

# SENATE APPROPRIATIONS EDUCATION AND ENVIRONMENT DIVISION SB2020 HEARING

**JANUARY 19, 2023** 







# RED RIVER VALLEY WATER SUPPLY PROJECT

# RRVWSP is a drought resiliency project and an economic development initiative



# PROJECTED ECONOMIC BENEFITS OF RRVWSP DURING DROUGHT

### "SAVING OUR ECONOMY" FROM THE IMPACTS OF SIGNIFICANT DROUGHT

\$33.6 BILLION

Projected total positive Project impact in a "Dirty Thirties" style drought simulated from mid-2030s through the mid-2040s

# RED RIVER VALLEY WATER SUPPLY PROJECT



**GARRISON DIVERSION CONSERVANCY DISTRICT** 

Represents the State of ND





**LAKE AGASSIZ** WATER AUTHORITY

**Represents Local Users** 



### PRIMARY 2023 LEGISLATIVE REQUEST

#### STATE COMMITMENT TO THE PROJECT

- > Funding Commitment to Implement Project Not just 23/25 Biennium Work Plan
  - The State has been a vital partner in the development of the Project. Now is the time to commit to full implementation of the Project.
  - A strong State commitment provides confidence to local water systems deliberating on their level of involvement.
  - Cost efficient build schedule to get the project into service sooner, reducing risks and inflationary impacts.

#### **2023-25 BIENNIUM REQUEST**

# \$255 MILLION -

Using State Cost Share Policy (72/25) leverages in additional \$85M in Local Funding for \$340M in total capabilities



Shovel-Ready Construction (43 Miles of Pipeline!)

Continued Design (40 Miles of Pipeline)

ENDAWS Phase 1 Design (32 Miles of Pipeline)

# LEGISLATIVE REQUEST ADDITIONAL AFFORDABILITY CONSIDERATIONS



#### STATE FINANCING OF LOCAL COST-SHARE

LONG-TERM/LOW INTEREST WITH 'DEBT SCULPTING'

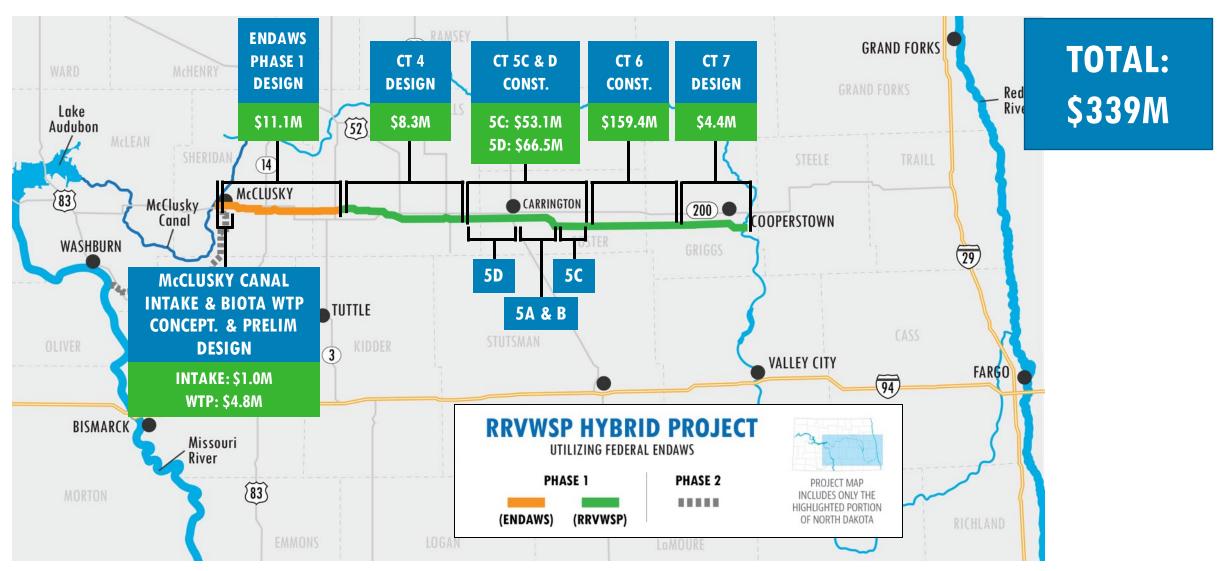
Ability to shape debt repayment to match anticipated revenues and expenses allowing systems to 'grow' into project repayment



### PROCEED WITH FEDERAL PORTION OF THE PROJECT

> An 8-year build utilizing ENDAWS saves the State \$295 Million!

### **DRAFT 2023-2025 WORK PLAN**



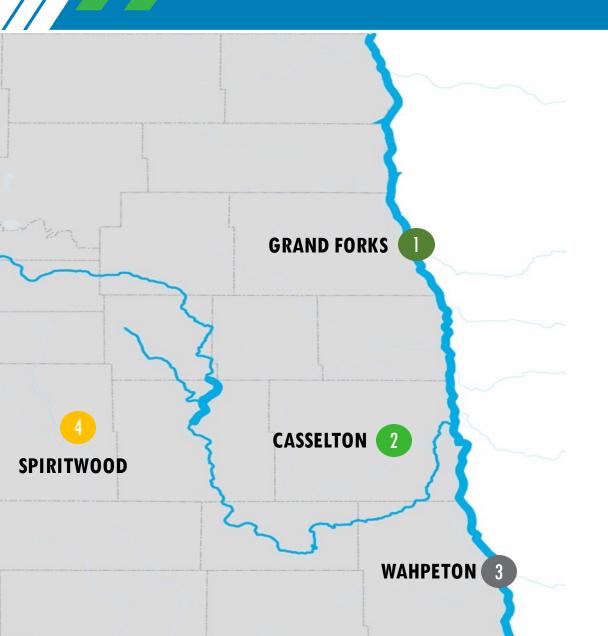
# FORECASTED SPEND SCHEDULES STATE COST-SHARE AND INFLATION MITIGATION

#### WHAT IF PROJECT IS FUNDED AT A SLOWER PACE THAN IS BEING REQUESTED?

STATE CONTRIBUTION (PER BIENNIUM)	RRVWSP PROJECTED COMPLETION DATE	ENDAWS PROJECTED COMPLETION DATE
\$85M	∞ (*Never)	∞ (*Never)
\$100M	∞ (*Never)	42-Years (Dec 2063)
\$150M	32-Years (June 2053)	22-Years (Dec 2043)
\$200M	21-Years (June 2042)	16-Years (June 2037)
\$250M	16-Years (Dec 2037)	12-Years (Dec 2033)

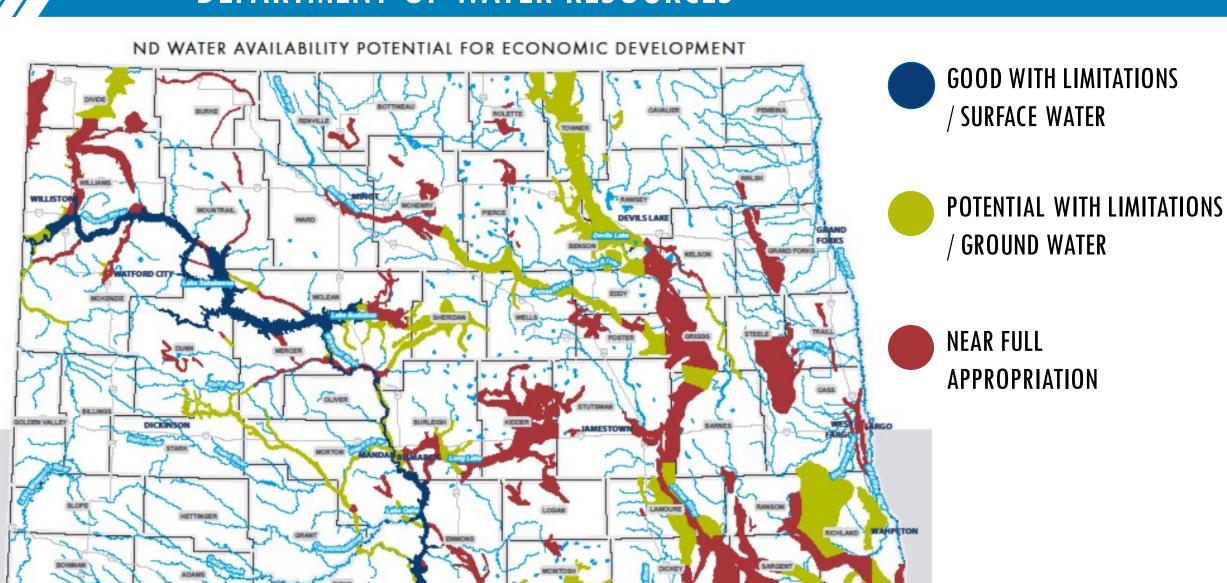
<sup>\*</sup> Due to inflation outpacing project spend, project timeline is indefinite.

### INDUSTRIAL WATER DEMAND EXCEEDS CURRENT SUPPLY

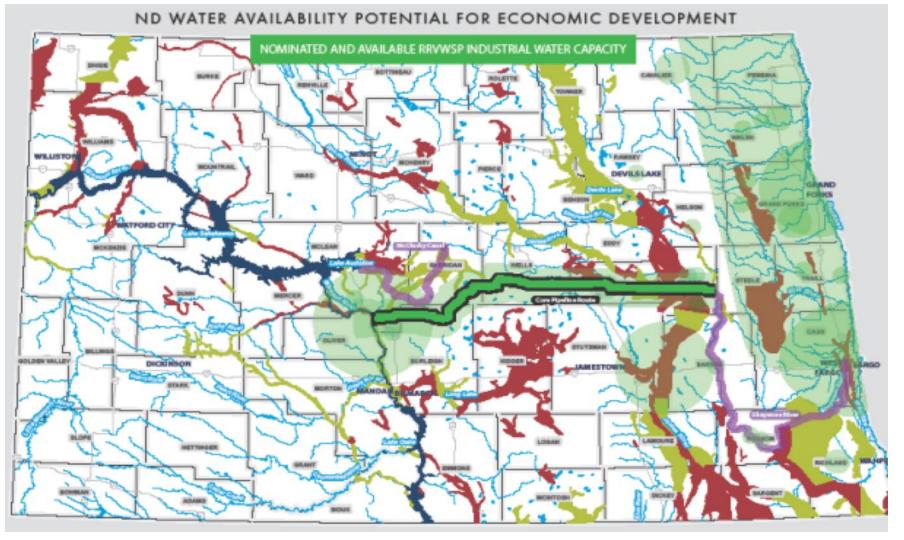


- **GRAND FORKS AGRIBUSINESS NEEDS** Permitted Use of City's Wastewater Effluent Discharge Significant Current and Proposed Industrial Use
- **CASSELTON INDUSTRY** Fargo Looking to Expand Effluent Reuse Facility CGB Soybean Plant will Approximately Double Reuse Demand
- AGP SOYBEAN CRUSHING/CRACKING Relocated Facility, Missed Opportunity
- **CARGILL (PRO GOLD)** Reliability & Expansion Precluded by Permit Restrictions
- **SPIRITWOOD ENERGY PARK Water Options Limited**
- DAIRY/POTATO WASHING/HOG & BEEF, MISC. WATER DISTRICTS **Water Options Limited**

# **AVAILABILITY POTENTIAL FOR ECONOMIC DEVELOPMENT** DEPARTMENT OF WATER RESOURCES



# **AVAILABILTY POTENTIAL FOR ECONOMIC DEVELOPMENT** NOMINATED & AVAILABLE RRVWSP INDUSTRIAL WATER CAPACITY



- **GOOD WITH LIMITATIONS** / SURFACE WATER
- POTENTIAL WITH LIMITATIONS / GROUND WATER
- **NEAR FULL APPROPRIATION**

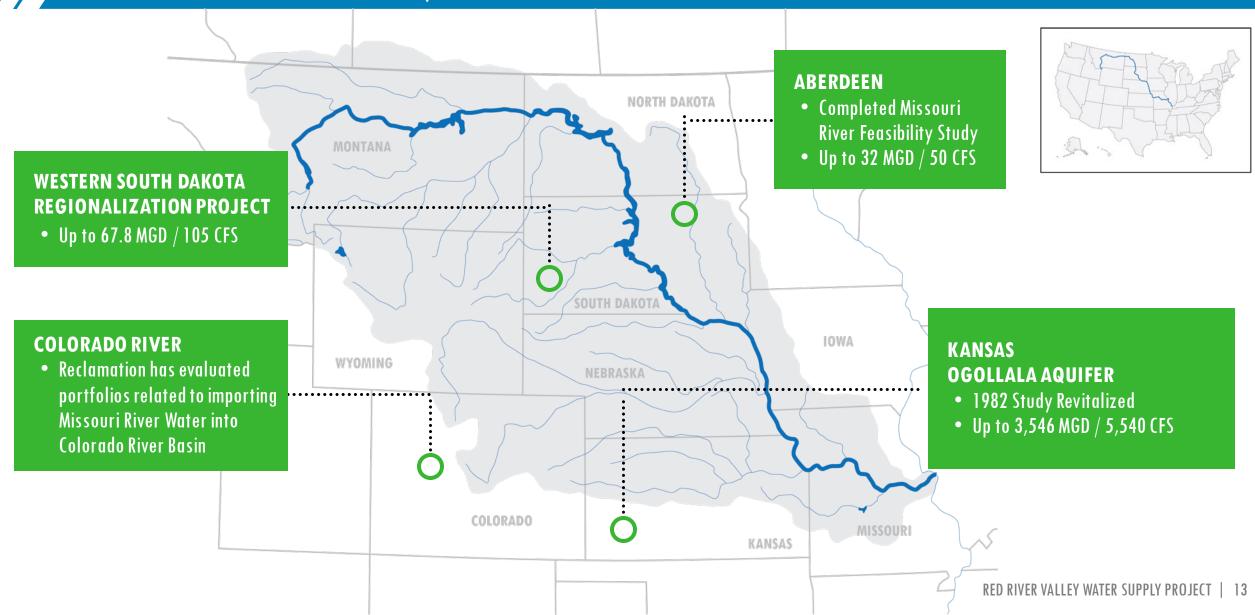
### MISSOURI RIVER

# ONE OF NORTH DAKOTA'S GREATEST NATURAL RESOURCES

- ➤ Accounts for 95% of North Dakota's surface water we only utilize about 1% of the water flowing through our state
- > Total amount of Missouri River water needed is .5%, leaving 99.5% of Missouri River unaffected



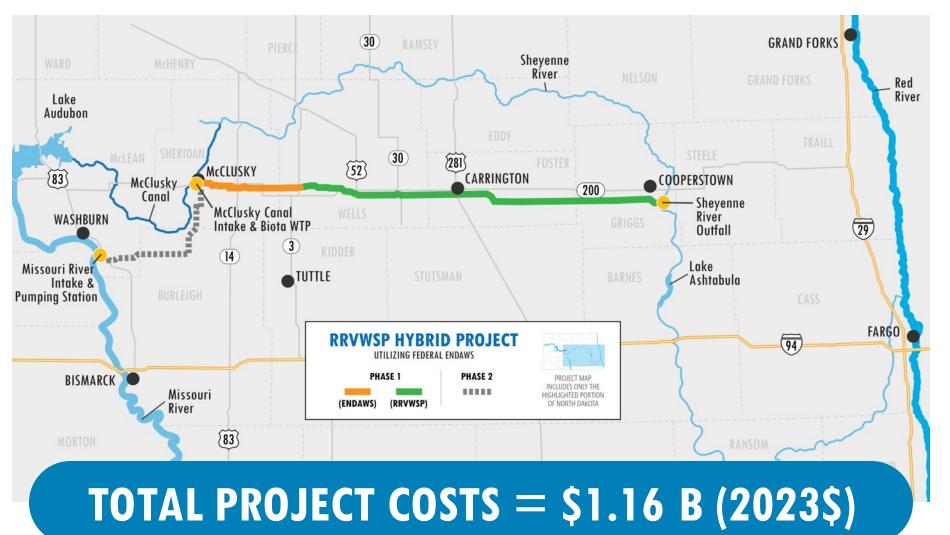
# MISSOURI RIVER FIRST IN TIME, FIRST IN LINE





### SYSTEM OVERVIEW

#### THE PROJECT IS AN EMERGENCY WATER SUPPLY FOR NEARLY 50% OF NORTH DAKOTA'S POPULATION





Pipe Diameter 72" (6 foot)



Pipe Length



Pipe Material



Pipe Flow



Bury Depth
7' Top of Pipe
15' Bottom of Trench

EASTERN ND
ALTERNATE WATER
SUPPLY (ENDAWS)





## **DAKOTA WATER RESOURCES ACT OF 2000**

#### FEDERAL RED RIVER VALLEY WATER SUPPLY PROJECT



















DAKOTA WATER RESOURCES ACT OF 2000

REPORT (RELEASED 2005)

FINAL ENVIRONMENTAL IMPACT STATEMENT (RELEASED 2007)

NO RECORD OF DECISION ISSUED FOR FEDERAL RRVWSP

FORCED
DEVELOPMENT OF
STATE & LOCAL
PROJECT

#### FEDERAL EASTERN NORTH DAKOTA ALTERNATE WATER SUPPLY (ENDAWS)















STARTED DEVELOPMENT
OF STATE & LOCAL
PROJECT
(2011)

TO ACCESS

GDU FACILITIES

(McCLUSKY CANAL)

ENDAWS
ENVIRONMENTAL IMPACT
STATEMENT
(RELEASED 2020)

OF DECISION (ISSUED 2021)

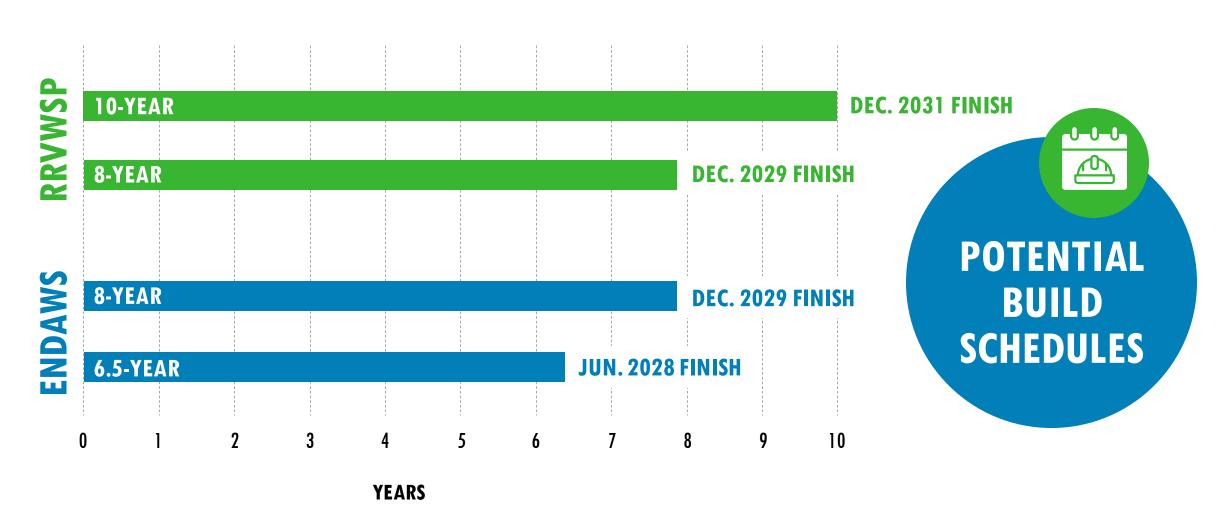
#### **CURRENT STATE PLAN VS HYBRID PROJECT** PROJECT MAP (281) HIGHLIGHTED PORTION **[52] COOPERSTOWN** (14)30) OF NORTH DAKOTA $\widetilde{(83)}$ **CARRINGTON** McClusky 200 Canal McCLUSKY Sheyenne River WASHBURN Outfall 3 **RRVWSP STATE PLAN** KIDD \$1.44 B Lake State WTP TUTTLE **RRVWSP** Ashtabula Missouri River Intake (30) 281 **(52**) McCLUSKY $\widetilde{83}$ CARRINGTON COOPERSTOWN McClusky 200 Canal Sheyenne McClusky Canal Intake & Biota WTP River WASHBURN Outfall RRVWSP HYBRID PROJECT 14 **UTILIZING FEDERAL ENDAWS** \*PHASE 2 COSTS Lake Missouri River Phase 1 Phase 2 TUTTLE **NOT INCLUDED** Ashtabula Intake & **ENDAWS** — RRVWSP Pumping Station **ALL PROJECT COSTS IN 2023\$** RED RIVER VALLEY WATER SUPPLY PROJECT



# FINANCING AND BUILD SCENARIOS



# FORECASTED SPEND SCHEDULES PROJECT ACCELERATION AND ENDAWS



# FORECASTED SPEND SCHEDULES STATE COST-SHARE — INFLATION ADJUSTED

### PROJECTED STATE-COST SHARE BY BIENNIUM (\$M)\*

	21-23	23-25	25-27	27-29	29-31	31-33	TOTAL STATE SHARE (Savings)	REMAINING LOCAL SHARE (Savings)	TOTAL PROJECT (Savings)
RRVWSP: 10-Year	\$85.9	\$254.3	\$271.7	\$291.1	\$311.8	\$81.4	\$1,296 (-)	\$ <b>432</b> (-)	<b>\$1,728</b> (-)
RRVWSP: 8-Year	\$85.9	\$254.3	\$392.5	\$420.4	\$109.7	-	<b>\$1,263</b> (\$33)	<b>\$421</b> (\$11)	<b>\$1,684</b> (\$44)
ENDAWS: 8-Year	\$85.9	\$254.3	\$280.9	\$301.0	\$78.5	-	\$1,001 (\$295)	\$333 (\$99)	\$1,334 (\$394)
ENDAWS: 6.5-Year	\$85.9	\$254.3	\$421.4	\$221.8	-	-	<b>\$983</b> (\$313)	<b>\$328</b> (\$104)	<b>\$1,311</b> (\$417)

<sup>\*</sup>State cost-share of 75% and inflation adjusted to the projected year of expenditure

# RRVWSP CONSTRUCTION IS UNDERWAY!



**MISSOURI RIVER WET WELL** 

**MAIN TRANSMISSION PIPELINE** 

**SHEYENNE RIVER DISCHARGE STRUCTURE** 

# **GROUNDBREAKING CEREMONY** TRANSMISSION PIPELINE



### **2021 Groundbreaking**

**Awarded Five Construction Contracts to Date** 

**FUTURE TOURS PLANNED** 





# PIPELINE EASEMENT LANDOWNER CONTACT



SEND LETTER EXPLAINING PROJECT AND WHAT WE NEED (PROPERTY ACCESS, REQUEST TO SIGN OPTION OR EASEMENT)

Certified mail with delivery confirmation receipt



LAND AGENT MAKES/ATTEMPTS CONTACT THROUGH CALL OR IN-PERSON

Land agents attempt contact 3-5 times



QUESTIONS DIRECTED TO GARRISON DIVERSION DISTRICT ENGINEER

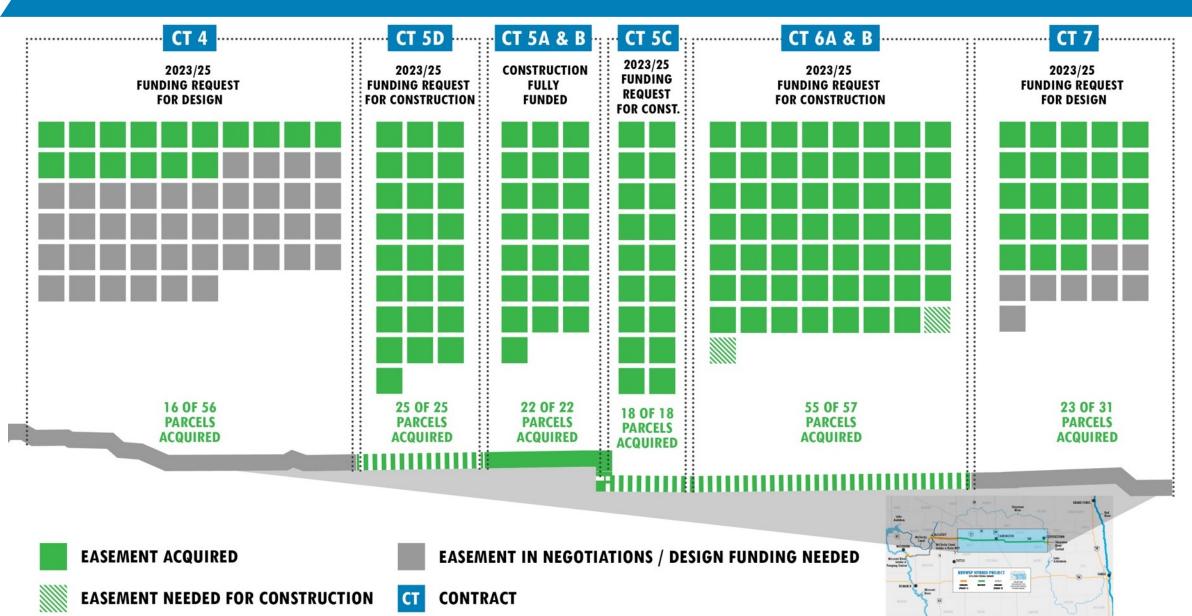
Each contact is recorded



**RESOLUTION OF LAST RESORT** 

Last contact made through attorney letter

### PROPERTY ACQUISITION STATUS





## 2023 LEGISLATIVE REQUEST SUMMARY

> 2023-25 BIENNIUM REQUEST

\$255 Million (75% State Cost-Share)

> STATE FINANCING OF LOCAL COST-SHARE

Capitalization of Water Infrastructure Revolving Loan Fund

> STATE COMMITMENT TO IMPLEMENT TOTAL PROJECT

Look Beyond the 23/25 Biennium Work Plan



**2023-25 Workplan** 

Shovel-Ready Construction (43 Miles of Pipeline!)

Continued Design (40 Miles of Pipeline)

ENDAWS Phase 1 Design (32 Miles of Pipeline)

# THANK YOU!



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









@RRVWSP



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