potential MCL or TTR compliance problems, general water quality problems, or moderate to serious water quantity problems for one or more PWSs through consolidation with another PWS or regionalized service provided by another PWS.	2
D. Correction of general water quality problems or moderate water quantity problems (occasionally daily or seasonal water shortages) for individual residences or businesses through consolidation with another PWS or regionalized service provided by a PWS.	1

Operator Safety (select one if applicable, 5 points maximum)	
Correction of a problem that poses a critical and chronic safety hazard for operators.	5
Correction of a problem that poses an intermittent safety hazard for operators.	3
Correction of a potential significant safety hazard for operators.	1

General Water Quality (select all that apply)			
Total Dissolved Solids (TDS)		Manganese (Mn)	
500 - 999 mg/L	1	0.05 - 0.25 mg/L	1
1,000 - 1,499 mg/L	2	0.26 - 1.00 mg/L	2
≥ 1,500 mg/L	3	> 1.00 mg/L	3
Total Hardness as Calcium Carbonate (TH)		Sodium (Na)	
200 - 424 mg/L	1	200 - 424 mg/L	1
425 - 649 mg/L	2	425 - 649 mg/L	2
≥ 650 mg/L	3	≥ 650 mg/L	3
Iron (Fe)		Sulfate (SO ₄)	
0.3 - 0.89 mg/L	1	250 - 499 mg/L	1
0.9 - 2.0 mg/L	2	500 - 750 mg/L	2
> 2.0 mg/L	3	> 750 mg/L	3
Total From Above	Category for Water Quality Item H		
≥ 6	Significant general water quality problem		
4 or 5	Moderate general water quality problem		
≤ 3	Minor general water quality problem		

¹ Applies to community and non-profit non-community public water systems only. Water quality problems must be ongoing and unresolved under the present system configuration. Analysis applies to finished water after all treatment (raw water if no treatment is provided).

² Projects intended to address multiple community and/or non-profit non-community public water system water quality and/or quantity problems will be ranked based on the highest-level problem to be solved.

³ Applies to community and non-profit non-community public water systems only. Projects intended mainly to increase water availability for or to improve fire protection are not eligible for DWSRF assistance. To be eligible, fire protection features must represent an ancillary project benefit or secondary project purpose.

Appendix D

Non-Project Set-Aside and Fee Activity¹

North Dakota Drinking Water State Revolving Loan Fund Program

Set-Aside	Set Aside Through 6/30/2018	Transferred to Loan Fund	Expended Through 6/30/2018	Balance Available as of 6/30/2018	Planned Set-Asides for 2019 ⁴	Total Set-Aside Funds Available 2019	Reserved Through 2019	Reserved from 2019 Allotment	Total Reserved Through 2019
DWSRF Administration	8,600,924	-	8,200,924	400,000	444,280	844,280	-	-	-
10% State Program Assistance									
PWSS Supervision	4,342,888	327,112	2,012,301	2,003,475	800,000	2,803,475	1,729,200	310,700	2,039,900
Source Water Protection									
Capacity Development									
Operator Certification									
2% Small System Technical Assistance	3,357,532	-	2,958,232	399,300	222,140	621,440	93,640	-	93,640
15% Local Assistance ²									
Land Acquisition									
Capacity Development									
Wellhead Protection									
Source Water Petition Programs									
Source Water Protection	1,255,880	820,612	435,268	-	NA	-	-	NA	-
Totals	17,557,224	1,147,724	13,606,725	2,802,775	1,466,420	4,269,195	1,822,840	310,700	2,133,540

Fee Type	Collected Through 6/30/2018	Transferred to Loan Fund	Expended Through 6/30/2018	Balance Available 6/30/2018	Projected Funds 1/1/19 - 12/31/19	Total Funds Available Through 12/31/19	Total Funds Held Through 12/31/19
Loan Fee ³	10,663,013	0	3,030,539	7,632,474	1,451,329	12,114,342	9,083,803

¹ The FY 1997 through 2018 allotments have been awarded. The anticipated allotment for FY 2019 is \$11,107,000. The FY 2019 allotment will be applied for by July 1, 2018.

² No more than 10% may be used for any one activity with a maximum of 15% for all activities combined.

³ The loan fee amounts reflect loans approved up to June 30, 2018. The amounts may increase based upon repayments due (if any) under loans approved after this date.

⁴ DWSRF Administration is calculated as 4% of capitalization grant. The option that yields the highest amount will be chosen once final capitalization grant allotments are announced.

Appendix E

Amounts Available to Transfer Between State Revolving Fund Programs¹

North Dakota Drinking Water State Revolving Loan Fund Program

Year	Transaction Description	Banked Transfer Ceiling	Transferred from DWSRF to CWSRF	Transferred from CWSRF to DWSRF	DWSRF Funds Available for Transfer	CWSRF Funds Available for Transfer
1998	DW Grant	4.1			4.1	4.1
1998	DW Grant	6.5			6.5	6.5
2000	DW Grant	9.0			9.0	9.0
2000	DW Grant	11.5			11.5	11.5
2001	DW Grant	14.1			14.1	14.1
2002	DW Grant	16.7			16.7	16.7
2002	Transfer	16.7	10.0	3.0	9.7	23.8
2003	DW Grant	19.4			12.4	26.4
2003	Transfer	19.4	0	5.9	18.3	20.5
2004	DW Grant	22.1			21.0	23.2
2004	Transfer	22.1	0	2.6	23.7	20.6
2005	DW Grant	24.9			26.4	23.3
2005	Transfer	24.9	0	0.1	26.5	23.2
2006	DW Grant	27.6			29.2	25.9
2006	Transfer	27.6	0	1.5	30.8	24.4
2007	DW Grant	30.3			33.5	27.1
2007	Transfer	30.3	0	4.9	38.3	22.2
2008	DW Grant	33.0			41.0	24.9
2008	Transfer	33.0	0	3.0	44.1	21.9
2009	DW Grant	35.7			46.8	24.6
ARRA	DW Grant	42.1			53.2	31.0
ARRA	Transfer	42.1	0	2.6	55.8	28.4
2009	Transfer	42.1	0	0.7	56.5	27.7
2010	DW Grant	46.6			61.0	32.2
2010	Transfer	46.6	0	0.8	61.8	31.4
2011	DW Grant	49.7			64.9	34.5
2012	DW Grant	52.7			67.8	37.5
2013	DW Grant	55.4			70.6	40.3
2014	DW Grant	58.3			73.5	43.2
2015	DW Grant	61.2			76.4	46.1
2015	Transfer	61.2	19.1	0	57.4	65.1
2016	DW Grant	64.0			60.1	67.9
2017	DW Grant	66.7			62.8	70.6
2017	Transfer	66.7	0	4.1	66.9	66.5
2018	DW Grant	70.4			70.6	70.2
2018	Transfer	70.4	0	22.2	92.8	47.9
2019	DW Grant	74.0			96.5	51.6
2019	Transfer	74.0	0	1.0	97.5	50.6

¹ All amounts are in millions of dollars

Appendix F

Sources and Uses Table

North Dakota Drinking Water State Revolving Loan Fund Program Cumulative Amounts as of June 30, 2018

SOURCES	
Federal Capitalization Grants	204,930,767
State Match	51,432,137
Transfers from CWSRF	51,516,491
Net Leveraged Bonds	188,492,700
Investment Earnings	47,138,089
Interest Payments	52,932,384
Principal Repayments	158,678,198
TOTAL SOURCES OF FUNDS	<u>755,120,766</u>
USES	
Administration	8,600,924
2% SSTA	3,357,532
10% DW Program Set-Aside	4,342,888
15% Local Asst. Set-Aside	435,268
Transfers to CWSRF	29,061,000
Bond Principal Repayments	57,167,914
Bond Interest Expense	55,987,965
Arbitrage	763,211
Reserves	2,650,545
Closed Agreements	563,186,470
Loans Approved by Industrial Commissic	24,786,000
TOTAL USES OF FUNDS	<u>750,339,717</u>
DWSRF Funds Available for Projects in 2019	<u>\$4,781,049</u>
ANNUAL SOURCES FOR 2019	
FY19 Capitalization Grant	11,107,000
Set-asides taken from FY19 Capitalization Grant	(1,466,420)
State Match (if applicable)	
Leveraged Bonds (if applicable)	
Transfers with CW +/- (if applicable)	1,000,000
Total New 2019 Funds	<u>\$10,640,580</u>
TOTAL DWSRF FUNDS AVAILABLE FOR 2019	<u>\$15,421,629</u>
TOTAL DWSRF PROJECTS ON FUNDABLE LIST	<u>\$15,421,629</u>
AVAILABLE FUNDS	<u>\$0</u>

Appendix G

Abbreviations

ASWUD	All Seasons Water User District
CRW	Cass Rural Water
DWSRF	Drinking Water State Revolving Loan Fund
EPA	Environmental Protection Agency
FY	Fiscal year
IUP	Intended Use Plan
NCRWD	North Central Rural Water District
NDCC	North Dakota Century Code
NDDoH	North Dakota Department of Health
NPRWD	North Prairie Rural Water District
NRWD	Northeast Regional Water District
PRV	Pressure-reducing valve
PWS	Public Water System
RWD	Rural Water District
SCADA	Supervisory control and data acquisition
SCRWD	South Central Regional Water District
SDWA	Safe Drinking Water Act
SEWUD	Southeast Water Users District
SRWD	Stutsman Rural Water District
TCWD	Tri-County Water District
WRD	Water Resource District
WRWD	Williams Rural Water District
WTP	Water treatment plant
WUD	Water Users District

**Policy for issuing Temporary Industrial Water-Depot Permits
in the Little Missouri River Basin**

Developed by the Water Appropriation Division of the Office of the State Engineer

As per action of the State Water Commission on June 22, 2017 and December 8, 2018

And consultation with the Little Missouri River Commission on August 6, 2018

The Office of the State Engineer will determine appropriate limits to the rate and volume of temporary permits from the mainstem of the Little Missouri River, as well as low-flow restrictions in the river to ensure compliance with the intent of the Little Missouri State Scenic River Act "to preserve the Little Missouri River as nearly as possible in its present state, which shall mean that the river will be maintained in a free-flowing natural condition".

The following conditions shall be placed on all temporary water permit applications in the Little Missouri River Basin.

1. This permit is subject to cancellation or curtailment if it is deemed to significantly impact the free-flowing natural state of the Little Missouri River.
2. Reasonable precautions shall be taken to minimize the visual and audible disruption to the scenic Little Missouri River valley.
 - a. Internal combustion motors shall be muffled to maintain the tranquility and ambiance and minimize audible disruption of the scenic river experience.
 - b. The shorelines in and around intake locations shall be kept free of construction debris and litter.
 - c. Reasonable attempts shall be made to shelter pumps and motors from view for those wishing to travel along the waterway.
3. Pumps and motors shall be set back from the shoreline sufficient distance and reasonable precautions made to ensure any fluids or oils that may leak from these will be contained before they have a chance to enter the stream. Portable containment for pump and motor fluid leakage may be required upon order of the State Engineer.

Garland Erbele, P.E.
State Engineer

Date



RED RIVER VALLEY WATER SUPPLY PROJECT

Serving the Water Supply Needs of Central North Dakota and the Red River Valley

STATE WATER COMMISSION

DECEMBER 7, 2018



Duane DeKrey, Garrison
Diversion General Manager



Fargo Mayor
Tim Mahoney, LAWA Chair



Lake Agassiz
Water Authority

PRESENTATION OVERVIEW



RRVWSP PROJECT PROGRESS

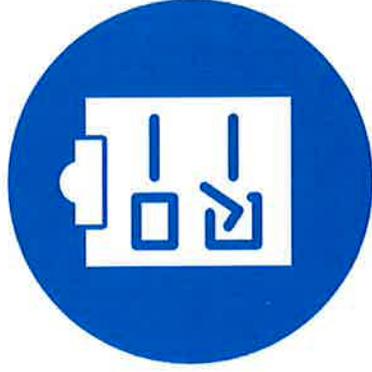


FINANCIAL IMPACT



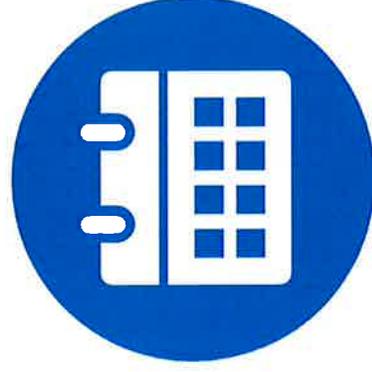
PATH FORWARD

EARLY OUT CONSTRUCTION PROGRESS



ONGOING TASKS

- Easement/Real Estate Acquisitions
- Draft NDPDES Permit - Expected Late January
- Sovereign Lands Permit - Expected Soon
- Water Appropriation Permit — Finalize Strategy

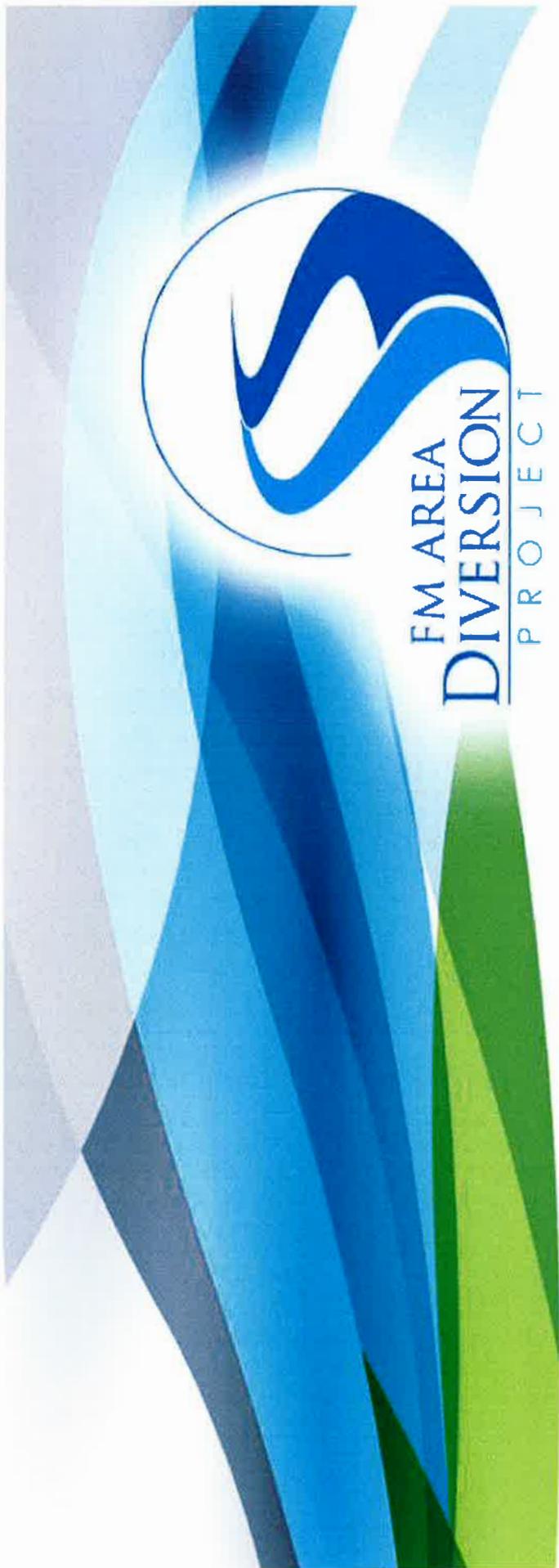


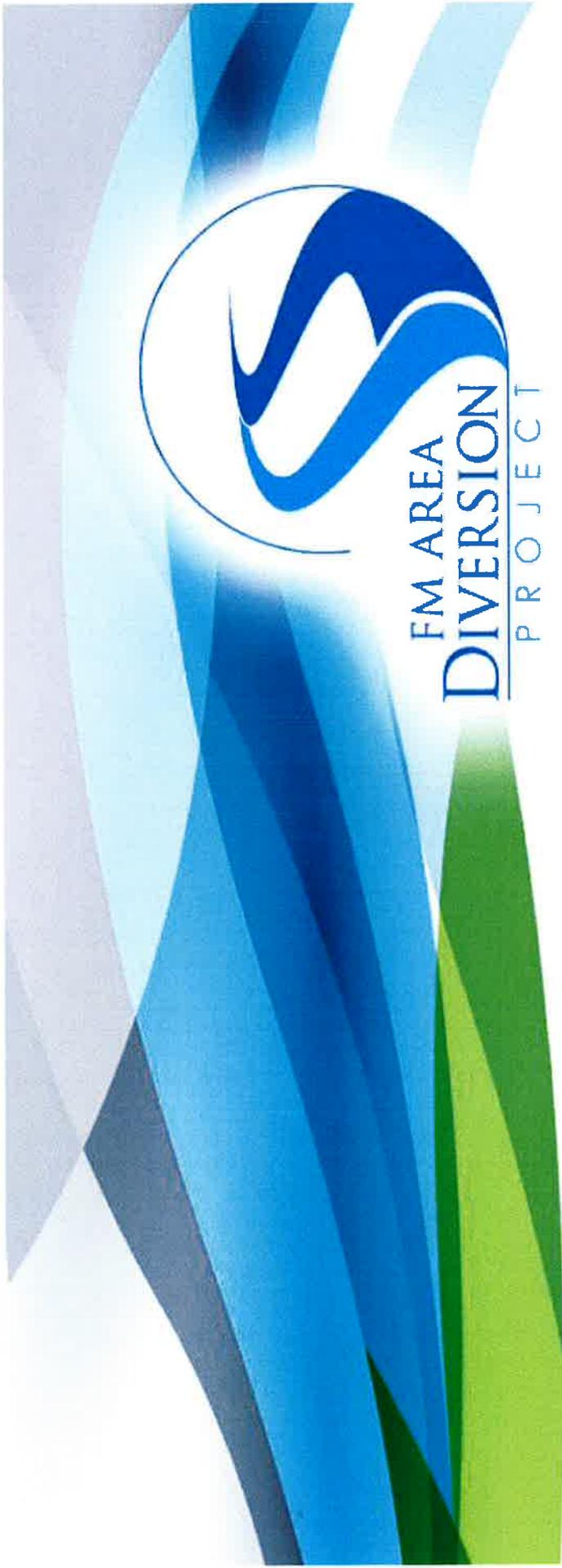
EARLY OUT CONSTRUCTION WILL BE READY TO BID IN SPRING /SUMMER 2019

- Missouri River Intake - Wet Well
- Trenchless Crossings (along pipeline route)
- Discharge Structure

FM Area Diversion Project Update

Fargo Mayor Tim Mahoney
ND State Water Commission
December 7, 2018



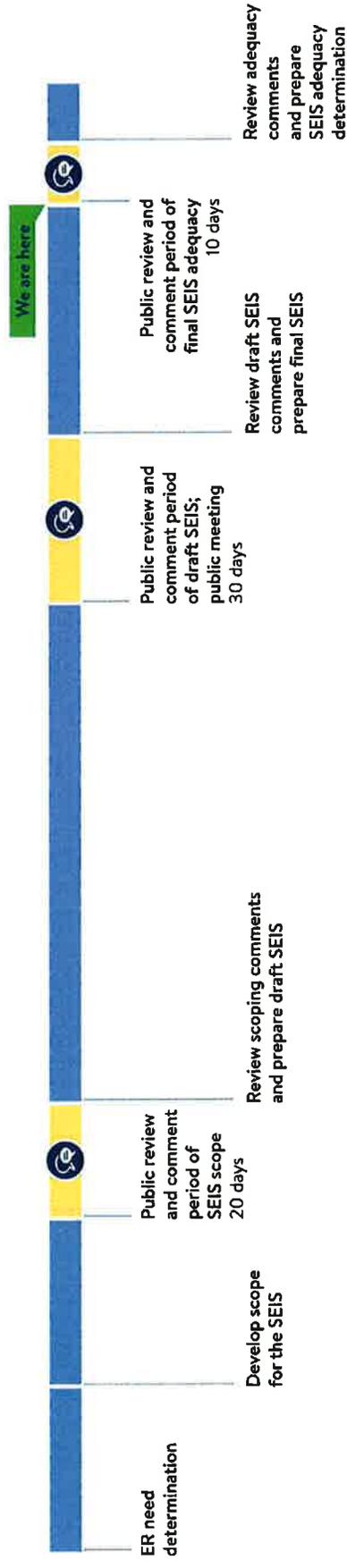


Minnesota Environmental and Permitting Review Status

State Environmental Review

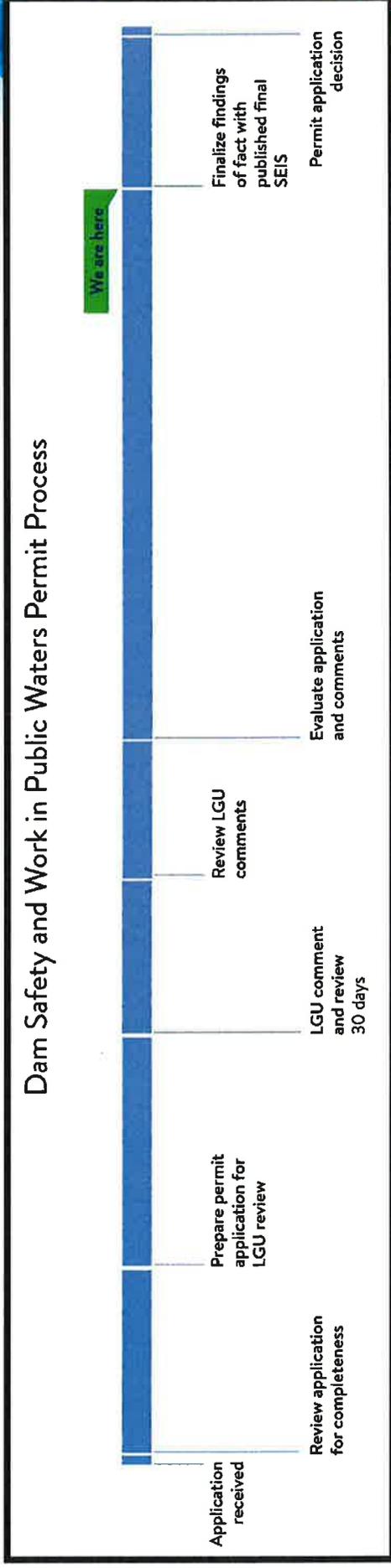
- ▶ The Minnesota Department of Natural Resources (MDNR) has released its Supplemental Environmental Impact Statement (SEIS).
- ▶ Review includes screening of 33 Project Alternatives
 - ▶ “Plan B” is the only Project that moved forward out of the screening process in the SEIS

Supplemental Environmental Impact Statement (SEIS) Process



State Permit Review

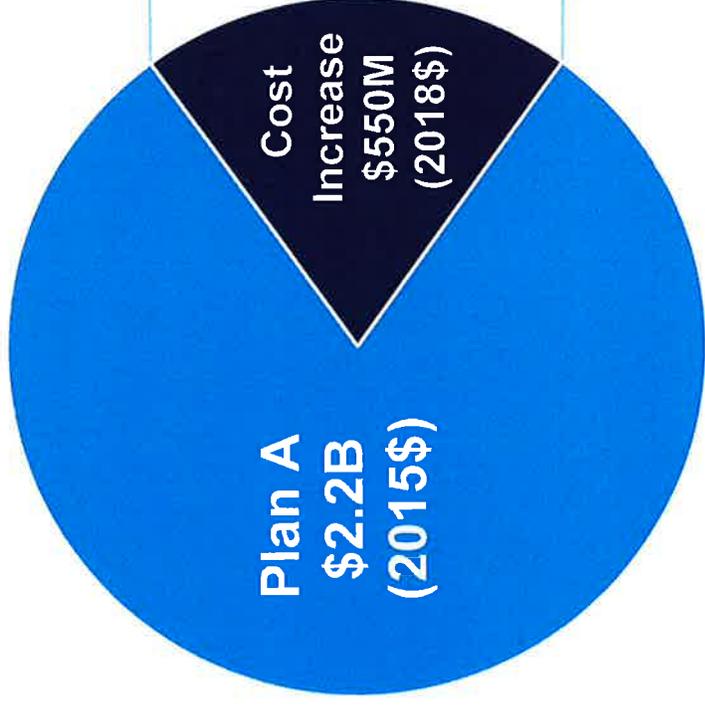
- ▶ The Diversion Authority submitted a new permit application in March of 2018 for “Plan B” .
- ▶ The MDNR is currently reviewing the application, but no decision is expected until after completion of the Environmental Review and a Determination of Adequacy.
- ▶ The MDNR has said they expect a permit decision sometime this winter.



ND SWC Review

- ▶ ND is concurrently reviewing the project
- ▶ Diversion Authority thanks the SWC staff and leadership for your partnership and technical assistance
- ▶ Your efforts are appreciated

Diversion Project Cost Estimate = \$2.75B in 2018 dollars



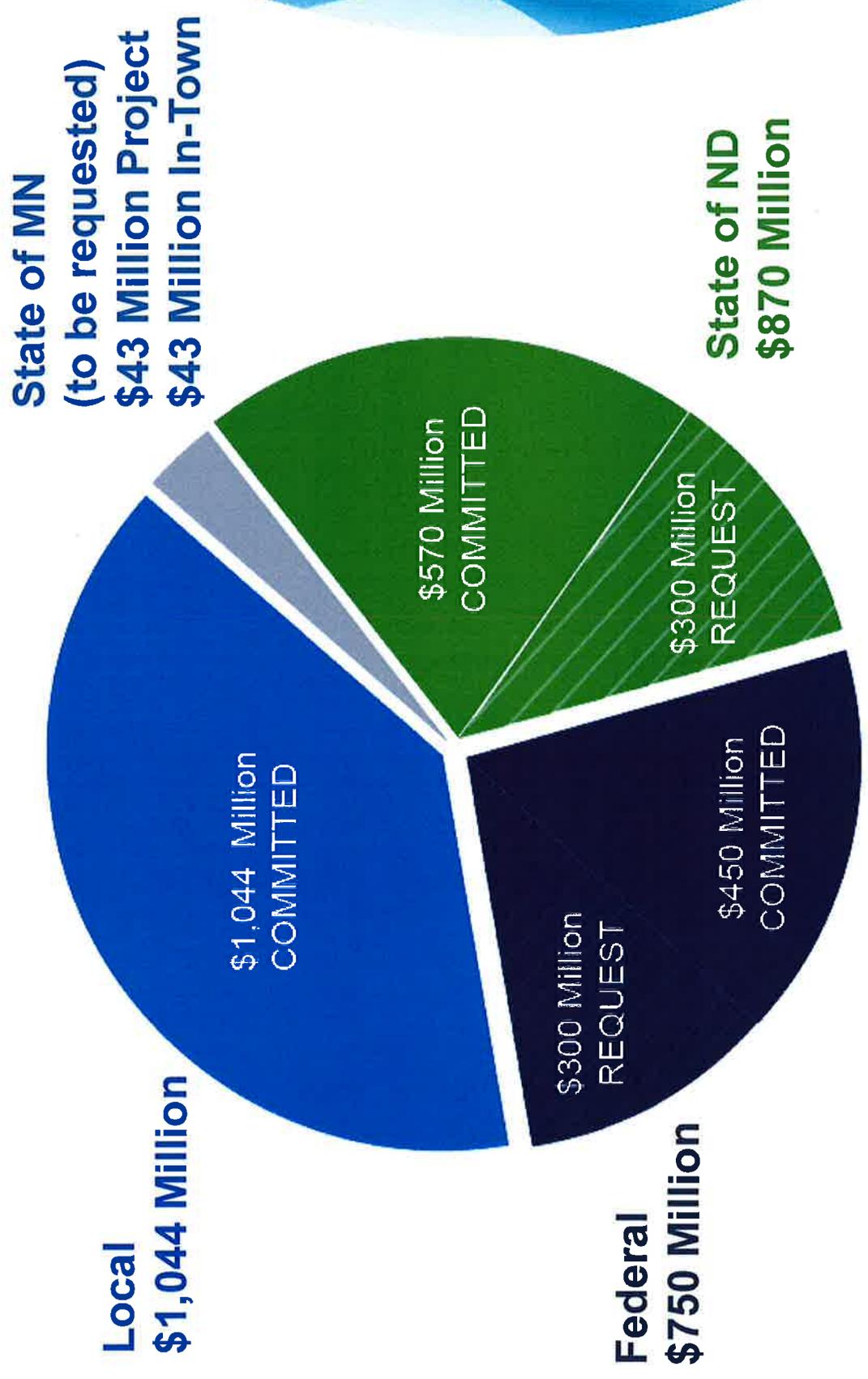
Increases	
Escalation	\$ 150M
Plan B	\$ 210M
Utility Relocates in Channel	\$ 50M
Contingency and Risk	<u>\$ 140M</u>
Total	\$ 550M

Spent to date is \$427M
 Remaining costs are approximately \$2.3B

Category	Current Opinion of Estimated Cost	Spent to Date (Sept 2018)	Remaining Costs
Lands/Impacted Properties Mitigation	\$502	\$178	\$324
Channel / P3	\$989	\$14	\$975
USACE / SEAI	\$703	\$41	\$662
Fargo and Moorhead In-Town Projects	\$266	\$80	\$186
Other/Mitigation Construction	\$44	\$24	\$20
Non-Construction Costs*	\$250	\$90	\$160
TOTAL	\$2,754	\$427	\$2,327

*Legal/Financial/Designs/Studies/Procurement/PgM/CM/General Contingency

Proposed Funding to balance Financial Plan



Local Funding and Financing to Date

- ▶ Local cost share relies on a combination of sales tax revenue and short term financing
- ▶ Fargo & Cass Sales Taxes Revenue ~\$40M+ annually
- ▶ Interim private financing of \$150M
 - ▶ Expenditures have outpaced sales tax revenues
 - ▶ Over \$10M has been expended to date on the interest

Loan Advances for Project Costs

FM Diversion Authority
Loan Advances for Project Costs
(In Millions)



► Over \$10M has been expended to date on the interest

Local Funding and Financing to Date

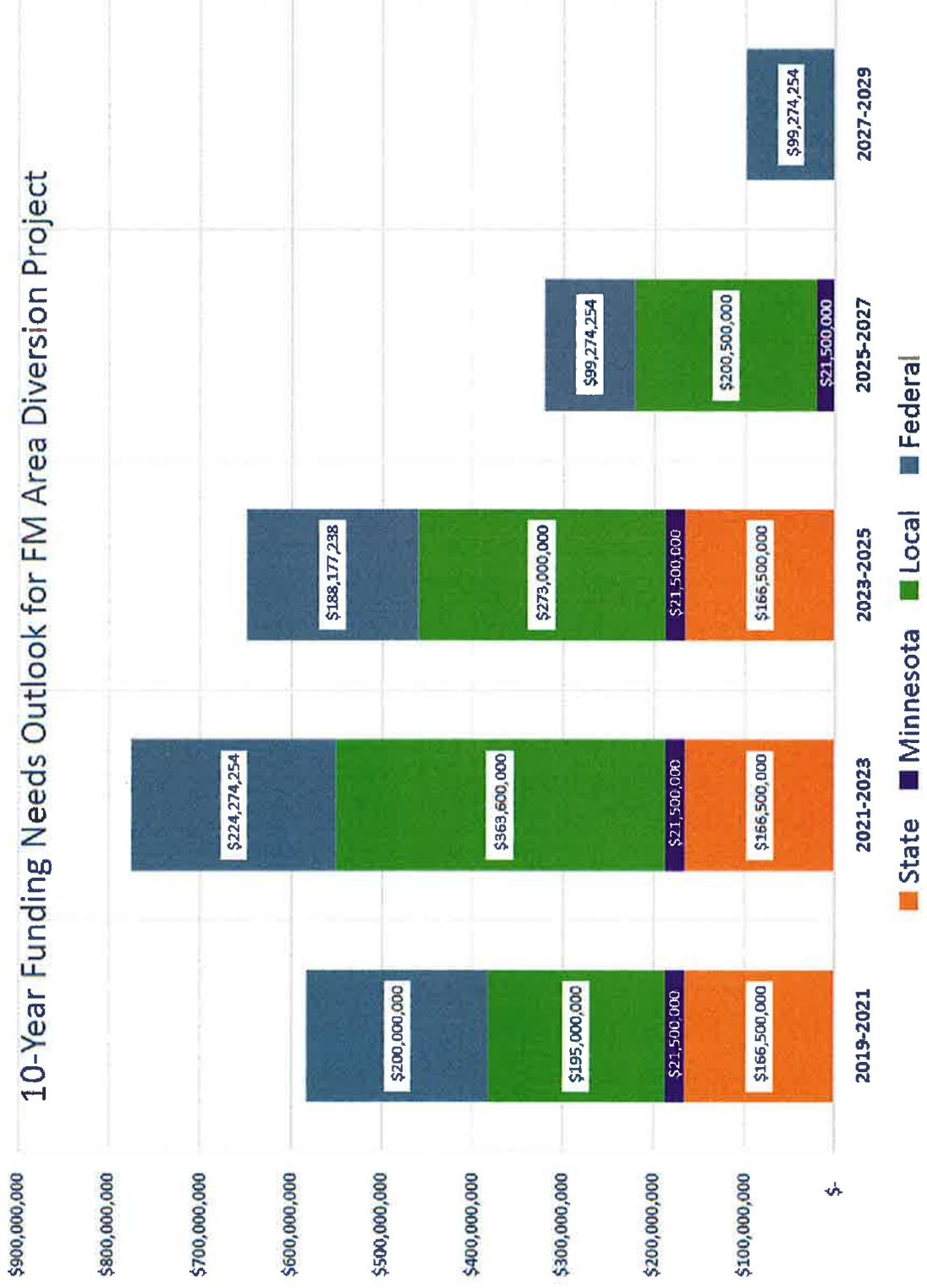
- ▶ At the same time, the State has ~\$120M in available funding (including the yet to be requested \$66.5)
- ▶ Due to current cost share requirements and policies, we are unable to utilize the available state funds in a timely manner

ND Funding Summary

- ▶ Current legislative intent for \$570M for flood protection funding
- ▶ Additional \$300M being requested

Year	Amount
2009	\$45 M
2011	\$30 M
2013	\$100 M
2015	\$129 M
2017	\$66.5 M
2019	\$66.5 M \$100 M
2021	\$66.5 M \$100 M
2023	\$66.5 M \$100 M

Funding Needs Outlook



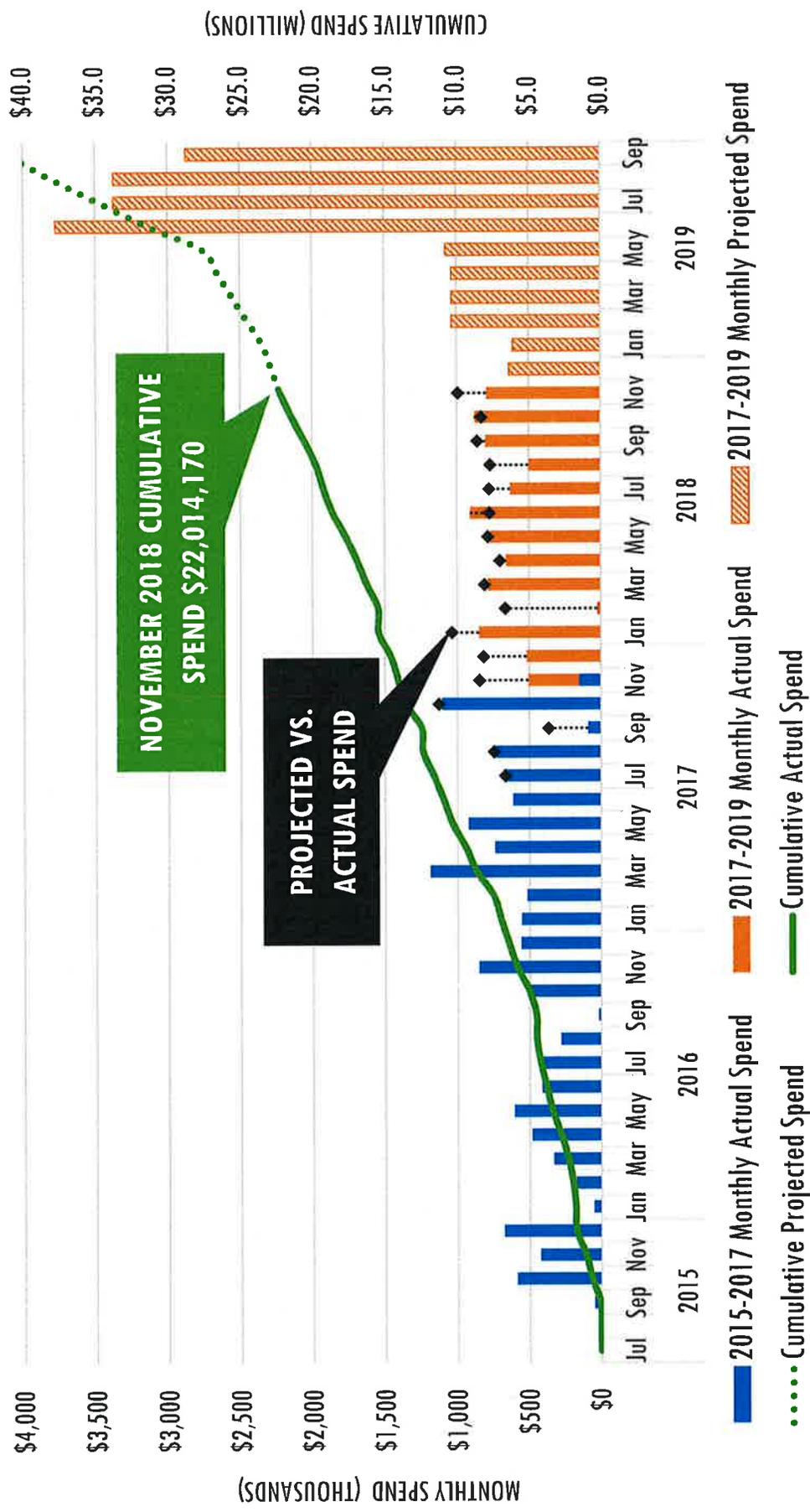
Time to Sharpen our Pencils!

- ▶ Funding the Diversion Project is a big ask of the State and the local taxpayers
- ▶ Our technical and financial teams have been directed to look for ways to increase efficiency
- ▶ REQUEST: For the Water Commission to consider a list cost share efficiencies identified by our teams

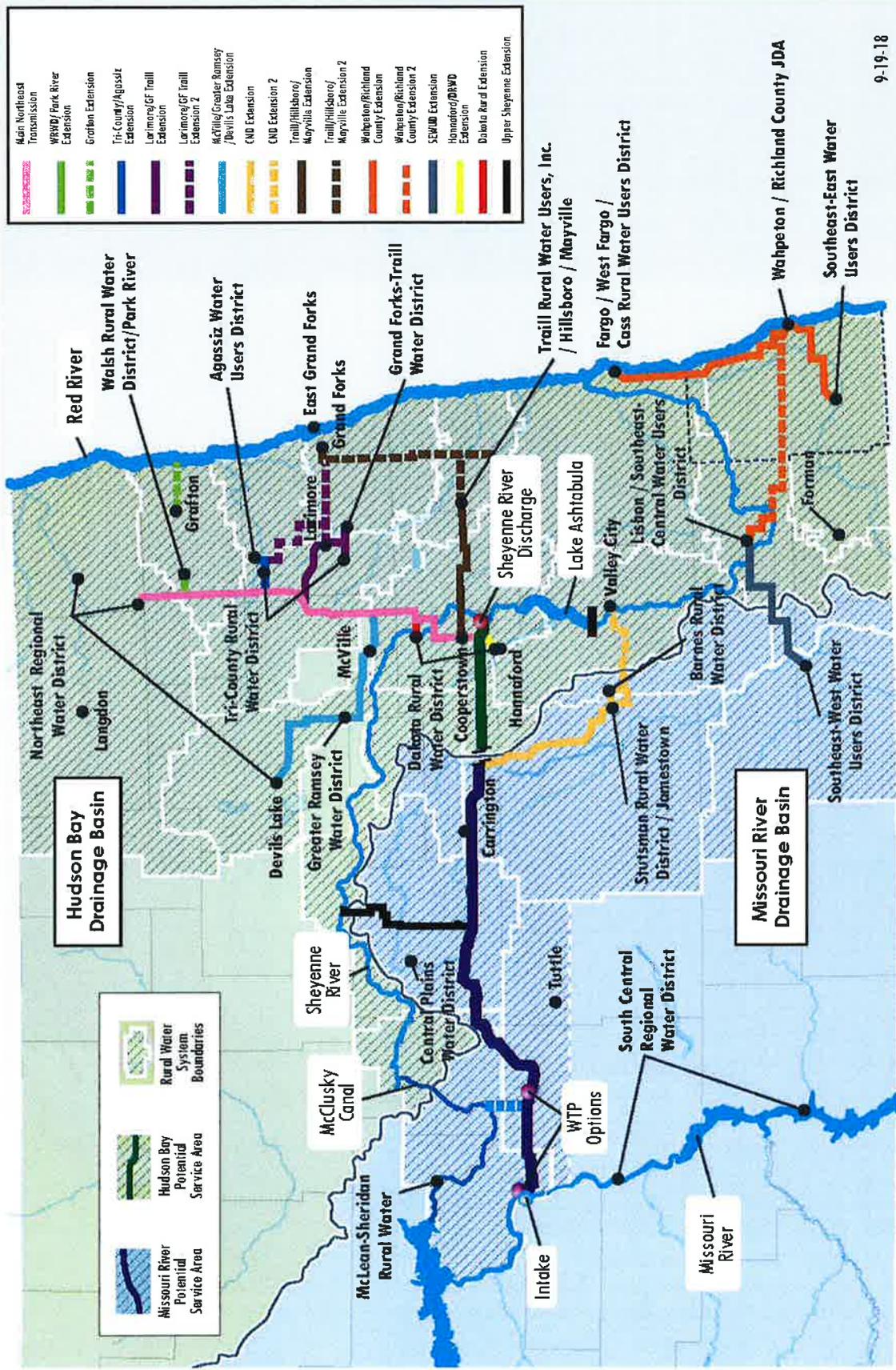


PRUDENT SPENDING IS ON TRACK

RRVWSP PLANNING LEVEL BUDGET



PIPELINE EXTENSIONS INCLUDING UPPER SHEYENNE RIVER DISCHARGE EXTENSION



UNIQUE FINANCIAL IMPACT

THE RRVWSP IS UNIQUE IN THAT IT WILL DELIVER EMERGENCY BACKUP WATER SUPPLIES TO USERS



1

THE RRVWSP WILL NOT REPLACE EXISTING FACILITIES

2

EXISTING INFRASTRUCTURE WILL BE CONTINUOUSLY USED AND MAINTAINED BY CURRENT USERS

3

THE RRVWSP IS AN ADDITIONAL COST TO ALL WATER SYSTEMS

**RED RIVER VALLEY WATER SUPPLY PROJECT
ABILITY TO PAY ANALYSIS**

**A LONG-TERM LOW-INTEREST LOAN
FROM THE STATE IS CRITICAL**



**\$5 PER MONTH
PER RESIDENTIAL WATER METER**

COORDINATED FINANCIAL PLANNING EFFORT

COMPLETING USER ABILITY TO PAY ANALYSIS

COORDINATING WITH FM-DIVERSION PROJECT

WORKING WITH BANK OF ND AND NDSWC REPS

- State Share Through Resources Trust Fund
 - Local Match Options
-

COORDINATING FINANCIAL PLAN TO BE PRESENTED TO LEGISLATIVE TEAM & GOVERNOR

ANTICIPATED FINANCIAL PLAN KEY COMPONENTS

REDUCING RISK AND FINANCIAL BURDEN THROUGH



FASTER SCHEDULE

12-Year Schedule



**Significantly
Reduced Risks and
Financial Impacts
for State and Users**



EFFICIENT FINANCING

**Local: Long-term /
Low-Interest Loan**



**State: 10-Year
Construction
Strategy**



COST-SHARE BALANCE

**Striking the Right
Cost-Share to**

Ensure

Affordability

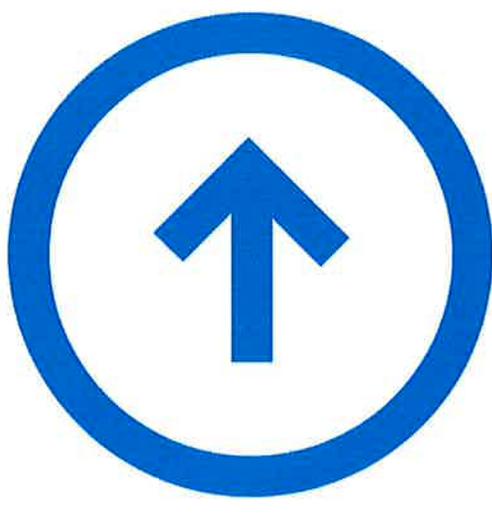
RRWSP MOVING FORWARD

FOCUSING ON MEETING ALL REQUIREMENTS OF HB1020

- Obtain NDSWC Certification and Ask For \$13M of Early Out Construction

REQUEST 145 CFS FROM McCLUSKY CANAL AS A WATER SUPPLY OPTION

**PERMITTING AND BEGINNING
CONSTRUCTION UNDER TRUMP
ADMINISTRATION IS STRATEGIC**



2019 TO 2021 FUNDING PRIORITIES

\$50 MILLION ASK

CONTINUE DESIGN

.....

CONTINUE LAND ACQUISITION

.....

CONSTRUCTION OF PIPELINE SEGMENT





Serving the Water Supply Needs of Central North Dakota and the Red River Valley

THANK YOU!

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