#### **MINUTES**

# North Dakota State Water Commission Bismarck, North Dakota

#### March 9, 2016

The North Dakota State Water Commission held a meeting at the State Office Building, Bismarck, North Dakota, on March 9, 2016. Governor Jack Dalrymple, Chairman, called the meeting to order at 1:30 p.m., and requested Todd Sando, State Engineer, and Chief Engineer-Secretary to the State Water Commission, to call the roll. Governor Dalrymple announced a quorum was present.

### STATE WATER COMMISSION MEMBERS PRESENT:

Governor Jack Dalrymple, Chairman
Tom Bodine, representing Doug Goehring, Commissioner,
North Dakota Department of Agriculture, Bismarck
Arne Berg
Maurice Foley
Larry Hanson
George Nodland
Harley Swenson
Robert Thompson
Douglas Vosper

#### OTHERS PRESENT:

Todd Sando, State Engineer, and Chief Engineer-Secretary,
North Dakota State Water Commission, Bismarck
State Water Commission Staff
Approximately 50 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.

TODD SANDO, STATE ENGINEER -RETIREMENT ANNOUNCEMENT, EFFECTIVE JULY 5, 2016 Todd Sando, North Dakota's 17th State Engineer, officially announced his retirement, effective July 5, 2016, after admirably serving the people of North Dakota

for more than 31 years. Secretary Sando began his career with the State Water Commission in 1985 as a water resource engineer. In July, 2010, the State Water Commission appointed Secretary Sando as State Engineer, who also serves as Chief Engineer and Secretary to the State Water Commission.

Secretary Sando reflected on his tenure as State Engineer that was fulfilled with phenomenal opportunities and monumental growth in water development, and successful management of water resources throughout the state. He said "there have been many memorable projects and experiences throughout my career, with the record flooding events that took place in 2011, and the construction and operation of the Devils Lake outlets which are certainly some of the highlights. I am immensely thankful to the State Water Commission and for the opportunity to serve our state and the citizens of North Dakota."

Dalrymple stated that Governor Secretary Sando has done an outstanding job managing North Dakota's tremendous water resources at a time of unprecedented growth across our state. "He has been instrumental in the management of North Dakota's surface and ground water resources during a period of record growth and development across the state, played a key role in North Dakota's flood response recovery and prevention efforts, and floodplain regulation. He has directed the development of critical flood control and water supply projects throughout the state and has worked extensively to advance management practices involving interstate and international water resources." Governor Dalrymple expressed his gratitude and appreciation to Secretary Sando stating that "his distinguished and exemplary service will enhance the lives of people of the great State of North Dakota for generations to come. We thank him for his many years of dedicated public service and we wish him well in his retirement."

The State Water Commission members discussed the State Engineer's position vacancy application and interview process. It was the recommendation of Governor Dalrymple that a State Engineer's search committee be selected - Commission members Arne Berg, George Nodland, Maurice Foley, and Robert Thompson volunteered to serve on the committee. Others interested in serving on the committee are requested to contact the North Dakota Human Resource Management Services. It was the consensus of the Commission members that the vacancy announcement post on March 10, 2016, with a closing date of April 8, 2016 for accepting applications.

It was moved by Commissioner Foley, seconded by Commissioner Thompson, and unanimously carried, that the North Dakota Human Resource Management Services Officer be directed to post the State Engineer vacancy announcement, position number 770-6725, on March 10, 2016, with a closing date of April 8, 2016 for accepting applications.

#### CONSIDERATION OF AGENDA

The agenda for the March 9, 2016 State Water Commission meeting was presented; there were no modifications.

It was moved by Commissioner Berg, seconded by Commissioner Nodland, and unanimously carried, that the agenda be accepted as presented.

CONSIDERATION OF DRAFT MINUTES OF DECEMBER 11, 2015 STATE WATER COMMISSION MEETING - APPROVED The draft final minutes of the December 11, 2015 State Water Commission meeting were approved by the following motion:

It was moved by Commissioner Berg, seconded by Commissioner Hanson, and unanimously carried, that the draft final minutes of the December 11, 2015 State Water Commission meeting be approved as prepared.

CONSIDERATION OF DRAFT MINUTES OF FEBRUARY 9, 2016 STATE WATER COMMISSION MEETING - APPROVED The draft final minutes of the February 9, 2016 State Water Commission meeting were approved by the following motion:

It was moved by Commissioner Berg, seconded by Commissioner Hanson, and unanimously carried, that the draft final minutes of the February 9, 2016 State Water Commission meeting be approved as prepared.

STATE WATER COMMISSION -PROGRAM BUDGET EXPENDITURES AND CONTRACT FUND ALLOCATIONS, 2015-2017 BIENNIUM In the 2015-2017 biennium, the State Water Commission has two line items - administrative and support services, and water and atmospheric resources expenditures. The allocated program ex-

penditures for the period ending January 31, 2016 were presented and discussed by David Laschkewitsch, State Water Commission's Director of Administrative Services. The expenditures, in total, are within the authorized budget amounts. **SEE APPENDIX** "A"

The Contract Fund for the 2015-2017 biennium, *APPENDIX "B"*, provides information on the committed and uncommitted funds from the Resources Trust Fund and the Water Development Trust Fund. The current Contract Fund total allocation for projects is \$629,418,761 with expenditures of \$145,199,543. A balance of \$395,589,365 remains available to commit to projects in the 2015-2017 biennium.

STATE WATER COMMISSION -RESOURCES TRUST FUND AND WATER DEVELOPMENT TRUST FUND REVENUES, 2015-2017 BIENNIUM Oil extraction tax deposits into the Resources Trust Fund total \$87,398,118, through February, 2016, and are currently \$55,079,239 above originally-budgeted revenues. A revised forecast has been prepared that projects the oil

extraction revenue for the 2015-2019 biennium will be short by \$54,960,797 from the original projection of \$264,259,277.

No deposits have been received for the Water Development Trust Fund (tobacco settlement) in the 2015-2017 biennium. The first planned deposit is for \$8,900,000 in April, 2016.

CITY OF BEULAH, WATER TREATMENT SYSTEM IMPROVEMENTS PROJECT -TOTAL GRANT/LOAN (\$3,520,000) -APPROVAL OF STATE COST PARTICIPATION GRANT (\$2,640,000); AND LOAN APPROVAL (\$880,000) (SWC Project No. 2050-BEU) A request from the city of Beulah was presented for the State Water Commission's consideration for state cost participation towards their water treatment system improvements project. The proposed project involves the design and construction of a membrane system at the water treatment plant, additional

lagoon capacity for waste handling, and well field improvements to provide sufficient water quality and quantity to accommodate the increased water demand which is attributed to growth related to the oil and energy development in the area. The project engineer's cost estimate is \$5,800,000, of which surge funding of \$1,400,000 will be used towards pre-construction engineering costs and a portion of construction engineering and construction costs, and the remaining balance of \$4,400,000 to be considered for 80 percent cost share funding (\$3,520,000).

Representatives from the city of Beulah appeared before the Commission to present technical information relative to upgrading and expanding their existing water treatment plant and wells to accommodate planned growth. Discussion included options that were considered which included water service from the Southwest Pipeline Project. Because of the significant costs for construction of a transmission pipeline and upgrading the water treatment plant capacity, the city decided to pursue the option which is being presented before the Commission. In the past, the State Water Commission has encouraged the connection of communities into a regional system in its project design and development and, as the city of Beulah's project was further discussed at this meeting, the Commission members reiterated their support of regionalization.

It was the recommendation of Secretary

Sando that the State Water Commission approve a state cost participation grant not to exceed an allocation of \$2,640,000 of the eligible costs from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), with construction engineering and construction costs funded at 60 percent; and approve a 20 percent loan with a 1.5 percent interest rate and a 20-year loan in the amount of \$880,000 from the State Water Commission's Infrastructure Revolving Loan Fund, to support the city of Beulah's water treatment system improvements project.

It was moved by Commissioner Swenson and seconded by Commissioner Foley that the State Water Commission approve funding of 80 percent of the eligible items (\$4,400,000) for a total amount not to exceed \$3,520,000 to be disbursed as follows:

- 1) approve a 60 percent state cost participation grant of the construction engineering and construction eligible costs not to exceed an allocation of \$2,640,000 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020). This approval is contingent upon the availability of funds; and
- 2) approve a 20 percent loan in the amount of \$880,000 from the State Water Commission's Infrastructure Revolving Loan Fund, managed by the Bank of North Dakota, at an interest rate of 1.5 percent with a 20-year term, to the city of Beulah to support their water treatment system improvements project.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

CITY OF WILLISTON 2015
WATER SYSTEM IMPROVEMENTS APPROVAL OF COSTS INCURRED
AFTER MAY 13, 2015 ELIGIBLE
FOR COST SHARE
(SWC Project No. 2050-WLL)

On October 6, 2015, the State Water Commission adopted a motion approving a state cost participation grant not to exceed a total allocation of \$10,890,472 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), with

pre-construction engineering eligible costs funded at 35 percent, and construction engineering and construction eligible costs funded at 60 percent, to the city of Williston to support their 2015 water supply infrastructure improvements on the following projects to address continued growth from oil exploration and production:

- 1) 11th Street Water Main
- 2) 16th Avenue Water Main
- 3) High School Area Improvements Water Main
- 4) Wegley Green Acres
- 5) Williston Park Water Supply
- 6) West Reservoirs
- 7) 26th Street Water Main
- 8) Hi-Lands Water Supply

The current North Dakota State Water Commission Cost Share Policy, Procedure, and General Requirements, Section I, E. <u>Ineligible Items</u>, states, "Work and costs incurred prior to a cost share approval date, except for emergencies as determined by the Chief Engineer," are excluded from cost share.

2015 Senate Bill 2020, the State Water Commission's appropriation, Section 17, State Water Commission Project Funding Designations, states, "Of the funds appropriated in the water and atmospheric resources line item in section 1 of this Act from funds available in the resources trust fund, water development trust fund, and the line of credit available from the Bank of North Dakota, \$85,000,000 was included for municipal water projects. Senate Bill 2020 was filed with the North Dakota Secretary of State on May 13, 2015.

The October, 2015 cost share request from the city of Williston specified the projects were a part of major infrastructure work that needed to be completed in 2015, the recommendation to the State Water Commission on October 6, 2015 did not indicate that the projects were in various stages of design and construction. It was the recommendation of Secretary Sando that the State Water Commission approve costs incurred after May 13, 2015 as eligible costs for the city of Williston 2015 system improvements.

It was moved by Commissioner Hanson and seconded by Commissioner Berg that the State Water Commission approve costs incurred after May 13, 2015 as eligible costs for the city of Williston 2015 system improvements.

GARRISON RURAL WATER
DISTRICT, SYSTEM EXPANSION APPROVAL OF STATE COST
PARTICIPATION GRANT (\$2,003,550)
(SWC Project No. 2050-GAR)

A request from the Garrison Rural Water District was presented for the State Water Commission's consideration for state cost participation for their water supply improvements project. The objective of the proposed project will

include construction of new water storage facilities and pump stations that will increase the water supply capacity and provide adequate volume and pressure to all existing users as well as future users in the areas identified for growth. The project engineer's cost estimate is \$2,761,000, with pre-construction engineering eligible costs of \$168,000, and construction engineering and construction eligible costs of \$2,593,000.

Sando that the State Water Commission approve a state cost participation grant not to exceed \$2,003,550 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), with pre-construction engineering eligible costs funded at 35 percent, and construction engineering and construction eligible costs funded at 75 percent, to the Garrison Rural Water District to support their system expansion project.

It was moved by Commissioner Foley and seconded by Commissioner Thompson that the State Water Commission approve a state cost participation grant not to exceed \$2,003,550 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), with pre-construction engineering eligible costs funded at 35 percent, and construction engineering and construction eligible costs funded at 75 percent, to the Garrison Rural Water District to support their system expansion project. This approval is contingent upon the availability of funds.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

NORTHEAST REGIONAL WATER
DISTRICT, CITY OF DEVILS LAKE
WATER SUPPLY PROJECT APPROVAL OF ADDITIONAL STATE
COST PARTICIPATION (\$16,696,920)
(\$15,010,000-GRANT; \$1,686,920-LOAN)
(SWC Project No 2050-NOE)

On December 11, 2015, the State Water Commission adopted a motion approving a state cost participation grant not to exceed an allocation of \$533,750 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020) towards the feasibility study, with pre-construction eng-

ineering eligible costs funded at 35 percent, to the Northeast Regional Water District to support the city of Devils Lake water supply project.

The Northeast Regional Water District is proposing a project to address a water supply for the Langdon rural water branch of the Northeast Regional Water District, the city of Langdon, and system capacity for an additional project to add 150 new rural users in the Langdon rural water branch. The proposed project provides regionalization with the city of Devils Lake by constructing a pipeline to bring treated water from the city of Devils Lake's water treatment plant. The project engineer's cost estimate is \$23,400,625, with pre-construction engineering eligible costs of \$1,525,000, and construction engineering and construction eligible costs of \$21,875,625. The project includes a 20.7 percent buy-in of Devils Lake's nongrant cost of \$4,689,144 for providing 600 gallons per minute from the city's water supply system capacity of 2,900 gallons per minute.

The current State Water Commission cost share policy provides funding for the construction engineering and construction through a combination grant and loan not to exceed 80 of the eligible costs. A request from the Northeast Regional Water District was presented for the State Water Commission's consideration for a state cost participation grant of 75 percent for the eligible construction engineering and construction costs, and a 5 percent loan from the State Water Commission's Infrastructure Revolving Loan Fund.

Gordon Johnson, Manager, Northeast Regional Water District, provided technical information relative to the proposed project. Mr. Johnson stated the project would pass through the Greater Ramsey Water District service area, but he reiterated the District's re-assurance that the project would not encroach on the Ramsey service area and would not connect any additional water users without the concurrence of the Greater Ramsey Water District.

Sando that the State Water Commission approve a state cost participation grant not to exceed an additional allocation of \$15,010,000, with eligible construction engineering and construction costs funded at 75 percent from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020); and a 5 percent loan not to exceed \$1,686,920 from the State Water Commission's Infrastructure Revolving Loan Fund, with an interest rate of 1.5 percent and a 20-year term, to the Northeast Regional Water District to support their city of Devils Lake water supply project.

It was moved by Commissioner Berg and seconded by Commissioner Swenson that the State Water Commission approve a state cost participation grant not to exceed an additional allocation of \$15,010,000, with eligible construction engineering and construction costs funded at 75 percent from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020); and a 5 percent loan not to exceed \$1,686,920 from the State

Water Commission's Infrastructure Revolving Loan Fund, with an interest rate of 1.5 percent and a 20-year term, to the Northeast Regional Water District to support their city of Devils Lake water supply project.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

These approvals increase the total state cost participation allocation to \$17,230,670 (\$15,543,750 (grants) and \$1,686,920 (loan).

SOUTHEAST WATER USERS
DISTRICT, SYSTEM-WIDE EXPANSION APPROVAL OF ADDITIONAL
STATE COST PARTICIPATION
GRANT (\$11,791,000)
(SWC Project No. 2050-SOE)

A request from the Southeast Water Users District was presented for the State Water Commission's consideration for state cost participation for the design and construction of their systemwide expansion project. The objective of the proposed project is to provide water

service to 350 rural users throughout the unserved areas and capacity for the city of Walcott.

On October 8, 2015, the State Engineer approved an allocation of \$35,000 (35 percent) on the pre-construction engineering eligible costs. The project engineer's revised estimated project cost is \$16,500,000, with pre-construction engineering eligible costs of \$1,372,500, and eligible construction engineering and construction costs of \$15,127,500.

It was the recommendation of Secretary Sando that the State Water Commission approve a state cost participation grant not to exceed an additional allocation of \$11,791,000 (\$11,826,000 grant less \$35,000 approved October 8, 2015) from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2010), with pre-construction engineering eligible costs funded at 35 percent, and eligible construction engineering and construction eligible costs funded at 75 percent, to the Southeast Water Users District to support their system-wide expansion project.

It was moved by Commissioner Berg and seconded by Tom Bodine, representing Commissioner Goehring, that the State Water Commission approve a state cost participation grant not to exceed an additional allocation of \$11,791,000 (\$11,826,000 grant less \$35,000 approved October 8, 2015) from the funds appropriated to

the State Water Commission in the 2015-2017 biennium (S.B. 2010), with pre-construction engineering eligible costs funded at 35 percent, and eligible construction engineering and construction costs funded at 75 percent, to the Southeast Water Users District to support their system-wide expansion project. This approval is contingent upon the availability of funds.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

This approval increases the total state cost allocation grants to \$11,826,000 the the Southeast Water Users District, system-wide expansion project.

WALSH RURAL WATER
DISTRICT, SYSTEM EXPANSION
PHASES I AND II - APPROVAL OF
5 PERCENT LOAN (\$250,490)
(SWC Project No. 2050-WAL)

The Walsh Rural Water District, system expansion, Phases I and II, involves the design and construction of a project that will include the addition of 15 new rural users and upsizing approximately 30 miles of undersized pipeline. The pipe-

line expansion is required due to system expansion and increased demand over the past 10-15 years. The additional pipeline will ensure adequate pressure and water supply service to all current and new users. The project engineer's cost estimate is \$2,929,800, with pre-construction engineering eligible costs of \$260,000, and construction engineering and construction eligible costs of \$2,669,800.

On December 11, 2015, the State Water Commission adopted a motion approving a state cost participation grant not to exceed an allocation of \$2,093,350 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), with pre-construction engineering eligible costs funded at 35 percent, and eligible construction engineering and construction costs funded at 75 percent, to the Walsh Rural Water District to support their system expansion project, Phases I and II.

The current State Water Commission cost share policy provides funding for a combination grant and loan not to exceed 80 percent of the eligible costs. A request from the Walsh Rural Water District was presented for the State Water Commission's consideration for a 5 percent loan from the State Water Commission's Infrastructure Revolving Loan Fund.

It was the recommendation of Secretary

Sando that the State Water Commission approve a 5 percent loan for the preconstruction engineering eligible costs and the eligible construction engineering and construction costs not to exceed \$250,490 from the State Water Commission's Infrastructure Revolving Loan Fund, with an interest rate of 1.5 percent and a 20-year term, to the Walsh Rural Water District to support their system expansion project, Phases I and II.

It was moved by Commissioner Vosper and seconded by Commissioner Nodland that the State Water Commission approve a 5 percent loan for the pre-construction engineering eligible costs and the eligible construction engineering and construction costs not to exceed \$250,490 from the State Water Commission's Infrastructure Revolving Loan Fund, with an interest rate of 1.5 percent and a 20-year term, to the Walsh Rural Water District to support their system expansion project, Phases I and II. This approval is contingent upon the availability of funds.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

SWC/USGS COOPERATIVE STATEWIDE HYDROLOGIC MONITORING PROGRAM -APPROVAL OF STATE COST PARTICIPATION GRANT (\$529,075) (SWC Project No. 2041) A request from the U.S. Geological Survey was presented for the State Water Commission's consideration for state cost participation in the cooperative statewide hydrologic monitoring program. The 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.

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 provide real-time data, which was crucial in responding to the flood events that occurred in 2009 and 2011.

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 includes real-time monitoring capabilities to the continuous recorder wells.

The State Water Commission has participated in a cooperative statewide hydrologic monitoring program since the 1950s. The total cost of the monitoring program for federal Fiscal Year 2016 is \$1,014,240, of which the State Water Commission's obligation of this amount is \$529,075 (52.1 percent); the remaining \$485,165 will be provided by the U.S. Geological Service.

It was the recommendation of Secretary Sando that the State Water Commission approve a federal 2016 Fiscal Year obligation of \$529,075 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020) to the U.S. Geological Survey Water Science Center, to support the cooperative statewide hydrologic monitoring program.

It was moved by Commissioner Berg and seconded by Commissioner Thompson that the State Water Commission approve a federal 2016 Fiscal Year obligation of \$529,075 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the U.S. Geological Survey Water Science Center to support the cooperative statewide hydrologic monitoring program. This approval is contingent upon the availability of funds.

RICHLAND COUNTY LEGAL DRAIN NO. 2 RECONSTRUCTION AND EXTENSION PROJECT -APPROVAL OF STATE COST PARTICIPATION GRANT (\$535,500) (SWC Project No. 1176) A request from the Richland County Water Resource District was presented for the State Water Commission's consideration for state cost participation for the Legal Drain No. 2 reconstruction and extension project. The project is located in Richland county near the city of Colfax.

Legal Drain No. 2 was constructed in the early 1900s with steep side slopes and a narrow channel. The proposed project will widen the existing channel and flatten the side slopes to 4:1 stabilizing the channel and increasing the capacity to reduce flooding. Bids will be advertised in March, 2016, with construction completion anticipated in late 2016. An application for a Section 404 permit has been filed with the Corps of Engineers; and a drain permit application is currently pending.

The proposed project consists of the reconstruction of 3.5 miles of the existing drain channel and the construction of a new extension of approximately 3/4 mile. The extension will be constructed in the location of an existing road and private drainage ditch. The drain flows east and discharges into the Wild Rice River in Section 25 of Eagle South Township. The last easterly 1/2 mile of drain will not be reconstructed as it was completed as a NRCS project in the past, and 1.5 miles of drain, in the middle of the complex, which was modified in 2004-2007 will not be modified. The project engineer's cost estimate is \$1,675,000, of which \$1,190,000 is determined eligible as a rural flood control project at 45 percent (\$535,500).

It was the recommendation of Secretary Sando that the State Water Commission approve a state cost participation grant of 45 percent as a rural flood control project, not to exceed an allocation of \$535,500 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Richland County Water Resource District to support the Legal Drain No. 2 reconstruction and extension project.

It was moved by Commissioner Swenson and seconded by Commissioner Vosper that the State Water Commission approve a state cost participation grant of 45 percent as a rural flood control project, not to exceed an allocation of \$535,500 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Richland County Water Resource District to support the Legal Drain No. 2 reconstruction and extension project. This approval is contingent upon the availability of funds, and satisfaction of the required permits.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

BUXTON TOWNSHIP IMPROVEMENT DISTRICT NO. 68 (TRAILL COUNTY) -APPROVAL OF STATE COST PARTICIPATION GRANT (\$512,090) (SWC Project No. 1311) A request from the Traill County Water Resource District was presented for the State Water Commission's consideration for state cost participation for the Buxton Township Improvement District No. 68 project for pre-construction engineering

and construction of the project. The proposed project will improve the capacity of the existing road ditches, allow agricultural drainage to enter the channel with greater flexibility, and eliminate standing water currently present in existing road ditches that over time are saturating the roadbed causing stability issues.

On June 17, 2015, the State Engineer approved \$15,745 for the preliminary engineering costs for the project. The District completed the preliminary engineering design, and the assessment vote was passed in December, 2015. A drain permit application is currently pending.

The project engineer's cost estimate is \$1,604,495, of which \$1,076,702 is determined eligible for cost share participation as a rural flood control project at 45 percent (\$484,516), and \$78,784 is determined eligible for pre-construction engineering at 35 percent (\$27,574), for a total state cost participation grant of \$512,090.

Sando that the State Water Commission approve a state cost participation grant at 45 percent of the eligible costs as a rural flood control project, and 35 percent of the eligible costs for pre-construction engineering, not to exceed a total allocation of \$512,090 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Traill County Water Resource District to support the Buxton Township Improvement District No. 68 project.

It was moved by Commissioner Berg and seconded by Commissioner Nodland that the State Water Commission approve a state cost participation grant at 45 percent of the eligible costs as a rural flood control project, and 35 percent of the eligible costs for pre-construction engineering, not to exceed a total allocation of \$512,090 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Traill County Water Resource District to support the Buxton Township Improvement District No. 68 project. This approval is contingent upon the availability of funds, and satisfaction of the required permits.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

LAKE BERTHA FLOOD CONTROL PROJECT NO. 75 (CASS COUNTY) -APPROVAL OF STATE COST PARTICIPATION GRANT (\$201,350) (SWC Project No. 2065) A request from the Cass County Joint Water Resource District was presented for the State Water Commission's consideration for state cost participation for the Lake Bertha Flood Control Project No. 75 located in the Lake Bertha basin situated in Eldred Township in

Cass County near the city of Alice, North Dakota.

Cass County Highway 6 has been inundated by high water levels in the basin and numerous other township roadways have also been impacted with some currently remaining underwater. The basin naturally flows to the north into an existing drainage channel that discharges into Buffalo Creek, a tributary of the Maple River, and contributes to flooding downstream. The proposed project will include a controlled outlet that would enable the District to mitigate the damages caused by excess water levels in recent years and provide an opportunity to utilize the existing storage capacity within the basin for future floodwater detention benefits. A portion of the existing channel will be modified to accommodate the depth and size of the new outlet. Initial estimates indicate that more than 3,000 acre-feet of storage could be provided if the project is constructed.

The project engineer's cost estimate is \$541,780, of which \$363,858 is determined eligible for state cost participation at 52.5 percent as a water retention and rural flood control project (\$191,025), and \$29,500 is determined eligible for state cost participation at 35 percent for pre-construction engineering (\$10,325), for a total state cost participation of \$201,350.

It was the recommendation of Secretary Sando that the State Water Commission approve a state cost participation grant of 52.5 percent of the eligible costs as a water retention and rural flood control project, and 35 percent of the eligible costs for pre-construction engineering, not to exceed a total allocation of \$201,350 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Cass County Joint Water Resource District to support the Lake Bertha Flood Control Project No. 75.

It was moved by Commissioner Thompson and seconded by Commissioner Vosper that the State Water Commission approve a state cost participation grant of 52.5 percent of the eligible costs as a water retention and rural flood control project, and 35 percent of the eligible costs for pre-construction engineering, not to exceed a total allocation of \$201,350 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Cass County Joint Water Resource District to support the Lake Bertha Flood Control Project No. 75. This approval is contingent upon the availability of funds, and satisfaction of the required permits.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

RICHLAND COUNTY LEGAL DRAIN NO. 31 IMPROVEMENTS PROJECT -APPROVAL OF STATE COST PARTICIPATION GRANT (\$161,852) (SWC Project No. 1174) A request from the Richland County Water Resource District was presented for the State Water Commission's consideration for state cost participation for the Legal Drain No. 31 improvements project, located near the city of Fairmount, North Dakota.

The proposed project consists of channel reconstruction of approximately 2.1 miles on three sites on the existing drain which flows northerly and discharges to the Wild Rice River northeast of Great Bend, North Dakota. The channel bottom will be widened to 8 feet with 4:1 side slopes, and the side slopes of the drain will be flattened to 4:1 at all three locations. Drop structures will be added to address erosion issues.

FEMA will provide funding assistance as part of the 2013 disaster declaration, and the local funding will be obtained from the Drain No. 31 maintenance assessment district as well as participation from the Richland County Highway Department for the bridge replacement costs. Land acquisition was scheduled for February, 2016, with a bid date anticipated in March, 2016. An Application to Drain permit was submitted to the Office of the State Engineer in December, 2015, and a Corps of Engineers Section 404 permit was applied for in January, 2016. Both permit applications are currently pending review. The project engineer's cost estimate is \$580,000, of which \$359,670 is determined eligible for state cost participation at 45 percent as a rural flood control project (\$161,852).

It was the recommendation of Secretary Sando that the State Water Commission approve a state cost participation grant of 45 percent of the eligible costs as a rural flood control project, not to exceed an allocation of \$161,852 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Richland County Water Resource District to support the Richland County Legal Drain No. 31 improvements project.

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It was moved by Commissioner Swenson and seconded by Commissioner Vosper that the State Water Commission approve a state cost participation grant of 45 percent of the eligible costs as a rural flood control project, not to exceed an allocation of \$161,852 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Richland County Water Resource District to support the Richland County Legal Drain No. 31 improvements project. This approval is contingent upon the availability of funds, and satisfaction of the required permits.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

SHORTFOOT CREEK WATERSHED PLANNING PROGRAM (SARGENT COUNTY) - APPROVAL OF STATE COST PARTICIPATION GRANT (\$154,000) (SWC Project No. 1303) A request from the Sargent County Water Resource District was presented for the State Water Commission's consideration for state cost participation for the Shortfoot Creek Watershed planning program. Rural areas along

Shortfoot Creek have experienced significant flooding and damages particularly as a result of spring snowmelt events. The District will follow the Natural Resource Conservation Service's (NRCS) small watershed planning process to find solutions to the flooding problems in the watershed.

The proposed planning process will have six milestone reporting points with the NRCS. The approach will involve the creation of project development teams tasked with identifying the local problems facing the watershed and sorting through practical alternatives for addressing those problems. Multiple alternatives will be identified by the team and preliminary designs, geotechnical investigations, cost estimates, and a comprehensive benefit-cost analysis will be completed. The team's findings will be presented to the District and local stakeholders for consideration for further advancement of the project. NRCS will approve the final watershed plan and environmental assessment.

The project engineer's cost estimate is \$940,000, of which the Natural Resources Conservation Service will contribute \$500,000. All of the remaining costs of \$440,000 is determined eligible for state cost participation at 35 percent (\$154,000).

It was the recommendation of Secretary

Sando that the State Water Commission approve a state cost participation grant as a planning study at 35 percent of the eligible costs, not to exceed an allocation of \$154,000 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Sargent County Water Resource District to support the Shortfoot Creek Watershed Planning Program.

It was moved by Commissioner Nodland and seconded by Commissioner Swenson that the State Water Commission approve a state cost participation grant of 35 percent of the eligible costs as a planning study, not to exceed an allocation of \$154,000 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Sargent County Water Resource District to support the Shortfoot Creek Watershed Planning Program. This approval is contingent upon the availability of funds.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

SHEYENNE RIVER VALLEY FLOOD CONTROL PROGRAM -CITY OF LISBON PERMANENT FLOOD CONTROL PROJECT, CONSTRUCTION OF PHASE I - LEVEE E PROJECT -APPROVAL OF ADDITIONAL STATE COST the State Water Commission in 2011 PARTICIPATION GRANTS (\$2,098,000); AND LOAN TO CITY OF LISBON (\$527,000) Valley Flood Protection Program (SWC Project No. 1991-06)

On June 19, 2013, the State Water Commission adopted a motion approving a state cost participation grant of 90 percent not to exceed an allocation of \$700,650 from the funds appropriated to Senate Bill 2371 for the Sheyenne River assist the city of Lisbon with their preliminary engineering design and legal costs

associated with development of a permanent flood control project, Phase I - Levee C. The city was granted an exception to policy because of devastation by multiple years of flooding.

On May 20, 2015, the State Water Commission adopted a motion to approve a state cost participation grant of 90 percent not to exceed an additional allocation of \$142,200 from the funds appropriated to the State Water Commission in the 2013-2015 biennium (H.B. 1020), for a total state cost participation grant of \$842,850 for the Sheyenne River Valley Flood Protection Program to the City of Lisbon, Phase I - Levee E to assist in the engineering and legal services.

A request from the city of Lisbon was presented for the State Water Commission's consideration for state cost participation for construction of Phase I - Levee E project. The proposed project will be constructed in the central portion of the city along the east side of the Sheyenne River with an earthen levee of 1,100 linear feet of permanent flood protection construction. This levee will provide flood protection to homes and the city's infrastructure. The project engineer's estimated cost is \$2,625,000, of which \$2,622,500 is eligible for state cost participation at 60 percent of the eligible costs as a flood control project (\$1,573,500).

Sando that the State Water Commission: 1) approve a state cost participation grant as a flood control project at 60 percent of the eligible costs (\$1,573,500); 2) provide an exception from its current cost share policy to approve an additional state cost participation grant of 20 percent of the eligible costs (\$524,500) to mitigate the flood risk from the Devils Lake outlets, which would provide a total state cost participation grant of 80 percent not to exceed a total additional allocation of \$2,098,000 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the city of Lisbon for construction of its permanent flood protection project, Phase I - Levee E; and 3) approve a 30-year loan from the State Water Commission's Infrastructure Revolving Loan Fund to the city of Lisbon for the local cost share (\$527,000), with an interest rate of 1.5 percent.

It was moved by Commissioner Foley and seconded by Commissioner Thompson that the State Water Commission:

- 1) approve a state cost participation grant as a flood control project at 60 percent of the eligible costs (\$1,573,500);
- 2) approve a state cost participation grant to mitigate the flood risk from the Devils Lake outlets at 20 percent of the eligible costs (\$524,500); and
- 3) approve a 30-year loan to the city of Lisbon from the State Water Commission's Infrastructure Revolving Loan Fund for the local cost share (\$527,000), with an interest rate of 1.5 percent.

The above approvals include total state cost participation grants of 80 percent not to exceed a total allocation of \$2,098,000 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), and a loan in the amount of \$527,000 from the State Water Commission's Infrastructure Revolving Loan Fund to the city of Lisbon for construction of its permanent flood protection project, Phase I - Levee E.

These approvals are contingent upon the availability of funds, and satisfaction of the required permits.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

The total state cost participation for the Sheyenne River Valley Flood Protection Program, City of Lisbon, Phase I - Levee E include: engineering and legal services - \$842,850 grant, and construction of permanent flood protection project - \$2,098,000 grant; and a loan from the State Water Commission's Infrastructure Revolving Loan Fund to the city of Lisbon for \$527,000.

EPPING DAM SPILLWAY RECON-STRUCTION (WILLIAMS COUNTY) -APPROVAL OF ADDITIONAL STATE COST PARTICIPATION GRANT (\$719,045) (SWC Project No. 346) On February 27, 2013, the State Water Commission adopted a motion approving a state cost participation grant at 50 percent of the eligible costs as an engineering feasibility study not to exceed an allocation of \$66,200 from

the funds appropriated to the State Water Commission in the 2011-2013 biennium (S.B. 2020), to the William County Water Resource District to support the Epping Dam evaluation project. Epping Dam was constructed in 1935 and is regulated and inspected by the State Water Commission. The dam is located in Section 9, Township 155 North, Range 99 West, and classified as a high hazard dam.

As a result of the inspection completed by State Water Commission staff, an evaluation of the dam was recommended. The concrete chute spillway constructed in 1980 has significantly deteriorated with structural items being deficient and requires replacement or repair for dam safety purposes. A December, 2013 engineering report documented these conditions and provided recommendations relative to the required items and corrective action to prevent additional future damages and increased risk of failure. The restoration work requires a significant lowering of the reservoir levels which will be coordinated with the North Dakota Game and Fish Department.

The project engineer's total cost estimate is \$965,726, of which \$958,726 is determined eligible for a 75 percent state cost participation as a dam safety project (\$719,045). The final reconstruction design plans and specifications are expected to be completed in early 2016, with the advertisement for bids occurring in May or June, and a proposed construction start in mid-July. Project completion is anticipated in October, 2016.

It was the recommendation of Secretary

Sando that the State Water Commission approve a state cost participation grant of 75 percent of the eligible costs as a dam safety project, not to exceed an additional allocation of \$719,045 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Williams County Water Resource District to support the Epping Dam spillway reconstruction project.

It was moved by Commissioner Hanson and seconded by Commissioner Berg that the State Water Commission approve state cost participation at 75 percent of the eligible costs as a dam safety project, not to exceed an additional allocation of \$719,045 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Williams County Water Resource District to support the Epping Dam spillway reconstruction project. This action is contingent upon the availability of funds.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

This approval increases the total state allocation grants to \$785,245 to the Williams County Water Resource District to support the Epping Dam spillway reconstruction project.

RICHLAND COUNTY LEGAL DRAIN NO. 5 (LATERAL 27) RECONSTRUCTION -APPROVAL OF STATE COST PARTICIPATION GRANT (\$531,000) (SWC Project No. 1179) A request from the Richland County Water Resource District was presented for the State Water Commission's consideration for state cost participation for the Richland County Legal Drain No. 5 (Lateral 27) Reconstruction project, located near the city of Walcott.

Legal Drain No. 5 (Lateral 27) was constructed in the 1920s. The proposed project consists of the reconstruction of 2.75 miles of the existing drain channel. The main Drain No. 5 flows northerly and discharges into the Wild Rice River in Cass county. The project would reconstruct the Lateral 27 to increase its capacity to take a portion of the flood flow directly east to the Wild Rice River northwest of the city of Christine. This alternate outlet was proposed to provide relief to the main drain in the early 1900s but was never completed.

The outlet reconstruction will consist of two concrete drop structures into the river due to the 20-foot drop in the last 1,000 feet of channel. The design channel bottom width is 8-12 feet and the side slopes are 4:1.

The existing township road along the north side of the drain would be maintained, and the drain channel centerline would be moved to the south. A drain permit was filed in the Office of the State Engineer on January 28, 2016 and is currently pending review. A bid date is anticipated in March. 2016, with construction being completed in December, 2016. The project engineer's cost estimate is \$1,315,000, of which \$1,180,000 is determined eligible as a rural flood control project at 45 percent (\$531,000).

Sando that the State Water Commission approve a state cost participation grant at 45 percent of the eligible costs as a rural flood control project, not to exceed an allocation of \$531,000 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Richland County Water Resource District to support the Richland County Legal Drain No. 5 (Lateral 27) Reconstruction project.

It was moved by Commissioner Swenson and seconded by Commissioner Vosper that the State Water Commission approve a state cost participation grant at 45 percent of the eligible costs as a rural flood control project, not to exceed an allocation of \$531,000 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Richland County Water Resource District to support the Richland County Legal Drain No. 5 (Lateral 27) Reconstruction project. This approval is contingent upon the availability of funds, and satisfaction of the required permits.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

MICHIGAN SPILLWAY FLOOD CONTROL PROJECT (NELSON COUNTY) -APPROVAL OF ADDITIONAL STATE COST PARTICIPATION GRANT (\$382,049) (SWC Project No. 1932)

The Michigan Spillway Flood Control project is located in Sections 18, 19, and 20 of Township 154 North, Range 58 West (Sarnia Township) and Sections 13, 14, 23, 26, 34, and 35 of Township 154 North, Range 59 West (Enterprise

Township) in Nelson County. The project will utilize a ditch moving the water to a pumping station located in the NE1/4 of Section 23, Township 154 North, Range 59 West, to Dry Run Creek, a tributary to the Middle Branch of the Forest River.

The constructed drain is 8.03 miles in length with a drainage area of approximately 35,400 acres, and constructed with a maximum cut of 22 feet, 3:1 side slopes, and a 12-foot to 16-foot bottom width. Approximately 3,310 feet of previously open channel has been converted to a corrugated metal pipe arch.

On August 30, 2005, the State Water Commission passed a motion approving a state cost participation grant not to exceed an allocation of \$461,696, of which \$311,696 (40 percent of the eligible costs) was allocated from the funds appropriated to the State Water Commission in the 2005-2007 biennium, and a legislative earmark of \$150,000 from the funds obligated for water-related damage to infrastructure in Nelson county (H.B. 1021) for construction of the Michigan spillway rural flood control assessment drain. During the 2009-2011 biennium, the Legislature earmarked an additional \$350,000 specifically designated for the Michigan Flood Control project.

Because of project design and realignment modifications, the project engineer's revised cost estimate was \$2,250,000. On June 1, 2010, the State Water Commission approved an additional allocation not to exceed \$738,304 (eligible costs of \$1,550,000, less \$311,696 approved on August 30, 2005 and \$500,000 from legislative earmarks).

On December 13, 2013, the State Water Commission passed a motion approving a 65 percent state cost participation grant as a flood control project not to exceed an additional allocation of \$1,076,705 from the funds appropriated to the State Water Commission in the 2013-2015 biennium (H.B. 1020) (eligible costs of \$2,626,705 (65 percent), less \$311,696 approved on August 30, 2005, \$738,304 approved on June 1, 2010, and \$500,000 from legislative earmarks). These approvals total state funds of \$2,626,705.

Because of additional costs to satisfy the required permits and price increases, the project engineer's revised cost estimate is \$4,628,853, all of which is determined eligible for a 65 percent state cost participation grant (\$3,008,754). A request was presented for the State Water Commission's consideration for a state cost participation grant of 65 percent not to exceed an additional \$382,049.

It was the recommendation of Secretary Sando that the State Water Commission approve a state cost participation grant at 65 percent as a flood control project not to exceed an additional allocation of \$382,049 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020) (eligible costs of \$3,008,754, less \$311,696 approved on August 30, 2005, \$738,304 approved on June 1, 2010, \$1,076,705 approved on December 13, 2013, and \$500,000 from legislative earmarks), to the Nelson County Water Resource District to support the Michigan Spillway Flood Control project.

It was moved by Commissioner Foley and seconded by Commissioner Berg that the State Water Commission approve a state cost participation grant at 65 percent as a flood control project not to exceed an additional allocation of \$382,049 from the funds

appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020) (eligible costs of \$3,008,754, less \$311,696 approved on August 30, 2005, \$738,304 approved on June 1, 2010, \$1,076,705 approved on December 13, 2013, and \$500,000 from legislative earmarks), to the Nelson County Water Resource District to support the Michigan Spillway Flood Control project. This approval is contingent upon the availability of funds.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

This approval increases the total state allocation grants to \$3,008,754 to the Nelson County Water Resource District to support the Michigan Spillway Flood Control project.

TONGUE RIVER NRCS WATERSHED PLAN (PEMBINA/CAVALIER COUNTIES) -APPROVAL OF STATE COST PARTICIPATION GRANT (\$104,703) (SWC Project No. 1296) A request from the Pembina County Water Resource District was presented for the State Water Commission's consideration for state cost participation for the Tongue River NRCS Watershed plan.

The proposed study is an accepted proposal by the Red River Retention Authority for the Natural Resources Conservation Service (NRCS) Regional Conservation Partnership program funding. The study will evaluate benefits of retention in the Tongue River watershed between the existing Senator Young Dam and Renwick Dam. Through this reach of the Tongue River, flood flows often leave the channel and cause flood damages to agricultural properties and infrastructure in the region. The proposed study will engage the general public, federal, state and local agencies to clearly define the purpose and need, scope of potential resource impacts, evaluate alternatives, and determine a preferred alternative. All planning is partially funded by NRCS and will follow the required planning procedures defined by Public Law 83-566.

The project engineer's cost estimate is \$799,151, of which the Natural Resource Conservation Service will contribute \$500,000. All of the remaining costs of \$299,151 are determined eligible for state cost participation at 35 percent (\$104,703) as a study.

It was the recommendation of Secretary

Sando that the State Water Commission approve a state cost participation grant as a study at 35 percent of the eligible costs not to exceed an allocation of \$104,703 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Pembina County Water Resource District to support the Tongue River NRCS Watershed Plan.

It was moved by Commissioner Nodland and seconded by Commissioner Swenson that the State Water Commission approve a state cost participation grant as a feasibility study at 35 percent of the eligible costs not to exceed an allocation of \$104,703 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Pembina County Water Resource District to support the Tongue River NRCS Watershed plan. This approval is contingent upon the availability of funds.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

NORTH BRANCH ANTELOPE CREEK NRCS WATERSHED PLAN (RICHLAND COUNTY) - APPROVAL OF STATE COST PARTICIPATION GRANT (\$113,400) (SWC Project No. 1301) A request from the Richland County Water Resource District was presented for the State Water Commission's consideration for state cost participation for the North Branch Antelope Creek NRCS Watershed study.

The proposed study is one of the 20 accepted proposals by the Red River Retention Authority for the Natural Resources Conservation Service (NRCS) - Regional Conservation Partnership program funding. Numerous previous studies have identified the Antelope Creek in Richland county as one of the larger contributors to downstream flooding in the upper Red River basin due to the timing of the runoff. This watershed has significant potential to control runoff to provide the most effective detention of flood waters in the upper region. Flooding of small cities, rural farmsteads, and agricultural land will be addressed by the NRCS process as well as erosion issues. The study is intended to identify a potential alternative, complete a partial design, and permit retention of floodwaters within the watershed. All planning is partially funded by NRCS and will follow the required planning procedures defined by Public Law 83-566. The study is expected to be completed in September, 2018.

The project engineer's cost estimate is \$824,000, of which the Natural Resource Conservation Service will contribute \$500,000. All of the remaining costs of \$324,000 are determined eligible for state cost participation at 35 percent (\$113,400) as a study.

Sando that the State Water Commission approve a state cost participation grant as a study at 35 percent of the eligible costs not to exceed an allocation of \$113,400 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Richland County Water Resource District to support the North Branch Antelope Creek NRCS Watershed plan.

It was moved by Commissioner Nodland and seconded by Commissioner Swenson that the State Water Commission approve a state cost participation grant as a feasibility study at 35 percent of the eligible costs not to exceed an allocation of \$113,400 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Richland County Water Resource District to support the North Branch Antelope Creek NRCS Watershed plan. This approval is contingent upon the availability of funds.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

CASS COUNTY DRAIN NO. 23 CHANNEL IMPROVEMENTS -APPROVAL OF STATE COST PARTICIPATION GRANT (\$137,181) (SWC Project No. 1179) A request from the North Cass Water Resource District was presented for the State Water Commission's consideration for state cost participation for the Cass County Drain No. 23 channel improvements project.

The proposed project involves the reconstruction of one mile of channel located south of Gardner, North Dakota. The improvements will begin upstream of the existing culvert in the northeast corner of Section 12 and continue upstream to immediately downstream of the culverts at the northwest corner of Section 12 in Gardner Township.

The proposed work includes moving the centerline away from the township road and flattening the channel side slopes to improve the capacity and prevent sloughing. Erosion protection will be added upstream of the downstream crossing to prevent head cutting. The proposed channel bottom width is 10 feet, and the side slopes on the field side are 4:1, and side slopes on the road side of the drain will vary between 4:1 and 5:1.

The project engineer's cost estimate is \$365,000, of which \$290,270 is determined eligible as a rural flood control project at 45 percent (\$130,622), and \$18,740 is determined eligible as pre-construction engineering at 35 percent (\$6,559), for a total state cost participation grant of \$137,181.

It was the recommendation of Secretary Sando that the State Water Commission approve a state cost participation grant as a rural flood control project at 45 percent of the eligible costs, and 35 percent of the eligible costs for pre-construction engineering, not to exceed a total allocation of \$137,181 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the North Cass Water Resource District to support the Cass County Drain No. 23 channel improvements project.

It was moved by Commissioner Nodland and seconded by Tom Bodine, representing Commissioner Goehring, that the State Water Commission approve a state cost participation grant as a rural flood control project at 45 percent of the eligible costs, and 35 percent of the eligible costs for pre-construction engineering, not to exceed a total allocation of \$137,181 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the North Cass Water Resource District to support the Cass County Drain No. 23 channel improvements project. This approval is contingent upon the availability of funds, and satisfaction of the required permits.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

CITY OF UNDERWOOD FLOODWATER OUTLET PROJECT (MCLEAN COUNTY) -APPROVAL OF ADDITIONAL STATE COST PARTICIPATION GRANT (\$382,541) (SWC Project No. 1554) On December 13, 2013, the State Water Commission approved a request from the McLean County Water Resource District for a state cost participation grant at 57 percent of the eligible costs not to exceed an allocation of

\$1,100,727 from the funds appropriated to the State Water Commission in the 2013-2015 biennium (H.B. 1020), for the city of Underwood floodwater outlet project, Phase I.

The city has experienced flooding caused by excessive runoff from rural areas in the watershed that are draining into natural sloughs adjacent to the community causing adverse impacts to homes and other infrastructure in and around the city. The city's storm sewer system does not have the

capacity to control the amount of floodwater reaching the city. The feasibility study was completed identifying the potential options for mitigating the flooding problems. The city partnered with the McLean County Water Resource District to develop a floodwater control project that would address the issue.

Water previous State Since the Commission state cost participation approval, the lowest bid for Phase I was higher than anticipated due to increased unit prices. Further changes were also required that were not identified when the project was originally submitted to the State Water Commission but were necessary to complete the project. The project engineer's revised cost estimate is \$2,684,223, of which \$2,602,225 is determined eligible for state cost participation as a flood control project at 57 percent of the eligible costs (\$1,483,268). Based on an analysis to determine the effective watershed area that would be contributing to each of the two sloughs, approximately 5 percent of the watershed area lies within the city limits. Under the State Water Commission's cost share policy, storm water management is considered an ineligible item, therefore, the cost share participation was reduced accordingly.

Sando that the State Water Commission approve a state cost participation grant of 57 percent (95 percent of 60 percent of the eligible costs) as a flood control project, not to exceed an additional allocation of \$382,541 (eligible costs of \$1,483,268 less \$1,100,727 approved on December 13, 2013) from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the McLean County Water Resource District to support the city of Underwood floodwater outlet project.

It was moved by Commissioner Foley and seconded by Commissioner Thompson that the State Water Commission approve a state cost participation grant of 57 percent as a flood control project, not to exceed an additional allocation of \$382,541 (eligible costs of \$1,483,268 less \$1,100,727 approved on December 13, 2013) from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the McLean County Water Resource District to support the city of Underwood floodwater outlet project. This approval is contingent upon the availability of funds.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

This approval increases the total state allocation grant to \$1,483,268 for the City of Underwood Floodwater Outlet project.

CASS COUNTY DRAIN NO. 15 CHANNEL IMPROVEMENTS -APPROVAL OF STATE COST PARTICIPATION GRANT (\$296,562) (SWC Project No. 1071) A request from the Maple River Water Resource District was presented for the State Water Commission's consideration for state cost participation for the Cass County Drain No. 15 channel improvements project.

The proposed project is the reconstruction of approximately 2.1 miles of an existing legal assessment drain located north of the city of Leonard, North Dakota, which has experienced significant channel bottom erosion and side slope failure. The drain will be reconstructed with a 10-foot channel bottom width, 4:1 side slopes, and a flatter channel profile. The District is expecting to begin project design and right-way-acquisition in the spring of 2016, and complete construction by the end of 2016.

The project engineer's cost estimate is \$732,500, of which \$611,386 is determined eligible as a rural flood control project at 45 percent (\$275,124), and \$61,250 is determined eligible as pre-construction engineering at 35 percent (\$21,438).

It was the recommendation of Secretary Sando that the State Water Commission approve a state cost participation grant as a rural flood control project at 45 percent of the eligible costs, and 35 percent of the eligible costs for pre-construction engineering, not to exceed a total allocation of \$296,562 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Maple River Water Resource District to support the Cass County Drain No. 15 channel improvements project.

It was moved by Commissioner Nodland and seconded by Tom Bodine, representing Commissioner Goehring, that the State Water Commission approve a state cost participation grant as a rural flood control project at 45 percent of the eligible costs, and 35 percent of the eligible costs for pre-construction engineering, not to exceed a total allocation of \$296,562 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Maple River Water Resource District to support the Cass County Drain No. 15 channel improvements project. This approval is contingent upon the availability of funds, and satisfaction of the required permits.

CASS COUNTY DRAIN NO. 37 CHANNEL IMPROVEMENTS -APPROVAL OF STATE COST PARTICIPATION GRANT (\$230,326) (SWC Project No. 1088) A request from the Maple River Water Resource District was presented for the State Water Commission's consideration for state cost participation for the Cass County Drain No. 37 channel improvements project. The proposed project is

the reconstruction of approximately one mile of an existing legal assessment drain located west of the city of Davenport, North Dakota within Addison Township of Cass County, which has experienced significant channel bottom erosion and side slope failure. The drain will be reconstructed with a 10-foot channel bottom width, 4:1 side slopes, and a flatter channel profile. The District is expecting to begin project design and right-way-acquisition in the spring, 2016, and complete construction by the end of 2016.

The project engineer's cost estimate is \$571,000, of which \$472,362 is determined eligible as a rural flood control project at 45 percent (\$212,563), and \$50,750 is determined eligible as pre-construction engineering at 35 percent (\$17,763).

It was the recommendation of Secretary Sando that the State Water Commission approve a state cost participation grant as a rural flood control project at 45 percent of the eligible costs, and 35 percent of the eligible costs for pre-construction engineering, not to exceed a total allocation of \$230,326 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Maple River Water Resource District to support the Cass County Drain No. 37 channel improvements project.

It was moved by Commissioner Nodland and seconded by Tom Bodine, representing Commissioner Goehring, that the State Water Commission approve a state cost participation grant as a rural flood control project at 45 percent of the eligible costs, and 35 percent of the eligible costs for pre-construction engineering, not to exceed a total allocation of \$230,326 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Maple River Water Resource District to support the Cass County Drain No. 37 channel improvements project. This approval is contingent upon the availability of funds, and satisfaction of the required permits.

CASS COUNTY DRAIN NO. 39 CHANNEL IMPROVEMENTS -APPROVAL OF STATE COST PARTICIPATION GRANT (\$221,871) (SWC Project No. 1089) A request from the Maple River Water Resource District was presented for the State Water Commission's consideration for state cost participation for the Cass County Drain No. 39 channel improvements project. The proposed project is

the reconstruction of approximately one mile of an existing legal assessment drain located west of the city of Davenport, North Dakota within Maple River Township of Cass County, which has experienced significant channel bottom erosion and sliding on the side slopes. The drain will be reconstructed with a stable 12-foot channel bottom width, 4:1 side slopes on the field side and 3:1 on the road side, and a flatter channel profile. The District is expecting to begin project design and right-way-acquisition in the spring, 2016, and complete construction by the end of 2016.

The project engineer's cost estimate is \$550,500, of which \$454,546 is determined eligible as a rural flood control project at 45 percent (\$204,546), and \$49,500 is determined eligible as pre-construction engineering at 35 percent (\$17,325).

Sando that the State Water Commission approve a state cost participation grant as a rural flood control project at 45 percent of the eligible costs, and 35 percent of the eligible costs for pre-construction engineering, not to exceed a total allocation of \$221,871 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Maple River Water Resource District to support the Cass County Drain No. 39 channel improvements project.

It was moved by Commissioner Nodland and seconded by Tom Bodine, representing Commissioner Goehring, that the State Water Commission approve a state cost participation grant as a rural flood control project at 45 percent of the eligible costs, and 35 percent of the eligible costs for pre-construction engineering, not to exceed a total allocation of \$221,871 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Maple River Water Resource District to support the Cass County Drain No. 39 channel improvements project. This approval is contingent upon the availability of funds, and satisfaction of the required permits.

SHEYENNE-MAPLE FLOOD CONTROL DISTRICT NO. 1, WATER QUALITY MITIGATION IMPROVEMENTS -APPROVAL OF STATE COST PARTICIPATION GRANT (\$198,023) (SWC Project No. 2066) A request from the Southeast Cass Water Resource District was presented for the State Water Commission's consideration for state cost participation for the Sheyenne-Maple Flood Control District No. 1, water quality mitigation improvements project. The proposed

project is to improve the water quality within the protected area of the West Fargo diversion when the diversion is in operation.

In recent years, high flows in the Sheyenne River have resulted in the West Fargo diversion being operated for long periods during summer causing the river channel between the closure gates to become stagnant. This causes significant algae growth resulting in water quality concerns for habitat and visual/odor impacts to residents. The proposed project will bypass the existing diversion closure structure through a pipe system running parallel to the structure.

The project engineer's cost estimate is \$365,000, of which \$316,094 is determined eligible for construction of the flood control modifications project at 60 percent (\$189,656), and \$23,906 is determined eligible as pre-construction engineering at 35 percent (\$8,367).

Sando that the State Water Commission approve a state cost participation grant for construction of the modifications to the flood control project at 60 percent of the eligible costs, and 35 percent of the eligible costs for pre-construction engineering, not to exceed a total allocation of \$198,023 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Southeast Cass Water Resource District to support the Sheyenne-Maple Flood Control District No. 1, water quality mitigation improvements project.

It was moved by Commissioner Thompson and seconded by Commissioner Nodland that the State Water Commission approve a state cost participation grant for construction of the modifications to the flood control project at 60 percent of the eligible costs, and 35 percent of the eligible costs for pre-construction engineering, not to exceed a total allocation of \$198,023 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Southeast Cass Water Resource District to support the Sheyenne-Maple Flood Control District No. 1, water quality mitigation improvements project. This approval is contingent upon the availability of funds, and satisfaction of the required permits.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Thompson, Vosper, and Governor Dalrymple voted aye. Commissioner Swenson voted nay. Recorded vote was 8 ayes; 1 nay. Governor Dalrymple announced the motion carried.

FEDERAL 2016 FISCAL YEAR
MR&I WATER SUPPLY FUNDING APPROVAL OF \$11,411,500
(SWC Project Nos. 237-03BRL,
237-03CAS, 237-03CRR, 237-03CSS,
237-03KIN, 237-03-NGL, 237-03RUG,
237-03WAH, 237-03WES, 1736-99)

The proposed federal 2016 Fiscal Year allocation for the Garrison Diversion Unit includes funding of \$15,560,000 for the following projects under the North Dakota Municipal, Rural and Industrial (MR&I) Water Supply program. On July 29, 2015, the State Water Commission adopted a motion approving federal

2016 Fiscal Year MR&I grants not to exceed \$4,148,500 for the cities of Gladstone, Glenburn, Makoti, Mohall, and Sherwood:

## **City of Burlington:**

The city of Burlington is proposing construction of a 300,000-gallon water tower and new water main to address current and future demands of the system. The project engineer's estimated cost is \$2,593,333, which is determined eligible for a 60 percent grant (\$1,556,000). The city currently serves 1,060 people,

The city's project engineer informed the Commission members that the funding request for construction of a 300,000-gallon water tower could be considered in the future when the subdivision water demands require the additional water. The current need is for construction to begin in 2016 on the new 10-inch water main to address current and future demands of the system. The project engineer's cost estimate for the water main is \$1,000,000, which is determined eligible for a 60 percent grant (\$600,000).

# Cass Rural Water Users District, Leonard Service Area:

The Cass Rural Water Users District is proposing the installation of 25 miles of distribution pipeline to serve 35 rural water users and 60 individual service connections within the city of Leonard, North Dakota to address water quality issues with arsenic. The project engineer's cost estimate is \$3,167,000, with costs of \$3,160,000 eligible for a 75 percent grant (\$2,370,000).

## City of Carrington:

The city of Carrington is proposing construction of a new 500,000-gallon elevated water storage tank and installation of a new high service pump building to address current and future demands of the system. The city serves 2,075 people, service areas of the Stutsman Rural Water District, and service areas of the

Greater Ramsey Water District. The water supply is from ground water wells. The project engineer's cost estimate is \$3,185,000, with costs of \$3,166,667 eligible for a 60 percent grant (\$1,900,000).

City of Casselton:

The city of Casselton is proposing construction of a 500,000-gallon water tower to address current and future demands of the system. The city currently serves 2,491 people and purchases water from the Cass Rural Water Users District. The project engineer's cost estimate is \$2,110,000, with costs of \$2,080,000 eligible for a 60 percent grant (\$1,248,000).

City of Kindred:

The city of Kindred is proposing construction of a new 150,000-gallon water storage tank to address the current and future demands of the system. The city serves 722 people with a water supply from the Cass Rural Water Users District. The project engineer's eligible cost estimate is \$1,225,000, which is determined eligible for a 60 grant (\$735,000).

City of New England:

The city of New England is proposing construction of a new 200,000-gallon water storage tank and installation of a new water main to address the current and future demands of the system. The city serves 632 people and the water supply is from the Southwest Pipeline Project. The project engineer's cost estimate is \$2,799,872, with costs of \$2,654,167 eligible for a 60 percent grant (\$1,592,500).

City of Rugby:

The city of Rugby is proposing improvements to the water treatment plant to increase efficiency of the booster pump station, lime handling system, and electrical upgrades. The city serves 2,900 people and the All Seasons Water Users District systems. The project engineer's cost estimate is \$763,000, which is determined eligible for a 60 percent grant (\$458,000).

City of Wahpeton:

The city of Wahpeton is proposing improvements to the water treatment plant to increase efficiency and capacity in the lime handling system and for electrical upgrades. The city serves 7,853 people with their water supply from ground water wells. The project engineer's cost estimate is \$1,600,000, which is determined eligible for a 60 percent grant (\$960,000).

City of Westhope:

The city of Westhope is proposing the installation of a new water main to address the current and future demands of the system. The city serves 427 people with their water supply from ground water wells. The project engineer's cost estimate is \$425,000, which is determined eligible for a 60 percent grant (\$255,000).

Southwest Pipeline Project:

The Southwest Pipeline projects currently being constructed are the supplemental raw water intake, at an estimated cost of \$18,900,000, and the city of Dickinson water treatment plant, at an estimated cost of \$31,700,000. The request is for an MR&I grant of \$1,000,000.

It was the recommendation of Secretary Sando that the State Water Commission approve federal 2016 Fiscal Year grants for the projects listed (\$11,411,500, includes \$293,000 for state administration), not to exceed a total allocation of \$15,560,000 (includes \$4,148,500 previously approved on July 29, 2015).

It was moved by Commissioner Berg and seconded by Commissioner Foley that the State Water Commission approve federal 2016 Fiscal Year Municipal, Rural and Industrial Water Supply (MR&I) program grants not to exceed an allocation of \$11,411,500 for the projects listed (includes \$293,000 for state administration), for a total federal 2016 Fiscal Year MR&I grant of \$15,560,000 (includes \$4.148,500 previously approved on July 29, 2015):

- 1) approve a federal 2016 Fiscal Year MR&I grant of 60 percent of the eligible costs, not to exceed an allocation of \$600,000, to the city of Burlington to support their water main project;
- 2) approve a federal 2016 Fiscal Year MR&I grant of 75 percent of eligible costs, not to exceed an allocation of \$2,370,000, to the Cass Rural Water Users to support the city of Leonard service area project;
- 3) approve a federal 2016 Fiscal Year MR&I grant of 60 percent of the eligible costs, not to exceed an allocation of \$1,900,000, to the city of Carrington to support their water tower project;
- 4) approve a federal 2016 Fiscal Year MR&I grant of 60 percent of the eligible costs, not to exceed an allocation of \$1,248,000, to the city of Casselton to support their water tower project;
- 5) approve a federal 2016 Fiscal Year MR&I grant of 60 percent of the eligible costs, not to exceed an allocation of \$735,000, to the city of Kindred to support their water tower project;

- 6) approve a federal 2016 Fiscal Year MR&I grant of 60 percent of the eligible costs, not to exceed an allocation of \$1,592,500, to the city of New England to support their water tower project;
- 7) approve a federal 2016 Fiscal Year MR&I grant of 60 percent of the eligible costs, not to exceed an allocation of \$458,000, to the city of Rugby to support their water treatment plant improvements project;
- 8) approve a federal 2016 Fiscal Year MR&I grant of 60 percent of the eligible costs, not to exceed an allocation of \$960,000, to the city of Wahpeton to support their water treatment plant improvements project;
- 9) approve a federal 2016 Fiscal Year MR&I grant of 60 percent of the eligible costs, not to exceed an allocation of \$255,000, to the city of Westhope to support their water system improvements project; and
- 10) approve a federal 2016 Fiscal Year MR&I grant not to exceed \$1.000,000 for the Southwest Pipeline Project.

These approvals are contingent upon the availability of funds, satisfaction of the federal Municipal, Rural and Industrial Water Supply program requirements, and are subject to future revisions.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

FARGO MOORHEAD AREA DIVERSION PROJECT REPORT (SWC Project No. 1928) Jason Benson, Cass County Engineer, provided updates on the local, state and federal efforts currently underway on the Fargo Moorhead Area Diversion project,

and provided copies of the testimony presented by Tim Mahoney, Fargo Mayor, and Colonel Daniel Koprowski, Corps of Engineers District Commander, to the Interim Legislative Water Topics Overview Committee on March 8, 2016.

Mr. Benson reported that the Corps of Engineers had announced their new construction starts in February and the Fargo Moorhead Diversion is one of 6 new starts with \$5,000,000 allocated by the Corps for

2016. The Diversion Authority is working with the Corps on the Project Cooperative Agreement which they expect to sign in July. The project is being split into two phases, one phase consists of the Corps constructing the dam for the retention area beginning with the diversion inlet structure. They hope to issue the first construction contract this fall. Under the other phase, the Diversion authority will construct the 30-mile diversion channel through a public private partnership, known as P3. They plan to begin construction in the fall of 2017, with both phases planned to be completed in 2024.

Governor Dalrymple summarized a meeting held with local sponsors on March 8, 2016, at which State Engineer Sando informed Mayor Mahoney and others that they would need a construction permit for the dam and that one of the permit requirements is that the applicant needs to make known how they intend to address property rights. The State Engineer will decide if the property rights have been adequately addressed prior to permitting.

SOUTHWEST PIPELINE PROJECT -PROJECT REPORT (SWC Project No. 1736-99) The Southwest Pipeline Project report was presented, which is detailed in the staff memorandum dated February 22, 2016, and included as **APPENDIX "C"**.

SOUTHWEST PIPELINE PROJECT -AWARD OF CONTRACT 3-2D, SECTION III - ELECTRICAL CONSTRUCTION CONTRACT, TO EDLING ELECTRIC, INC. (\$2,899,500) (SWC Project No. 1736-99) Southwest Pipeline Project Contract 3-2D is for the construction of the 6 million gallons per day (MGD) water treatment plant that is designed to serve the growing needs of the Southwest Pipeline Project served by the water treatment plant located in Dickinson.

As required by North Dakota Century Code §48-01.1-06, the contract was divided into three sections: Section I - General Construction Contract, Section II - Mechanical Construction Contract, and Section III - Electrical Construction Contract. Bids for Contract 3-2D were opened on September 24, 2015. On October 10, 2015, the State Water Commission awarded Section I - General Construction Contract to John T. Jones Construction, Inc., and Section II - Mechanical Construction Contract to Williams Plumbing and Heating, Inc. Section III - Electrical Construction Contract was not awarded because the single bid received was more than 100 percent over the project engineer's estimate.

The scope of work for the Section III - Electrical Construction Contract includes switchgear, panel boards, VFDs, motor starters and conduit and wiring of power for the facility. The contract also includes the

following: furnishing and installing all power, lighting, electrical distribution, emergency power panels, MCC's and associated equipment; furnishing and installing all wiring and field connections to and for electrical items supplied under the General and Mechanical contracts and owner-purchased equipment; furnish and install 1000 KW diesel-powered standby engine generator with support slab and ATS; installation of owner-purchased instrumentation and control equipment; furnish and install lightning protection system and fire alarm; perform short-circuit and protective device coordination study and arc flash hazard analysis; and perform field testing. Two Bid Alternatives were included in the bid form - Bid Alternate 1 for the walk-in enclosure for the standby generator, and Bid Alternate 2 for reducing the use of rigid metallic electrical conduit.

Bids for Contract 3-2D, Section III - Electrical Construction Contract, were opened on January 28, 2016. Three bid packages were received from Edling Electric, Inc., Denny's Electric & Motor Repair, and Muth Electric, Inc.; all three bids were opened. The low bid was received from Edling Electric, Inc., and is a responsive bid in accordance with the Invitation for Construction Bids and Bid documents. It was the recommendation of the project engineer to award Section III - Electrical Construction Contract for the Base Bid plus Bid Alternate 2 to Edling Electric, Inc. in the amount of \$2,899,500.

The contract documents require that the State Water Commission award the contract within 60 calendar days after the bid opening as stipulated in the Invitation for Construction Bids, that date would be March 28, 2016. Because the funding for this contract may be used to qualify for future federal cost sharing through the state's Municipal, Rural and Industrial Water Supply program, the award of the contract requires concurrence from the Garrison Diversion Conservancy District and the Bureau of Reclamation, Dakotas Areas Office. The award of the contract and the Notice to Proceed are dependent on the satisfactory completion and submission of the contract documents by the contractor, and the review/approval by the Commission's legal counsel.

It was the recommendation of Secretary Sando that the State Water Commission authorize the Secretary to the Commission to award Southwest Pipeline Project Contract 3-2D, Section III - Electrical Construction Contract to Edling Electric, Inc., in the amount of \$2,899,500 based on the Base Bid plus Bid Alternate 2.

It was moved by Commissioner Berg and seconded by Commissioner Foley that the State Water Commission authorize the Secretary to the Commission to award Southwest Pipeline Project Contract 3-2D, Section III - Electrical Construction Contract to Edling Electric, Inc., in the amount of \$2,899,500 based on the Base Bid plus

Bid Alternate 2. This approval is contingent upon the satisfactory completion and submission of the contract documents by the contractor, review/approval by the Commission's legal counsel, and concurrence from the Garrison Diversion Conservancy District and the Bureau of Reclamation, Dakota Areas office.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

SOUTHWEST PIPELINE PROJECT AWARD OF CONTRACT 4-1F/4-2C,
PUMP STATION STANDBY ENGINE
GENERATOR UPGRADES, TO EDLING
ELECTRIC, INC. (\$1,847,000)
(SWC Project No. 1736-99)

Southwest Pipeline Project Contract 4-1F/4-2C is for the pump station standby engine generator upgrades.

The scope of work for Contract 4-1F/4-2C generally consists of relocating the existing 1,000 kW Dodge pump station

standby engine generator to the Dickinson finished water pump station, furnishing and installing one new 1,500 kW (nominal) standby engine generator with fuel tank and transfer switch at the Dodge pump station; relocating the existing 1,500 kW Richardton pump station standby engine generator to the intake booster pump station; and furnishing and installing one new 2,000 kW (nominal) standby engine generator with fuel tank at the Richardton pump station. The work also includes extending the existing concrete pad and conduit at the Richardton pump station to accommodate the larger engine generator and installation of a new concrete pad, conduit, and a manual transfer switch at the intake booster pump station. The work includes all incidental work associated with the proper installation and connections of both new generators and the relocated generators including wiring, startup, and testing.

Three bid packages were received for Contract 4-1F/4-2C. Two bid packages were found to be in order and opened on January 28, 2016, these bid packages were received from Edling Electric, Inc., Bismarck, North Dakota, and Denny's Electric & Motor Repair, Inc., Dickinson, North Dakota. The contractor's signature on the bid bond for the third bid from Radtke Services, LLC, of Belfield, North Dakota was not attested and, therefore, the bid was not opened. The low bid was received from Edling Electric, Inc., Bismarck, North Dakota, and is a responsive bid in accordance with the Invitation for Construction Bids and Bid documents. It was the recommendation of the project engineer to award Southwest Pipeline Project Contract 4-1F/4-2C to Edling Electric, Inc., Bismarck, North Dakota, in the amount of \$1,847,000.

The contract documents require that the State Water Commission award the contract within 60 calendar days after the bid opening as stipulated in the Invitation for Construction Bids, that date would be March 28, 2016. The award of the contract and the Notice to Proceed are dependent on the satisfactory completion and submission of the contract documents by the contractor, and the review/approval by the Commission's legal counsel.

It was the recommendation of Secretary Sando that the State Water Commission authorize the Secretary to the Commission to award Southwest Pipeline Project Contract 4-1F/4-2C to Edling Electric, Inc., Bismarck, North Dakota, in the amount of \$1,847,000.

It was moved by Commissioner Vosper and seconded by Commissioner Nodland that the State Water Commission authorize the Secretary to the Commission to award Southwest Pipeline Project Contract 4-1F/4-2C to Edling Electric, Inc., Bismarck, North Dakota, in the amount of \$1,847,000. This approval is contingent upon the satisfactory completion and submission of the contract documents by the contractor, and review/approval by the Commission's legal counsel.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

SOUTHWEST PIPELINE PROJECT -AUTHORIZE SECRETARY TO COMMISSION TO EXECUTE CONTRACTS FOR TRANSFER OF SERVICE AREA (SWC Project No. 1736-99) On December 11, 2015, the State Water Commission authorized the Secretary to the Commission to execute the Southwest Pipeline Project contract for the transfer of service area between the Southwest Water Authority, the State Water Commission, and the city of

Killdeer. This was the first annexation agreement negotiated between a city served by the Southwest Pipeline Project and the Southwest Water Authority.

The Southwest Water Authority is negotiating a transfer of service contract with other communities within the 12-county service area, excluding the city of Dickinson. The Authority is presently in negotiation with the city of Dickinson regarding the terms of their transfer.

It was the recommendation of Secretary Sando that the State Water Commission authorize the Secretary to the Commission to execute the Southwest Pipeline Project contract for transfer of service area with other cities within the service area.

It was moved by Commissioner Swenson and seconded by Commissioner Hanson that the State Water Commission authorize the Secretary to the State Water Commission to execute contracts for the transfer of the service area between the Southwest Water Authority, the State Water Commission, and other cities within the project service area.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

NORTHWEST AREA WATER SUPPLY (NAWS) PROJECT -PROJECT UPDATE (SWC Project No. 237-04)

MOUSE RIVER ENHANCED FLOOD PROTECTION PROJECT -PROJECT REPORT (SWC Project No. 1974)

MOUSE RIVER ENHANCED FLOOD PROTECTION PROJECT -STRUCTURE ACQUISITION, RELOCATION, program which provides flood control OR RING DIKE (STARR) PROGRAM -APPROVAL OF \$7,200,000 (SWC Project No. 1974)

The Northwest Area Water Supply (NAWS) project update was provided, which is detailed in the staff memorandum dated February 17, 2016, and included as APPENDIX "D".

The Mouse River Enhanced Flood Protection project status report was provided, which is detailed in the staff memorandum dated February 22, 2016, and included as APPENDIX "E".

The Mouse River Enhanced Flood Protection project is a basin-wide for all residents, urban and rural, in the Mouse River basin. The need for an acquisition program in these areas was identified in the rural reaches com-

ponent of the preliminary engineering study. In response, the Souris River Joint Board developed the Structure Acquisition, Relocation, or Ring Dike (StARR) program, whereby the rural residents would be given an opportunity to participate in the program. Additional phases of the StARR program will be implemented based on the availability of state and local funds, and will be subject to the State Water Commission's cost share policy requirements.

The Souris River Joint Board held a series of public meetings and has identified 165 potential properties at an estimated total cost of \$24,000,000. A request from the Souris River Joint Board was presented for the State Water Commission's consideration for state cost participation for Phase I of the project (\$12,000,000), to be matched with a combination of sales tax proceeds from the city of Minot and a local contribution from each property owner.

It was the recommendation of Secretary

Sando that the State Water Commission approve a state cost participation grant of 60 percent of the eligible costs, not to exceed an allocation of \$7,200,000 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Souris River Joint Board to support the Structure Acquisition, Relocation, or Ring Dike (StARR) program.

It was moved by Commissioner Foley and seconded by Commissioner Berg that the State Water Commission approve a state cost participation grant of 60 percent of the eligible costs, not to exceed an allocation of \$7,200,000 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Souris River Joint Board to support the Structure Acquisition, Relocation, or Ring Dike (StARR) program. This approval is contingent upon the availability of funds.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

MOUSE RIVER ENHANCED
FLOOD PROTECTION PROJECT ENVIRONMENTAL ENGINEERING APPROVAL OF ADDITIONAL STATE
COST PARTICIPATION GRANT (\$987,000)
(SWC Project No. 1974)

On October 7, 2013, the State Water Commission adopted a motion authorizing the engineering costs for the design of the 4th Avenue Northeast Floodwalls, and the Forest Road and Napa Valley Flood Improvements for the Mouse River Enhanced Flood Protection

project eligible for a cost share participation grant of 60 percent, and approved an allocation not to exceed \$3,830,400 from the funds appropriated to the State Water Commission in the 2013-2015 biennium (H.B. 1020), to the Souris River Joint Board to support the engineering costs.

On March 11, 2015, the State Water Commission adopted a motion approving a 60 percent state cost participation grant not to exceed an allocation of \$3,000,000 from the funds appropriated to the State Water Commission in the 2013-2015 biennium (H.B. 1020), to the Souris River Joint Board to support the environmental engineering efforts for the Mouse River Enhanced Flood Protection project. These approvals total the state cost participation allocation grants to \$6,830,400.

Because of the complexity of the engineering tasks for the Mouse River Enhanced Flood Protection project, Phase I, 2, and 3, involving permitting requirements and the environmental impact statement process, a request from the Souris River Joint Board was presented for the State Water Commission's consideration for a 60 percent state cost participation for an additional allocation of \$987,000 for the engineering costs for Phases 1, 2, and 3 of the Mouse River Enhanced Flood Protection project.

It was the recommendation of Secretary Sando that the State Water Commission approve a 60 percent state cost participation grant not to exceed an additional allocation of \$987,000 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Souris River Joint Board to support the engineering environmental efforts for the Mouse River Enhanced Flood Control project, Phases 1, 2, and 3. The Commission's affirmative approval would increase the total state cost participation grants to \$7,817,000.

It was moved by Commissioner Foley and seconded by Commissioner Thompson that the State Water Commission approve a 60 percent state cost participation grant not to exceed an additional allocation of \$987,000 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020), to the Souris River Joint Board to support the engineering environmental efforts for the Mouse River Enhanced Flood Control project, Phases 1, 2, and 3. This approval is contingent upon the availability of funds, and satisfaction of the required permits.

Commissioners Berg, Tom Bodine representing Commissioner Goehring, Foley, Hanson, Nodland, Swenson, Thompson, Vosper, and Governor Dalrymple voted aye. There were no nay votes. Governor Dalrymple announced the motion unanimously carried.

These approvals increase the total state allocation grants to \$7,817,000 for the Mouse River Enhanced Flood Protection project, Phases 1, 2, and 3, engineering environmental efforts.

DEVILS LAKE HYDROLOGIC AND PROJECT UPDATES (SWC Project No. 416-10)

DEVILS LAKE OUTLETS OPERATIONS -APPROVAL OF 2015 SENATE BILL 2020 APPROPRIATION FOR OPERATIONS OF DEVILS LAKE OUTLETS (\$11,000,000) (SWC Project No. 416-10) The Devils Lake hydrologic report and project updates are detailed in the staff memorandum dated February 24, 2016, and included as **APPENDIX "F"**.

The Sixty-fourth Legislative Assembly of North Dakota included \$11,000,000 in Senate Bill 2020, the State Water Commission's appropriation bill for the 2015-2017 biennium, for the operations of the Devils Lake outlets.

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It was the recommendation of Secretary

Sando that the State Water Commission approve an allocation not to exceed \$11,000,000 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020) for the operations of the Devils Lake outlets.

It was moved by Commissioner Berg and seconded by Commissioner Thompson that the State Water Commission approve an allocation not to exceed \$11,000,000 from the funds appropriated to the State Water Commission in the 2015-2017 biennium (S.B. 2020) for the operations of the Devils Lake outlets. This action is contingent upon the availability of funds.

2016 SPRING FLOOD OUTLOOK (SWC Project No. 1431)

The 2016 spring flood outlook was provided, which is detailed in the staff memorandum dated February 25, 2016. and included as APPENDIX "G".

MISSOURI RIVER REPORT (SWC Project No. 1392)

The Missouri River report was provided, which is detailed in the staff memorandum dated February 18, 2016, and included as APPENDIX "H".

**GARRISON DIVERSION** CONSERVANCY DISTRICT (SWC Project No. 237)

Duane DeKrey, Garrison Diversion Conservancy District general manager, provided a status report on the District's activities relating to the MR&I Water

Supply program federal funding process, the Red River Valley Water Supply project, and operations and maintenance efforts.

There being no further business to come before the State Water Commission, Governor Dalrymple adjourned the March 9, 2016 meeting at 4:50 p.m.

Jack Dalrymple, Governor Chairman, State Water Commission

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

# STATE WATER COMMISSION ALLOCATED PROGRAM EXPENDITURES FOR THE PERIOD ENDED JANUARY 31, 2016 BIENNIUM COMPLETE: 29%

APPENDIX "A"
March 9, 2016

|  | BIENNIUM COMPLETE:                | 29%                            |   | , , ,                               |
|--|-----------------------------------|--------------------------------|---|-------------------------------------|
| PROGRAM  | SALARIES/<br>BENEFITS             | OPERATING<br>EXPENSES          | GRANTS & CONTRACTS                              | 17-Feb-16<br>PROGRAM<br>TOTALS      |
| ADMINISTRATION Allocated Expended Percent                    | 2,729,489<br>787,567<br>29%       | 2,806,129<br>465,504<br>17%    |   | 5,535,618<br>1,253,072<br>23%       |
| e  |                                   |                                | General Fund:<br>Federal Fund:<br>Special Fund: | 0<br>22,108<br>1,230,963            |
| PLANNING AND EDUCATION Allocated Expended Percent            | 1,472,573<br>426,205<br>29%       | 352,990<br>61,581<br>17%       |   | 1,825,563<br>487,786<br>27%         |
|  |                                   |                                | General Fund:<br>Federal Fund:<br>Special Fund: | 0<br>81,825<br>405,961              |
| WATER APPROPRIATION Allocated Expended Percent               | 5,762,691<br>1,568,827<br>27%     | 1,185,300<br>167,627<br>14%    | 1,372,844<br>13,000<br>1%                       | 8,320,835<br>1,749,454<br>21%       |
|  |                                   |                                | General Fund:<br>Federal Fund:<br>Special Fund: | 0<br>13,000<br>1,736,454            |
| WATER DEVELOPMENT<br>Allocated<br>Expended<br>Percent        | 4,713,717<br>1,249,583<br>27%     | 10,742,500<br>3,204,102<br>30% | 1,562,500<br>272,287<br>17%                     | 17,018,717<br>4,725,972<br>28%      |
| *  |                                   |                                | General Fund:<br>Federal Fund:<br>Special Fund: | 0<br>79,113<br>4,646,859            |
| STATEWIDE WATER PROJECTS<br>Allocated<br>Expended<br>Percent | <b>:</b>                          |                                | 959,003,567<br>113,990,911<br>12%               | 959,003,567<br>113,990,911<br>12%   |
|  |                                   |                                | General Fund:<br>Federal Fund:<br>Special Fund: | 0<br>0<br>113,990,911               |
| REGULATORY DIVISION Allocated Expended Percent               | 2,828,565<br>579,681<br>20%       | 2,947,500<br>262,674<br>9%     | 15,000<br>0<br>0%                               | 5,791,065<br>842,356<br>15%         |
|  |                                   |                                | General Fund:<br>Federal Fund:<br>Special Fund: | 0<br>340,041<br>502,315             |
| ATMOSPHERIC RESOURCE Allocated Expended Percent              | 1,107,158<br>301,174<br>27%       | 743,382<br>89,736<br>12%       | 4,885,212<br>541,896<br>11%                     | 6,735,752<br>932,805<br>14%         |
|  |                                   |                                | General Fund:<br>Federal Fund:<br>Special Fund: | 0<br>0<br>932,805                   |
| SOUTHWEST PIPELINE<br>Allocated<br>Expended<br>Percent       | 512,995<br>183,577<br>36%         | 10,461,744<br>3,403,682<br>33% | 97,502,498<br>19,502,125<br>20%                 | 108,477,237<br>23,089,384<br>21%    |
|  |                                   |                                | General Fund:<br>Federal Fund:<br>Special Fund: | 0<br>0<br>23,089,384                |
| NORTHWEST AREA WATER SU<br>Allocated<br>Expended<br>Percent  | PPLY<br>705,632<br>171,037<br>24% | 13,910,277<br>887,565<br>6%    | 31,611,573<br>322,714<br>1%                     | 46,227,482<br>1,381,315<br>3%       |
|  |                                   |                                | General Fund:<br>Federal Fund:<br>Special Fund: | 0<br>0<br>1,381,315                 |
| PROGRAM TOTALS Allocated Expended Percent                    | 19,832,820<br>5,267,650<br>27%    | 43,149,822<br>8,542,472<br>20% | 1,095,953,194<br>134,642,932<br>12%             | 1,158,935,836<br>148,453,055<br>13% |

#### STATE WATER COMMISSION PROJECTS/GRANTS/CONTRACT FUND 2015-2017 BIENNIUM

|                                    |               |                    |                             |                          | Jan-16              |
|------------------------------------|---------------|--------------------|-----------------------------|--------------------------|---------------------|
|                                    | BUDGET        | SWC/SE<br>APPROVED | OBLIGATIONS<br>EXPENDITURES | REMAINING<br>UNOBLIGATED | REMAINING<br>UNPAID |
| EL COR CONTROL                     |               |                    |                             |                          |                     |
| FLOOD CONTROL<br>FARGO             | 228,506,200   | 159,506,200        | 24,868,110                  | 69,000,000               | 134,638,090         |
| GRAFTON                            | 33,925,000    | 8,925,000          | 785,627                     | 25,000,000               | 8,139,373           |
| MOUSE RIVER FLOOD CONTROL          | 46,513,397    | 8,002,347          | 1,864,370                   | 38,511,050               | 6,137,977           |
| VALLEY CITY                        | 32,208,354    | 14,208,354         | 3,752,029                   | 18,000,000               | 10,456,325          |
| LISBON                             | 15,807,952    | 3,807,952          | 3,107,400                   | 12,000,000               | 700,552             |
| FORT RANSOM                        | 225,000       | 225,000            | 0                           | 0                        | 225,000             |
| WILLISTON                          | 7,000,000     |                    |                             | 7,000,000                |                     |
| RENWICK DAM                        | 23,320        | 23,320             | 0                           | 0                        | 23,320              |
| MISSOURI RIVER FLOOD CONTROL       | 4,000,000     | 4,000,000          | 4,000,000                   | 0                        | 0                   |
| FLOODWAY PROPERTY ACQUISITIONS     |               |                    |                             |                          |                     |
| MINOT                              | 23,879,316    | 23,879,316         | 4,450,096                   | 0                        | 19,429,220          |
| WARD COUNTY                        | 6,046,590     | 6,046,590          | 31,243                      | 0                        | 6,015,347           |
| VALLEY CITY                        | 267,403       | 267,403            | 0                           | 0                        | 267,403             |
| BURLEIGH COUNTY                    | 232,649       | 232,649            | 0                           | 0                        | 232,649             |
| SAWYER                             | 184,260       | 184,260            | 0                           | 0                        | 184,260             |
| LISBON                             | 45,485        | 45,485             | 0                           | 0                        | 45,485              |
| BURLINGTON                         | 43,350        | 43,350             | 0                           | 0                        | 43,350              |
| STATE WATER SUPPLY                 |               |                    |                             | _                        | 00 100 701          |
| REGIONAL & LOCAL WATER SYSTEMS     | 122,097,566   | 122,097,566        | 25,976,834                  | 0                        | 96,120,731          |
| FARGO WATER TREATMENT PLANT        | 22,768,775    | 22,768,775         | 6,750,001                   | 0                        | 16,018,774          |
| GRAND FORKS WATER TREATMENT PLANT  | 30,000,000    |                    |                             | 30,000,000               | 04 740 000          |
| SOUTHWEST PIPELINE PROJECT         | 104,832,765   | 104,832,764        | 23,089,384                  | 0                        | 81,743,380          |
| NORTHWEST AREA WATER SUPPLY        | 15,754,482    | 5,754,482          | 657,181                     | 10,000,000               | 5,097,301           |
| WESTERN AREA WATER SUPPY AUTHORITY | 82,201,384    | 82,201,384         | 25,632,896                  | 0                        | 56,568,488          |
| RED RIVER VALLEY WATER SUPPLY      | 12,521,328    | 12,521,328         | 3,032,845                   | 0                        | 9,488,483           |
| CENTRAL NORTH DAKOTA WATER SUPPLY  | 70,070,800    | 70,800             | 69,804                      | 70,000,000               | 997                 |
| UNOBLIGATED STATE WATER SUPPLY     | 34,747,719    |                    |                             | 34,747,719               |                     |
| GENERAL WATER MANAGEMENT           |               |                    |                             |                          |                     |
| OBLIGATED                          | 27,469,438    | 27,469,438         | 9,325,481                   | 0                        | 18,143,957          |
| UNOBLIGATED GENERAL WATER          | 45,456,568    |                    |                             | 45,456,568               |                     |
| DEVILS LAKE                        |               |                    | _                           | _                        | 070.800             |
| OUTLET                             | 870,802       | 870,802            | 0                           | 0                        | 870,802             |
| OUTLET OPERATIONS                  | 18,534,210    | 7,534,210          | 3,419,742                   | 11,000,000               | 4,114,468           |
| DL EAST END OUTLET                 | 2,774,011     | 2,774,011          | 0                           | 0                        | 2,774,011           |
| REVOLVING LOAN FUND                |               |                    |                             | 40 440 500               | 0                   |
| GENERAL WATER PROJECTS             | 11,000,000    | 886,500            | 886,500                     | 10,113,500               |                     |
| WATER SUPPLY                       | 25,000,000    | 10,239,475         | 3,500,000                   | 14,760,525               | 6,739,475           |
|                                    |               |                    |                             |                          |                     |
| TOTALS                             | 1,025,008,125 | 629,418,761        | 145,199,543                 | 395,589,365              | 484,219,218         |

#### STATE WATER COMMISSION PROJECTS/GRANTS/CONTRACT FUND 2015-2017 Biennium

PROGRAM OBLIGATION

| SB 2371  | 1928-01<br>1928-02<br>1928-03<br>1771-01<br>1771-02<br>1974-06   | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | City of Fargo City of Fargo City of Fargo City of Fargo City of Grafton City of Grafton Souris River Joint WRD City of Minot Valley City Valley City Valley City Valley City City of Lisbon City of Lisbon City of Lisbon Fort Ranson Pembina Co. WRD Burleigh Co. WRD Burleigh Co. WRD City of Minot City of Lisbon Co. WRD Co. W | Project  Flood Control: Fargo Flood Control Project Interior Flood Control Project Interior Disaster Relief Fund Grafton Flood Control Project Grafton Flood Control Project Development of 2011 Flood Inundation Maps Mouse River Reconnaissance Study to Meet Fed Guit 4th Ave NE & Napa Valley/Forest Rd Flood Improvem Broadway Pump Station International Joint Commission Study Board Funding of 214 agreement between SRJB & USACE Downtown Infrastructure Improvements Sheyenne River Valley Flood Control Project Sheyenne River Valley Flood Control Project PHII Permanent Flood Protection Project (LOAN) Sheyenne River Valley Flood Control Project Permanent Flood Protection Project Permanent Flood Protection Project Permanent Flood Protection Project Permanent Flood Protection Project Remanent Flood Protection Project Remanent Flood Protection Project Remvick Dam Rehabilitation Missouri River Correctional Center Fox Island Flood Control Funding Update  | 6/23/2009 12/11/2015 12/11/2015 12/11/2015 3/11/2010 12/5/2014 12/18/2015 2/15/2013 10/7/2013 12/11/2015 5/29/2014 12/5/2014 12/5/2014 12/5/2014 12/5/2014 12/5/2014 12/5/2014 12/5/2014 12/5/2014 12/5/2014 12/5/2014 12/5/2014 12/5/2014 12/5/2014 12/5/2014 12/5/2015 5/29/2015 12/5/2014 12/5/2014 12/5/2014 12/5/2014 12/5/2014 12/5/2015 12/5/2014 12/5/2015 12/5/2014 12/5/2015 | Total Approved  99,506,200 30,000,000 30,000,000 7,175,000 1,750,000 5,600 809 4,899,512 1,440,000 302,500 1,256,426 157,296 340,000 9,850,444 3,860,614 92,810 561,702 3,153,440 225,000 23,320 1,200,000 2,800,000 | Total Payments  11,595,442 3,456,750 9,815,918 0785,627 0 1,864,370 0 156,993 0 3,595,036 88,227 414,733 2,604,440 0 1,200,000                        | 87,910,758 26,543,250 20,184,082 7,175,000 964,373 5,600 809 3,026,142 1,440,000 1,256,426 3,800,614 4,583 146,985 146,985 149,900 225,000 23,320   |
|--|--|---|--|--|--|--|---|---|
| SB 2020<br>SB 2020<br>SB 2020<br>SB 20371<br>SB 2371<br>SB 2371<br>SB 2020<br>SB 2371<br>SB 2371<br>SB 2371<br>SB 2371 | 1928-01<br>1928-02<br>1928-03<br>1771-01<br>1771-01<br>1974-06<br>1974-09<br>1974-13<br>1758<br>1974-11<br>1993-01<br>1344-01<br>1504-02<br>1344-02<br>1991-03<br>1344-03<br>1991-03<br>1344-03<br>1991-03   | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | City of Fargo City of Fargo City of Fargo City of Grafton City of Grafton City of Grafton Souris River Joint WRD Couris River Joint WRD City of Minot Valley City Valley City Valley City Valley City City of Lisbon City of Lisbon City of Lisbon Fort Ranson Permina Co. WRD Burleigh Co. WRD Burleigh Co. WRD City of Minot Ci | Fargo Flood Control Project Interior Flood Control Project Interior Disaster Relief Fund Grafton Flood Control Project Grafton Flood Risk Reduction Project Oevelopment of 2011 Flood Inundation Maps Mouse River Reconnaissance Study to Meet Fed Guic 4th Ave NE & Napa Valley/Forest Rd Flood Improvem Broadway Pump Stalion International Joint Commission Study Board Funding of 214 agreement between SRJB & USACE Downlown Infrastructure Improvements Sheyenne River Valley Flood Control Project Sheyenne River Valley Flood Control Project PHII Permanent Flood Protection Project Renwick Dam Rehabilitation Missouri River Correctional Center Fox Island Flood Control Funding Update   | 12/11/2015 12/11/2015 12/11/2015 12/11/2010 12/5/2014 12/18/2015 10/7/2013 12/11/2015 5/29/2014 12/5/2014 9/15/2015 12/5/2015 12/5/2014 6/19/2013 5/29/2014 6/19/2013 5/29/2015 6/19/2013 6/19/2013 6/26/2014 9/21/2015  | 30,000,000 30,000,000 7,175,000 1,750,000 5,600 809 4,890,512 1,440,000 106,500 1,256,426 157,296 340,000 9,850,444 3,860,614 92,810 561,702 3,153,440 225,000 23,320 1,200,000                                      | 3,456,750<br>9,815,918<br>0<br>785,627<br>0<br>0<br>1,864,370<br>0<br>0<br>0<br>156,993<br>0<br>3,595,036<br>0<br>88,227<br>414,733<br>2,504,440<br>0 | 26,543,25(20,184,08) 7,175,000 964,37: 5,600 803; 3,026,14: 1,440,000 302,500 106,500 1,256,42(30) 3,40,000 6,255,40(3,860,61) 4,696(5,40) 24,000 225,000 23,32(20)                             |
| SB 2020<br>SB 2020<br>SB 2371<br>SB 2371<br>SB 2371<br>SB 2371<br>SB 2371<br>SB 2371<br>SB 2371                        | 1928-02<br>1928-03<br>1977-03<br>1977-06<br>1977-06<br>1977-06<br>1977-13<br>1758<br>1977-11<br>1993-01<br>1344-01<br>1504-02<br>1344-02<br>1991-01<br>1991-03<br>1344-03<br>1991-03<br>1344-03<br>1991-05<br>1992-03  | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | City of Fargo City of Fargo City of Fargo City of Fargo City of Grafton City of Grafton City of Grafton Souris River Joint WRD Couris River Joint WRD City of Minot City of Minot Valley City Valley City Valley City Valley City City of Lisbon City of Lisbon City of Lisbon Fort Ranson Permbina Co. WRD Burleigh Co. WRD Burleigh Co. WRD Burleigh Co. WRD   | Fargo Flood Control Project Interior Flood Control Project Interior Disaster Relief Fund Grafton Flood Control Project Grafton Flood Risk Reduction Project Oevelopment of 2011 Flood Inundation Maps Mouse River Reconnaissance Study to Meet Fed Guic 4th Ave NE & Napa Valley/Forest Rd Flood Improvem Broadway Pump Stalion International Joint Commission Study Board Funding of 214 agreement between SRJB & USACE Downlown Infrastructure Improvements Sheyenne River Valley Flood Control Project Sheyenne River Valley Flood Control Project PHII Permanent Flood Protection Project Renwick Dam Rehabilitation Missouri River Correctional Center Fox Island Flood Control Funding Update   | 12/11/2015 12/11/2015 12/11/2015 12/11/2010 12/5/2014 12/18/2015 10/7/2013 12/11/2015 5/29/2014 12/5/2014 9/15/2015 12/5/2015 12/5/2014 6/19/2013 5/29/2014 6/19/2013 5/29/2015 6/19/2013 6/19/2013 6/26/2014 9/21/2015  | 30,000,000 30,000,000 7,175,000 1,750,000 5,600 809 4,890,512 1,440,000 106,500 1,256,426 157,296 340,000 9,850,444 3,860,614 92,810 561,702 3,153,440 225,000 23,320 1,200,000                                      | 3,456,750<br>9,815,918<br>0<br>785,627<br>0<br>0<br>1,864,370<br>0<br>0<br>0<br>156,993<br>0<br>3,595,036<br>0<br>88,227<br>414,733<br>2,504,440<br>0 | 26,543,25<br>20,184,08;<br>7,175,00<br>964,37;<br>5,60<br>3,026,14;<br>1,440,00<br>302,50<br>106,50<br>1,256,42;<br>30<br>340,00<br>6,255,40<br>3,860,61;<br>4,96<br>549,00<br>225,00<br>23,32; |
| SB 2020<br>SB 2020<br>SB 2371<br>SB 2371<br>SB 2371<br>SB 2371<br>SB 2371<br>SB 2371<br>SB 2371                        | 1928-02<br>1928-03<br>1977-03<br>1977-06<br>1977-06<br>1977-06<br>1977-13<br>1758<br>1977-11<br>1993-01<br>1344-01<br>1504-02<br>1344-02<br>1991-01<br>1991-03<br>1344-03<br>1991-03<br>1344-03<br>1991-05<br>1992-03  | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | City of Fargo City of Fargo City of Fargo City of Grafton City of Grafton Souris River Joint WRD City of Minot Valley City Valley City Valley City Valley City City of Lisbon City of Lisbon City of Lisbon Fort Ranson Pembina Co. WRD Burleigh Co. WRD Burleigh Co. WRD City of Minot City | Interior Flood Control Project Interior Disaster Relief Fund Grafton Flood Confrol Project Grafton Flood Risk Reduction Project Development of 2011 Flood Inundation Maps Mouse River Reconnaissance Study to Meet Fed Guir 4th Ave NE & Napa Valley/Forest Rd Flood Improvem Broadway Pump Station International Joint Commission Study Board Funding of 214 agreement between SRJB & USACE Downlown Infrastructure Improvements Sheyenne River Valley Flood Control Project Sheyenne River Valley Flood Control Project PHII Permanent Flood Protection Project (LOAN) Sheyenne River Valley Flood Control Project Permanent Flood Protection - Levee C Project Sheyenne River Valley Flood Control Project Renwick Dam Rehabilitation Missouri River Correctional Center Fox Island Flood Control Funding Update  | 12/11/2015 12/11/2015 12/11/2015 12/11/2010 12/5/2014 12/18/2015 10/7/2013 12/11/2015 5/29/2014 12/5/2014 9/15/2015 12/5/2015 12/5/2014 6/19/2013 5/29/2014 6/19/2013 5/29/2015 6/19/2013 6/19/2013 6/26/2014 9/21/2015  | 30,000,000 30,000,000 7,175,000 1,750,000 5,600 809 4,890,512 1,440,000 106,500 1,256,426 157,296 340,000 9,850,444 3,860,614 92,810 561,702 3,153,440 225,000 23,320 1,200,000                                      | 3,456,750<br>9,815,918<br>0<br>785,627<br>0<br>0<br>1,864,370<br>0<br>0<br>0<br>156,993<br>0<br>3,595,036<br>0<br>88,227<br>414,733<br>2,504,440<br>0 | 26,543,25 20,184,08 7,175,00 964,37 5,60 3,026,14 1,440,00 302,50 1,256,42 30 340,00 6,255,40 3,860,61 4,96 549,00 225,00 23,32   |
| SB 2371<br>SB 2371<br>SB 2371<br>SB 2371<br>SB 2371<br>SB 2371<br>SB 2371  | 1928-03<br>17771-01<br>17771-02<br>1974-06<br>1974-08<br>1974-09<br>1974-13<br>1758<br>1974-11<br>1344-01<br>1344-01<br>1504-01<br>1504-01<br>1504-02<br>1344-03<br>1849-01<br>1991-03<br>1344-03<br>849<br>1992-02<br>1992-03   | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | City of Fargo City of Grafton City of Grafton Souris River Joint WRD Souris River Joint WRD-no agreemen Souris River Joint WRD City of Minot Valley City Valley City Valley City Valley City Valley City City of Lisbon City of Lisbon City of Lisbon Fort Ranson Permbina Co. WRD Burleigh Co. WRD Burleigh Co. WRD  | Interior Disaster Relief Fund Grafton Flood Control Project Grafton Flood Control Project Development of 2011 Flood Inundation Maps Mouse River Reconnaissance Study to Meet Fed Guic 4th Ave NE & Napa Valley/Forest Rd Flood Improvem Broadway Pump Station International Joint Commission Study Board Funding of 214 agreement between SRJB & USACE Downlown Infrastructure Improvements Sheyenne River Valley Flood Control Project Sheyenne River Valley Flood Control Project PHII Permanent Flood Protection Project Remyck Darn Rehabilitation Missouri River Correctional Center Fox Island Flood Control Funding Update   | 3/11/2010<br>12/5/2014<br>12/18/2015<br>2/15/2013<br>10/7/2013<br>10/7/2013<br>12/11/2015<br>5/29/2014<br>12/5/2014<br>12/5/2015<br>5/20/2015<br>5/20/2015<br>12/5/2014<br>6/19/2013<br>5/29/2014<br>3/11/2015<br>6/19/2013<br>6/28/2014<br>9/21/2015  | 7,175,000 1,750,000 1,750,000 5,600 809 4,890,512 1,440,000 302,500 106,500 1,256,426 157,296 340,000 9,850,444 3,860,614 92,810 561,702 3,153,440 225,000 23,320 1,200,000  | 0<br>785,627<br>0<br>0<br>1,864,370<br>0<br>0<br>0<br>0<br>156,993<br>0<br>3,595,036<br>0<br>88,227<br>414,793<br>2,504,440                           | 7,175,00<br>964,37<br>5,60<br>80<br>3,026,14<br>1,440,00<br>302,50<br>106,50<br>1,256,40<br>3,40,00<br>6,255,40<br>3,860,61<br>4,58<br>146,96<br>549,00<br>225,00<br>23,32                      |
| SB 2371 SB 2371 SB 2371 SB 2371 SB 2371 SB 2371  | 1771-02<br>1974-06<br>1974-08<br>1974-09<br>1974-13<br>1758<br>1974-11<br>1993-01<br>1344-01<br>1504-02<br>1344-02<br>1991-03<br>1344-03<br>1991-03<br>1344-03<br>1991-03<br>1344-03<br>1991-03<br>1504-05<br>1992-05<br>1992-05<br>1992-05<br>1993-05<br>1993-05<br>1993-05<br>1993-05<br>1993-05 | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | City of Grafton Souris River Joint WRD Souris River Joint WRD-no agreemen Souris River Joint WRD-no agreemen Souris River Joint WRD City of Minot Valley City Valley City Valley City Valley City City of Lisbon City of Lisbon City of Lisbon City of Lisbon Fort Ranson Pembina Co. WRD Burleigh Co. WRD Burleigh Co. WRD City of Minot City of Minot  | Grafton Flood Risk Reduction Project Development of 2011 Flood Inundation Maps Mouse River Reconnaissance Study to Meet Fed Guir 4th Ave NE & Napa Valley/Forest Rd Flood Improvem Broadway Pump Station International Joint Commission Study Board Funding of 214 agreement between SRJB & USACE Downlown Infrastructure Improvements Sheyenne River Valley Flood Control Project Sheyenne River Valley Flood Control Project PHII Permanent Flood Protection Project (LOAN) Sheyenne River Valley Flood Control Project Permanent Flood Protection Project (LOAN) Sheyenne River Valley Flood Control Project Permanent Flood Protection Project Permanent Flood Protection Project Permanent Flood Protection Project Remainet Flood Protection Project Permanent Flood Protection Project Sheyenne River Valley Flood Control Project Renwick Dam Rehabilitation Missouri River Correctional Center Fox Island Flood Control Funding Update  | 12/5/2014<br>12/18/2015<br>2/15/2013<br>10/7/2013<br>12/11/2015<br>5/29/2014<br>12/5/2014<br>9/15/2015<br>5/20/2015<br>12/5/2014<br>6/19/2013<br>5/29/2014<br>6/19/2013<br>6/19/2013<br>6/26/2014<br>9/21/2015   | 1,750,000<br>5,600<br>809<br>4,890,512<br>1,440,000<br>106,500<br>1,256,426<br>157,296<br>340,000<br>9,850,444<br>3,860,614<br>92,810<br>561,702<br>3,153,440<br>225,000<br>23,320<br>1,200,000                      | 785,627<br>0<br>0<br>1,864,370<br>0<br>0<br>0<br>0<br>156,993<br>0<br>3,595,036<br>0<br>88,227<br>414,733<br>2,504,440<br>0                           | 964,37<br>5,60<br>80<br>3,026,14<br>1,440,00<br>302,50<br>106,50<br>1,256,42<br>3<br>340,00<br>6,255,40<br>3,860,61<br>4,58<br>146,96<br>549,00<br>225,00<br>23,32                              |
| SB 2371<br>SB 2371<br>SB 2020<br>SB 2371<br>SB 2371<br>SB 2371   | 1974-06<br>1974-08<br>1974-09<br>1974-09<br>1974-13<br>1758<br>1974-11<br>1993-01<br>1344-01<br>1504-01<br>1504-02<br>1344-02<br>1991-01<br>1991-03<br>1344-03<br>849<br>1992-02<br>1992-03  | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | Souris River Joint WRD Souris River Joint WRD-no agreemen Souris River Joint WRD-no agreemen Souris River Joint WRD-no agreemen Souris River Joint WRD City of Minot Valley City Valley City Valley City Valley City Valley City City of Lisbon City of Lisbon City of Lisbon Fort Ranson Pembina Co. WRD Burleigh Co. WRD Burleigh Co. WRD  | Development of 2011 Flood Inundation Maps Mouse River Reconnaissance Study to Meet Fed Guid 4th Ave NE & Napa Valley/Forest Rd Flood Improvem Broadway Pump Station International Joint Commission Study Board Funding of 214 agreement between SRJB & USACE Downlown Infrastructure Improvements Sheyenne River Valley Flood Control Project Sheyenne River Valley Flood Control Project PHII Permanent Flood Protection Project Remwick Darn Rehabilitation Missouri River Correctional Center Fox Island Flood Control Funding Update   | 12/18/2015 2/15/2013 10/7/2013 12/11/2015 5/29/2014 12/5/2014 9/15/2015 5/20/2015 12/5/2014 6/19/2013 5/29/2014 3/11/2015 6/19/2013 6/26/2014 9/21/2015  | 5,600<br>809<br>4,890,512<br>1,440,000<br>302,500<br>106,500<br>1,256,426<br>157,296<br>340,000<br>9,850,444<br>3,860,614<br>92,810<br>561,702<br>3,153,440<br>225,000<br>23,320<br>1,200,000                        | 0<br>1,864,370<br>0<br>0<br>0<br>156,993<br>0<br>3,595,036<br>0<br>88,227<br>414,733<br>2,504,440<br>0  | 5,60<br>80<br>3,026,14<br>1,440,00<br>302,50<br>1,06,50<br>1,256,42<br>30<br>340,00<br>6,255,40<br>3,860,61<br>4,58<br>146,96<br>549,00<br>225,00<br>23,32                                      |
| SB 2371<br>SB 2371<br>SB 2020<br>SB 2371<br>SB 2371<br>SB 2371   | 1974-08<br>1974-09<br>1974-13<br>1758<br>1974-13<br>1993-01<br>1344-01<br>1504-02<br>1344-02<br>1991-01<br>1991-01<br>1991-03<br>1344-03<br>1991-03<br>1344-03<br>1992-02<br>1992-03   | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | Souris River Joint WRD Souris River Joint WRD Souris River Joint WRD Souris River Joint WRD Souris River Joint WRD-no agreemen Souris River Joint WRD-no agreemen Souris River Joint WRD City of Minot Valley City Valley City Valley City Valley City Valley City City of Lisbon City of Lisbon City of Lisbon Fort Ranson Permbina Co. WRD Burleigh Co. WRD Burleigh Co. WRD Burleigh Co. WRD  | Mouse River Reconnaissance Study to Meet Fed Guid 4th Ave NE & Napa Valley/Forest Rd Flood Improvem Broadway Pump Stalion International Joint Commission Study Board Funding of 214 agreement between SRJB & USACE Downlown Infrastructure Improvements Sheyenne River Valley Flood Control Project Sheyenne River Valley Flood Control Project Permanent Flood Protection Project Permanent Flood Protection Project (LOAN) Sheyenne River Valley Flood Control Project Permanent Flood Protection Project Permanent Flood Protection Project Permanent Flood Protection Project Permanent Flood Protection Project Remainent Flood Protection Project Remainent Flood Protection Project Permanent Flood Protection Project Remainent Flood Protection Flood Protection Project Remainent Flood Protection Project Remainent Flood Flood Protection | 2/15/2013<br>10/7/2013<br>12/11/2015<br>5/29/2014<br>12/5/2014<br>12/5/2015<br>5/20/2015<br>5/20/2015<br>12/5/2014<br>6/19/2013<br>5/29/2014<br>3/11/2015<br>6/19/2013<br>6/26/2014<br>9/21/2015   | 809 4,890,512 1,440,000 302,500 106,500 1,256,426 157,296 340,000 9,850,444 3,860,614 92,810 561,702 3,153,440 225,000 23,320 1,200,000  | 0<br>1,864,370<br>0<br>0<br>0<br>156,993<br>0<br>3,595,036<br>0<br>88,227<br>414,733<br>2,504,440<br>0  | 80<br>3,026,14<br>1,440,00<br>302,50<br>106,50<br>1,256,42<br>30<br>340,00<br>6,255,40<br>3,860,61<br>4,58<br>146,96<br>549,00<br>225,00<br>23,32   |
| SB 2371<br>SB 2371<br>SB 2020<br>SB 2371<br>SB 2371<br>SB 2371   | 1974-09<br>1974-13<br>1758<br>1974-11<br>1993-01<br>1344-01<br>1504-02<br>1344-02<br>1991-03<br>1344-03<br>1991-03<br>1344-03<br>1991-03<br>1344-03<br>1992-02<br>1992-03  | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | Souris River Joint WRD Souris River Joint WRD Souris River Joint WRD-no agreemen Souris River Joint WRD City of Minot Valley City Valley City Valley City Valley City City of Lisbon City of Lisbon City of Lisbon Fort Ranson Pembina Co. WRD Burleigh Co. WRD Burleigh Co. WRD City of Minot   | Broadway Pump Station International Joint Commission Study Board Funding of 214 agreement between SRJB & USACE Downlown Infrastructure Improvements Sheyenne River Valley Flood Control Project Sheyenne River Valley Flood Control Project PHII Permanent Flood Protection Project Permanent Flood Protection Project (LOAN) Sheyenne River Valley Flood Control Project Permanent Flood Protection Project Permanent Flood Protection Project Permanent Flood Protection Project Remark Flood Brotection Project Remark Flood Control Project Flood Control Funding Update   | 12/11/2015<br>5/29/2014<br>12/5/2014<br>12/5/2015<br>5/20/2015<br>5/20/2015<br>12/5/2014<br>12/5/2014<br>6/19/2013<br>5/29/2014<br>3/11/2015<br>6/19/2013<br>6/26/2014<br>9/21/2015  | 1,440,000<br>302,500<br>106,500<br>1,256,426<br>157,296<br>340,000<br>9,850,444<br>3,860,614<br>92,810<br>561,702<br>3,153,440<br>225,000<br>23,320<br>1,200,000   | 0<br>0<br>0<br>156,993<br>0<br>3,595,036<br>0<br>88,227<br>414,733<br>2,604,440   | 1,440,00<br>302,50<br>105,50<br>1,256,42<br>30<br>340,00<br>6,255,40<br>4,58<br>146,96<br>549,00<br>225,00<br>23,32   |
| SB 2371<br>SB 2020<br>SB 2371<br>SB 2371<br>SB 2371<br>SB 2371   | 1758<br>1974-11<br>1993-01<br>1344-01<br>1344-01<br>1504-02<br>1344-02<br>1991-01<br>1991-01<br>1991-03<br>1344-03<br>849<br>1992-02<br>1992-03  | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | Souris River Joint WRD-no agreemen Souris River Joint WRD City of Minot Valley City Valley City Valley City Valley City Valley City Valley City City of Lisbon City of Lisbon City of Lisbon Fort Ranson Permbina Co. WRD Burleigh Co. WRD Burleigh Co. WRD  | International Joint Commission Study Board Funding of 214 agreement between SRJB & USACE Downlown Infrastructure Improvements Sheyenne River Valley Flood Control Project Sheyenne River Valley Flood Control Project PHII Permanent Flood Protection Project Permanent Flood Protection Project (LOAN) Sheyenne River Valley Flood Control Project Permanent Flood Protection Project Permanent Flood Protection Project Permanent Flood Protection Project Sheyenne River Valley Flood Control Project Sheyenne River Valley Flood Control Project Remwick Darn Rehabilitation Missouri River Correctional Center Fox Island Flood Control Funding Update  | 5/29/2014<br>12/5/2014<br>9/15/2014<br>12/5/2015<br>5/20/2015<br>5/20/2015<br>12/5/2014<br>6/19/2013<br>5/29/2014<br>3/11/2015<br>6/19/2013<br>6/26/2014<br>9/21/2015  | 302,500<br>106,500<br>12,66,426<br>157,296<br>340,000<br>9,850,444<br>3,860,614<br>92,810<br>561,702<br>3,153,440<br>225,000<br>23,320<br>1,200,000  | 0<br>0<br>156,993<br>0<br>3,595,036<br>83,227<br>414,733<br>2,604,440<br>0  | 302,50<br>106,50<br>1,256,42<br>3<br>340,00<br>6,255,40<br>3,860,61<br>4,58<br>146,96<br>549,00<br>225,00<br>23,32  |
| SB 2371<br>SB 2020<br>SB 2371<br>SB 2371<br>SB 2371<br>SB 2371   | 1974-11<br>1993-01<br>1344-01<br>1504-01<br>1504-02<br>1344-02<br>1991-01<br>1991-03<br>1344-03<br>849<br>1992-02<br>1992-03   | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | Souris River Joint WRD City of Minot Valley City Valley City Valley City Valley City Valley City City of Lisbon City of Lisbon City of Lisbon Fort Ranson Permbina Co. WRD Burleigh Co. WRD Burleigh Co. WRD City of Minot   | Funding of 214 agreement between SRJB & USACE Downlown Infrastructure Improvements  Sheyenne River Valley Flood Control Project  Sheyenne River Valley Flood Control Project PHII  Permanent Flood Protection Project  Permanent Flood Protection - Levee C Project  Sheyenne River Valley Flood Control Project  Renwick Dam Rehabilitation  Missouri River Correctional Center  Fox Island Flood Control Funding Update  | 12/5/2014<br>9/15/2014<br>12/5/2015<br>5/20/2015<br>12/5/2014<br>12/5/2014<br>6/19/2013<br>5/29/2014<br>3/11/2015<br>6/19/2013<br>6/26/2014<br>9/21/2015   | 106,500<br>1,256,426<br>157,296<br>340,000<br>9,850,444<br>3,860,614<br>92,810<br>561,702<br>3,153,440<br>225,000<br>23,320<br>1,200,000   | 0<br>0<br>156,993<br>0<br>3,595,036<br>0<br>88,227<br>414,733<br>2,604,440<br>0   | 106,50<br>1,256,42<br>30<br>340,00<br>6,255,40<br>3,860,61<br>4,58<br>146,96<br>549,00<br>225,00<br>23,32   |
| 6B 2371<br>6B 2020<br>6B 2371<br>6B 2371<br>6B 2371  | 1993-01<br>1344-01<br>1344-01<br>1504-01<br>1504-02<br>1991-01<br>1991-03<br>1344-03<br>849<br>1992-02<br>1992-03  | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | City of Minot Valley City Valley City Valley City Valley City Valley City Valley City City of Lisbon City of Lisbon City of Lisbon Fort Ranson Pembina Co. WRD Burleigh Co. WRD Burleigh Co. WRD   | Downlown Infrastructure Improvements Sheyenne River Valley Flood Control Project Sheyenne River Valley Flood Control Project PHII Permanent Flood Protection Project Permanent Flood Protection Project (LOAN) Sheyenne River Valley Flood Control Project Permanent Flood Protection Project Permanent Flood Protection Project Permanent Flood Protection - Levee C Project Sheyenne River Valley Flood Control Project Renwick Darn Rehabilitation Missouri River Correctional Center Fox Island Flood Control Funding Update   | 9/15/2014<br>12/5/2015<br>5/20/2015<br>12/5/2014<br>12/5/2014<br>6/19/2013<br>5/29/2014<br>3/11/2015<br>6/19/2013<br>6/26/2014<br>9/21/2015  | 1,256,426<br>157,296<br>340,000<br>9,850,444<br>3,860,614<br>92,810<br>561,702<br>3,153,440<br>225,000<br>23,320<br>1,200,000  | 156,993<br>0<br>3,595,036<br>0<br>88,227<br>414,733<br>2,604,440<br>0   | 1,256,42<br>30<br>340,00<br>6,255,40<br>3,860,61<br>4,58<br>146,96<br>549,00<br>225,00<br>23,32   |
| SB 2371<br>SB 2020<br>SB 2371<br>SB 2371<br>SB 2371<br>SB 2371   | 1344-01<br>1344<br>1504-01<br>1504-02<br>1344-02<br>1991-01<br>1991-01<br>1991-03<br>1344-03<br>849<br>1992-02<br>1992-03  | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | Valley City Valley City Valley City Valley City Valley City City of Lisbon City of Lisbon City of Lisbon Fort Ranson Permbina Co. WRD Burleigh Co. WRD Burleigh Co. WRD  | Sheyenne River Valley Flood Control Project PHII Permanent Flood Protection Project (LOAN) Sheyenne River Valley Flood Control Project Permanent Flood Protection Project Permanent Flood Protection Project Permanent Flood Protection - Levee C Project Sheyenne River Valley Flood Control Project Renwick Dam Rehabilitation Missouri River Correctional Center Fox Island Flood Control Funding Update  | 5/20/2015<br>12/5/2014<br>12/5/2014<br>6/19/2013<br>5/29/2014<br>3/11/2015<br>6/19/2013<br>6/26/2014<br>9/21/2015  | 340,000<br>9,850,444<br>3,860,614<br>92,810<br>561,702<br>3,153,440<br>225,000<br>23,320<br>1,200,000  | 0<br>3,595,036<br>0<br>88,227<br>414,733<br>2,604,440<br>0  | 340,00<br>6,255,40<br>3,860,61<br>4,58<br>146,96<br>549,00<br>225,00<br>23,32   |
| 6B 2371<br>6B 2020<br>6B 2371<br>6B 2371<br>6B 2371<br>6B 2371   | 1504-01<br>1504-02<br>1344-02<br>1991-01<br>1991-03<br>1344-03<br>849<br>1992-02<br>1992-03  | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | Valley Cify Valley Cify Valley Cify City of Lisbon City of Lisbon City of Lisbon Fort Ranson Pembina Co. WRD Burleigh Co. WRD Burleigh Co. WRD   | Permanent Flood Protection Project Permanent Flood Protection Project (LOAN) Sheyanne River Valley Flood Control Project Permanent Flood Protection Project Permanent Flood Protection - Levee C Project Sheyanne River Valley Flood Control Project Renwick Darm Rehabilitation Missouri River Correctional Center Fox Island Flood Control Funding Update  | 12/5/2014<br>12/5/2014<br>6/19/2013<br>5/29/2014<br>3/11/2015<br>6/19/2013<br>6/26/2014<br>9/21/2015   | 9,850,444<br>3,860,614<br>92,810<br>561,702<br>3,153,440<br>225,000<br>23,320<br>1,200,000   | 3,595,036<br>0<br>88,227<br>414,733<br>2,604,440<br>0   | 6,255,40<br>3,860,61<br>4,58<br>146,96<br>549,00<br>225,00<br>23,32   |
| 6B 2371<br>6B 2020<br>6B 2371<br>6B 2371<br>6B 2371<br>6B 2371   | 1504-02<br>1344-02<br>1991-01<br>1991-01<br>1991-03<br>1344-03<br>849<br>1992-02<br>1992-03<br>1992-03   | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | Valley City City of Lisbon City of Lisbon City of Lisbon Fort Ranson Permbina Co. WRD Burleigh Co. WRD Burleigh Co. WRD City of Minot  | Permanent Flood Protection Project (LOAN) Sheyenne River Valley Flood Control Project Permanent Flood Protection Project Permanent Flood Protection - Levee C Project Sheyenne River Valley Flood Control Project Renwick Darn Rehabilitation Missouri River Correctional Center Fox Island Flood Control Funding Update   | 12/5/2014<br>6/19/2013<br>5/29/2014<br>3/11/2015<br>6/19/2013<br>6/26/2014<br>9/21/2015  | 3,860,614<br>92,810<br>561,702<br>3,153,440<br>225,000<br>23,320<br>1,200,000  | 0<br>88,227<br>414,733<br>2,504,440<br>0<br>0   | 3,860,61<br>4,58<br>146,96<br>549,00<br>225,00<br>23,32   |
| 6B 2371<br>6B 2020<br>6B 2371<br>6B 2371<br>6B 2371<br>6B 2371   | 1344-02<br>1991-03<br>1344-03<br>849<br>1992-02<br>1992-03<br>1993-05<br>1523-05<br>1504-05<br>1992-05<br>1991-05  | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | City of Lisbon City of Lisbon City of Lisbon Fort Ranson Pembina Co. WRD Burleigh Co. WRD Burleigh Co. WRD City of Minot   | Sheyenne River Valley Flood Control Project Permanent Flood Protection Project Permanent Flood Protection - Levee C Project Sheyenne River Valley Flood Control Project Renwick Dam Rehabilitation Missouri River Correctional Center Fox Island Flood Control Funding Update  | 5/29/2014<br>3/11/2015<br>6/19/2013<br>6/26/2014<br>9/21/2015  | 561,702<br>3,153,440<br>225,000<br>23,320<br>1,200,000   | 414,733<br>2,604,440<br>0<br>0  | 146,96<br>549,00<br>225,00<br>23,32   |
| SB 2371<br>SB 2020<br>SB 2371<br>SB 2371<br>SB 2371<br>SB 2371   | 1991-01<br>1991-03<br>1344-03<br>849<br>1992-02<br>1992-03<br>1993-05<br>1523-05<br>1504-05<br>1992-05<br>2000-05<br>1991-05   | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | City of Lisbon Fort Ranson Permbina Co. WRD Burleigh Co. WRD Burleigh Co. WRD City of Minot  | Permanent Flood Protection - Levee C Project<br>Sheyenne River Valley Flood Control Project<br>Renwick Darn Rehabilitation<br>Missouri River Correctional Center<br>Fox Island Flood Control Funding Update  | 3/11/2015<br>6/19/2013<br>6/26/2014<br>9/21/2015   | 3,153,440<br>225,000<br>23,320<br>1,200,000  | 2,604,440<br>0<br>0   | 549,00<br>225,00<br>23,32   |
| 6B 2371<br>6B 2371<br>6B 2371<br>6B 2371   | 1344-03<br>849<br>1992-02<br>1992-03<br>1993-05<br>1523-05<br>1504-05<br>1992-05<br>2000-05<br>1991-05   | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | Fort Ranson Pembina Co. WRD Burleigh Co. WRD Burleigh Co. WRD  | Sheyenne River Valley Flood Control Project<br>Renwick Darn Rehabilitation<br>Missouri River Correctional Center<br>Fox Island Flood Control Funding Update  | 6/19/2013<br>6/26/2014<br>9/21/2015  | 225,000<br>23,320<br>1,200,000   | 0   | 225,00<br>23,32   |
| 6B 2371<br>6B 2371<br>6B 2371<br>6B 2371   | 849<br>1992-02<br>1992-03<br>1993-05<br>1523-05<br>1504-05<br>1992-05<br>2000-05<br>1991-05  | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000        | Pembina Co. WRD Burleigh Co. WRD Burleigh Co. WRD City of Minol  | Renvick Dam Rehabilitation<br>Missouri River Correctional Center<br>Fox Island Flood Control Funding Update  | 6/26/2014<br>9/21/2015   | 23,320<br>1,200,000  |   | 23,32   |
| SB 2371<br>SB 2371<br>SB 2371  | 1992-02<br>1992-03<br>1993-05<br>1523-05<br>1504-05<br>1992-05<br>2000-05<br>1991-05   | 5000<br>5000<br>5000<br>5000<br>5000<br>5000                | Burleigh Co. WRD Burleigh Co. WRD City of Minol  | Fox (sland Flood Control Funding Update  |  |  | 1.200.000   |   |
| SB 2371<br>SB 2371<br>SB 2371  | 1993-05<br>1523-05<br>1504-05<br>1992-05<br>2000-05<br>1991-05   | 5000<br>5000<br>5000<br>5000                                | City of Minot  |  | 9/21/2015  |  |   |   |
| 8 2371<br>8 2371   | 1523-05<br>1504-05<br>1992-05<br>2000-05<br>1991-05  | 5000<br>5000<br>5000  | City of Minot  | Subtotal Flood Control   |  | 2,000,000  | 2,800,000   |   |
| 8 2371<br>8 2371   | 1523-05<br>1504-05<br>1992-05<br>2000-05<br>1991-05  | 5000<br>5000<br>5000  | City of Minot  |  |  | 198,698,173  | 38,377,536  | 160,320,63  |
| SB 2371<br>SB 2371   | 1523-05<br>1504-05<br>1992-05<br>2000-05<br>1991-05  | 5000<br>5000<br>5000  | City of Minot  | Floodway Property Acquisitions:  |  |  |   |   |
| SB 2371<br>SB 2371   | 1523-05<br>1504-05<br>1992-05<br>2000-05<br>1991-05  | 5000<br>5000<br>5000  |  | Minot Phase 2 - Floodway Acquisitions  | 10/7/2013  | 23,879,316   | 4,450,096   | 19,429,22   |
| 8 2371<br>8 2371   | 1504-05<br>1992-05<br>2000-05<br>1991-05   | 5000  | Ward County  | Ward County Phase 1, 2 & 3 - Floodway Acquisitions   | 1/27/2012  | 6,046,590  | 31,243  | 6,015,34  |
|  | 2000-05<br>1991-05   |   |  | Valley City Phase 1 - Floodway Acquisitions<br>Burleigh Co. Phase 1 - Floodway Acquisitions  | 7/23/2013<br>3/7/2012  | 267,403<br>232,649   | 0   | 267,40<br>232,64  |
| 55 2371  | 1991-05  |   | Burleigh Co. WRD<br>City of Sawyer   | Sawyer Phase 1 - Floodway Acquisitions   | 6/13/2012  | 184,260  | ō   | 184,26  |
|  | 1987-05  | 5000  |  | Lisbon - Floodway Acquisition  | 3/11/2015  | 45,485   | 0   | 45,48   |
|  |  | 5000  |  | Mouse River Enhanced Flood Plan Property Acquistio   | 12/29/2015   | 43,350   | 0   | 43,35   |
|  |  |   |  | Subtotal Floodway Property Acquisitions  |  | 30,699,053   | 4,481,339   | 26,217,71   |
|  |  |   |  |  |  |  |   |   |
|  |  |   |  | State Water Supply Grants:   |  |  |   |   |
|  | 2373-35  | 5000  | Grand Forks - Traill RWD   | Grand Forks - Traill County WRD  | 6/13/2012  | 303,715  | 216,761   | 86,95   |
|  | 2373-36  | 5000  | Slutsman Rural RWD   | Stutsman Rural Water System - Phase IIB, III   | 2/27/2013  | 4,443,172  | 3,816,364   | 626,80  |
|  | 2373-38  | 5000  |  | Kidder Co & Carrington Area Expansion  | 7/23/2013<br>5/29/2014   | 991,361<br>2,970,141   | 294,679<br>478,254  | 696,68<br>2,491,88  |
|  | 2373-39  | 5000  | North Central Rural Water Consortium<br>North Central Rural Water Consortium   |  | 3/11/2015  | 5,594,102  | 1,801,537   | 3,792,56  |
|  | 2373-41<br>2050-01   | 5000<br>5000  | Missouri West Water System   | South Mandan   | 3/17/2014  | 205,711  | 148,457   | 57,25   |
|  | 2050-01  | 5000  | Grand Forks Traill RWD   | improvements   | 3/11/2015  | 4,369,058  | 1,683,249   | 2,685,80  |
|  | 2050-03  | 5000  | Northeast Regional WD  | Langdon RWD - ABM Pipeline Phase 1   | 10/7/2013  | 540,526  | 540,437   | 52.27   |
|  | 2050-04  | 5000  | Northeast Regional WD  | Langdon RWD - North Valley Nekoma<br>North Valley WD - ABM Pipeline Phase 1  | 3/11/2015<br>3/11/2015   | 859,341<br>292,958   | 806,962<br>228,524  | 52,37<br>64,43  |
|  | 2050-05<br>2050-06   | 5000<br>5000  | Northeast Regional WD<br>Northeast Regional WD   | North Valley WD - 93 Street  | 3/11/2015  | 937,870  | 641,403   | 296,46  |
|  | 2050-00  | 5000  | Northeast Regional WD  | North Valley WD - Rural Expansion  | 5/29/2014  | 1,481,717  | 451,04B   | 1,030,66  |
|  | 2050-08  | 5000  | Walsh RWD  | Ground Storage   | 10/7/2013  | 322,656  | 169,977   | 152,67  |
|  | 2050-09  | 5000  | City of Park River   | Water Tower  | 3/11/2015<br>10/7/2013   | 633,778<br>1,117,800   | 567,420<br>906,399  | 66,35<br>211,40   |
|  | 2050-10<br>2050-11   | 5000<br>5000  | City of Surrey<br>Cass RWD   | Water Supply Improvements Phase 2 Plant Improvements   | 10/7/2013  | 3,951,363  | 950,723   | 3,000,64  |
|  | 2050-11  | 5000  | City of Mandan   | New Raw Water Intake   | 10/7/2013  | 1,567,676  | 48,441  | 1,519,23  |
|  | 2050-14  | 5000  | City of Mandan   | Water Treatment Plant Improvements   | 10/7/2013  | 267,521  | 225,616   | 41,90   |
|  | 2050-15  | 5000  | City of Washburn   | New Raw Water Intake   | 10/7/2013<br>10/7/2013   | 2,334,250<br>845,000   | 0   | 2,334,25<br>845,00  |
|  | 2050-16<br>2050-17   | 5000<br>5000  | Tri-County RWD<br>Barnes Rural RWD   | Improvements   | 3/11/2015  | 6,512,662  | 2,992,026   | 3,520,63  |
|  | 2050-17  | 5000  | City of Grafton  | Water Treatment Plant Phase 3  | 10/7/2013  | 3,381,148  | 590,587   | 2,790,58  |
|  | 2050-19  | 5000  | City of Grand Forks  | Water Treatment Plant Improvements   | 10/7/2013  | 3,849,151  | 1,471,142   | 2,378,00<br>7,293,90  |
|  | 2050-20  | 5000  | City of Dickinson  | Capital Infrastructure   | 10/6/2015<br>2/27/2014   | 9,803,461<br>1,897,040   | 2,509,557<br>1,055,708  | 7,293,90<br>841,33  |
|  | 2050-21<br>2050-22   | 5000<br>5000  | Watford City<br>City of Williston  | Capital Infrastructure Capital Infrastructure  | 2/27/2014  | 4,119,610  | 279,884   | 3,839.72  |
|  | 2050-22  | 5000  | Greater Ramsey WRD   | SW Nelson County Expansion   | 3/17/2014  | 4,199,547  | 2,058,968   | 2,140,58  |
|  | 2050-24  | 5000  | All Seasons Water District   | System 1 Well Field Expansion  | 9/15/2014  | 292,500  | 0   | 292,50  |
|  | 2050-25  | 5000  | All Seasons Water District   | Bottineau County Extension, Phase I<br>Fargo Water System Regionalization Improvements   | 7/29/2015<br>7/29/2015   | 896,000<br>6,841,750   | 0   | 896,00<br>6,841,75  |
|  | 2050-26  | 5000  | City of Fargo  | Tioga Water Supply Improvement Project   | 7/29/2015  | 2,190,000  | 1,042,711   | 1,147,28  |
|  | 2050-27<br>2050-28   | 5000<br>5000  | City of Tioga<br>City of Mandan  | Water Systems Improvement Project  | 10/6/2015  | 2,290,175  | 0   | 2,290,1   |
|  | 2050-29  | 5000  | City of Minot  | Water Systems Improvement Project  | 10/6/2015  | 3,634,000  | 0   | 3,634,00  |
|  | 2050-30  | 5000  | Watford City   | Water Systems Improvement Project  | 10/6/2015  | 5,435,087  | 0   | 5,435,0<br>3,426,2  |
|  | 2050-31  | 5000  | City of West Fargo   | Water Systems Improvement Project Water Systems Improvement Project  | 10/6/2015<br>10/6/2015   | 3,426,210<br>10,890,472  | 0   | 3,426,2<br>10,890,4   |
|  | 2050-32<br>2050-33   | 5000<br>5000  | City of Williston<br>Stutsman RWD  | Phase V Storage & Pipeline Expansion Project   | 10/6/2015  | 4,170,100  | ō   | 4,170,10  |
|  | 2050-33  | 5000  | North Prairie RWD  | Storage and Water Main   | 10/6/2015  | 3,459,837  | 0   | 3,459,8   |
|  | 2050-35  | 5000  | Southeast Water Users Dist   | System Wide Expansion Feasibility Study  | 10/6/2015  | 35,000   | 0   | 35,00   |
|  | 2050-36  | 5000  | City of Dickinson  | Water Systems Improvement Project<br>Dickinson State Avenue South Water Main   | 10/6/2015<br>12/11/2015  | 1,042,500<br>965,000   | 0   | 1,042,50<br>965,00  |
|  | 2050-37<br>2050-38   | 5000<br>5000  | City of Dickinson  Dakota Rural Water District   | Reservoir C Expansion  | 12/11/2015   | 901,500  | 0   | 901,50  |
|  | 2050-36  | 5000  | Missouri West Water System   | Crown Butte Service Area Expansion Phase II  | 12/11/2015   | 308,000  | 0   | 308,00  |
|  | 2050-41  | 5000  | Northeast Regional WD  | City of Devils Lake Water Supply Project   | 12/11/2015   | 533,750  | 0   | 533,75  |
|  | 2050-42<br>2050-43   | 5000<br>5000  | Walsh RWD<br>All Seasons Water District  | Phase 1 & 2 System Expansion System 4 Connection to System 1   | 12/11/2015<br>12/11/2015   | 2,093,350<br>4,900,000   | 0   | 2,093.35<br>4.900,00  |
|  | 2000-10  | 5005  | Dogogna Traces Bladies   | Subtotal State Water Supply  |  | 122,097,566  | 25,976,834  | 96,120,73   |
|  |  |   |  |  | niaminn's  |  |   |   |
|  |  | 5000  | City of Fargo  | Fargo Water Treatment Plant<br>Southwest Pipeline Project  | 3/17/2014<br>7/1/2013  | 22,768,775<br>104,832,764  | 6,750,001<br>23,089,384   | 16,018,77<br>81,743,38  |
|  | 1984-02  | 8000  | SWPP<br>NAWS   | Northwest Area Water Supply  | 7/1/2013   | 5,754,482  | 657,181   | 5,097,3   |
| -  | 1736-05  | 9000<br>5000  | WAWSA  | WAWSA- (GRANT)   | 10/6/2015  | 12,061,806   | 10,623,045  | 1,438,76  |
|  | 1736-05<br>2374  | 5000  | WAWSA  | WAWSA (GRANT)  | 10/6/2015  | 60,000,000   | 4,870,273   | 55,129,72   |
|  | 1736-05<br>2374<br>1973-02   | 5000  | Bank of North Dakota   | WAWSA - (LOAN)   | 10/6/2015  | 10,139,578   | 10,139,578  | 4   |
|  | 1736-05<br>2374  | 5000  | RRVWSP   | Red River Valley Water Supply - Intake Design Study  | 5/29/2014  | 162,328  | 32,845  | 129,46<br>9,359,00  |
| 3B 2020  | 1736-05<br>2374<br>1973-02<br>1973-05<br>1973-03<br>325-102  |   | Garrison Diversion<br>Central ND Water Supply  | Red River Valley Water Supply Project Black and Veatch investigation   | 7/29/2015<br>1/27/2015   | 12,359,000<br>70,800   | 3,000,000<br>69,804   | 9,359,00  |
|  | 1736-05<br>2374<br>1973-02<br>1973-05<br>1973-03<br>325-102<br>325-104   | 5000  | CALINAL LIP LEGICAL CAPPLE   |  |  |  |   |   |
|  | 1736-05<br>2374<br>1973-02<br>1973-05<br>1973-03<br>325-102  |   |  | Subtotal State Water Supply  |  | 228,149,533  | 59,232,111  | 168,91  |

#### STATE WATER COMMISSION PROJECTS/GRANTS/CONTRACT FUND 2015-2017 Biennium

PROGRAM OBLIGATION

|         |                    |              |                         | PROGRAM OBLIGATION   | Initial    |                                       |                                     | Jan-16                              |
|---------|--------------------|--------------|-------------------------|--|------------|---------------------------------------|-------------------------------------|-------------------------------------|
| Approve | ed SWC             |              |                         |  | Approved   | Total                                 | Total                               | D-1                                 |
| Ву      | No                 | Dept         | Sponsor                 | Project  | Date       | Approved                              | Payments                            | Balance                             |
|         |                    |              |                         | General Water Management   |            |                                       |                                     |                                     |
|         |                    |              |                         | Hydrologic Investigations:   |            | 1,125,267                             |                                     |                                     |
|         | 1395D              | 3000         | U. S. Geological Survey | Eaton Irrigation Project on the Souris River   | 7/13/2012  | 15,300                                | 0                                   | 15,300                              |
|         |                    |              |                         | Hydrologic Investigations Obligations Subtotal<br>Remaining Hydrologic Investigations Authority<br>Hydrologic Investigations Authority Less Payments |            | 15,300<br>1,109,967                   | 0                                   | 15,300                              |
|         |                    |              |                         | General Projects Obligated<br>General Projects Completed<br>Subtotal General Water Management  |            | 22,677,574<br>3,666,597<br>27,469,438 | 5,960,325<br>3,365,156<br>9,325,481 | 16,717,249<br>301,441<br>18,143,957 |
|         |                    |              |                         | Devils Lake Basin Development:   |            |                                       |                                     |                                     |
| SWC     | 416-07             | 5000         | Multiple                | Devils Lake Outlet   | 7/1/2013   | 870,802                               | 0                                   | 870,802                             |
| SWC     | 416-10             | 4700         | Operations              | Devils Lake Outlet Operations  | 7/1/2013   | 7,534,210                             | 3,419,742<br>0                      | 4,114,468<br>2,774,011              |
| SWC     | 416-15             | 5000         | Multiple                | DL East End Outlet   | 7/1/2013   | 2,774,011                             | U                                   | 2,774,011                           |
|         |                    |              |                         | Devils Lake Subtotal   |            | 11,179,023                            | 3,419,742                           | 7,759,282                           |
|         |                    |              |                         | Revolving Loan Fund:   |            |                                       |                                     |                                     |
|         |                    | 1050         | O'A                     | Permanent Flood Protection - Levee C (LOAN)  | 3/11/2015  | 886,500                               | 886,500                             | 0                                   |
|         | 1991-04<br>1973-04 | 1050<br>1050 |                         | WAWSA - (LOAN)   | 10/6/2015  | 10,000,000                            | 3,500,000                           | 6,500,000                           |
|         | 2050-40            | 1050         |                         | Storage & Water Mains  | 12/11/2015 | 239,475                               | 0                                   | 239,475                             |
|         |                    |              |                         | Revolving Loan Fund Subtotal   |            | 11,125,975                            | 4,386,500                           | 6,739,475                           |
| -11     |                    |              |                         | TOTAL  |            | 629,418,761                           | 145,199,543                         | 484,219,218                         |

#### STATE WATER COMMISSION PROJECTS/GRANTS/CONTRACT FUND 2015-2017 Biennium Resources Trust Fund

| CENERAL | PRO IFCT | OBLIGATIONS |
|---------|----------|-------------|
|         |          |             |

|                              |                      |                      |                    |  | GENERAL PROJECT OBLIGATIONS   | Initial                  |                      |                      | Jan-16              |
|------------------------------|----------------------|----------------------|--------------------|--|---|--------------------------|----------------------|----------------------|---------------------|
| Approved                     | SWC                  |                      | Approved           |  |   | Approved                 | Total                | Total                | Balanca             |
| Ву                           | No                   | Dept                 | Biennum            | Sponsor                                  | Project   | Date                     | Approved             | Payments             | Balance             |
|                              |                      |                      |                    | ELL C. JUMPP                             | Warwick Dam Repair Project  | 12/7/2012                | 110,150              | 0                    | 110,150             |
|                              | 240                  | 5000<br>5000         | 2011-13<br>2009-11 | ,  | Three Affiliated Tribes/Fort Berthold Irrigation Study  | 10/26/2010               | 37,500               | Ö                    | 37,500              |
|                              | 281<br>322           | 5000                 | 2009-11            |  | ND Water: A Century of Challenge  | 2/22/2010                | 36,800               | 0                    | 36,800              |
|                              | 346                  | 5000                 | 2011-13            | Williams County WRD                      | Epping Dam Evaluation Project   | 2/27/2013                | 66,200               | 0                    | 66,200              |
|                              | 346                  | 5000                 | 2013-15            |  | Design Engineering for Epping Dam Safety Repair   | 3/30/2015                | 21,333               | 12,874               | 8,459               |
|                              | 347                  | 5000                 | 2009-11            | City of Velva                            | City of Velva's Flood Control Levee System Certification  | 3/28/2011                | 102,000              | 69,503               | 32,497              |
|                              | 399                  | 5000                 | 2013-15            | Barnes Co WRD                            | Kathryn Dam Feasibility Study   | 9/19/2014                | 21,250               | 0                    | 21,250              |
|                              | 568                  | 5000                 | 2013-15            | Southeast Cass WRD                       | Sheyenne River Reaches Snagging & Clearing Projec   | 12/5/2014                | 94,238               | 0                    | 94,238              |
|                              | 568                  | 5000                 | 2013-15            | Barnes Co WRD                            | Sheyenee River Snagging & Clearing Project  | 4/17/2015                | 49,500               | 0                    | 49,500              |
| SWC                          | 568                  | 5000                 | 2015-17            | Southeast Cass WRD                       | Sheyenne River Snagging & Clearing Reaches I, II, &   | 12/11/2015               | 294,000              | 0                    | 294,000             |
| SE                           | 571                  | 5000                 | 2013-15            | Oak Creek WRD                            | Oak Creek Snagging & Clearing Project   | 3/30/2015                | 3,672                | 2,565<br>0           | 1,107<br>125,396    |
| SWC                          | 620                  | 5000                 | 2007-09            | Lower Heart WRD                          | Mandan Flood Control Protective Works (Levee)   | 9/29/2008                | 125,396<br>44,280    | 0                    | 44,280              |
|                              | 645                  | 5000                 | 2009-11            | City of Fargo                            | Hickson Dam Recreation Retrofit Project   | 10/26/2010<br>10/26/2010 | 184,950              | 0                    | 184,950             |
|                              | 646                  | 5000                 | 2009-11            | City of Fargo                            | Christine Dam Recreation Retrofit Project Park River Snagging & Clearing                            | 1/12/2016                | 29,264               | 0                    | 29,264              |
|                              | 662                  | 5000                 | 2015-17            | Walsh Co. WRD<br>Maple River WRD         | Upper Swan Creek Channel Improvement Project  | 10/6/2015                | 171,763              | 0                    | 171,763             |
|                              | 710                  | 5000                 | 2015-17<br>2011-13 | Rush River WRD                           | Rush River WRD Berlin's Township Improvement Dist   |                          | 101,317              | 0                    | 101,317             |
|                              | 829                  | 5000<br>5000         | 2013-15            | Maple River WRD                          | Garsteig Dam Repair Project   | 1/26/2015                | 40,163               | 0                    | 40,163              |
|                              | 841<br>841           | 5000                 | 2015-13            | Maple River WRD                          | Swan Buffalo Detention Dam #5(Garsteig Dam)   | 12/11/2015               | 125,473              | 0                    | 125,473             |
|                              | 841                  | 5000                 | 2015-17            | Maple River WRD                          | Swan Buffalo Detention Dam #12(Absaraka Dam)  | 12/11/2015               | 109,032              | 0                    | 109,032             |
|                              | 848                  | 5000                 | 2015-17            | Sargent Co WRD                           | Tewaukon WS-T-1-A (Brummond-Lubke) Dam EAP  | 12/18/2015               | 20,000               | 0                    | 20,000              |
|                              | 848                  | 5000                 | 2015-17            |  | Tewaukon WS-T-7 (Nelson) Dam EAP  | 12/18/2015               | 20,000               | 0                    | 20,000              |
|                              | 849                  | 5000                 | 2015-17            | Pembina Co. WRD                          | Renwick Dam Gate Repair   | 9/4/2015                 | 53,700               | 34,528               | 19,172              |
|                              | 849                  | 5000                 | 2015-17            | Pembina Co. WRD                          | Renwick Dam Emergency Action Plan   | 9/29/2015                | 63,680               | 0                    | 63,680              |
|                              | 980                  | 5000                 |                    | Cass Co. Joint WRD                       | Rush River Watershed Detention Study  | 1/7/2016                 | 154,000              | 0                    | 154,000             |
|                              | 980                  | 5000                 |                    | Cass Co. Joint WRD                       | Swan Creek Watershed Detention Study PHII   | 3/11/2015                | 120,750              | 0                    | 120,750             |
|                              | 980                  | 5000                 | 2015-17            |  | Upper Maple River Watershed Detention Study   | 1/11/2016<br>3/11/2015   | 154,000<br>106,989   | 31,476               | 154,000<br>75,513   |
|                              | 1064                 | 5000                 |                    | Rush River WRD                           | Cass County Drain No. 2 Channel Improvements Proj   | 12/11/2015               | 798,562              | 31,470               | 798,562             |
|                              | 1101                 | 5000                 | 2011-13            | Dickey Co. WRD                           | Yorktown-Maple Drainage Improvement Dist No. 3  | 9/21/2011                | 500,000              | 0                    | 500,000             |
|                              | 1101                 | 5000                 | 2011-13            | Dickey-Sargent Co WRD                    | Riverdale Township Improvement District #2 - Dickey Drain #4 Reconstruction Project                 | 6/19/2013                | 2,673                | 0                    | 2,673               |
|                              | 1135                 | 5000                 |                    | Pembina Co. WRD                          | Drain 11 Outlet Extension Cost Overrun Project  | 7/7/2015                 | 5,088                | 0                    | 5,088               |
|                              | 1140                 | 5000                 | 2015-17            | Pembina Co. WRD<br>Pembina Co. WRD       | Drain 55 Improvement Reconstruction   | 3/28/2011                | 13,846               | 0                    | 13,846              |
|                              | 1161                 | 5000<br>5000         | 2009-11<br>2013-15 | Richland Co. WRD                         | Drain #5 (27) Reconstruction Project  | 3/30/2015                | 13,543               | 0                    | 13,543              |
|                              | 1179                 | 5000                 | 2013-15            | Tri-County WRD                           | Tri-County Drain Reconstruction Project   | 3/11/2015                | 911,881              | .0                   | 911,881             |
| -                            | 1217<br>1219         | 5000                 | 2013-13            | Sargent Co WRD                           | City of Forman Floodwater Outlet  | 9/21/2011                | 31,472               | 0                    | 31,472              |
|                              | 1219                 | 5000                 | 2013-15            | -  | Drain No. 8 Channel Improvement Preliminary Engine  | 5/7/2015                 | 6,650                | 0                    | 6,650               |
| _                            | 1227                 | 5000                 | 2011-13            | Traill Co. WRD                           | Mergenthal Drain No. 5 Reconstruction   | 9/15/2014                | 18,502               | 6,277                | 12,225              |
|                              | 1242                 | 5000                 | 2013-15            |  | Rust Drain No. 24 Project   | 12/13/2013               | 25,152               | 3,002                | 22,150              |
|                              | 1264                 | 5000                 | 2013-15            | Bames Co WRD                             | Little Dam Repurposing Feasibility Study  | 6/17/2015                | 16,100               | 0                    | 16,100              |
|                              | 1270                 | 5000                 | 2013-15            | Burleigh Co. WRD                         | Apple Creek Industrial Park Levee Feasibility Study   | 10/7/2013                | 65,180               | 0                    | 65,180              |
| SE                           | 1270                 | 5000                 | 2015-17            | City of Wilton                           | Wilton Pond Dredging Recreation Project   | 12/29/2015               | 35,707               | 0                    | 35,707              |
|                              | 1273                 | 5000                 | 2015-17            | City of Oakes                            | James River Bank Stabilization  | 12/11/2015               | 262,500              | 0                    | 262,500             |
| SWC                          | 1285                 | 5000                 |                    | LaMoure County                           | LaMoure Co Memorial Park Streambank Restoration   | 9/15/2014                | 91,042               | 0                    | 91,042              |
| SE                           | 1287                 | 5000                 |                    | McHenry Co. WRD                          | Souris River Snagging & Clearing Project  | 2/3/2015                 | 15,000               | 0                    | 15,000<br>12,514    |
| SE                           | 1289                 | 5000                 | 2011-13            |  | •   | 9/302015                 | 12,514<br>115,436    | 0                    | 115,436             |
| SWC                          | 1294                 | 5000                 | 2013-15            | Nelson Co. Park Board                    | Stump Lake Park Bank Stabilization Project  | 3/11/2015<br>10/17/2013  | 45,226               | 38,500               | 6,726               |
| SE                           | 1296                 | 5000                 | 2013-15            | Pembina Co. WRD                          | Bathgate-Hamilton & Carlisle Watershed Study City of Lidgerwood Engineering & Feasibility Study for | 2/4/2011                 | 15,850               | 0                    | 15,850              |
| SE                           | 1301                 | 5000                 | 2009-11            | City of Lidgerwood                       | City of Wahpeton Water Reuse Feasibility Study/Richl  | 9/8/2011                 | 2,500                | 0                    | 2,500               |
| SE                           | 1301                 | 5000                 | 2011-13            |  | Gwinner Dam Improvement Feasibility Study Program   | 4/17/2015                | 42,844               | 0                    | 42,844              |
| SE                           | 1303                 | 5000                 | 2013-15<br>2013-15 | Sargent Co WRD Sargent Co WRD            | Upper Wild Rice Watershed Study   | 6/24/2015                | 73,500               | 0                    | 73,500              |
| SE                           | 1303                 | 5000<br>5000         | 2013-15            |  | Hurdsfield Area Drain Preliminary Engineering Project   | 6/11/2015                | 35,000               | 0                    | 35,000              |
| SE                           | 1314                 | 5000                 | 2015-13            |  | Oak Creek Lateral E Reconstruction  | 12/29/2015               | 20,173               | 0                    | 20,173              |
| SE<br>SE                     | 1314<br>1328         | 5000                 | 2015-17            |  | Drain No. 23 Channel Improv Preliminary Engineering   | 9/30/2015                | 5,775                | 0                    | 5,775               |
| SE<br>SWC                    | 1389                 | 5000                 | 2013-15            | Bank of ND                               | BND AgPace Program  | 12/13/2013               | 180,316              | 24,737               | 155,57              |
| SE                           | 1396-01              | 5000                 | 2013-15            | Trout, Raley, Montano, Witwe             | Missouri River Recovery Program   | 11/17/2015               | 75,000               | 8,337                | 66,66               |
| SWC                          | 1401                 | 5000                 | 2015-17            | Pembina Co. WRD                          | International Boundary Roadway Dike Pembina   | 12/11/2015               | 386,032              | 26,155               | 359,87              |
| 5E                           | 1403                 | 5000                 | 2015-17            | ND Water Resources Resear                | (NDWRRI) Student Fellowship Program   | 12/23/2015               | 18,850               | 0                    | 18,850              |
| SWC                          | 1418                 | 5000                 | 2013-15            | City of Bisbee                           | Big Coulee Dam Feasibility Study  | 5/29/2014                | 10,963               | 0                    | 10,96               |
| SWC                          | 1418                 | 5000                 | 2013-15            | City of Bisbee                           | Design & Repair of Big Coulee Dam   | 3/11/2015                | 862,218              | 0                    | 862,21              |
| SWC                          | 1438                 | 5000                 | 2011-13            | Cavalier County WRD                      | Mulberry Creek Phase IV Reconstruction Project  | 6/19/2013                | 102,019              | 0                    | 102,01              |
| SWC                          | 1486                 | 5000                 | 2015-17            | Griggs Co. WRD                           | Thompson Bridge Outlet No. 4 Project  | 10/6/2015                | 621,661              | 0                    | 621,66              |
| SWC                          | 1523                 | 5000                 | 2015-17            |  | Robinwood Bank Stabilization Project  | 10/6/2015                | 256,449              | _                    | 256,44<br>92,67     |
| SWC                          | 1523                 | 5000                 |                    | Ward Co                                  | Flood Control County Road 18  | 5/29/2015                | 325,208              | 232,538<br>1,004,376 | 96,35               |
| SWC                          | 1554                 | 5000                 |                    | McLean Co. WRD                           | City of Underwood Floodwater Outlet Project   | 12/13/2013<br>9/15/2014  | 1,100,727<br>99,923  | 42,152               | 57,77               |
| SWC                          | 1613                 | 5000                 | 2013-15            | North Cass Co. WRD                       | Cass County Drain No. 55 Channel Improvements Pro   | 8/20/2014                | 4,560                | 72,132               | 4,560               |
| SWC                          | 1625                 | 5000                 | 2013-15            |  | (OHWM) Ordinary High Water Mark Delineations<br>Red River Basin Non-NRCS Rural/Farmstead Ring Di    | 6/23/2009                | 177,864              | 0                    | 177,86              |
| SWC                          | 1638                 | 5000                 | 2009-11            |  | (USGS) Maintenance of gaging station on Missouri Ri   | 9/25/2013                | 8,710                | ő                    | 8,71                |
| SE                           | 1640                 | 5000                 |                    | U.S. Geological Survey                   | Drain #7 Channel Improvements Study   | 1/17/2016                | 6,214                | 0                    | 6,21                |
| SE                           | 1650                 | 5000                 | 2015-17            | •  | Goose River Snagging & Clearing   | 12/18/2015               | 47,500               | ő                    | 47,50               |
| SĘ                           | 1667                 | 5000                 | 2015-17            | Traill Co. WRD                           | r Red River Joint WRD Watershed Feasibility Study - Pl  | 9/21/2011                | 60,000               | Ō                    | 60,00               |
| SWC                          | 1705                 | 5000                 | 2011-13            | Ped Piver Joint Water Percy              | Red River Basin Distributed Plan Study  | 12/7/2012                | 560,000              | 0                    | 560,000             |
| SWC                          | 1705                 | 5000                 | 2011-13            |  | Sheyenne River Snagging & Clearing - Fort Ransom F  | 6/11/2015                | 6,350                | 0                    | 6,350               |
| SE                           | 1815                 | 5000                 | 2013-15            | Ransom Co. WRD                           | Wild Rice River Snagging & Clearing   | 10/27/2015               | 57,000               | ō                    | 57,00               |
| SE                           | 1842                 | 5000                 | 2013-15            | Southeast Cass WRD                       | NPS Pollution Project   | 7/29/2015                | 200,000              | Ō                    | 200,00              |
| SWC                          | 1859                 | 5000                 | 2015-17            | •  | Drain No. 8 Channel Improvement Preliminary Engine  | 9/29/2015                | 17,500               | Ō                    | 17,50               |
| SE                           | 1891                 | 5000                 | 2015-17            | Steele Co WRD                            | Square Butte Dam No. 6/(Harmon Lake) Recreation F   | 3/23/2009                | 731,002              | ō                    | 731,00              |
| SWC                          | 1921                 | 5000                 | 2007-09            | Morton Co. WRD                           | Puppy Dog Coulee Flood Control Diversion Ditch Con  | 8/18/2009                | 796,976              | 0                    | 796,976             |
|                              | 1960                 | 5000                 | 2009-11            | Ward Co. WRD                             | Beaver Bay Embankment Feasibility Study   | 8/10/2009                | 18,078               | 0                    | 18,078              |
|                              |                      |                      | 2009-11            | Emmons County WRD                        | Dearer Day Emparitment reasibility olday  | 0.10/2000                |                      | -                    |                     |
| HB 2305                      |                      | 5000                 |                    | Carriage Diversion                       | McClucky Canal Mile Marker 10 & 40 Impation Project   | 3/17/2014                | 258 321              | 204.707              | 51.614              |
| SWC<br>HB 2305<br>SWC<br>SWC | 1963<br>1968<br>1977 | 5000<br>5000<br>5000 | 2013-15            | Garrison Diversion Dickey-Sargent Co WRD | McClusky Canal Mile Marker 10 & 49 Imigation Project<br>Jackson Township Improvement Dist. #1       | 3/17/2014<br>5/20/2015   | 256,321<br>1,601,325 | 204,707<br>148,246   | 51,614<br>1,453,079 |

## STATE WATER COMMISSION PROJECTS/GRANTS/CONTRACT FUND 2015-2017 Biennium Resources Trust Fund

GENERAL PROJECT OBLIGATIONS

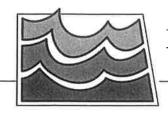
| 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | Approved Biennum 2011-13 2011-13 2011-13 2011-13 2013-15 2011-13 2015-17 2013-15 2011-13 2011-13           | Sponsor  Richland & Sargent Joint WRI I City of Harwood Barnes Co WRD Mercer Co. WRD City of Lisbon City of Lisbon Burleigh Co. WRD USGS City of Mapleton  | Project  Richland & Sargent WRD RS Legal Drain No. 1 Exten City of Harwood Engineering Feasibility Study Hobart Lake Outlet Project Lake Shore Estates High Flow Diverstion Project Sheyenne River Snagging & Clearing Project Sheyenne Riverbank Stabilization Project Burnt Creek Flood Restoration Project USGS Web-Based Mouse River Information Page Recertification of Flood Control Levee System Project  | Approved Date  7/23/2015 12/9/2011 3/7/2012 3/7/2012 2/12/2013 9/15/2014 7/29/2015 1/19/2016  | Total<br>Approved<br>245,250<br>62,500<br>266,100<br>43,821<br>5,000<br>163,720<br>179,890   | Total Payments  145,910 0 0 0 114,152 0  | 99,340<br>62,500<br>266,100<br>43,821<br>5,000<br>49,568<br>179,890 |
|---|--|--|--|---|--|--|---|
| 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | Biennum 2011-13 2011-13 2011-13 2011-13 2011-13 2011-13 2015-17 2013-15 2011-13                            | Sponsor  Richland & Sargent Joint WRLI City of Harwood Barnes Co WRD Mercer Co. WRD City of Lisbon City of Lisbon Burleigh Co. WRD USGS City of Mapleton   | Richland & Sargent WRD RS Legal Drain No. 1 Exten<br>City of Harwood Engineering Feasibility Study<br>Hobart Lake Outlet Project<br>Lake Shore Estates High Flow Diverstion Project<br>Sheyenne River Snagging & Clearing Project<br>Sheyenne Riverbank Stabilization Project<br>Burnt Creek Flood Restoration Project<br>USGS Web-Based Mouse River Information Page  | 7/23/2015<br>12/9/2011<br>3/7/2012<br>3/7/2012<br>2/12/2013<br>9/15/2014<br>7/29/2015   | 245,250<br>62,500<br>266,100<br>43,821<br>5,000<br>163,720<br>179,890  | 145,910<br>0<br>0<br>0<br>0<br>0<br>114,152  | 99,340<br>62,500<br>266,100<br>43,821<br>5,000<br>49,568            |
| 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | 2011-13<br>2011-13<br>2011-13<br>2011-13<br>2011-13<br>2013-15<br>2011-13<br>2015-17<br>2013-15<br>2011-13 | Richland & Sargent Joint WRI I City of Harwood Barnes Co WRD Mercer Co. WRD City of Lisbon City of Lisbon Burleigh Co. WRD USGS City of Mapleton   | Richland & Sargent WRD RS Legal Drain No. 1 Exten<br>City of Harwood Engineering Feasibility Study<br>Hobart Lake Outlet Project<br>Lake Shore Estates High Flow Diverstion Project<br>Sheyenne River Snagging & Clearing Project<br>Sheyenne Riverbank Stabilization Project<br>Burnt Creek Flood Restoration Project<br>USGS Web-Based Mouse River Information Page  | 12/9/2011<br>3/7/2012<br>3/7/2012<br>2/12/2013<br>9/15/2014<br>7/29/2015  | 62,500<br>266,100<br>43,821<br>5,000<br>163,720<br>179,890   | 0<br>0<br>0<br>0<br>114,152  | 62,500<br>266,100<br>43,821<br>5,000<br>49,568                      |
| 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | 2011-13<br>2011-13<br>2011-13<br>2011-13<br>2013-15<br>2011-13<br>2015-17<br>2013-15<br>2011-13            | City of Harwood Barnes Co WRD Mercer Co. WRD City of Lisbon City of Lisbon Burleigh Co. WRD USGS City of Mapleton  | City of Harwood Engineering Feasibility Study Hobart Lake Outlet Project Lake Shore Estates High Flow Diverstion Project Sheyenne River Snagging & Clearing Project Sheyenne Riverbank Stabilization Project Burnt Creek Flood Restoration Project USGS Web-Based Mouse River Information Page   | 3/7/2012<br>3/7/2012<br>2/12/2013<br>9/15/2014<br>7/29/2015   | 266,100<br>43,821<br>5,000<br>163,720<br>179,890   | 0<br>0<br>0<br>0<br>114,152  | 266,100<br>43,821<br>5,000<br>49,568                                |
| 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500 | 2011-13<br>2011-13<br>2011-13<br>2013-15<br>2011-13<br>2015-17<br>2013-15<br>2011-13                       | Barnes Co WRD Mercer Co. WRD City of Lisbon City of Lisbon Burleigh Co. WRD USGS City of Mapleton  | Hobart Lake Outlet Project Lake Shore Estates High Flow Diverstion Project Sheyenne River Snagging & Clearing Project Sheyenne Riverbank Stabilization Project Burnt Creek Flood Restoration Project USGS Web-Based Mouse River Information Page   | 3/7/2012<br>2/12/2013<br>9/15/2014<br>7/29/2015   | 43,821<br>5,000<br>163,720<br>179,890  | 0<br>0<br>114,152  | 43,821<br>5,000<br>49,568   |
| 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000        | 2011-13<br>2011-13<br>2013-15<br>2011-13<br>2015-17<br>2013-15<br>2011-13                                  | Mercer Co. WRD City of Lisbon City of Lisbon Burleigh Co. WRD USGS City of Mapleton  | Lake Shore Estates High Flow Diverstion Project<br>Sheyenne River Snagging & Clearing Project<br>Sheyenne Riverbank Stabilization Project<br>Burnt Creek Flood Restoration Project<br>USGS Web-Based Mouse River Information Page  | 2/12/2013<br>9/15/2014<br>7/29/2015   | 5,000<br>163,720<br>179,890  | 0<br>114,152   | 5,000<br>49,568   |
| 5000<br>5000<br>5000<br>5000<br>5000<br>5000                | 2011-13<br>2013-15<br>2011-13<br>2015-17<br>2013-15<br>2011-13   | City of Lisbon City of Lisbon Burleigh Co. WRD USGS City of Mapleton   | Sheyenne River Snagging & Clearing Project<br>Sheyenne Riverbank Stabilization Project<br>Burnt Creek Flood Restoration Project<br>USGS Web-Based Mouse River Information Page   | 2/12/2013<br>9/15/2014<br>7/29/2015   | 5,000<br>163,720<br>179,890  | 114,152  | 49,568  |
| 5000<br>5000<br>5000<br>5000<br>5000<br>5000                | 2013-15<br>2011-13<br>2015-17<br>2013-15<br>2011-13  | City of Lisbon Burleigh Co. WRD USGS City of Mapleton  | Sheyenne Riverbank Stabilization Project<br>Burnt Creek Flood Restoration Project<br>USGS Web-Based Mouse River Information Page   | 7/29/2015   | 179,890  |  |   |
| 5000<br>5000<br>5000<br>5000<br>5000                        | 2011-13<br>2015-17<br>2013-15<br>2011-13   | Burleigh Co. WRD USGS City of Mapleton   | Burnt Creek Flood Restoration Project<br>USGS Web-Based Mouse River Information Page   |   |  | 0  | 170 POA   |
| 5000<br>5000<br>5000<br>5000                                | 2015-17<br>2013-15<br>2011-13  | USGS<br>City of Mapleton   | USGS Web-Based Mouse River Information Page  | 1/19/2016   |  |  | 119,090   |
| 5000<br>5000<br>5000  | 2013-15<br>2011-13   | City of Mapleton   |  |   | 24,700   | 0  | 24,700  |
| 5000<br>5000  | 2011-13  | Only of mapions.   |  | 3/17/2014   | 101,100  | 0  | 101,100   |
| 5000  |  |  | Sheyenee River Snagging & Clearing Project   | 12/7/2012   | 75,000   | 0  | 75,000  |
|   | 2011-13  | ,,   | Drain #73 Project  | 6/19/2013   | 350,400  | 0  | 350,400   |
| 5000  |  | 1 Ollibria Governo   | Haas Coulee Drain Project  | 9/15/2014   | 500,000  | 181,269  | 318,731   |
|   | 2013-15  | Dottanoda ov. Tirito   | District's Drain 78 Outlet Extension Project   | 12/13/2013  | 287,778  | 270.149  | 17,629  |
| 5000  | 2013-15  | 1 Olliphia Gal Livia   |  |   |  |  | 10,425  |
|   |  |  |  |   |  | -  | 262,308   |
|   |  | mortonizio oo. o   |  |   |  | _  | 33,584  |
|   |  |  |  |   |  |  | 45,500  |
|   |  |  | Lower Red Basin Regional Detention Study   |   |  |  | 3,900   |
|   |  | Oil) at Granten  |  |   |  | _  | 81,200  |
|   |  |  |  |   |  | _  | 114,100   |
|   |  | Trainon, out three   |  |   |  | _  | 113,500   |
|   |  | mapre i mesi e i i -   |  |   |  | -  | 1,482,081   |
|   |  | F  |  |   |  |  | 75,000  |
| 5000  |  |  |  |   |  |  | 75,000  |
| 5000  | 2015-17  | ND Irrigation Association (NDI   | ND Imigation Association   |   |  |  | 150,000   |
| 5000  | 2015-17  | Red River Basin Commission   | Red River Basin Commission Contractor  |   |  |  | 27,000  |
| 5000  | 2015-17  | ND Water Education Foundati  | ND Water Magazine  |   |  |  | 7,138   |
| 5000  | 2011-13  |  | Dave Koland Term as WUA President  |   |  |  | 25,636  |
| 5000  |  |  | Oaks Irrigation Research Site - New Linear Imgation &  |   |  | _  | 80,000  |
| 5000  | 2015-17  |  |  |   |  | _  | 17,500  |
| 5000  | 2015-17  | Carrioon Bittoren  |  |   |  |  |   |
| 5000  | 2015-17  | Datioign Co. This  | •  |   |  | _  | 22,782<br>60,000  |
| 5000  | 2015-17  |  |  |   |  | -  |   |
| 5000  | 2013-15  |  |  |   |  |  | 5,672   |
|   | 2015-17  |  |  |   |  |  | 20,000  |
|   | 2015-17  |  |  |   |  |  | 35,472  |
|   | 2013-15  |  |  |   |  |  | 22,767  |
| 5000  | 2015-17  | Upper Sheyenne River Joint V   | Upper Sheyenne River WRB Administration (USRJWF  | 5/20/2015   | 12,000   | 1,003  | 10,997  |
|   |  |  | TOTAL  |   | 22.677,574   | 5,960,325  | 16,717,249  |
|   | 5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>5000<br>500  | 5000 2013-15<br>5000 2013-15<br>5000 2013-15<br>5000 2015-17<br>5000 2015-17 | 5000         2013-15         Mercer Co. WRD           5000         2013-15         McKenzie Co. Commission           5000         2013-15         Stark County           5000         2015-17         Red River Joint Water Resour           5000         2015-17         Red River Joint WRD           5000         2015-17         Park River Joint WRD           5000         2015-17         Maple River WRD           5000         2015-17         Maple-Steele WRD           5000         2015-17         Assiniboine River Basin           5000         2015-17         ND Irrigation Association (NDI           5000         2015-17         Red River Basin Commission           5000         2015-17         ND Water Education Foundati           5000         2015-17         NDSU           5000         2015-17         NDSU           5000         2015-17         NDSU           5000         2015-17         Burleigh Co. WRD           5000         2015-17         Burleigh Co. WRD           5000         2015-17         Burlis Lake Joint WRB           5000         2015-17         Missouri River Joint WRB           5000         2015-17         Missouri River Joint WRB <td>5000 2013-15 McKenzie Co. Commission 5000 2013-15 Stark County Stark County Stark County Stark County LiDAR Collection Project LiDAR Collection Project Stark County Stark County LiDAR Collection Project (FEMA) 5000 2015-17 Red River Joint Water Resour Lower Red Basin Regional Detention Study Grafton Debris Removal Plan North Branch Park River NRCS Watershed Study Forest River Watershed Study Forest River Watershed Study Forest River Watershed Study Forest River Watershed Study Swan Buffalo Detention Dam #8(Embden Dam) Upper Maple River Dam Construction Phase Assiniboine River Basin Commission Red River Basin Initiative Funding ND Upper Maple River Dam Construction Phase Assiniboine River Basin Commission Commission Contractor 5000 2015-17 ND Irrigation Association ND In Irrigation Association ND Water Magazine Dave Koland Term as WUA President Oaks Irrigation Research Site - New Linear Irrigation Site</td> <td>5000         2013-15         Mercer Co. WRD         LiDAR Collection Project         5/29/2014           5000         2013-15         McKenzie Co. Commission         LiDAR Collection Project         9/15/2014           5000         2013-15         Stark County         Stark County LiDAR Collection Project (FEMA)         7/17/2015           5000         2015-17         Red River Joint Water Resour Lower Red Basin Regional Detention Study         7/17/2015           5000         2015-17         Park River Joint WRD         North Branch Park River NRCS Watershed Study         10/6/2015           5000         2015-17         Park River WRD         North Branch Park River NRCS Watershed Study         10/6/2015           5000         2015-17         Maple River WRD         Swan Buffalo Detention Dam #8(Embden Dam)         12/11/2015           5000         2015-17         Maple-Steele WRD         Upper Maple River Dam Construction Phase         12/13/2013           5000         2015-17         Assiniboine River Basin         Assiniboine River Basin Initiative Funding         7/29/2015           5000         2015-17         ND Unitrigation Association         10/6/2015           5000         2015-17         ND Water Education Foundati ND Water Magazine         5/20/2015           5000         2015-17         NDSU         Davit</td> <td>5000         2013-15         Mercer Co. WRD         LiDAR Collection Project         5/29/2014         10,425           5000         2013-15         McKenzie Co. Commission         LiDAR Collection Project         9/15/2014         262,308           5000         2015-17         Red River Joint Water Resour Lower Red Basin Regional Detention Study         7/17/2015         33,584           5000         2015-17         City of Grafton         Grafton Debris Removal Plan         9/17/2015         3,900           5000         2015-17         Park River Joint WRD         North Branch Park River NRCS Watershed Study         10/6/2015         81,200           5000         2015-17         Walsch Co. WRD         Forest River Watershed Study         10/6/2015         81,200           5000         2015-17         Maple River WRD         Swan Buffalo Detention Dam #8(Embden Dam)         12/11/2015         114,100           5000         2015-17         Maple-Steele WRD         Upper Maple River Dam Construction Phase         12/13/2013         4,702,936           5000         2015-17         ND Irrigation Association (NDI ND Irrigation Association         10/6/2015         100,000           5000         2015-17         Red River Basin Commission         Red River Basin Commission Contractor         5/20/2015         20/2015         5/20/20</td> <td>  10,425   0   0   0   0   0   0   0   0   0  </td> | 5000 2013-15 McKenzie Co. Commission 5000 2013-15 Stark County Stark County Stark County Stark County LiDAR Collection Project LiDAR Collection Project Stark County Stark County LiDAR Collection Project (FEMA) 5000 2015-17 Red River Joint Water Resour Lower Red Basin Regional Detention Study Grafton Debris Removal Plan North Branch Park River NRCS Watershed Study Forest River Watershed Study Forest River Watershed Study Forest River Watershed Study Forest River Watershed Study Swan Buffalo Detention Dam #8(Embden Dam) Upper Maple River Dam Construction Phase Assiniboine River Basin Commission Red River Basin Initiative Funding ND Upper Maple River Dam Construction Phase Assiniboine River Basin Commission Commission Contractor 5000 2015-17 ND Irrigation Association ND In Irrigation Association ND Water Magazine Dave Koland Term as WUA President Oaks Irrigation Research Site - New Linear Irrigation Site | 5000         2013-15         Mercer Co. WRD         LiDAR Collection Project         5/29/2014           5000         2013-15         McKenzie Co. Commission         LiDAR Collection Project         9/15/2014           5000         2013-15         Stark County         Stark County LiDAR Collection Project (FEMA)         7/17/2015           5000         2015-17         Red River Joint Water Resour Lower Red Basin Regional Detention Study         7/17/2015           5000         2015-17         Park River Joint WRD         North Branch Park River NRCS Watershed Study         10/6/2015           5000         2015-17         Park River WRD         North Branch Park River NRCS Watershed Study         10/6/2015           5000         2015-17         Maple River WRD         Swan Buffalo Detention Dam #8(Embden Dam)         12/11/2015           5000         2015-17         Maple-Steele WRD         Upper Maple River Dam Construction Phase         12/13/2013           5000         2015-17         Assiniboine River Basin         Assiniboine River Basin Initiative Funding         7/29/2015           5000         2015-17         ND Unitrigation Association         10/6/2015           5000         2015-17         ND Water Education Foundati ND Water Magazine         5/20/2015           5000         2015-17         NDSU         Davit | 5000         2013-15         Mercer Co. WRD         LiDAR Collection Project         5/29/2014         10,425           5000         2013-15         McKenzie Co. Commission         LiDAR Collection Project         9/15/2014         262,308           5000         2015-17         Red River Joint Water Resour Lower Red Basin Regional Detention Study         7/17/2015         33,584           5000         2015-17         City of Grafton         Grafton Debris Removal Plan         9/17/2015         3,900           5000         2015-17         Park River Joint WRD         North Branch Park River NRCS Watershed Study         10/6/2015         81,200           5000         2015-17         Walsch Co. WRD         Forest River Watershed Study         10/6/2015         81,200           5000         2015-17         Maple River WRD         Swan Buffalo Detention Dam #8(Embden Dam)         12/11/2015         114,100           5000         2015-17         Maple-Steele WRD         Upper Maple River Dam Construction Phase         12/13/2013         4,702,936           5000         2015-17         ND Irrigation Association (NDI ND Irrigation Association         10/6/2015         100,000           5000         2015-17         Red River Basin Commission         Red River Basin Commission Contractor         5/20/2015         20/2015         5/20/20 | 10,425   0   0   0   0   0   0   0   0   0                          |

## STATE WATER COMMISSION PROJECTS/GRANTS/CONTRACT FUND 2015-2017 Biennium Resources Trust Fund

| COMPL | ETED | GENERAL | PROJECTS |
|-------|------|---------|----------|
|-------|------|---------|----------|

|        |               |      |          |                           |   | Initial    |                |           | Jan-16  |
|--------|---------------|------|----------|---------------------------|---|------------|----------------|-----------|---------|
| pprove | d SWC         |      | Approved |                           |   | Approved   | Total          | Total     |         |
| у      |               | )ept |          | Sponsor                   | Project   | Date       | Approved       | Payments  | Balance |
|        |               |      |          |                           |   | 101010011  | 8.070          | n 070     | (       |
| WC     | 228           |      |          | U.S. Geological Survey    | (USGS) Operation & Maint of Gaging Station on the Missouri F  | 12/8/2014  | 8,970          | 8,970     |         |
| SE     | 274           |      |          | City of Neche             | FEMA Levee Certification Feasibility Study                    | 10/17/2014 | 37,500         | 37,500    |         |
| SE.    | 391           |      |          | Sargent Co WRD            | Sargent Co WRD, Silver Lake Dam Emergency Repairs             | 10/12/2011 | 2,800          | 0         | 2,80    |
| SWC    | 980           |      |          | Maple River WRD           | Maple River Watershed Flood Water Retention Study/ Maple R    | 2/19/2015  | 3,687          | 3,687     | 00.05   |
| SÉ     | 1069          |      |          |                           | Drain #13 Channel Improvements Project                        | 9/29/2015  | 46,150         | 12,293    | 33,85   |
| SWC    | 1082          | 5000 | 2013-15  | Rush River WRD            | Cass Co. Drain No. 30 Channel Improvement Project             | 3/17/2014  | 5,976          | 5,970     |         |
| SWC    | 1224          | 5000 | 2013-15  | Traill Co. WRD            | Palace Drain Improvement District No. 80                      | 5/20/2015  | 118,933        | 118,933   |         |
| SE.    | 1290          | 5000 | 2015-17  | McLean Co. WRD            | Painted Woods Lake Flood Mitigation Study                     | 7/7/2015   | 24,500         | 24,500    |         |
| SE.    | 1311          | 5000 | 2013-15  | Traill Co. WRD            | Buxton Township Improvement District No. 68                   | 6/17/2015  | <b>15,74</b> 5 | 15,745    |         |
| SE     | 1312          | 5000 | 2011-13  | Walsh Co. WRD             | Skyrud Dam 2011 EAP   | 12/15/2011 | 10,000         | 8,073     | 1,92    |
| SE .   | 1312          | 5000 | 2011-13  | Walsh Co. WRD             | Union Dam 2011 EAP  | 12/15/2011 | 10,000         | 8,350     | 1,65    |
| SWC    | 1314          | 5000 | 2013-15  | Wells Co. WRD             | Oak Creek Drain Lateral E Reconstruction Project              | 9/15/2014  | 73,057         | 73,057    |         |
| SWC    | 1396          | 5000 | 2011-13  | U.S. Geological Survey    | (USGS) Missouri River Geomorphic Assessment                   | 3/7/2012   | 10,000         | 10,000    | 1       |
| SWC    | 1444          | 5000 | 2013-15  | City of Pembina           | 2014 Flood Protection System Modification Project             | 5/29/2014  | 61,331         | 61,331    | 1       |
| SWC    | 1577          | 5000 | 2013-15  | City of Killdeer & Dunn C | r Floodplain Mapping Project                                  | 5/29/2014  | 55,000         | 55,000    |         |
| SE.    | 1607          |      |          | Ward Co. WRD              | Flood Inundation Mapping of Areas Along Souris & Des Lacs F   | 6/15/2011  | 13,011         | 0         | 13,01   |
| E      | 1701          | 5000 | 2013-15  | US Army Coms of Engine    | Red River of the North Unsteady Flow Model                    | 11/25/2015 | 17,825         | 17,825    |         |
| SWC    | 1758          |      |          | U.S. Geological Survey    | (USGS) Stochastic Model for the Mouse River Basin             | 12/13/2013 | 40,000         | 40,000    |         |
| SWC    | 1792          |      |          | Southeast Cass WRD        | SE Cass Wild Rice River Dam Study Phase II                    | 1/29/2015  | 32,252         | 32,252    |         |
| SE     | 1814          |      |          | Richland Co. WRD          | Wild Rice River Snagging & Clearing - Bridge #121-2           | 5/28/2015  | 16,000         | 16,000    |         |
| SE     | 1842          |      |          | Southeast Cass WRD        | Wild Rice River Snagging & Clearing - Bridge Location Sites   | 2/3/2015   | 11,063         | 0         | 11,06   |
| SWC    | 1932          |      |          | Nelson Co. WRD            | Michigan Spillway Rural Flood Assessment                      | 8/15/2014  | 832,207        | 832,207   |         |
| SE     | 1967          |      | _        | Grand Forks Co. WRD       | Grand Forks County Legal Drain No. 55 2010 Contruction        | 11/30/2010 | 9,652          | 9,652     |         |
| SWC    | 1970          |      |          | Walsh Co. WRD             | Walsh Co. Construction of Legal Assessment Drain # 72         | 3/28/2011  | 39,115         | 39,115    | 1       |
| SWC    | 1975          | 5000 |          | Walsh Co. WRD             | Walsh Co. Drain No. 31 Reconstruction Project                 | 9/21/2011  | 37,742         | 37,742    |         |
| SE     | 1998          |      |          | Grand Forks Co. WRD       | Upper Turtle River Dam #1 2012 EAP                            | 6/28/2012  | 10,000         | 9,365     | 63      |
| SE     | 2002          |      |          | Grand Forks Co. WRD       | Trutle River Dam #4 2012 EAP                                  | 6/29/2012  | 10,000         | 8,656     | 1,34    |
| SWC    | 2002          |      |          | Grand Forks Co. WRD       | Drain No. 57 Project  | 10/7/2013  | 413,576        | 413,576   |         |
|        | 2004          |      |          | Grand Forks Co. WRD       | Turtle River Dam #8 2012 EAP                                  | 6/29/2012  | 10,000         | 9,069     | 93      |
| SE SE  | _             |      |          | Maple River WRD           | Pontiac Township Improvement District No. 73 Project          | 5/11/2015  | 747,093        | 594,183   | 152,91  |
| WC     | 2007          |      |          |                           | Wild Rice River Watershed Retention Plan                      | 6/8/2015   | 45.905         | 45,905    | .02,01  |
| SWC    | 2013          |      |          |                           | Drain #74 Project   | 10/7/2013  | 197,604        | 197,604   |         |
| SWC    | 2040          |      |          | Walsh Co. WRD             | North Branch Park River Comprehensive Flood Damage Redu       | 12/13/2013 | 134,400        | 108,772   | 25,62   |
| SWC    | 2046          |      |          | Walsch Co. WRD            | Marion Flood Mitigation & Lagoon Drainage Project             | 5/29/2014  | 116,659        | 116,599   | 20,02   |
| WC     | 2048          | 5000 |          | City of Marion            |   | 9/15/2014  | 60,300         | 49,055    | 11,24   |
| WC     | 1183/1613/160 |      |          | Richland Co. WRD          | Drain No. 15 Reconstruction Project                           |            |                |           |         |
| B2009  | 1986-03       | 5000 |          | USDA-APHIS,ND Dept A      | USDA Wilding  | 9/9/2015   | 250,000        | 250,000   | 10.75   |
| SWC    | 2003-02       |      |          | Southeast Cass WRD        | Re-Certification of the West Fargo Diversion Levee System     | 7/23/2015  | 52,564         | 32,813    | 19,75   |
| SWC    | 2009-02       |      |          | Southeast Cass WRD        | Recertification of the Horace to West Fargo Diversion Levee S | 9/17/2012  | 25,504         | 25,504    | 04.00   |
| SWC    | CON/WIL/CAR   | 5000 | 2013-15  | Garrison Diversion Cons   | Will and Carlson Consulting Contract                          | 12/13/2013 | 26,451         | 1,828     | 24,62   |
| SE     | PSWRDCAS      | 5000 | 2015-17  | Cass Co. Joint WRD        | Red River Watershed Comprehensive Detention Plan Updates      | 11/19/2015 | 34,025         | 34,025    |         |
|        |               |      |          |                           | TOTAL   |            | 3,666,597      | 3,365,156 | 301,44  |

-8-



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#### **MEMORANDUM**

TO:

Governor Jack Dalrymple

Members of the State Water Commission

FROM: Todd Sando, P.E., Chief Engineer - Secretary

SUBJECT: DATE:

SWPP Project Update

February 22, 2016

## Oliver, Mercer, North Dunn (OMND) Regional Service Area Center SA Rural Distribution System 7-9E & 7-9F:

The State Water Commission (SWC) awarded Contract 7-9F to Eatherly Constructors, Inc. at its October 7, 2013 meeting. This contract initially consisted of 260 miles of 8" -1½" PVC pipe serving 341 rural water customers. The contractor has completed installation of approximately 231 miles of pipeline and 355 users. Twelve change orders have been signed by all parties to date, which added 63 additional users and 21 more miles of pipeline to the contract. The substantial completion date including modifications through Change Order No. 12 is August 27, 2016.

Contract 7-9E is the west Center SA rural distribution system. This contract includes furnishing and installing approximately 275 miles of 6"-1 ½" PVC pipe serving 255 rural water customers. The SWC awarded this contract to Swanberg Construction, Valley City, North Dakota at its May 29, 2014 meeting. The contractor has completed installation of approximately 266 miles of pipeline and 248 users. The 54 users within the intermediate completion area were turned over to SWA on August 13, 2015. The contractor has requested a 27-day extension to the intermediate and substantial completion date to account for rain days and delays caused by extended load restrictions. Their request is under review. The contractor has also requested that 41 users be removed from the substantial completion date because of delays caused by easement acquisitions.

Swanberg Construction is the Contractor on Contract 7-9G, Bid Schedule 1 and they were allowed to delay the start of construction of Contract 7-9G, Bid Schedule 1 because of the pending work on Contract 7-9E and easement issues in the Contract 7-9G Bid Schedule 1 area. The intermediate completion date for Contract 7-9G Bid Schedule 1 was removed, and the 32 users removed were added to Contract 7-9E's substantial completion date. To date, eleven change orders for Contract 7-9E have been signed by all parties, which added 50 users and 19 miles of pipeline. The substantial completion date, including modifications through Change Order No. 11, is July 1, 2016.

#### Contract 7-9G Halliday and Dunn Center Service Area:

This contract includes furnishing and installing approximately 330 miles of 6"-1 ½" ASTM D2241 gasketed joint pipe; 395 services; road crossings; connections to existing pipelines and other related appurtenances. The project is located in Mercer and Dunn Counties of North Dakota.

SWPP Project Update Page 2 February 22, 2016

The contract has two Bid Schedules. The SWC awarded Bid Schedule 1 to Swanberg Construction Inc., and Bid Schedule 2 to Northern Improvement Company at its March 11, 2015 meeting.

Bid Schedule 1 consists of furnishing and installing approximately 170 miles of  $6"-1\frac{1}{2}"$  ASTM D2241 PVC gasketed joint pipe and 173 services. This contract had an intermediate completion date of November 1, 2015 for installation of 37 miles of pipeline and 32 users. Because of the 50 additional users added to Contract 7-9E, and removal of intermediate completion date a new milestone completion date was added to this contract. The milestone completion date is August 1, 2016 for 123 users, and the current substantial completion date for Bid Schedule 1 is November 20, 2016 for 173 users.

Bid Schedule 2 consists of furnishing and installing approximately 164 miles of  $6"-1\frac{1}{2}"$  ASTM D2241 PVC gasketed joint pipe and 218 services. The area is west of Halliday. The substantial completion date for Bid Schedule 2 is September 15, 2016.

The preconstruction conference for Bid Schedule 2 was held on June 17, 2015, and the contractor started construction on June 29, 2015. The contractor has completed installation of approximately 137 miles of pipeline and 171 users. The contractor has also turned over 122 users for service. To date, 16 change orders have been signed by all parties, which added 30 miles of pipeline and 80 additional users. The substantial completion date including modifications through Change Order No. 16 is May 12, 2017.

#### Contract 2-8E/2-8F Dunn Center SA Main Transmission Line (MTL):

Contract 2-8E is the MTL from the OMND WTP to a combination reservoir and booster station north of Halliday (Dunn Center booster station). This contract was substantially complete on December 4, 2014.

Contract 2-8F is the MTL west of Halliday to west of Killdeer. This contract involves furnishing and installing approximately 40 miles of 16"-6" PVC pipe, connections to existing pipelines, 2 prefabricated steel meter vaults, road crossings and related appurtenances. This contract has two intermediate completion dates. The first intermediate completion date was August 15, 2014 for Bid Schedule 1, which is from north of Halliday to the Dunn Center Elevated tank. The second intermediate completion date was November 15, 2014 for Bid Schedule 2A which will provide connections to the Cities of Dunn Center and Killdeer. The Bid Schedule 2B and the entire project was to be substantially complete on or before August 1, 2015, which included 2 prefabricated below grade booster pump stations and will enable the Killdeer Mountain, Grassy Butte and a portion of the Fairfield service areas to be served from the OMND WTP.

The Commission awarded Contract 2-8F to Carstensen Contracting, Inc. during its February 27, 2014 conference call meeting. Pipeline installation is complete. Bid Schedule 1, Bid Schedule 2A and Schedule 2B were turned over for service on March 13, 2015, April 29, 2015 and September 15, 2015 respectively. The contractor requested time extensions for both contract

SWPP Project Update Page 3 February 22, 2016

2-8E and 2-8F. The time extensions requested were because of delays caused by weather, wet conditions and additional rock excavation. Based on the documentation provided and review of actual field conditions, a 67-day extension was provided for Contract 2-8E, and liquidated damages for 89 days delay was deducted from the contract price. For Contract 2-8F, 134-day extension was provided, and liquidated damages for 123 days will be deducted from the contract price.

#### **Contract 5-17 Dunn Center Elevated Reservoir:**

This contract includes furnishing and installing a 1,000,000 gallon elevated composite reservoir. The substantial completion date on this contract was August 15, 2014. The tank was turned over for service on August 13, 2015. The contractor signed the latest partial pay estimate protesting the liquidated damages withheld. Pre-final inspection of the tank is complete, and the contractor was provided a punch list of items to remedy.

#### Contract 8-3 Killdeer Mountain Elevated Reservoir:

This contract includes furnishing and installing a 250,000-gallon elevated reservoir. This contract was bid on October 18, 2013. The SWC awarded this contract to Maguire Iron, Inc. of Sioux Falls, South Dakota at its December 13, 2013 meeting. The substantial completion date was October 1, 2014. The tank was considered substantially complete on November 23, 2014. The contract was provided 30-day extension, and the 24 days of liquidated damages were deducted from the contract price.

#### OMND Water Treatment Plant (WTP) Phase II Expansion:

The SWC awarded Contract 3-1H, OMND WTP Phase II expansion to Northern Plains Contracting, Inc., and Edling Electric, Inc. at its December 13, 2013 meeting. The preconstruction conference for Contract 3-1H was held on January 29, 2014. The substantial completion date on this contract was August 1, 2014. The contract was substantially complete on September 24, 2014. The completion was delayed because of the coordination involved with keeping the WTP operational. Administrative items remain before the contract can be closed out.

#### Contract 5-15A 1st Zap Potable Reservoir:

The contractor repaired the settlement damage to the floor by replacing the floor panels. The tank was rechlorinated on November 14, 2015. The contractor will return in Spring of 2016 to complete final coating repairs.

#### **Other Contracts**

#### **Contract 8-1A New Hradec Reservoir:**

This contract involves furnishing and installing a 296,000-gallon fusion powder coated bolted steel reservoir. 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. A partial pay estimate withholding \$207,750 was sent to the contractor. The contractor responded that he does not agree with the liquidated damages that are being assessed and will not sign the partial pay estimate. A pre-final inspection was conducted the week of September 8, 2014 and again on December 9, 2014, and a punch list of remaining items was forwarded to the contractor. The

SWPP Project Update Page 4 February 22, 2016

contractor attempted to work on the punch list items, but the work has not been accepted. An updated punch list was again sent to the contractor on July 29, 2015 and some of them were completed by mid-September. An updated closeout letter and punch list was sent to the contractor on September 16, 2015 requesting all remaining items be completed by September 30, 2015. On December 21, 2015 a meeting was held to discuss the liquidated damages withheld on the contract. There is no justification for any reduction in the liquidated damages and that was relayed to the contractor. We are aware of a lawsuit between the contractor and the tank subcontractor.

#### Contract 4-5 Finished Water Pumping Station (FWPS):

This contract consists of the construction of a 60° by 85° reinforced concrete and precast concrete building and the installation of pumping, piping, mechanical, and electrical and instrumentation systems. On October 15, 2015 the milestone completion was achieved. The FWSP was able to serve the SWPP and the City of Dickinson on October 15, 2015. The contract specified August 15, 2015 as the milestone completion date. Initially a 21-day extension was granted to the contractor. Based on the additional documentation provided by the contractor additional 13-day and 2-day extensions were provided to the milestone completion date and substantial completion date respectively. Based on the extension provided, the milestone completion date for the contract was October 3, 2015 and substantial completion date was December 6, 2015. The contractor reached the milestone and substantial completion date on October 15, 2015 and December 10, 2015 respectively. Liquidated damages for 16-day delay will be deducted from the contract price. The contractor is working on punch list items and changes added through change orders.

#### Contract 1-2A Supplemental Raw Water Intake:

The first section of the intake pipe was lowered on July 15, 2015. Through August 6, 2015 the tunnel drive had progressed approximately 955 feet. After that, the contractor encountered multiple issues with the shaft seal and intermediate jacking stations. Through October 31, 2015 tunneling had proceeded to approximately 1786 feet.

In the early morning of November 1, 2015 the contractor's employees heard a loud pop noise and noticed uncontrolled flow of sand and water entering the pipe approximately 40-50 feet from the caisson end of the pipe. The water and sand flowed out from the pipe and into the caisson shaft, and the employees quickly evacuated the caisson shaft as the water and sand level began to rise. The contractor sent a letter on November 2, 2015 informing the engineer about the situation and indicated that sand and water had flooded the shaft to a depth of about 15 feet with the bottom 12 feet being fairly dense sand. The water was initially rising at the rate of 3 feet/day and is continuing to rise.

The contractor mobilized a drilling crew and drilled 8 holes on November 6, 2015. On November 9, 2015 the contractor injected a cement – sand grout to fill the voids. The drill holes took approximately 60 cubic yards of grout. Since the calculated volume of material in the pipe and the shaft exceeds the pumped in grout by several times, additional boreholes along the pipe alignment were suggested to the contractor. The contractor drilled additional 8 boreholes and pumped additional 50 cubic yards of grout.

SWPP Project Update Page 5 February 22, 2016

A conference call was held with the contractor to discuss the possible options to move forward. The present location of the microtunnelling machine is beneath about 20' of water and about 67 feet of soil. Some of the options discussed for moving the project forward were horizontal directional drilling through the caisson shaft, tunneling with a new direction and at a higher elevation from the existing shaft, and installing a recovery shaft on the shoreline or near it to intercept the tunnel and then proceed in a new direction with another intake pipe.

A meeting was held on February 19, 2016 with the contractor to discuss the schedule and plan for completing the project. The contractor indicated that their plan is to seal the damaged intake pipe from the inflow of water by jet grouting, removing the sand and water inside the caisson and constructing a new floor at the bottom of the caisson. Then a new MTBM will be launched and a new intake pipe will be installed approximately 12' higher than the existing intake pipe's centerline. They originally planned to follow the existing intake pipe's alignment for the new intake. They were informed following a different alignment would be preferable. The contractor has also requested extension through November 30, 2017 for completion of this contract.

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

The preconstruction conference for Contract 3-2D was held on January 13, 2016 with both the General contractor John T. Jones Construction Co., Inc. and the Mechanical contractor Williams Plumbing and Heating Inc. John T. Jones mobilized to the site the week of January 4, 2016 and is currently working on earthwork excavation.

Bids for Contract 3-2D Electrical Contract were opened on January 28, 2016 and the bid results are discussed in detail in a separate memo.

#### Contract 4-1F/4-2C Generator Upgrades:

The scope of this contract includes relocating the existing 1000 kW generator at the Dodge pump station to the Dickinson Finished Water Pump Station and installing a new standby engine generator at the Dodge pump station. This contract also includes relocating the existing 1,500 kW generator at the Richardton Pump Station to the intake booster pump station and installing a new generator at the Richardton Pump Station. Bids for this contract were opened on January 28, 2016 and the bid results are discussed in detail in a separate memo.

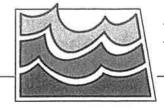
#### Contract 5-1A and 5-2A 2nd Dickinson and 2nd Richardton Reservoir:

Work on the design of the raw water reservoirs is progressing.

#### Raw Water Line Capacity Upgrade:

We received the draft alignment memo for the parallel piping from the intake to zap reservoirs from Bartlett & West/AECOM. Permission for survey along the alignment was obtained from the landowners and topographical survey needed for the design work is currently being performed.

TSS:SSP:pdh/1736-99



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#### **MEMORANDUM**

TO:

Governor Jack Dalrymple

Members of the State Water Commission

FROM: Todd Sando, P.E., Chief Engineer-Secretary

**SUBJECT:** 

NAWS – Project Update

DATE:

February 17, 2016

#### Supplemental EIS

Reclamation issued the Record of Decision for the Final Supplemental Environmental Impact Statement (FSEIS) for the Northwest Area Water Supply on August 21, 2015. Reclamation received seven comment letters on the FSEIS, which along with point-by-point responses were included as an appendix to the Record of Decision. The Preferred Alternative includes a supply from the Missouri River (Lake Sakakawea) with an intake at Snake Creek Pumping Station along with a conventional treatment option for the Biota Water Treatment Plant near Max. This level of treatment includes five treatment processes versus two from the draft SEIS and the initial Environmental Assessment. Although all biota treatment options were considered sufficient by Reclamation, the conventional treatment option was chosen to address drinking water issues raised by the EPA.

#### Manitoba & Missouri Lawsuit

A Joint Motion for Entry of Case Management and Scheduling Order was submitted to the District of Columbia District Court December 22, 2015 and accepted with minor modifications December 23, 2015. The plaintiffs filed supplemental Complaints January 29, 2016 and the defendants lodged and served the Administrative Record February 5, 2016. A Motion to Modify Injunction *Pendente Lite* is to be filed by the State of North Dakota as intervenor defendant March 1, 2016 with oppositions by the plaintiffs due April 4, 2016 and replies by the defendants due April 25, 2016. Motions for Summary Judgment are to be filed by the defendants April 11, 2016 with combined cross-motions/opposition by the plaintiffs due May 13, 2016 and combined oppositions/replies by the defendants due June 17, 2016. This court typically takes four to six months to reach a verdict after the cases are fully briefed.

The court had previously been notified of maintenance activity necessary at the Minot Water Treatment Plant to ensure its continued operation focused primarily on the lime storage, handling, and softening facilities. A design concept meeting was held February 9, 2016 to update the State Water Commission and City of Minot staff on the progress of this design work.

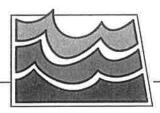
#### NAWS High Service Pump Station

Contract 4-2A-1 includes furnishing and installing a 125 hp 'Jockey' pump to compliment the existing 350 hp pumps and maintenance work in the pump station. This contract was originally

JACK DALRYMPLE, GOVERNOR CHAIRMAN TODD SANDO, P.E. CHIEF ENGINEER AND SECRETARY NAWS – Project Update Page 2 February 17, 2016

intended to be complete by the end of 2015 but has been delayed by equipment delivery dates for the pump and drive.

TSS:TJF:pdh/237-04



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#### MEMORANDUM

TO:

Governor Jack Dalrymple

Members of the State Water Commission

FROM: Fodd S. Sando, P.E., Chief Engineer - Secretary

SUBJECT: Mouse River Enhanced Flood Protection Project Status Report

DATE:

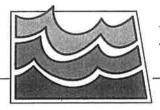
February 22, 2016

Design for Phase 1, the floodwall extending east from the Broadway Bridge on the north bank of the river, is being coordinated with the proposal to replace the Broadway Bridge in the near future. The 60 percent design report and plans will be submitted on March 24, with 90 percent submission scheduled for August, 2016 and 100 percent on November 20, 2016.

Design work also progresses on Phases 2 and 3, the levee system from the Highway 83 bypass to the CP Rail Bridge. These phases also include the EIS, which becomes the umbrella under which most of the coordination with federal agencies is undertaken. Phases 2 and 3 are scheduled to reach the 90 percent level in March of this year, with design and permitting scheduled for completion in January of 2017. Construction is scheduled for a 2017 start.

Both the Corps of Engineers and FEMA are fully engaged now. A meeting was held with both agencies on January 21, and progress was made in determining the steps needed and requirements to be met. The possibility of Corps of Engineers participation in the project is now a possibility which is being explored. Discussions are under way with the Corps on the subject of a Feasibility Study.

TSS:JTF:pdh/1974



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#### **MEMORANDUM**

TO:

Governor Jack Dalrymple

.Members of the State Water Commission

FROM: Todd Sando, P.E., Chief Engineer – Secretary

SUBJECT:

Devils Lake Outlet & Hydrologic Update

Devils Lake Outlet Operations Funding Appropriation

DATE:

February 24, 2016

The current water surface elevation of Devils Lake is 1450.0 ft. This is approximately 1.6 feet below the water surface elevation from a year ago.

For Devils Lake the total precipitation for 2015 was 20.4 inches, which was about 0.8 inches less than the average since 1991. Snowpack and SWE in the Devils Lake Basin are near normal. The threat for significant, impactful, snowmelt flooding is low throughout the Red River Basin, although, the National Weather Service does indicate a slightly above historical average risk of snowmelt flooding for the Devils Lake Basin.

The National Weather Service Probabilities for exceeding listed lake levels for the period of February 14, 2016 to September 30, 2016 are shown in the table below. Also shown below is the increase in volume and area from current level to probable level.

| Lake                | 90%          | 50%           | 10%            |
|---------------------|--------------|---------------|----------------|
| Devils Lake Elev.   | 1450.9 ft.   | 1451.3 ft.    | 1452.4 ft.     |
| Lakes Vol. Increase | 90,000 acft. | 175,000 acft. | 390,000 ac ft. |
| Lakes Area Increase | 7,400 ac.    | 12,300 ac.    | 23,600 ac.     |

#### **Tolna Coulee Control Structure:**

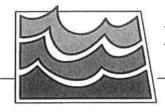
The operating plan for the structure requires that, prior to a natural overflow, the stop log elevation remain between 1 and 2 feet below the water surface of the lake. The current top elevation of the stop logs is 1449 feet. Two rows of stop logs were removed in 2015 as the lake receded to elevation 1450 feet.

#### Devils Lake Outlet Operations, SWC Contract Fund 416-10

Devils Lake Outlet Operations (project number 416-10) had \$11,000,000 allocated in the State Water Commission's budget included in SB 2020 for the 2015-2017 Biennium.

I recommend the State Water Commission approve the amount of \$11,000,000 for the Devils Lake Outlet Operations, from the funds appropriated by SB 2020 to the State Water Commission for the 2015-2017 biennium.

TS:JK:ph/416-10



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#### **MEMORANDUM**

TO:

Governor Jack Dalrymple

Members of the State Water Commission

FROM: Fodd Sando, P.E., Chief Engineer/Secretary

**SUBJECT:** 2016 Spring Flood Outlook

DATE:

February 25, 2016

On February 18, 2016, the National Weather Service (NWS) predicted a below average probability of widespread flooding occurring within the Red River, Mouse River, and Missouri River drainage systems for the Spring of 2016. The NWS also expects inflows into Devils Lake will be slightly higher than average; however, extreme volumes are unlikely.

Although the probabilities of widespread flooding are lower than average, it is early in the year and many variables can change. Heavy spring rains can cause major flooding, and spring snowstorms can also increase the flood risk. High water caused by ice jams are very difficult to predict and localized flooding caused by ice will remain a possibility for the remainder of the spring thaw.

The climate continues to be influenced by El Nino with a much greater than average chance of above average temperatures and a good chance of typical precipitation patterns covering all of North Dakota and the upper Missouri River basin for the 1-month, 2-month, and 3-month forecasts.

#### Red River Basin

The Red River and its tributaries will likely experience average spring flows that include minor to moderate flooding; however, major flooding is not predicted. Typical minor to moderate flooding is expected on the Red River, and minor flood stages on the Red River tributaries are not expected.

#### Mouse River Basin

The likelihood of widespread flooding within the Mouse River basin is well below normal risk. Reservoir levels are within their seasonal range, and it is probable that not all reservoirs will reach their desired levels without spring rains. However, Willow Creek near Willow City, which typically does not experience flooding, is an exception having an above average chance to experience minor flooding during the spring thaw.

#### Missouri River Tributaries and James River Basins

Spring runoff within the Missouri River tributaries and the James River is expected to be near normal, and the rivers are not expected to reach flood stages.

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#### Missouri River

Widespread flooding from spring runoff along the Missouri River is not expected. According to the United States Army Corps of Engineers, total system reservoir volume is near average for this time of year, although Fort Peck, Garrison, and Lake Oahe reservoirs are higher than average for this time of year.

Plains snowpack is below average, and much of it has melted because of warmer than average temperatures. Mountain snowpack is 75 percent of average above Garrison for this time of year. Historically, mountain snow pack peaks near mid-April, with about 70 percent of the accumulation occurring by mid-February.

The Missouri River near Bismarck stage rose because of an ice jam occurring near the Grant Marsh Bridge (Interstate Bridge) from February 13 through February 18. The stage at Bismarck peaked at 12.8 ft. on February 14, slightly above the action stage of 12.5 ft. Flood stage at Bismarck is 14.5 ft. The Missouri River is mostly ice free, and it is likely that a substantial ice pack will not form again until next winter.

#### **Devils Lake**

Devils Lake will likely have higher than average inflows this year. The forecast states there is a 50 percent chance it will rise 1.3 ft to elevation 1451.3 ft NGVD29. The peak elevation is expected to occur early-summer, which is typical.

TSS:MSW



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#### **MEMORANDUM**

TO:

Governor Jack Dalrymple

Members of the State Water Commission

FROM: Todd Sando, P.E., Chief Engineer/Secretary

SUBJECT: Miss

Missouri River Update

DATE:

February 18, 2016

#### System/Reservoir Status

System volume on February 18 in the six mainstem reservoirs was 56.4 million acre-feet (MAF), 0.3 MAF above the base of flood control. This is 3.5 MAF above the average system volume for the end of February and 0.5 MAF less than last year.

On February 18, Lake Sakakawea was at an elevation of 1838.2 feet msl, 0.7 feet above the base of flood control. This is 0.9 feet lower than a year ago and 7.2 feet above its average end of February elevation. The minimum end of February elevation was 1806.9 feet msl in 2007 and the maximum end of February elevation was 1842.8 feet msl in 1973.

On February 18, the elevation of Lake Oahe was 1607.7 feet msl, 0.2 feet above the base of flood control. This is the same elevation as last year and 7.1 feet higher than the average end of February elevation. The minimum end of February elevation was 1572.3 feet msl in 2007, and the maximum end of February elevation was 1611.1 feet msl in 1996.

On February 18, the elevation of Fort Peck was 2234.0 feet msl, which is at the base of flood control. This is 1.0 feet lower than a year ago and 7.2 feet higher than the average end of February elevation. The minimum end of February elevation was 2196.3 feet msl in 2007, and the maximum end of February elevation was 2243.5 feet msl in 1976.

Plains snowpack this winter has been below normal, and most of it has melted due to above normal temperatures. On February 17, mountain snowpack in the "Above Fort Peck" reach and "Fort Peck to Garrison" reach was 93 percent and 76 percent of normal, respectively. Typically, 70 percent of the peak mountain snowpack has accumulated by February 15, and it normally peaks on April 15.

#### **Ice-Affected Flow on Missouri River**

On February 13, accumulation of ice on the Missouri River caused an increase in stage at the Bismarck gage. River stage at the Bismarck gage peaked briefly at 12.8 feet on February 14 and then hovered around 12.0 feet for about two days. Most of the ice accumulated between the Interstate Bridge and Memorial Bridge. The greatest stage increase occurred upstream of the Interstate Bridge, which was not reflected in the stage at the Bismarck gage. Warm temperatures melted the ice and the stage at the Bismarck gage decreased to pre-ice jam levels by February 18.

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### Missouri River Recovery Implementation Committee (MRRIC)

In Section 5018 of the 2007 Water Resources Development Act (WRDA) Congress authorized the Missouri River Recovery Implementation Committee (MRRIC). The Committee is to make recommendations and provide guidance on activities resulting from the Missouri River Recovery Program (MRRP). The Committee was established in 2008. MRRIC has nearly 70 members representing local, state, tribal, and federal interests throughout the Missouri River Basin.

The Corps is currently engaged in the process of preparing the Missouri River Recovery Management Plan and Environmental Impact Statement (MRRMP and EIS). This process involves the development of a range of alternatives for the purposes of assisting the recovery of species on the Missouri River protected under the Endangered Species Act, specifically the threatened piping plover and endangered least tern and pallid sturgeon. One of the goals of the MRRMP and EIS is to incorporate Adaptive Management into the Corps' Missouri River Recovery Program. The Corps is developing the MRRMP and EIS in collaboration with the U.S. Fish and Wildlife Service and the MRRIC.

The MRRIC will meet in Kansas City on February 22 to 25 where discussion will continue on the MRRMP and EIS. The Corps will be evaluating six alternatives in their draft EIS. Four of the six proposed alternatives include actions outside the constraints of the current Master Manual. Actions outside the Master Manual include fall or spring pulses for the creation of emergent sandbar habitat, low nesting season flows, and a couple variations of the pallid sturgeon spawning cue pulse.

As part of the MRRMP and EIS, the U.S. Fish and Wildlife Service (USFWS) has changed the non-jeopardy goals for the least terns and piping plovers. The goal is to maintain a 95 percent probability that a population of at least 50 individuals (birds) will persist for at least 50 years on the Missouri River. Emergent Sandbar Habitat (ESH) targets have been developed to support this goal. When questioned about the basis of their new non-jeopardy goal, the USFWS indicated they are still in the process of determining the basis.

## **Emergent Sandbar Habitat Plans for Garrison Reach**

Similar to last year, the Corps plans to spray vegetation on sandbars for the purpose of maintaining ESH in the Garrison Reach for the least terms and piping plovers. No other ESH-creating actions are planned for the Garrison Reach this year.

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