

METRO FLOOD DIVERSION AUTHORITY
Thursday, January 18, 2018
3:30 PM
Fargo City Commission Room
Fargo City Hall
200 3rd Street North

1. Call to order
2. Election of Vice Chair and Designation of Secretary Action
3. Approve minutes from previous meeting Item 3. Action
4. Approve order of agenda Action
5. Management Information
 - a. PMC report
 - b. Corps of Engineers update
6. Administrative/Legal Information/action
 - a. Adopt meeting schedule for 2018 Item 6a.
7. Public Outreach Information
 - a. Committee report
 - b. Business Leaders Task Force update
8. Land Management Information
 - a. Committee report
9. Finance Information/action
 - a. Committee report Item 9a.
 - b. Voucher approval Item 9b.
 - c. Recommended contracting actions Item 9c.
10. Other Business
11. Next Meeting – February 22, 2018
12. Governors’ Task Force Report Information
13. Executive session pursuant to N.D.C.C. § 44-04-19.1, subsections 2 and 9, to consult with its Attorneys regarding the ongoing litigation in the matters of Richland/Wilkin JPA and MNDNR v. the United States Army Corps of Engineers and Fargo Moorhead Flood Diversion Authority as Intervenor, Civil File No. 0:13-cv-02262-JRT-LIB and the contested case hearing before the Minnesota Office of Administrative Hearings regarding the MNDNR permit for Metro Flood Diversion Authority
14. Adjournment

cc: Local Media

**METRO FLOOD DIVERSION AUTHORITY
DECEMBER 21, 2017—3:30 PM**

1. MEETING TO ORDER

A meeting of the Metro Flood Diversion Authority was held Thursday, December 21, 2017, at 3:30 PM in the Fargo City Commission Room with the following members present: Fargo City Mayor Tim Mahoney; Fargo City Commissioner Dave Piepkorn; Fargo City Commissioner Tony Grindberg; Moorhead City Mayor Del Rae Williams; Moorhead City Council Member Chuck Hendrickson; Moorhead City Council Member Joel Paulsen; Cass County Commissioner Mary Scherling; Cass County Commissioner Chad M. Peterson; Cass County Commission representative Darrell Vanyo; Clay County Commissioner Kevin Campbell; Clay County Commissioner Grant Weyland; Cass County Joint Water Resource District Manager Rodger Olson; and West Fargo City Commissioner Mike Thorstad.

2. MINUTES APPROVED

MOTION, passed

Mr. Weyland moved and Mr. Paulsen seconded to approve the minutes from the November 16, 2017, meeting as presented. Motion carried.

3. AGENDA ORDER

MOTION, passed

Mr. Grindberg moved and Mr. Campbell seconded to approve the order of the agenda with the addition of Item 4c. “Establish Operations Committee”. Motion carried.

4. GOVERNORS’ TASK FORCE REPORT

Levi Bachmeier, Policy Advisor to North Dakota Governor Doug Burgum, provided a brief update on the Governors’ Diversion Task Force, which met for the final time last week. The final report is not yet complete, so Mr. Bachmeier will present the report at the next Diversion meeting in January. The report will consist of four components which include an executive summary, high level summary, individual statements of task force members, and statements from Governor Doug Burgum and Governor Mark Dayton.

Mr. Bachmeier also said both governors stressed the importance for residents upstream and downstream to have input into the project, and asked the Diversion Board to strongly consider appointing an upstream and a downstream representative to its board. Attorney John Shockley said there is an open seat for an upstream member to be appointed jointly by Richland County and Wilkin County through the end of 2020 that has not been filled.

Mr. Vanyo said some of the recommendations discussed by the task force would increase the project cost by several hundred million dollars, provide less protection for structures, and affect more residents at a higher risk if the levee is lengthened. He strongly recommends the Diversion Board give careful consideration to where additional funding would come from and if there will be an assurance from the Minnesota DNR that they will issue a permit for the project.

Mr. Shockley said the Minnesota DNR has asked for a formal request from the Diversion Board for the DNR to continue working with the Technical Advisory Group (TAG) to review proposed southern embankment alignments and other matters related to permitting. He prepared a letter to the Minnesota DNR along with a resolution requesting the DNR to continue working with the TAG. Mr. Grindberg supports the resolution but suggested a paragraph be added to include a deadline for work to be completed. Board members were in consensus to add a section that would authorize the TAG to meet for the next 60 days and report back to the Diversion Board.

MOTION, passed

Mr. Campbell moved and Mr. Peterson seconded to authorize a letter be sent to the Minnesota DNR and adopt a Resolution Requesting the Minnesota Department of Natural Resources Continue Working with the Technical Advisory Group on a Proposed Alignment for the Southern Embankment of the FM Diversion Project and Other Matters Related to the Minnesota DNR Permitting of the Project with the inclusion of the 60-day deadline. On roll call vote, the motion carried unanimously.

Establish Operations Committee

Mr. Campbell suggested an Operations Committee be established to focus on future operations regarding the project design and permitting.

MOTION, passed

Mr. Campbell moved and Mr. Weyland seconded to establish an Operations Committee to report back to the Diversion Board regarding permitting in Minnesota and North Dakota. Discussion: Mr. Campbell suggested Mr. Shockley work on committee membership for consideration at the next board meeting. There was discussion that the committee include individuals from the Diversion Board, Corps of Engineers, Minnesota DNR and Technical Advisory Group. On roll call vote, the motion carried unanimously.

5. DISCUSSION ON UPSTREAM AND DOWNSTREAM MEMBERSHIP

Board members discussed the possible addition of an upstream and a downstream member to the Diversion Board. Mr. Piepkorn said as mentioned before there is an unfilled seat on the board for an upstream member. There was discussion about whether they would be voting or non-voting members and that the Joint Powers Agreement would need to be amended and approved by all member entities to address any changes in membership.

Mr. Peterson said there seemed to be an implication during the Governors' Task Force meetings that residents who live upstream have not had a voice in the project, which he said is not true considering the open seat on the board. He feels the only benefit to adding the members is to provide them with plausible deniability because they would need to be present at meetings and listen to information about the project. He believes they should be able to vote if they are appointed to the Diversion Board.

Mr. Campbell understands the comments made by Mr. Peterson, however, he is open to listening to the governors' recommendations regarding a change in membership.

Mr. Shockley said the board may have a better direction on how to proceed with this issue after they receive an update during the executive session.

6. MANAGEMENT UPDATE***Program management consultant (PMC) report***

Robert Cowen from CH2M provided an update on activities over the last month which include providing support as the Governor's Task Force prepares its report; presentation of the FY2018 budget; and continuation OHB home removals. The priorities for next month include starting the flowage easement valuation study and coordinating outreach efforts as the report is released by the Governors' Task Force.

Mr. Cowen provided brief a financial update on the overall program status and said \$406 million has been expended to date. He said \$73 million has been expended out of the \$240 million FY2017 budget.

Mr. Cowen provided a construction update on continued work on in-town levees, and Oxbow home demolition and relocation projects. A suspension of work to cease was issued as of December 31, 2017, on OHB levee construction until clarification is received from the Federal Court regarding whether work may continue in 2018.

7. CORPS OF ENGINEERS UPDATE

Terry Williams, Corps of Engineers Project Manager, was present. She said the Corps of Engineers will be supportive of the path forward once an alignment is chosen and will be ready to resume work on the project.

8. ADMINISTRATIVE/LEGAL UPDATE

Executive Director Position Profile

Michael Redlinger, Co-Executive Director and Assistant Fargo City Administrator, discussed the position profile used in the previous Executive Director search. The process to reboot the search would not take as much as time because a lot of the ground work has been done by CPS Consulting. He said the board could choose to continue working with CPS Consulting and/or a local firm in the search, or could choose to start over with the process.

Mrs. Scherling and Mr. Thorstad said they would like the search to not focus solely on engineering backgrounds since many local engineers are already involved with the project. They believe someone with administrative experience is important. Mr. Piepkorn said the board should look for the best person to manage this multibillion dollar project and is not sure this can be done locally. Mr. Peterson said someone with a legal and/or construction management background would be beneficial and suggested the board continue with CPS Consulting in a new search. Mr. Peterson also believes the qualifications could be broadened but still require 15 years of experience.

Mr. Redlinger will revise the position profile and work with the same subcommittee used the last time to review the profile before the full board approves it in order to move forward with the process.

Crown Appraisals Master Services Agreement

Eric Dodds from AE2S said a Master Services Agreement (MSA) with Crown Appraisals has been drafted to begin the process of valuing flowage easements. The Finance Committee and Land Management Committee approved the MSA at their meetings yesterday.

MOTION, passed

Mr. Grindberg moved and Mr. Peterson seconded to approve the Master Services Agreement with Crown Appraisals. On roll call vote, the motion carried unanimously.

9. PUBLIC OUTREACH UPDATE

Committee report

The Public Outreach Committee met on December 20th. Mr. Olson said the committee discussed public outreach efforts with residents in the event the project alignment changes and the importance of keeping everyone informed. Rocky Schneider from AE2S provided a handout on the 2017 year in review regarding website and social media analytics.

Business Leaders Task Force

Mr. Schneider said the February Eggs & Issues event hosted by the Chamber of Commerce will include a wrap-up of work conducted by the Governors' Diversion Task Force.

10. LAND MANAGEMENT UPDATE

The Land Management Committee met on December 20th. Mrs. Scherling said most of the discussion focused on the Crown Appraisals MSA, and need for accurate flowage easement values.

11. FINANCE UPDATECommittee report

The Finance Committee met on December 20th. Mr. Grindberg briefly discussed the financial report and said \$406 million in total has been expended for the project. The net cash position is \$70 million.

Voucher approval

The bills for the month are with Studio 7 Productions, Inc. for Governors' Task Force meeting expenses; Erik R. Johnson & Associates, Ltd. for legal services; Springsted, Inc. for financial services; Dorsey & Whitney LLP for legal services; Ohnstad Twichell, P.C. for legal services; North Dakota Water Users Association for membership dues; Gray Pannell & Woodward LLP for legal services; Cass County Government for traffic control reimbursement; and the Cass County Joint Water Resource District (CCJWRD) for costs associated with the Metro Flood Diversion, Diversion Project Assessment District, OHB levee, Oxbow Golf and Country Club, and in-town levees.

MOTION, passed

Mr. Grindberg moved and Mr. Campbell seconded to approve the vouchers received through December 14, 2017, in the amount of \$4,223,013.22. On roll call vote, the motion carried unanimously.

Recommended Contracting Actions

Mr. Cowen discussed the following contracting actions, which were approved by the Finance Committee and Technical Team:

- Crown Appraisals, Inc. (Task Order 1 Amendment 0 – Flowage Easements Valuation Phase 1)—appraisal services for Flowage Easements Valuation Phase 1 in the amount of \$500,000.

MOTION, passed

Mr. Grindberg moved and Mr. Peterson seconded to approve the appropriation of funds for the task order as outlined. On roll call vote, the motion carried unanimously.

- Industrial Builders, Inc. (Change Order 07 – 2nd Street North, North of Pump Station)—final unit price quantity balancing, additional fiber optic conduit and cable, additional sidewalk traffic control, and additional vibration monitoring in the amount of \$6,875.42;
- Meyer Contracting (Change Order 02 – OHB Ring Levee Phase C and D)—incorporate previously approved work change directives, additional borrow pit striping, additional utility removals, protection, relocations and damage repair; and add temporary access road in the amount of \$508,207.56;
- Industrial Builders, Inc. (Change Order 12 – 2nd Street North Pump Station)—modify lubrication system, add submersible transducer, and furnish track rack guides in the amount of \$12,898.48.

MOTION, passed

Mr. Grindberg moved and Mr. Vanyo seconded to approve the appropriation of funds for the change orders as outlined. On roll call vote, the motion carried unanimously.

12. FY2018 CASH BUDGET

Mr. Cowen said the Finance Committee approved the FY2018 cash budget in the amount of \$82.6 million. He said after an alternative project is developed, a revised budget will be proposed to reflect planned program spending for the remainder of FY2018.

MOTION, passed

Mr. Grindberg moved and Mr. Weyland seconded to approve the FY2018 budget as outlined. On roll call vote, the motion carried unanimously.

13. 2018 MEETING SCHEDULE

Mr. Dodds discussed the 2018 meeting schedule for the board to consider. The Diversion Board is scheduled to meet the fourth Thursday of each month with the exception of January, November and December.

Mayor Mahoney said the plan is to hold one board meeting per month unless two are needed to consider bills or other business. Board members were in agreement with the meeting schedule as proposed.

14. OTHER BUSINESS, Outgoing board members

Mr. Mahoney presented a gift to Mark Brodshaug, who will retire at the end of this month from the Southeast Cass Water Resource Board and Cass County Joint Water Resource Board. He also served on the Finance Committee. He thanked him for his work over the past several years.

Mr. Mahoney presented gifts to Darrell Vanyo, whose term on the Diversion Authority Board ends this month. Mr. Vanyo served on the board since its inception in 2009.

Mr. Vanyo provided a project commentary regarding his thoughts on flood protection for the area, and the future of the project. He thanked everyone for allowing him to serve on the board.

15. EXECUTIVE SESSION

North Dakota state law allows the Board to meet in private session to consult legal counsel to discuss ongoing litigation and contract negotiations.

MOTION, passed

Mr. Piepkorn moved and Mr. Peterson seconded that the Metro Flood Diversion Authority meet in Executive Session pursuant to N.D.C.C. § 44-04-19.1, subsections 2 and 9, to consult with its Attorneys regarding the ongoing litigation in the matters of Richland/Wilkin JPA and MNDNR v. the United States Army Corps of Engineers and Fargo Moorhead Flood Diversion Authority as Intervenor, Civil File No. 0:13-cv-02262-JRT-LIB and the contested case hearing before the Minnesota Office of Administrative Hearings regarding the MNDNR permit for Metro Flood Diversion Authority. All voting in favor, the motion carried unanimously.

Diversion Authority Board members, key administrative staff, Attorney Robert Cattnach, and Attorney John Shockley moved to the River Room at 5:30 PM.

The Executive Session ended at 6:30 PM and the meeting was re-opened to the public.

16. ADJOURNMENT

MOTION, passed

On motion by Mr. Campbell, seconded by Mr. Hendrickson, and all voting in favor, the meeting was adjourned at 6:31 PM.

2018



MEETINGS CALENDAR - V.2

- DIVERSION BOARD OF AUTHORITY AT 3:30 P.M.
- PUBLIC OUTREACH COMMITTEE 1:30 P.M.
- LAND MANAGEMENT COMMITTEE 3 P.M.
- FINANCE COMMITTEE 4 P.M.

JANUARY*

SUN	MON	TUE	WED	THU	FRI	SAT
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FEBRUARY

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MARCH

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APRIL

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MAY

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JUNE

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JULY

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AUGUST

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SEPTEMBER

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OCTOBER

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28	29	30	31			

NOVEMBER*

SUN	MON	TUE	WED	THU	FRI	SAT
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DECEMBER*

SUN	MON	TUE	WED	THU	FRI	SAT
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FM Metropolitan Area Flood Risk Management Project
 Fiscal Accountability Report Design Phase (Fund 790)
 As of 12/31/2017

	2011	2012	2013	2014	2015	2016	2017	Cumulative Totals
Revenues								
City of Fargo	443,138	7,652,681	7,072,961	19,373,131	28,310,373	35,212,877	31,790,784	129,855,946
Cass County	443,138	7,652,681	7,072,961	19,373,131	28,310,373	111,715,540	14,193,826	188,761,649
State Water Commission			3,782,215	602,918	31,056,740	101,436,302	23,650,143	160,528,318
Other Agencies	98,475	1,700,595	1,571,769	4,305,140	6,291,194	(13,260,368)	-	706,805
Reimbursements						33,880	49,699	83,579
Lease/Rental Payments			17,358	154,180	180,341	260,806	350,720	963,405
Asset Sales				616,774	315,892	175,190	117,079	1,224,935
Miscellaneous			226	626	427		470,215	471,494
Total Revenues	984,751	17,005,957	19,517,490	44,425,900	94,465,340	235,574,227	70,622,467	482,596,131
Expenditures								
7905 Army Corp Payments	-	-	875,000	1,050,000	2,725,000	47,279,000	1,230,000	53,159,000
7910 WIK - Administration	107,301	331,321	77,614	169,019	282,227	545,555	500,885	2,013,922
7915 WIK - Project Design	149,632	5,366,147	3,220,859	9,118,723	4,660,226	2,719,505	2,631,656	27,866,748
7920 WIK - Project Management	679,037	7,223,650	4,695,477	3,579,339	4,500,955	8,464,392	9,655,268	38,798,118
7925 WIK - Recreation		163,223					-	163,223
7930 LERRDS - North Dakota	48,664	3,843,620	2,763,404	17,013,358	55,948,209	46,717,049	45,787,850	172,122,154
7931 LERRDS - Minnesota		27,996	287,907	13,068	32,452	1,815,566	35,457	2,212,446
7940 WIK Mitigation - North Dakota				587,180			225,293	812,473
7941 WIK Mitigation - Minnesota							-	-
7950 Construction - North Dakota				1,738,638	19,269,055	42,263,916	5,976,235	69,247,844
7951 Construction - Minnesota							-	-
7952 Construction - O/H/B				11,282,504	5,044,001	776,720	7,365,462	24,468,685
7955 Construction Management				556,209	2,867,422	5,182,366	1,498,050	10,104,047
7980 Operations & Maintenance							6,403	6,403
7990 Project Financing		50,000	70,000	216,376	566,600	5,435,289	8,305,600	14,643,865
7995 Project Eligible - Off Formula Costs						-	-	-
7999 Non Federal Participating Costs	116					-	221,568	221,684
Total Expenditures	984,750	17,005,957	11,990,261	45,324,414	95,896,147	161,199,358	83,439,727	415,840,612

FM Metropolitan Area Flood Risk Management Project
Statement of Net Position
December 31, 2017

	<u>Amount</u>
Assets	
Cash	\$ 63,319,863
Receivables	
State Water Commission *	3,868,993
Proceeds from Oxbow Lot Sales	1,125,235
Total assets	<u>68,314,091</u>
Liabilities	
Vouchers payable	-
Retainage payable	1,558,573
Total liabilities	<u>1,558,573</u>
NET POSITION	<u><u>\$ 66,755,519</u></u>

* Receivable balance is as of 11.30.2017

FM Metropolitan Area Flood Risk Management Project
 FY 2017 Summary Budget Report (In Thousands)
 As of 31 December 2017

	FY 2017 Approved Budget	Current Month	Fiscal Year To Date	% Expended	Outstanding Encumbrances	Remaining Budget Balance
Revenue Sources						
City of Fargo	-	2,432	31,791			
Cass County	-	1,570	14,194			
State of ND - 50 % Match	-	2,483	14,201			
State of ND - 100% Match	-	-	9,450			
State of Minnesota	-	-	-			
Other Agencies	-	-	-			
Financing Proceeds	-	-	-			
Reimbursements	-	0	50			
Sales of Assets	-	0	117			
Property Income	-	39	351			
Miscellaneous	-	10	470			
Total Revenue Sources	241,311	6,534	70,622	-	-	170,690
Funds Appropriated (Rev1 - 27Apr2017)						
Diversion Channel & Assoc. Infrastructure	8,801	287	9,387.82	107%	3,748	(4,335)
Southern Embankment & Assoc. Infrastructure	1,230	1	1,293.86	105%	-	(64)
Other Mitigation Projects	24,246	3,206	8,250.92	34%	351	15,644
In-Town Flood Protection	46,176	749	7,520.29	16%	541	38,114
Enabling Work / Other	9,811	511	934.82	10%	2,927	5,949
Land Acquisition & Mitigation	107,420	3,871	38,566.85	36%	30,951	37,901
Engineering & Design Fees	10,694	541	3,412.43	32%	7,490	(209)
Program Management	17,247	439	12,149.34	70%	11,826	(6,729)
Contingency	7,449	-	-	0%	-	7,449
Debt Service	8,137	165	1,916.98	24%	-	6,220
Maintenance	100	-	6.40	6%	-	94
Total Appropriations	241,311	9,769	83,440	35%	57,835	100,037

Summary Of Expenses
EXP-2017-12

Account Number	Check Date	Check Number	Vendor Name	Transaction Amount	Description	Project Number	Project Description
790-0000-206.10-00	12/21/2017	283684	INDUSTRIAL BUILDERS INC	\$21,944.03		V02818	MICKELSON LEVEE EXTENSION
	12/28/2017	283836	Schmidt and Sons Inc.	\$11,323.10		V01701	ND LAND PURCH-OUT OF TOWN
Retainage				\$33,267.13			
790-7910-429.33-20	12/26/2017	JB121700	City of Fargo	\$4,723.26	CHARGE FOR COF TIME-12/17	V00102	General & Admin. WIK
Other Services / Accounting Services				\$4,723.26			
790-7910-429.33-25	12/7/2017	283345	Turman & Lang	\$6,073.20		V02407	OXBOW MOU-LEGAL SERVICES
	12/28/2017	283857	ERIK R JOHNSON & ASSOCI	\$3,815.00		V00102	General & Admin. WIK
	1/4/2018	650	OHNSTAD TWICHELL PC	\$39,904.21		V00102	General & Admin. WIK
Other Services / Legal Services				\$49,792.41			
790-7910-429.38-68	1/4/2018	650	FREDRIKSON & BYRON, PA	\$3,500.00		V00102	General & Admin. WIK
Other Services / Lobbyist				\$3,500.00			
790-7910-429.59-10	12/28/2017	283912	ND WATER USERS ASSOCIA	\$5,000.00		V00102	General & Admin. WIK
Education / Due & Membership Instate				\$5,000.00			
790-7915-429.33-05	12/7/2017	283385	URS CORPORATION	\$11,112.50		V01003	CULTURAL RESOURCES INVEST
	12/14/2017	283504	HOUSTON-MOORE GROUP L	\$15,922.98		V01608	WORK-IN-KIND (WIK)
	12/14/2017	283504	HOUSTON-MOORE GROUP L	\$53,580.24		V01613	LEVEE DESIGN & SUPPORT
	12/14/2017	283504	HOUSTON-MOORE GROUP L	\$189.00		V01614	TRANS/DRAINAGE MASTER PLN
	12/14/2017	283504	HOUSTON-MOORE GROUP L	\$58,878.29		V01620	SEAI I-29 GRADE RAISE DESIGN
	12/14/2017	283504	HOUSTON-MOORE GROUP L	\$3,246.50		V01622	Mitigation Support Services
	12/14/2017	283504	HOUSTON-MOORE GROUP L	\$6,313.84		V01607	RECREATION/USE MASTER PLN
	12/21/2017	283681	HOUSTON-MOORE GROUP L	\$79,020.75		V01616	PERMIT SUBMITTAL PREP
	12/21/2017	283776	URS CORPORATION	\$2,753.75		V01003	CULTURAL RESOURCES INVEST
Other Services / Engineering Services				\$231,017.85			
790-7920-429.33-05	12/21/2017	283681	HOUSTON-MOORE GROUP L	\$87,960.06		V01601	HMG - PROJECT MANAGEMENT
Other Services / Engineering Services				\$87,960.06			
790-7920-429.33-79	12/7/2017	283240	CH2M Hill Engineers Inc	\$677,485.06		V00207	
	12/7/2017	283345	MOORE ENGINEERING INC	\$3,306.45	Moore Engineering - Project Managem	V02421	OXBOW MOU-MOORE PROJ MG
Other Services / Construction Management				\$680,791.51			

Summary Of Expenses
EXP-2017-12

Account Number	Check Date	Check Number	Vendor Name	Transaction Amount	Description	Project Number	Project Description
790-7930-429.33-05	12/14/2017	283504	HOUSTON-MOORE GROUP L	\$476.00		V01606	LAND MANAGEMENT SERVICES
	12/28/2017	283836	Prosource Technologies, Inc	\$7,983.40		V01203	Cass Joint Water OHB
	12/28/2017	283836	ULTEIG ENGINEERS INC	\$528.50		V01201	Cass Joint Water ROE
Other Services / Engineering Services				\$8,987.90			
790-7930-429.33-06	12/28/2017	283836	BRAUN INTERTEC CORP	\$2,676.25		V01203	Cass Joint Water OHB
Other Services / Quality Testing				\$2,676.25			
790-7930-429.33-25	12/28/2017	283836	Larkin Hoffman Attorneys	\$1,360.00	LARKIN HOFFMAN	V01201	Cass Joint Water ROE
	12/28/2017	283836	OHNSTAD TWICHELL PC	\$33,888.55	OHNSTAD TWICHELL, P.C.	V01201	Cass Joint Water ROE
	12/28/2017	283836	OHNSTAD TWICHELL PC	\$8,745.18	OHNSTAD TWICHELL, P.C.	V01203	Cass Joint Water OHB
	1/4/2018	650	OHNSTAD TWICHELL PC	\$5,152.50		V00103	General & Admin. LERRDS
Other Services / Legal Services				\$49,146.23			
790-7930-429.38-99	12/28/2017	283836	ALL AMERICAN PLUMBING	\$340.00	ALL AMERICAN PLUMBING AND	V01703	ND LAND PURCH - IN TOWN
	12/28/2017	283836	TRANE US INC.	\$237.50	TRANE US INC.	V01703	ND LAND PURCH - IN TOWN
Other Services / Other Services				\$577.50			
790-7930-429.62-50	12/28/2017	283836	XCEL ENERGY-FARGO	\$808.40	XCEL ENERGY	V01703	ND LAND PURCH - IN TOWN
Energy / Electricity				\$808.40			
790-7930-429.62-51	12/28/2017	283836	Cass County Electric Cooperativ	\$253.08	CASS COUNTY ELECTRIC COOP	V01701	ND LAND PURCH-OUT OF TOWN
	12/28/2017	283836	XCEL ENERGY-FARGO	\$485.60	XCEL ENERGY	V01703	ND LAND PURCH - IN TOWN
Energy / Electricity				\$738.68			
790-7930-429.62-52	12/28/2017	283836	DEANS BULK SERVICE INC.	\$198.47	DEANS BULK SERVICE INC.	V01701	ND LAND PURCH-OUT OF TOWN
Relocation / Commercial Buildings				\$198.47			
790-7930-429.67-12	12/28/2017	283836	Landscapes Unlimited	\$452,361.56	OXBOW COUNTRY CLUB (OCC)	V01204	Cass Joint Water OCC
	12/28/2017	283836	Landscapes Unlimited	\$166,816.33		V01204	Cass Joint Water OCC
Relocation / Commercial Buildings				\$619,177.89			

Summary Of Expenses
EXP-2017-12

Account Number	Check Date	Check Number	Vendor Name	Transaction Amount	Description	Project Number	Project Description
790-7930-429.71-30	12/28/2017	283836	0229 - COSSETTE 1	\$1,216,510.30	THE TITLE COMPANY, split OINs 2	V01701	ND LAND PURCH-OUT OF TOWN
	12/28/2017	283836	0230 - COSSETTE 1	\$1,216,510.30	THE TITLE COMPANY, split OINs 2	V01701	ND LAND PURCH-OUT OF TOWN
	12/28/2017	283836	1223 - OHNSTAD	\$200,135.00	THE TITLE COMPANY	V01701	ND LAND PURCH-OUT OF TOWN
	12/28/2017	283836	1955 - HAUX	\$248,677.89	THE TITLE COMPANY	V01701	ND LAND PURCH-OUT OF TOWN
Land / Land Purchases				\$2,881,833.48			
790-7930-429.73-20	12/28/2017	283836	Schmidt and Sons Inc.	\$34,072.00		V01701	ND LAND PURCH-OUT OF TOWN
Infrastructure / Site Improvements				\$34,072.00			
790-7931-429.38-99	12/28/2017	283836	ALL AMERICAN PLUMBING	\$750.00	ALL AMERICAN PLUMBING AND	V02302	MN LAND PURCHASE-HARDSHIP
Other Services / Other Services				\$750.00			
790-7931-429.62-51	12/28/2017	283836	RED RIVER VALLEY COOPE	\$157.34	RED RIVER VALLEY COOP POW	V02302	MN LAND PURCHASE-HARDSHIP
Energy / Electricity				\$157.34			
790-7931-429.62-52	12/28/2017	283836	DEANS BULK SERVICE INC.	\$301.79	DEANS BULK SERVICE INC.	V02302	MN LAND PURCHASE-HARDSHIP
Energy / Propane				\$301.79			
790-7940-429.33-06	12/7/2017	283233	BRAUN INTERTEC CORP	\$849.00		V00402	
	12/7/2017	283233	BRAUN INTERTEC CORP	\$91,835.00	B113185 replaces B111670, both invoi	V00402	
Other Services / Quality Testing				\$92,684.00			
790-7950-429.33-05	12/14/2017	283504	HOUSTON-MOORE GROUP L	\$42,747.76		V01624	
Other Services / Engineering Services				\$42,747.76			
790-7950-429.38-99	12/28/2017	283838	Northstar Safety Inc.	\$1,480.00		V04201	
Other Services / Other Services				\$1,480.00			
790-7950-429.73-52	12/21/2017	283684	INDUSTRIAL BUILDERS INC	\$201,656.42		V02812	2ND ST NORTH FLOODWALL
Infrastructure / Flood Control				\$201,656.42			
790-7950-429.73-59	12/7/2017	283359	Riley Bros	\$444,855.53		V04301	
Infrastructure / Street & Roadway System				\$444,855.53			
790-7950-429.73-66	12/7/2017	283272	Hoffman & McNamara Co.	\$119,155.47		V02823	
Infrastructure / Landscaping				\$119,155.47			

Summary Of Expenses
EXP-2017-12

Account Number	Check Date	Check Number	Vendor Name	Transaction Amount	Description	Project Number	Project Description
790-7952-429.33-05	12/21/2017	283681	HOUSTON-MOORE GROUP L	\$228,371.08		V01623	
Other Services / Engineering Services				\$228,371.08			
790-7952-429.33-79	12/28/2017	283836	Gary Killebrew	\$13,000.00		V01204	Cass Joint Water OCC
Other Services / Construction Management				\$13,000.00			
790-7952-429.73-52	12/21/2017	283708	Meyer Contracting	\$2,670,106.18		V04401	
Infrastructure / Flood Control				\$2,670,106.18			
790-7952-429.73-70	12/14/2017	283450	Cass Rural Water	\$106,667.50	Second payment request from Cass Rur	V05001	
	12/28/2017	283836	Cass County Electric Cooperativ	\$242,917.00	CASS COUNTY ELECTRIC COOP	V01203	Cass Joint Water OHB
Infrastructure / Utilities				\$349,584.50			
790-7955-429.33-05	12/14/2017	283504	HOUSTON-MOORE GROUP L	\$309,729.28		V02806	CONSTRUCTION SVCS WP42
	12/21/2017	283681	HOUSTON-MOORE GROUP L	\$80,791.98		V02806	CONSTRUCTION SVCS WP42
Other Services / Engineering Services				\$390,521.26			
790-7990-429.33-05	12/21/2017	283681	HOUSTON-MOORE GROUP L	\$69,529.52		V01621	P3 PROCUREMENT SUPPORT
Other Services / Engineering Services				\$69,529.52			
790-7990-429.33-25	12/28/2017	283874	GRAY PANNELL & WOODW	\$77,500.00		V00102	General & Admin. WIK
	1/4/2018	650	OHNSTAD TWICHELL PC	\$2,391.24		V00102	General & Admin. WIK
Other Services / Legal Services				\$79,891.24			
790-7990-429.34-55	12/7/2017	283293	Ernst & Young	\$3,494.83		V03301	PPP FINANCL ADVISORY SVCS
	12/28/2017	283940	SPRINGSTED INCORPORATE	\$12,952.93		V03101	Financial Advisory Services
Technical Services / Financial Advisor				\$16,447.76			
790-7990-520.80-20	12/21/2017	283645	Wells Fargo	\$109,958.34		V02906	
	12/15/2017	JB121700	Wells Fargo	\$55,044.69	11.1.17 WF INTEREST PMT	V02905	
Debt Service / Interest On Bonds				\$165,003.03			
790-7999-429.33-05	12/7/2017	283234	BUFFALO-RED RIVER WATE	\$60,746.00		V02107	
	12/7/2017	283234	BUFFALO-RED RIVER WATE	\$86,800.00		V02102	
	12/7/2017	283234	BUFFALO-RED RIVER WATE	\$74,022.00		V02106	
Other Services / Engineering Services				\$221,568.00			

Summary Of Expenses
EXP-2017-12

Account Number	Check Date	Check Number	Vendor Name	Transaction Amount	Description	Project Number	Project Description
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Total Amount Invoiced this period: \$9,802,079.90
\$33,267.13 Less Paid Retainage
\$9,768,812.77 Total Less Paid Retainage

FM Metropolitan Area Flood Risk Management Project
Cumulative Vendor Payments Since Inception
As of December 31, 2017

Vendor	Approved Contract/Invoice Amount	Liquidated	Outstanding Encumbrance	Purpose
CASS COUNTY JOINT WATER RESOUR	\$ 189,614,601.11	\$ 164,249,214.05	\$ 25,365,387.06	Land Purchases, O/H/B Ring Levee, DPAC, & ROE
ARMY CORP OF ENGINEERS	\$ 53,159,000.00	\$ 53,159,000.00	\$ -	Local Share
CH2M HILL ENGINEERS INC	\$ 50,450,594.31	\$ 39,717,759.48	\$ 10,732,834.83	Program, Project, Construction and Land Management
HOUSTON-MOORE GROUP LLC	\$ 43,510,099.78	\$ 36,499,192.13	\$ 7,010,907.65	Engineering Services
INDUSTRIAL BUILDERS INC	\$ 39,516,601.93	\$ 39,220,904.56	\$ 295,697.37	Const - 2nd St North Pump Station Project and 2nd Street Floodwall
INDUSTRIAL CONTRACT SERVICES I	\$ 17,576,871.19	\$ 17,493,762.16	\$ 83,109.03	Const - 4th St Pump Station and 2nd Street Floodwall
OXBOW, CITY OF	\$ 15,509,893.85	\$ 14,825,939.01	\$ 683,954.84	MOU Agreement
MEYER CONTRACTING INC	\$ 10,915,067.24	\$ 5,960,176.87	\$ 4,954,890.37	Construction/Demolition Services
ASHURST LLP	\$ 6,715,133.70	\$ 3,868,616.16	\$ 2,846,517.54	PPP (P3) Legal Counsel
DORSEY & WHITNEY LLP	\$ 5,440,068.22	\$ 5,440,068.22	\$ -	Legal Services
RILEY BROTHERS CONSTRUCTION	\$ 3,677,920.95	\$ 751,409.95	\$ 2,926,511.00	Construction - County Roads 16 & 17 Realignment
JP MORGAN CHASE-LOCKBOX PROCES	\$ 3,377,000.00	\$ 2,531,269.79	\$ 845,730.21	Financial Advisor
CENTURYLINK	\$ 2,586,742.00	\$ 2,586,742.00	\$ -	Utility Relocation
MINNESOTA DNR	\$ 2,325,472.35	\$ 2,325,472.35	\$ -	EIS Scoping
LANDWEHR CONSTRUCTION INC	\$ 2,316,627.66	\$ 2,239,550.82	\$ 77,076.84	Const - In-Town Demolition Contracts
OHNSTAD TWICHELL PC	\$ 2,171,738.68	\$ 2,171,738.68	\$ -	ROE and Bonding Legal Fees
CASS COUNTY TREASURER	\$ 2,134,392.60	\$ 2,134,392.60	\$ -	Property Taxes and Bank Loan Advance DS Payments
CITY OF FARGO	\$ 2,012,488.28	\$ 2,012,488.28	\$ -	Digital Imagery Project, Utility Relocation, Accounting Svcs, and Bank Loan Advance DS Payments
URS CORPORATION	\$ 1,922,118.42	\$ 1,802,018.43	\$ 120,099.99	Engineering Services
KENNELLY & OKEEFFE	\$ 1,729,110.56	\$ 1,729,110.56	\$ -	Home Buyouts
HOUGH INCORPORATED	\$ 1,726,847.35	\$ 1,634,666.45	\$ 92,180.90	Const - 2nd Street South Flood Control Const - El Zagal Flood Risk Management
REINER CONTRACTING INC	\$ 1,599,646.21	\$ 1,599,646.21	\$ -	Electronic Data Mgmt and Record Storage System
ACONEX (NORTH AMERICA) INC	\$ 1,322,146.00	\$ 306,856.00	\$ 1,015,290.00	Utility Relocation
CONSOLIDATED COMMUNICATIONS	\$ 1,063,096.11	\$ 1,063,096.11	\$ -	Materials Testing
TERRACON CONSULTING ENGINEERS	\$ 828,792.49	\$ 828,718.42	\$ 74.07	Utility Relocation
XCEL ENERGY	\$ 753,515.88	\$ 753,515.88	\$ -	Engineering Services
MOORE ENGINEERING INC	\$ 662,468.17	\$ 662,468.17	\$ -	Loan Advance DS Payments
US BANK	\$ 626,849.03	\$ 626,849.03	\$ -	Wetland Mitigation Credits
DUCKS UNLIMITED	\$ 587,180.00	\$ 587,180.00	\$ -	Engineering Services
HOUSTON ENGINEERING INC	\$ 576,669.57	\$ 576,669.57	\$ -	Legal Services
ERIK R JOHNSON & ASSOCIATES	\$ 534,857.28	\$ 534,857.28	\$ -	Retention Projects - Engineering Services
RED RIVER BASIN COMMISSION	\$ 500,000.00	\$ 500,000.00	\$ -	Construction - Landscape
HOFFMAN & MCNAMARA NURSERY&LAN	\$ 495,801.98	\$ 425,628.49	\$ 70,173.49	Land Purchases
NORTHERN TITLE CO	\$ 484,016.00	\$ 484,016.00	\$ -	Utility Relocation
AT & T	\$ 461,031.30	\$ 461,031.30	\$ -	Oxbow Housing Relocation
SCHMIDT AND SONS CONSTRUCTION	\$ 351,178.00	\$ 269,776.00	\$ 81,402.00	Quality Testing
BRAUN INTERTEC CORP	\$ 285,711.00	\$ 272,326.75	\$ 13,384.25	Engineering Services
BEAVER CREEK ARCHAEOLOGY	\$ 276,990.00	\$ 146,109.77	\$ 130,880.23	Utility Relocation
SPRINT	\$ 276,363.62	\$ -	\$ 276,363.62	Utility Relocation
702 COMMUNICATIONS	\$ 266,892.07	\$ 266,892.07	\$ -	Lidar Imaging
FARGO MOORHEAD METROPOLITAN	\$ 253,858.35	\$ 253,858.35	\$ -	P3 Risk Advisory Services
AON RISK SERVICES CENTRAL, INC	\$ 240,000.00	\$ 183,813.50	\$ 56,186.50	Ag Risk Study Services
NDSU BUSINESS OFFICE-BOX 6050	\$ 231,650.00	\$ 159,287.75	\$ 72,362.25	

FM Metropolitan Area Flood Risk Management Project
Cumulative Vendor Payments Since Inception
As of December 31, 2017

Vendor	Approved Contract/Invoice Amount	Liquidated	Outstanding Encumbrance	Purpose
BUFFALO-RED RIVER WATERSHED DI	\$ 221,568.00	\$ 221,568.00	\$ -	Retention Projects - Engineering Services
CASS RURAL WATER USERS DIST	\$ 213,335.00	\$ 213,335.00	\$ -	Utilities and Utility Relocation
ROBERT TRENT JONES	\$ 200,000.00	\$ 200,000.00	\$ -	Oxbow MOU - Golf Course Consulting Agreement
SPRINGSTED INCORPORATED	\$ 178,010.15	\$ 178,010.15	\$ -	Financial Advisor
FREDRIKSON & BYRON, PA	\$ 148,230.06	\$ 123,730.06	\$ 24,500.00	Lobbying Services
PFM PUBLIC FINANCIAL MANAGEMEN	\$ 146,460.00	\$ 146,460.00	\$ -	Financial Advisor
GRAY PANNELL & WOODWARD LLP	\$ 143,800.68	\$ 143,800.68	\$ -	Legal Services
AT&T NETWORK OPERATIONS	\$ 125,238.30	\$ 125,238.30	\$ -	Utility Relocation
ENVENTIS	\$ 115,685.62	\$ 115,685.62	\$ -	Utility Relocation
UNITED STATES GEOLOGICAL SURVE	\$ 104,600.00	\$ 104,600.00	\$ -	Stage Gage Installation
CENTURYLINK ASSET ACCOUNTING-B	\$ 102,773.54	\$ 102,773.54	\$ -	Utility Relocation
CASS COUNTY ELECTRIC-DIVERSION	\$ 101,295.00	\$ 42,050.00	\$ 59,245.00	Utility Services / Relocation
EL ZAGAL TEMPLE HOLDING CO	\$ 76,000.00	\$ 76,000.00	\$ -	Easement Purchase for El Zagal Levee
HKA GLOBAL, INC	\$ 74,353.00	\$ 74,353.00	\$ -	Professional Services
GERSON LEHRMAN GROUP, INC.	\$ 60,819.00	\$ 60,819.00	\$ -	Legal Services
NIXON PEABODY LLC	\$ 60,000.00	\$ 60,000.00	\$ -	Legal Services
ADVANCED ENGINEERING INC	\$ 50,000.00	\$ 50,000.00	\$ -	Public Outreach
IN SITU ENGINEERING	\$ 47,973.00	\$ 47,973.00	\$ -	Quality Testing
US GEOLOGICAL SURVEY	\$ 46,920.00	\$ 46,920.00	\$ -	Stage Gage Installation
MIDCONTINENT COMMUNICATIONS	\$ 37,318.95	\$ 37,318.95	\$ -	Utility Relocation
CLAY COUNTY AUDITOR	\$ 34,538.71	\$ 34,538.71	\$ -	Property Tax, Home Buyout Demo
AMERICAN ENTERPRISES INC	\$ 34,000.00	\$ 34,000.00	\$ -	Test Pits
GEOKON INC	\$ 33,815.36	\$ 33,815.36	\$ -	Vibrating Wire Piezometer Equipment
COLDWELL BANKER	\$ 33,066.02	\$ 33,066.02	\$ -	Property Management Services
WARNER & CO	\$ 30,049.00	\$ 30,049.00	\$ -	General Liability Insurance
WESTERN AREA POWER ADMINISTRAT	\$ 30,000.00	\$ 30,000.00	\$ -	P3 Support Services
CPS HR CONSULTING	\$ 27,710.03	\$ 27,710.03	\$ -	HR Consulting
ND WATER USERS ASSOCIATN	\$ 20,000.00	\$ 20,000.00	\$ -	Membership Dues
XCEL ENERGY-FARGO	\$ 16,275.85	\$ 16,275.85	\$ -	Utility Relocation
PRIMORIS AEVENIA INC	\$ 16,230.00	\$ 16,230.00	\$ -	Utility Relocation
MOORHEAD, CITY OF	\$ 15,062.90	\$ 15,062.90	\$ -	ROE Legal Fees
BRIGGS & MORGAN PA	\$ 12,727.56	\$ 12,727.56	\$ -	Legal Services
PROSOURCE TECHNOLOGIES, INC	\$ 8,324.94	\$ 8,324.94	\$ -	Vibrating Wire Piezometer Equipment
MAP SERVICE CENTER	\$ 7,250.00	\$ 7,250.00	\$ -	Permit fee
NEWMAN SIGNS INC	\$ 5,816.00	\$ 5,816.00	\$ -	Signage
ONE	\$ 3,575.00	\$ 3,575.00	\$ -	Legal Services
MCKINZIE METRO APPRAISAL	\$ 3,200.00	\$ 3,200.00	\$ -	Appraisal Services
SEIGEL COMMUNICATIONS SERVICE	\$ 2,345.00	\$ 2,345.00	\$ -	Public Outreach
BNSF RAILWAY CO	\$ 2,325.00	\$ 2,325.00	\$ -	Permits for In-Town Levee Projects
FORUM COMMUNICATIONS (LEGALS)	\$ 2,224.20	\$ 2,224.20	\$ -	Advertising Services
FORUM COMMUNICATIONS (ADVERT)	\$ 1,743.77	\$ 1,743.77	\$ -	Advertising Services
NORTH DAKOTA TELEPHONE CO	\$ 1,697.00	\$ 1,697.00	\$ -	Communication
STUDIO 7 PRODUCTIONS	\$ 1,585.00	\$ 1,585.00	\$ -	Video Productions
ERBERT & GERBERTS SUBS	\$ 1,232.29	\$ 1,232.29	\$ -	lunches for the task force meetings
HUBER, STEVE	\$ 1,056.43	\$ 1,056.43	\$ -	Home Buyouts
WARREN TOWNSHIP	\$ 1,023.72	\$ 1,023.72	\$ -	SEEDING, ROAD REPAIR, DUST CONTROL

FM Metropolitan Area Flood Risk Management Project
Cumulative Vendor Payments Since Inception
As of December 31, 2017

Vendor	Approved Contract/Invoice Amount	Liquidated	Outstanding Encumbrance	Purpose
DEPT OF NATURAL RESOUR	\$ 1,000.00	\$ 1,000.00	\$ -	DNR Dam Safety Permit Application Fee
TRIO ENVIRONMENTAL CONSULTING	\$ 747.60	\$ 747.60	\$ -	Asbestos and LBP Testing - Home Buyouts
RED RIVER TITLE SERVICES INC	\$ 675.00	\$ 675.00	\$ -	Abstract Updates
BNSF RAILWAY COMPANY	\$ 600.00	\$ 600.00	\$ -	MOU Agreement
CIVIL DESIGN INC	\$ 595.00	\$ 595.00	\$ -	MOU Agreement
RED RIVER VALLEY COOPERATIVE A	\$ 536.96	\$ 536.96	\$ -	Electricity - Home Buyouts
FERRELLGAS	\$ 496.00	\$ 496.00	\$ -	Propane - Home Buyouts
BROKERAGE PRINTING	\$ 473.33	\$ 473.33	\$ -	Custom Printed Forms
DAWSON INSURANCE AGENCY	\$ 388.52	\$ 388.52	\$ -	Property Insurance - Home Buyouts
KOCHMANN, CARTER	\$ 315.00	\$ 315.00	\$ -	Lawn Mowing Services
GALLAGHER BENEFIT SERVICES INC	\$ 250.00	\$ 250.00	\$ -	Job Description Review
DONS PLUMBING	\$ 240.00	\$ 240.00	\$ -	Winterize - Home Buyouts
HARWOOD TOWNSHIP, CASS, ND	\$ 208.91	\$ 208.91	\$ -	Township Meeting Expenses
WALMART STORE #4352	\$ 161.97	\$ 161.97	\$ -	Meeting Incidentals
CURTS LOCK & KEY SERVICE INC	\$ 138.10	\$ 138.10	\$ -	Service Call - Home Buyouts
GOOGLE LOVEINTHEOVEN	\$ 116.00	\$ 116.00	\$ -	Meeting Incidentals
FEDERAL EXPRESS CORPORATION	\$ 71.89	\$ 71.89	\$ -	Postage
AEVENIA, INC	\$ -	\$ -	\$ -	Utility Relocation
AON RISK SERVICES CENTRAL INC	\$ -	\$ -	\$ -	P3 Risk Advisory Services
BOIS DE SIOUX WATERSHED DISTRI	\$ -	\$ -	\$ -	Retention Projects - Engineering Services
CABLE ONE (FARGO)	\$ -	\$ -	\$ -	Utility Relocation
CENTURYLINK COMMUNICATIONS	\$ -	\$ -	\$ -	Utility Relocation
ULTEIG ENGINEERS INC	\$ -	\$ -	\$ -	Engineering Services
Grand Total	\$ 473,675,371.60	\$ 415,840,612.56	\$ 57,834,759.04	

**FM Metropolitan Area Flood Risk Management Project
Lands Expense - Life To Date
As of December 31, 2017**

Property Address	Purchase Date	Purchase Price	Earnest Deposit	Relocation Assistance	Sale Proceeds	Total
Commercial Relocations - Fargo						
Park East Apartments - 1 2nd St S	6/23/2015	9,002,442.20	-	945,930.84	-	9,948,373.04
Howard Johnson - 301 3rd Ave N	11/2/2015	3,266,079.60	-	3,752,607.61	(1,100.00)	7,017,587.21
Fargo Public School District - 419 3rd St N	3/16/2016	1,903,475.78	-	7,550,036.23	-	9,453,512.01
Oak Terrace Condos - 2 N Terrace N	3/30/2016	5,588.00	-	-	-	5,588.00
Mid America Steel - NP Ave, North	6/21/2016	437,371.41	-	5,370,000.00	-	5,807,371.41
Case Plaza - 117 NP Ave N	1/12/2017	250,449.12	-	-	-	250,449.12
Shakey's Pizza - DFI AP LLC - 203 4th Ave N	3/21/2017	1,002,367.69	-	-	-	1,002,367.69
Home Buyouts - Fargo						
1322 Elm St N	11/19/2014	347,270.27	-	47,168.14	-	394,438.41
1326 Elm St N	12/23/2014	230,196.41	-	8,001.02	-	238,197.43
1341 N Oak St	1/29/2015	309,888.24	-	78,889.24	-	388,777.48
1330 Elm St N	2/12/2015	229,982.44	-	62,362.63	-	292,345.07
18 North Terrace N	4/2/2015	129,698.25	-	44,688.72	-	174,386.97
1318 Elm St N	5/29/2015	229,012.67	-	55,452.01	-	284,464.68
724 North River Road	6/8/2015	204,457.83	-	35,615.30	(10,000.00)	230,073.13
1333 Oak Street N	6/24/2015	238,513.23	-	5,249.00	-	243,762.23
26 North Terrace N	9/11/2015	138,619.58	-	12,620.00	-	151,239.58
16 North Terrace N	9/24/2015	227,987.50	-	96,717.14	-	324,704.64
24 North Terrace N	11/25/2015	182,437.38	-	29,269.60	-	211,706.98
1314 Elm Street N	12/18/2015	225,800.09	-	42,025.00	-	267,825.09
12 North Terrace N	2/9/2016	10,191.00	-	-	-	10,191.00
1313 Elm Street N		350,000.00	-	3,360.00	-	353,360.00
Home Buyouts - Moorhead						
387 170th Ave SW	11/1/2013	281,809.91	-	-	(8,440.00)	273,369.91
16678 3rd St S		214,000.00	-	84,060.80	-	298,060.80
Home Buyouts - Oxbow						
105 Oxbow Drive	11/28/2012	216,651.85	-	-	(181,249.54)	35,402.31
744 Riverbend Rd	12/3/2012	343,828.30	-	2,435.00	-	346,263.30
121 Oxbow Drive	7/31/2013	375,581.20	-	-	(186,918.33)	188,662.87
333 Schnell Drive	9/20/2013	104,087.79	-	-	-	104,087.79
346 Schnell Drive	2/13/2014	512,970.73	-	7,200.00	-	520,170.73
345 Schnell Drive	10/24/2014	478,702.98	-	6,869.44	-	485,572.42
336 Schnell Drive	1/29/2015	310,888.51	-	185,620.00	-	496,508.51
5059 Makenzie Circle	5/21/2015	2,698,226.97	-	10,549.70	-	2,708,776.67
357 Schnell Dr / 760 River Bend Rd	6/18/2015	466,720.80	-	176,524.79	-	643,245.59
349 Schnell Dr / 761 River Bend Rd	6/26/2015	306,725.20	-	309,992.53	-	616,717.73
748 Riverbend Rd / 755 River Bend Rd	9/1/2015	480,784.30	-	205,699.82	-	686,484.12
361 Schnell Dr / 764 River Bend Rd	9/2/2015	490,091.32	-	267,757.65	-	757,848.97
752 Riverbend Rd / 768 River Bend Rd	9/4/2015	469,078.13	-	507,103.56	-	976,181.69
353 Schnell Dr / 772 River Bend Rd	9/11/2015	494,342.87	-	312,212.95	-	806,555.82
SE 1/4-23-137-49 & NW 1/4 SW 1/4 24-137-49 - Heitman	9/30/2015	1,328,151.00	-	-	-	1,328,151.00
350 Schnell Dr / 769 River Bend Rd	12/15/2015	491,024.01	-	279,237.35	-	770,261.36
365 Schnell Drive	1/7/2016	125,077.88	-	-	-	125,077.88
852 Riverbend Rd	1/11/2016	1,222,608.19	-	10,891.60	-	1,233,499.79
334 Schnell Dr / 751 River Bend Rd	1/15/2016	321,089.77	-	284,349.88	-	605,439.65
749 Riverbend Rd / 433 Trent Jones Dr	2/1/2016	598,885.43	-	469,875.64	-	1,068,761.07
326 Schnell Drive	2/19/2016	326,842.17	-	225,073.09	-	551,915.26
309 Schnell Dr / 325 Trent Jones Dr	5/12/2016	539,895.97	-	574,412.28	-	1,114,308.25
810 Riverbend Rd / 787 River Bend Rd	6/6/2016	672,125.84	-	640,625.43	-	1,312,751.27
833 Riverbend Rd / 446 Trent Jones Dr	7/14/2016	801,671.69	-	590,292.66	-	1,391,964.35
328 Schnell Dr / 347 Trent Jones Dr	7/14/2016	320,803.64	-	329,117.70	-	649,921.34
839 Riverbend Road	7/20/2016	1,775,311.60	-	10,631.50	-	1,785,943.10
332 Schnell Dr / 335 Trent Jones Dr	8/2/2016	328,639.47	-	356,643.81	-	685,283.28
317 Schnell Dr / 409 Trent Jones Dr	9/7/2016	548,393.52	-	558,413.52	-	1,106,807.04
330 Schnell Drive	10/4/2016	328,134.82	-	125,072.50	-	453,207.32
329 Schnell Dr / 417 Trent Jones Dr	10/4/2016	549,277.00	-	499,811.00	-	1,049,088.00
321 Schnell Dr / 410 Trent Jones Dr	10/7/2016	471,534.69	-	514,952.53	-	986,487.22
813 Riverbend Rd / 449 Trent Jones Dr	10/14/2016	660,997.62	-	797,937.65	-	1,458,935.27
325 Schnell Drive / 426 Trent Jones Dr	11/3/2016	403,498.66	-	402,935.97	-	806,434.63
844 Riverbend Road	11/11/2016	716,599.40	-	15,118.84	-	731,718.24
828 Riverbend Rd	11/30/2016	955,928.53	-	-	-	955,928.53
341 Schnell Dr / 343 Trent Jones Dr	12/8/2016	480,921.52	-	673,954.16	-	1,154,875.68
840 Riverbend Rd / 442 Trent Jones Dr	12/21/2016	547,075.19	-	423,662.02	-	970,737.21
816 Riverbend Rd / 441 Trent Jones Dr	12/27/2016	567,413.07	-	338,694.70	-	906,107.77
821 Riverbend Rd / 438 Trent Jones Dr	1/13/2017	580,617.35	-	331,100.87	-	911,718.22
805 Riverbend Rd / 776 River Bend Rd	2/10/2017	508,203.01	-	395,757.84	-	903,960.85
808 Riverbend Road / 254 South Schnell Dr	2/24/2017	713,814.95	-	533,475.96	-	1,247,290.91
338 Schnell Dr / 775 River Bend Rd	2/28/2017	560,402.15	-	407,961.34	-	968,363.49
313 Schnell Drive/ 413 Trent Jones Dr	4/7/2017	389,370.50	-	357,043.95	-	746,414.45
809 Riverbend Rd	5/3/2017	112,304.99	-	-	-	112,304.99
337 Schnell Dr / 353 Trent Jones Dr	5/17/2017	456,146.62	-	524,447.89	-	980,594.51
829 Riverbend Rd / 788 River Bend Rd	7/7/2017	1,056,438.13	-	1,341,268.00	-	2,397,706.13
848 Riverbend Rd / 783 River Bend Rd	7/27/2017	781,361.81	-	1,340,781.00	-	2,122,142.81
817 Riverbend Road / 421 Trent Jones Dr	7/18/2017	445,728.05	-	465,264.50	-	910,992.55
843 Riverbend Rd / 445 Trent Jones Dr	9/21/2017	978,292.23	-	1,173,078.68	-	2,151,370.91
477 Oxbow Drive - OIN 9614 - Henry & Suzanne Mertz	10/27/2017	25,020.58	-	-	-	25,020.58

**FM Metropolitan Area Flood Risk Management Project
Lands Expense - Life To Date
As of December 31, 2017**

Property Address	Purchase Date	Purchase Price	Earnest Deposit	Relocation Assistance	Sale Proceeds	Total
Home Buyouts - Hickson						
17495 52nd St SE	4/28/2015	785,747.66	-	27,604.74	-	813,352.40
4989 Klitzke Drive, Pleasant Twp	7/20/2016	245,926.71	-	92,817.44	-	338,744.15
Home Buyouts - Horace						
2914 124th Ave S	12/29/2016	50,981.00	-	-	-	50,981.00
17471 49th St SE - Campbell - OIN 9403	2/16/2017	883,581.00	-	149,000.00	-	1,032,581.00
17465 49th St SE - Campbell - OIN 9411	2/21/2017	828,561.00	-	158,000.00	-	986,561.00
17474 52nd St SE - Leher - OIN 1889/1990/2182	7/11/2017	904,905.00	-	-	-	904,905.00
17449 50th Street SE - Scott Young	9/1/2017	398,936.66	-	-	-	398,936.66
4848 CR 81 S, Horace, ND _ OIN 9405	9/15/2017	451,185.00	-	-	-	451,185.00
15-0000-02690-010 & 15-0000-02690-020 - Cossette _ OIN 229 & 230	11/29/2017	2,433,020.59	-	-	-	2,433,020.59
5021 171st Ave. Southeast, Horace, ND _ OIN 1955	12/18/2017	248,677.89	-	-	-	248,677.89
Home Buyouts - Argusville						
2351 173rd Ave SE - Johnson - OIN 1222	2/6/2017	215,030.91	-	6,912.57	-	221,943.48
Home Buyouts - Wisner						
2368 173rd Ave SE & Rural Land Part of SE1/4 35-142-49, Wisner, ND - Kevin & Pamela Heiden	8/4/2017	614,439.02	-	-	-	614,439.02
Easements - Fargo						
Part of Lot 5 El Zagal Park	10/9/2014	76,000.00	-	-	-	76,000.00
72 2nd St N - Bortnem	4/13/2016	37,020.00	-	-	-	37,020.00
Easements - Oxbow						
Oxbow Parcel 57-0000-10356-070 - Pearson	10/13/2014	55,500.00	-	-	-	55,500.00
Easements - Diversion Inlet Control Structure						
15-0000-02690-020 - Cossette	6/1/2016	476,040.00	-	-	-	476,040.00
64-0000-02730-000 - Sauvageau	6/1/2016	1,113,101.57	-	-	-	1,113,101.57
64-0000-02720-000 - Ulstad (Condemnation)	-	1,221,931.50	-	-	-	1,221,931.50
64-0000-027400-000 - Duboard	9/15/2016	177,399.29	-	-	-	177,399.29
64-0000-02700-010 - Rheault	1/31/2017	2,243.06	-	-	-	2,243.06
15-141-49 NW1/4 160.00 AC **12-31-98 COMB FRM 44-0000-00580-000 & 44-0000-00570-000 - Larson Trust (Nygren)	6/20/2017	32,340.00	-	-	-	32,340.00
Southwest corner of County Road 17 S and 112th Avenue S (comdemnation) - SAUVAGEAU LIFE EST.	-	373,437.00	-	-	-	373,437.00
16835 47 ST SE - Buster Farms LLLP	-	1,755.00	-	-	-	1,755.00
Easements - Piezometer						
67-0000-12719-010 - Adams - OIN-1201	3/13/2017	1,500.00	-	-	-	1,500.00
Easements - Minesota						
Askegaard Hope Partnership	10/14/2016	1,542,370.79	-	-	-	1,542,370.79
Farmland Purchases						
SE 1/4 11-140-50 (Raymond Twp, ND) - Ueland	1/20/2014	959,840.00	-	-	-	959,840.00
2 Tracts in the E 1/2-2-137-49 - Sorby/Maier	1/24/2014	1,636,230.00	-	-	-	1,636,230.00
3 Tracts NW1/4 1-140-50, NW1/4 11-140-50, & S1/2 25-141-50 - Rust	2/18/2014	3,458,980.70	-	-	-	3,458,980.70
11-140-50 NE1/4 (Raymond Twp) - Diekrager	4/15/2014	991,128.19	-	-	-	991,128.19
NW 1/4 36-141-50 - Monson	5/7/2014	943,560.05	-	-	-	943,560.05
W 1/2 SE 1/4 SW 1/4 & SW 1/4 SW 1/4 2-137-49 - Gorder	5/13/2014	321,386.00	-	-	-	321,386.00
SW 1/4-11-140-50 - Hoglund	7/21/2014	989,706.03	-	-	-	989,706.03
NW 1/4 14-140-50 - Hoglund	10/23/2014	948,782.22	-	-	-	948,782.22
SW 1/4 2-140-50 - Rust	10/29/2014	955,901.00	-	-	-	955,901.00
2-140-50 S 1/2 of NW 1/4 & Lot 4A - Pile	3/4/2015	594,108.00	-	-	-	594,108.00
Fercho Family Farms,	3/25/2015	464,600.00	-	-	-	464,600.00
W 1/2 NW 1/4 2-141-49 - Heiden	4/24/2015	433,409.00	-	-	-	433,409.00
(Raymond Twp) - Henke	6/17/2015	1,196,215.00	-	-	-	1,196,215.00
Peter Biegler, Jr - OIN 9748	7/17/2017	245,185.00	5,000.00	-	-	250,185.00
19-141-49 NE 1/4 A 160.00 - Schoenberg Farms	7/18/2017	3,470,167.12	-	-	-	3,470,167.12
CENLN OF SHEY RIV - Chose	7/28/2017	60,128.07	-	-	-	60,128.07
Trust	8/1/2017	1,402,847.99	-	-	-	1,402,847.99
S1/2 W1/2 NW1/4 - Conyers	8/3/2017	33,150.00	-	-	-	33,150.00
27th St SE, between 169th Ave SE and I-29 - Nelson	8/3/2017	1,024,189.50	-	-	-	1,024,189.50
2368 173rd Ave SE & Rural Land Part of SE1/4 35-142-49, Wisner, ND	8/4/2017	614,439.02	-	-	-	614,439.02
Principal Meridian, Cass County, ND - Heiden Family, LLLP	8/4/2017	1,326,882.11	-	-	-	1,326,882.11
20-141-49 SW 1/4 A 160.00 - Lloyd & Alice Amundson	8/9/2017	123,563.38	-	-	-	123,563.38
5251 174 1/2 Ave SE, Pleasant Township, ND 58047	8/18/2017	254,354.28	-	-	-	254,354.28
35-142-49 SW 1/4 A 160.00 - Burley _ OIN 1218	8/31/2017	167,091.47	-	-	-	167,091.47
S-1/2 of N1/2 of Section 36-142-49, Wayne & Gary Ohnstad_OIN 1223	12/13/2017	200,135.00	-	-	-	200,135.00

**FM Metropolitan Area Flood Risk Management Project
Lands Expense - Life To Date
As of December 31, 2017**

Property Address	Purchase Date	Purchase Price	Earnest Deposit	Relocation Assistance	Sale Proceeds	Total
Land Purchases						
Hayden Heights Land, West Fargo ND Lot 4, Block 4, ND R-2 Urban Renewal Addition, Fargo ND - Professional Associates	10/12/2012	484,016.00	-	-	(730,148.14)	(246,132.14)
BNSF Railway Company	5/14/2015	39,900.00	-	-	-	39,900.00
City of Fargo - OIN 2366 & OIN 2367	3/9/2017	1,314,373.30	-	-	-	1,314,373.30
Edwin and Margaret Ployhart OIN 8852	4/5/2017	5,121.18	-	-	-	5,121.18
Arthur Mathison RT OIN 1994	5/19/2017	750.00	-	-	-	750.00
Ideal Ag Corp OIN 9789 / 9790	5/25/2017	30,120.68	-	-	-	30,120.68
OIN 1195 / 1196 - Mark Thorson	9/15/2017	203,678.32	-	-	-	203,678.32
		<u>86,921,489.86</u>	<u>32,000.00</u>	<u>35,642,237.33</u>	<u>(1,117,856.01)</u>	<u>121,477,871.18</u>
				Property Management Expense		1,697,342.21
					Grand Total	<u>\$ 123,175,213.39</u>

**FM Metropolitan Area Flood Risk Management Project
In-Town Levee Work
as of December 31, 2017**

Vcode #	Vendor Name	Descriptions	Contract Amount	Amount Paid
V02801	Industrial Builders	WP42.A2 - 2nd Street North Pump Station	\$ 8,696,548.46	\$ 8,683,649.98
V02802	Terracon Consulting	WP-42 (In Town Levees) Materials Testing	\$ 828,792.49	\$ 828,718.42
V02803	Consolidated Communications	2nd Street Utility Relocation	\$ 1,178,781.73	\$ 1,178,781.73
V02804	702 Communications	2nd Street Utility Relocation	\$ 266,892.07	\$ 266,892.07
		WP-42A.1/A.3 - 4th St Pump Station & Gatewell and 2nd St		
V02805	ICS	Floodwall S	\$ 17,583,287.19	\$ 17,500,178.16
V02806	HMG	WP42 - Services During Construction	\$ 5,343,413.00	\$ 4,980,005.30
V02807	CCJWRD	In-Town Levee Work	\$ 6,212,413.40	\$ 5,886,140.36
V02808	City of Fargo	Relocation of fiber optic along 2nd Street North	\$ 397,906.52	\$ 397,906.52
V02809	AT & T	2nd Street Utility Relocation	\$ 586,269.60	\$ 586,269.60
V02811	Xcel Energy	2nd Street & 4th Street Utility Relocations	\$ 769,791.73	\$ 769,791.73
V02812	Industrial Builders	WP-42F.1S - 2nd Street North Floodwall, South of Pump Station	\$ 16,720,591.15	\$ 16,491,598.27
V02813	Landwehr Construction	Park East Apartments Demolition	\$ 1,169,651.74	\$ 1,169,651.74
V02814	Primoris Aevenia	2nd Street Utility Relocation	\$ 16,230.00	\$ 16,230.00
V02815	Centurylink Communications	2nd Street Utility Relocation	\$ 2,660,937.92	\$ 2,660,937.92
V02816	Landwehr Construction	WP-42C.1 - In-Town Levees 2nd Street/Downtown Area Demo	\$ 907,999.08	\$ 907,999.08
V02817	Reiner Contracting, Inc	WP-42H.2 - El Zagal Area Flood Risk Management	\$ 1,599,646.21	\$ 1,599,646.21
V02818	Industrial Builders	WP-42I.1 - Mickelson Levee Extension	\$ 738,880.50	\$ 738,880.50
V02819	Industrial Builders	WP42F.1N - 2nd Street North	\$ 13,362,906.82	\$ 13,309,100.81
V02820	CH2M Hill	WP42 - Construction Management Services	\$ 851,775.30	\$ 851,775.30
V02821	Hough Incorporated	WP42F.2 - 2nd Street South	\$ 1,726,847.35	\$ 1,634,666.45
V02822	City of Fargo	COF - 2016 O&M on Lifts	\$ 6,402.85	\$ 6,402.85
	Hoffman & McNamara Nursery			
V02823	& Lan	WP-42G General Landscaping and Planting	\$ 495,801.98	\$ 425,628.49
V01703	Various	In-Town Property Purchases	\$ 38,998,625.66	\$ 37,547,139.64
			<u>\$ 121,120,392.75</u>	<u>\$ 118,437,991.13</u>

**Fargo-Moorhead Metropolitan Area Flood Risk Management Project
State Water Commission Funds Reimbursement Worksheet
Fargo Flood Control Project Costs - HB1020 & SB2020**

Time Period for This Request: November 1, 2017 - November 30, 2017 - OHB Levee Related Costs

Drawdown Request No: 57	
Requested Amount:	\$ 1,377,451
Total Funds Expended This Period:	\$ 2,754,902
SB 2020 Matching Requirements	50%
Total Funds Requested at 50% Match	1,377,451
Total Funds Requested:	\$ 1,377,451

STATE AID SUMMARY:		
Summary of State Funds Appropriated		
Appropriations from 2009 Legislative Session	\$	45,000,000
Appropriations from 2011 Legislative Session		30,000,000
Appropriations from 2013 Legislative Session		100,000,000
Appropriations from 2015 Legislative Session		69,000,000
Appropriations from 2015 Legislative Session - Interior Flood Control		60,000,000
Appropriations from 2017 Legislative Session		66,500,000
Appropriations to be funded in 2019 Legislative Session - Available 7/1/2019	66,500,000	
Appropriations to be funded in 2021 Legislative Session - Available 7/1/2021	66,500,000	
Appropriations to be funded in 2023 Legislative Session - Available 7/1/2023	66,500,000	
Total State Funds	199,500,000	370,500,000
Less: Payment #1 through #35 - City of Fargo		(55,510,209)
Less: Payment #1 - Cass County		(136,039)
Less: Payment #1 through #7 - Interior Flood Control		(60,000,000)
Less: Payment #1 through #28 - FM Diversion Authority		(38,049,107)
Less: Payment #29 through #38 - FM Metro Area Flood Risk Management Project		(63,009,387)
Less: Payment #39 - FM Metro Area Flood Risk Management Project		(1,535,060)
Less: Payment #40 - FM Metro Area Flood Risk Management Project		(465,203)
Less: Payment #41 - FM Metro Area Flood Risk Management Project		(3,666,207)
Less: Payment #42 - FM Metro Area Flood Risk Management Project		(1,527,676)
Less: Payment #43 - FM Metro Area Flood Risk Management Project		(31,468)
Less: Payment #44 - FM Metro Area Flood Risk Management Project		(301,262)
Less: Payment #45 - FM Metro Area Flood Risk Management Project		(396,025)
Less: Payment #46 - FM Metro Area Flood Risk Management Project		(457,440)
Less: Payment #47 - FM Metro Area Flood Risk Management Project		(538,830)
Less: Payment #48 - FM Metro Area Flood Risk Management Project		(751,091)
Less: Payment #49 - FM Metro Area Flood Risk Management Project		(25,546)
Less: Payment #50 - FM Metro Area Flood Risk Management Project		(3,837,546)
Less: Payment #51 - FM Metro Area Flood Risk Management Project		(1,501,080)
Less: Payment #52 - FM Metro Area Flood Risk Management Project		(1,565,228)
Less: Payment #53 - FM Metro Area Flood Risk Management Project		(708,163)
Less: Payment #54 - FM Metro Area Flood Risk Management Project		(897,057)
Less: Payment #55 - FM Metro Area Flood Risk Management Project		(488,613)
Less: Payment #56 - FM Metro Area Flood Risk Management Project		(1,105,872)
Less: Payment #57 - FM Metro Area Flood Risk Management Project		(1,377,451)
Total Funds Reimbursed		(237,881,561)
Total State Fund Balances Remaining	\$	132,618,439

Fargo-Moorhead Metropolitan Area Flood Risk Management Project
 State Water Commission Funds Reimbursement Worksheet
 Fargo Flood Control Project Costs - HB1020 & SB2020

LOCAL MATCHING FUNDS SUMMARY:		
Matching Funds Expended To Date - FM Metro Area Flood Risk Management Project	\$	78,466,468
Less: Match Used on Payment #1 through #35 - City of Fargo		(41,506,620)
Less: Match used on Payment #1 - Cass County		(136,039)
Less: Match Used on Payment #1-28 - FM Diversion Authority		(11,052,710)
Less: Match Used on Payment #29-38 - FM Metro Area Flood Risk Management Project		(13,707,559)
Less: Match Used on Payment #39 - FM Metro Area Flood Risk Management Project		(830,718)
Less: Match Used on Payment #41 - FM Metro Area Flood Risk Management Project		(3,094,610)
Less: Match Used on Payment #45 - FM Metro Area Flood Risk Management Project		(268,071)
Less: Match Used on Payment #47 - FM Metro Area Flood Risk Management Project		(334,847)
Less: Match Used on Payment #50 - FM Metro Area Flood Risk Management Project		(732,590)
Less: Match Used on Payment #51 - FM Metro Area Flood Risk Management Project		(1,336,028)
Less: Match Used on Payment #52 - FM Metro Area Flood Risk Management Project		(294,854)
Less: Match Used on Payment #54 - FM Metro Area Flood Risk Management Project		(595,622)
Less: Match Used on Payment #55 - FM Metro Area Flood Risk Management Project		(278,292)
Balance of Local Matching Funds Available	\$	4,297,908

Finance Committee Bills through January 12, 2018

<u>Vendor</u>	<u>Description</u>		
Erik R. Johnson & Associates, Ltd.	Legal services rendered through December 31, 2017	\$	1,918.40
Ohnstad Twichell, P.C.	Professional services rendered	\$	48,986.63
		<hr/>	
Total Bills Received through January 12, 2018		\$	<u>50,905.03</u>

Erik R. Johnson & Associates, Ltd.
Attorneys at Law

City of Fargo-Auditor's Office
Attn: Kent Costin
200 Third Street North
Fargo, ND 58102

December 31, 2017
Invoice No. 2615

RE: Metro Flood Project-General Legal Matters

For Legal Services Rendered Through December 31, 2017

INVOICE TOTAL

Total for Current Legal Fees	\$1046.40
Total for Current Disbursements and Service Charges	\$872.00
Total for Current Invoice	\$1918.40

Summary of Account

*Prior Balance Due	\$
Total Amount Due	\$1918.40

*If payment has been submitted for prior balance due, please disregard.

We appreciate your business.

OHNSTAD TWICHELL, P.C.
Attorneys at Law

P.O Box 458
 West Fargo, ND 58078-0458
 701-282-3249

15-1395 JTS Invoice # 154073

Flood Diversion Board
 Bond Counsel Work - PPP

Date: January 9, 2018

To: Flood Diversion Board
 P.O Box 2806
 Fargo, ND 58108-2806

PROFESSIONAL SERVICES RENDERED			
	Hours	Hourly Rate	Totals
JTS	58.5	\$300.00	\$17,550.00
CMM	8.6	\$300.00	\$2,580.00
ADC	0.7	\$300.00	\$210.00
SNW	0.3	\$300.00	\$90.00
KJB	12.7	\$265.00	\$3,365.50
TJL	46.2	\$250.00	\$11,550.00
CBC	5	\$200.00	\$1,000.00
LWC	7.6	\$200.00	\$1,520.00
MPS	59.1	\$175.00	\$10,342.50
CAS	0.7	\$160.00	\$112.00
JDR	0.8	\$155.00	\$124.00
AJM	3.3	\$150.00	\$495.00
Total Fees:	203.5		\$48,939.00
Parking fee at MSUM			\$14.00
Mileage			\$8.03
Photocopies			\$25.60
Total Expenses:			\$47.63
Grand Total			\$48,986.63

		2017 Hourly Rates
JTS	John T. Shockley, Partner, Supervising Attorney	\$300.00
CMM	Christopher M. McShane, Partner	\$300.00
ADC	Andrew D. Cook, Partner	\$300.00
SNW	Sarah M. Wear, Partner	\$300.00
KJB	Katie J. Bertsch, Associate	\$265.00
TJL	Tyler J. Leverington, Associate	\$250.00
CBC	Calley B. Campbell, Associate	\$200.00
LWC	Lukas W. Croaker, Associate	\$200.00
MPS	Michael P. Sly, Associate	\$175.00
CAS	Carol A. Stillwell, Paralegal	\$160.00
JDR	Joshua D. Roaldson, Paralegal	\$155.00
AJM	Andrea J. Murphy, Paralegal	\$150.00

PROFESSIONAL SERVICES RENDERED

15-1395 JTS Invoice # 154073		
Flood Diversion Board		Bond Counsel Work - PPP
FILE NUMBER	MATTER DESCRIPTION	INVOICE - TOTAL FEES
151395-1	General Topics (Includes General Governance Questions, Notices, etc.)	\$15,055.00
151395-3	P3 Procurement	\$4,819.50
151395-5	Consultant Contract Review/Development	\$4,130.00
151395-6	Support of External Litigation Counsel	\$1,350.00
151395-13	Third Party Utility MOU's	\$21,004.50
151395-14	ICS Issues	\$2,580.00
TOTAL		\$48,939.00



Recommended Contracting Actions

Date: January 17, 2018

Description	Company	Budget Estimate (\$)
Construction Change Orders – Diversion Authority		
<p>WP 42F1.S –2nd St North (South of Pump Station)</p> <p>Change Order 20</p> <ul style="list-style-type: none"> Add 35 calendar days to Final Completion Date to allow for additional contractor coordination and testing reports. 	Industrial Builders, Inc.	\$0.00
Total		\$0.00

Technical Advisory Group Recommendation

Meeting Date: 01/09/2018

RECOMMENDATION FOR ACTION:

The Technical Advisory Group has reviewed and recommends approval of the following Contract Action(s).

SUMMARY OF CONTRACTING ACTION:

Per the contract review and approval procedures that were adopted by the Diversion Authority on November 10, 2016, the Owner’s Program Management Consultant (PMC) or Engineer of Record (EOR) shall submit a construction Change Order request to the Technical Advisory Group. The Technical Advisory Group shall review the Change Order request during its next regular meeting after receiving the Change Order request, and make a recommendation as to approval or denial of the Change Order request.

The Owner’s Representative has reviewed and recommends the following Contract Action(s):

Description	Budget Estimate (\$)
WP-42F1S: Industrial Builders Inc.	
<i>2nd Street North (South of Pump Station) –Change Order No. 20</i>	\$ 0
<ul style="list-style-type: none"> Add 35 calendar days to Final Completion date 	

Summary of Contracting History and Current Contract Action:

This change order adds 35 calendar days to Final Completion to allow for additional contractor coordination and testing reports.

Below is a summary of contracting history to date along with the current contracting action.

Original Agreement or Amendment	Previous Project Cost	Budget (\$) Change	Revised Project Cost	Project Start	Project Completion	Comments
Original Contract	0.00	0.00	16,184,905.85	08-Oct-15	15-Jun-17	Contract Award recommended to lowest responsive bidder, Industrial Builders, Inc.
Change Order No. 1	16,184,905.85	0.00	16,184,905.85	08-Oct-15	15-Jul-17	Adds 30 days to the Contract Time, revises Interim Milestone A work items, and adds an option for descoping a portion of the Work
Change Order No. 2	16,184,905.85	169,490.20	16,354,396.05	08-Oct-15	15-Jul-17	Incorporates Work revisions to allow work around utility lines
Change Order No. 3	16,354,396.05	96,806.17	16,451,202.22	08-Oct-15	15-Jul-17	Water main, traffic poles, traffic control plan, Milestone A scope
Change Order No. 4	16,451,202.22	6,985.96	16,458,188.18	08-Oct-15	15-Jul-17	Bridge Lighting, concrete disposal, winter traffic control, extend 4 th St signal mods requirement
Change Order No. 5	16,458,188.18	68,743.01	16,526,931.19	08-Oct-15	15-Jul-17	Concrete grading within pump station, Unit price change, additional

Original Agreement or Amendment	Previous Project Cost	Budget (\$) Change	Revised Project Cost	Project Start	Project Completion	Comments
						H Pile, bridge abutment seal, traffic signals, bridge abutment concrete disposal and floodwall connections.
Change Order No. 6	16,526,931.19	89,243.21	16,616,174.40	08-Oct-15	15-Jul-17	10 Feet of additional flood wall, incentive and disincentive changes to the Agreement.
Change Order No. 7	16,616,174.40	16,378.55	16,632,552.95	08-Oct-15	22-Jul-17	Tee Manhole Addition, SS-10 Manhole Revision
Change Order No. 8	16,632,552.95	257,901.37	16,890,454.32	08-Oct-15	22-Jul-17	Differing Subsurface Conditions, floating castings
Change Order No. 9	16,890,454.32	(55,349.74)	16,835,104.58	08-Oct-15	22-Jul-17	Differing Subsurface Condition, Wall Penetrations, CenturyLink Concrete Removal, Furnish and Install Signal Light Pull Boxes, City Hall Construction Accommodation and Misc. Items
Change Order No. 10	16,835,104.58	32,505.68	16,867,610.26	08-Oct-15	22-Jul-17	Disposal of 2B Vault, Differing Subsurface Conditions – Silo Disposal in Case Plaza, and Floodwall Cap Modification
Change Order No. 11	16,867,610.26	52,242.85	16,919,853.11	08-Oct-15	22-Jul-17	Differing Subsurface Conditions July Removals, Repair Storm Manholes, Contaminated Soils Removal, Storm Structure ST-8 Cover, Impressioned Concrete Modifications, Administrative – Accounting Change, Administrative – Owner’s Rep and Engineer Roles and Responsibilities Change
Change Order No. 12	16,919,853.11	85,411.36	17,004,753.35	08-Oct-15	22-Jul-17	Differing Subsurface Conditions, Repair Storm Manholes
Change Order No. 13	17,004,735.35	75,899.63	17,080,652.98	08-Oct-15	22-Jul-17	Utility Vault Adjustment, 1 st Ave N Bridge Spall Removal, 42A2 Pump Station Elevation Discrepancy, Flared End Section Riprap, Case Plaza Parking Lot
Change Order No. 14	17,080,652.98	81,306.44	17,154,700.72	08-Oct-15	22-Jul-17	Streetlight Modifications, City of Fargo Library Landscaping, Epoxy Paint, Differing Site Conditions, 3 rd Street Lighting Modifications, 1 st Ave Plaza Bench Modifications, and Topsoil Import
Change Order No. 15	17,154,700.72	(416,726.77)	16,737,973.95	08-Oct-15	22-Jul-17	WP42A2 Gate Transfer; Quantity Balancing and Differing Subsurface Conditions
Change Order No. 16	16,737,490.08	101,473.05	16,838,963.13	08-Oct-15	14-Nov-17	Diesel Generator Modifications, Landscaping, Case Plaza Parking Lot Striping, and Balance Quantities of Unit Rate Items

Original Agreement or Amendment	Previous Project Cost	Budget (\$) Change	Revised Project Cost	Project Start	Project Completion	Comments
Change Order No. 17	16,838,963.13	7,053.34	16,846,016.47	08-Oct-15	14-Nov-17	Add lump sum bid item 0266 Sidewalk Drain (includes pavement removal, installation of area drain, tying the drain into the storm sewer and repaving the area).
Change Order No. 18	16,846,016.47	(147,981.32)	16,698,035.15	08-Oct-15	01-Dec-17	Modify Generator connection wire and unit price quantities, add COF fiber optic line and conduit, and extend contract time.
Change Order No. 19	16,698,035.15	22,556.00	16,720,591.15	08-Oct-15	26-Jan-18	Add generator exhaust system components and installation, and 56 calendar days.
Change Order No. 20	16,720,591.15	0	16,720,591.15	08-Oct-15	02-Mar-18	Add 35 calendar days to Final Completion.

DISCUSSION

Change Order No. 20 is a no cost contract time extension to allow for additional contractor coordination and testing report submittals. The Contractor's proposed change is attached, and consists of the following item:

1. Contract Time: Add of 35 calendar days to complete the back-up generator installation.
 - a. The installation of the back-up generator includes the installation of 2 controllers, one installed by the 2nd St. Pump Station contractor and one installed by the City Hall contractor.
 - b. The additional time request is for additional coordination needed for the installation of two controllers and submitting final start-up testing reports, changing Final Completion from January 26, 2018 to March 2, 2018.

The EOR and PMC has reviewed Change Order No. 20 and finds it acceptable. This change amount of \$0 is included in the FY-2018 MFDA budget.

ATTACHMENT(S):

- 1. Draft Change Order No. 20
- 2. Contractor quote dated January 9, 2018

Submitted by:

John W. Glatzmaier

John Glatzmaier
CH2M
Metro Flood Diversion Project

January 9, 2018

Date

Nathan Boerboom, Diversion Authority Project
Manager

Concur: January 9, 2018 Non-Concur: _____

Robert Zimmerman, Moorhead City Engineer

Concur: January 9, 2018 Non-Concur _____

Mark Bittner, Fargo Director of Engineering

Concur: January 9, 2018 Non-Concur: _____

Jason Benson, Cass County Engineer

Concur: January 9, 2018 Non-Concur _____

David Overbo, Clay County Engineer

Concur: January 9, 2018 Non-Concur: _____

Jeff Ebsch, Assistant Cass County Engineer, Diversion
Authority Project Manager

Concur: January 9, 2018 Non-Concur _____



Change Order No. 20

Date of Issuance: 01/21/2018 Effective Date: 01/21/2018

Owner: Metro Flood Diversion Authority Owner's Contract No.: WP-42F.1S

Owner's Representative: CH2M HILL Engineers, Inc. Owner's Representative Project No.: 435534

Contractor: Industrial Builders, Inc. Contractor's Project No.: _____

Engineer: Houston-Moore Group, LLC Work Package No.: WP-42F.1S

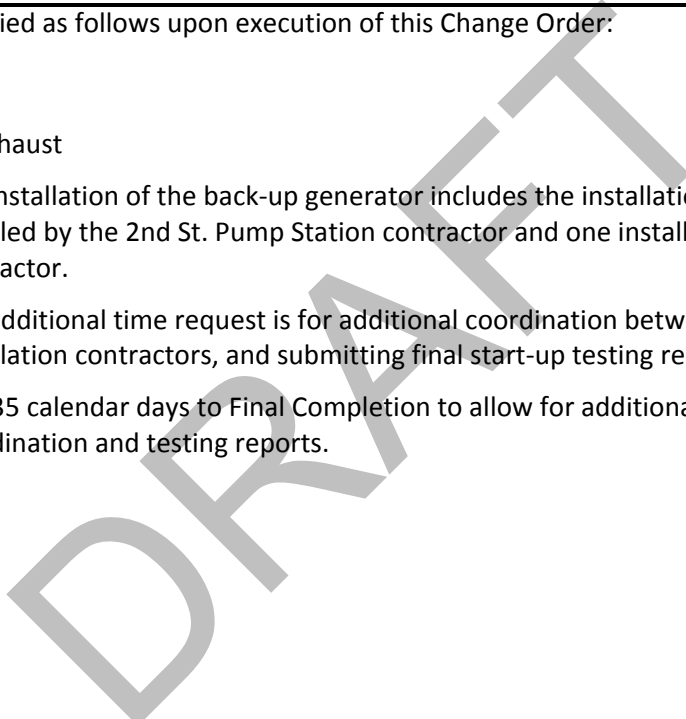
Project: Fargo-Moorhead Area Diversion Contract Name: Flood Control, 2nd Street North, South of Pump Station

The Contract is modified as follows upon execution of this Change Order:

Description:

1. Generator Exhaust

- a. The installation of the back-up generator includes the installation of 2 controllers, one installed by the 2nd St. Pump Station contractor and one installed by the City Hall contractor.
- b. The additional time request is for additional coordination between the two controller installation contractors, and submitting final start-up testing reports.
- c. Add 35 calendar days to Final Completion to allow for additional contractor coordination and testing reports.



Attachments:

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES <i>[note changes in Milestones if applicable]</i>
Original Contract Price: 16,184,905.85	Original Contract Times: Interim Milestone A: <u>November 30, 2015</u> Substantial Completion: <u>October 1, 2016</u> Ready for Final Payment: <u>June 15, 2017</u>
[Increase] [Decrease] from previously approved Change Orders No. <u>01</u> thru <u>19</u> : 535,685.30	[Increase] [Decrease] from previously approved Change Orders: Interim Milestone A: Substantial Completion: Ready for Final Payment:
Contract Price prior to this Change Order: 16,720,591.15	Contract Times prior to this Change Order: Interim Milestone A: <u>December 30, 2015</u> Substantial Completion: <u>November 7, 2016</u> Ready for Final Payment: <u>January 26, 2018</u>
{Increase} [Decrease] of this Change Order: 0	[Increase] [Decrease] of this Change Order: Ready for Final Payment: 35 calendar days
Contract Price incorporating this Change Order: 16,720,591.15	Contract Times with all approved Change Orders: Interim Milestone A: <u>December 30, 2015</u> Substantial Completion: <u>November 7, 2016</u> Ready for Final Payment: <u>March 2, 2018</u>

<p>RECOMMENDED:</p> <p>By: _____ Owner's Representative (Authorized Signature)</p> <p>Name: <u>Nathan Boerboom</u> Title: <u>Project Manager</u> Date: _____</p>	<p>ACCEPTED:</p> <p>By: _____ Owner (Authorized Signature)</p> <p>Name: <u>Michael J. Redlinger</u> Title: <u>Co-Executive Director</u> Date: _____</p>	<p>ACCEPTED:</p> <p>By: _____ Contractor (Authorized Signature)</p> <p>Name: <u>David Goulet</u> Title: <u>Project Manager</u> Date: _____</p>
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CHANGE ORDER REQUEST

Industrial Builders, Inc.
15274- - 2nd Street Floodwall and Road Relocation

DATE: 1/9/2018

PCO#:12

To: Jesse Lundin
CH2M Hill Engineer's Inc
657 2nd Ave N
Fargo, ND 58105-5405
Phone: 701-205-3771
Fax:
Email: Jesse.lundin@ch2m.com
CC:

From: David Goulet
Industrial Builders, Inc.
PO Box 406
Fargo, ND 58107-0406
Phone: 701-356-9827
Fax:
Email: dgoulet@industrialbuilders.com

Below is the detail for our proposal to complete the following changes in contract work:

- **PCO: Time Extension**

- This change order is a time extension request with no additional cost. Due to the coordination between many different contractors and contracts there has been a delay in the generator installation.
- **IBI is requesting to extend the final contract completion date to March 2, 2018.**

PCO Item	Status	Change (in Days)	Quantity	UM	Unit Price	Amount
1 : Time Extension	Initiated		1.000	L S	0.00	0.00

Submitted By:

Approved By:

1/9/2018

David Goulet

Date

Jesse Lundin
CH2M Hill Engineer's Inc

Date

FARGO-MOORHEAD
AREA FLOOD
DIVERSION TASK
FORCE:
FINAL REPORT

January 18, 2018

I. Fargo-Moorhead Area Flood Diversion Task Force Summary

North Dakota Governor Doug Burgum and Minnesota Governor Mark Dayton created a joint Task Force to propose the framework for flood risk management for the Fargo-Moorhead region. The Governors served as the Task Force Co-Chairs. Each Governor appointed eight members seeking to represent the range of perspectives in the region. Over a series of five meetings between October 23 and December 11, 2017, the Task Force's role was to discuss flood control options and make recommendations. These recommendations are available for consideration by the Diversion Authority for a future permit application for flood control.

Purpose

The purpose of the Task Force was to develop design principles and concept-level engineering solutions to achieve balanced flood risk management for the Fargo-Moorhead region, including upstream- and downstream communities and properties.

Key Parameters

At the meeting held on October 4th between Governor Burgum and Governor Dayton, two key parameters for the Task Force's work were identified and agreed to:

1. Find solutions within the parameters established by applicable Minnesota, North Dakota and local law.
2. Maintain federal authorization and associated funding for permanent flood protection, unless more expedient and low-cost options are presented that provide protection for a one percent chance flood (i.e., 100-year flood as defined by the Task Force) accreditation by FEMA under the National Flood Insurance Program.

Task Force Members

Minnesota Task Force Members:

- Del Rae Williams, Mayor, Moorhead.
- Heidi Durand, City Council Member, Moorhead.
- Joel Paulsen, City Council Member, Moorhead.
- Jenny Mongeau, Clay County Commissioner.
- Tim Fox, Former Wilkin County Attorney.
- Mark Anderson, Treasurer, Buffalo-Red River Watershed District.
- Curt Johannsen, Mayor, Hendrum.
- Steve Jacobson, Norman County Commissioner.

North Dakota Task Force Members:

- Jason Benson, Cass County Engineer.
- Rob Bergan, Fargo Business Leader and Entrepreneur.
- Nathan Berseth, Richland County Commissioner.
- Bernie Dardis, Board Chair, Greater North Dakota Chamber of Commerce.
- Craig Hertsgaard, Farmer, Richland County.
- Tami Norgard, Vogel Law Firm.
- John Strand, Fargo City Commissioner.
- Ken Vein, City Council Member, Grand Forks

Technical Advisory Committee

The Task Force created a Technical Advisory Committee that included engineers and staff from the Diversion Authority and the Minnesota Department of Natural Resources. This Technical Advisory Committee presented the Task Force with engineering options to address concerns about project impacts in each state and county, maintaining the flood plain, and cost considerations.

Technical Advisory Committee Members

- Bob Zimmerman, City Engineer, Moorhead.
- Nathan Boerboom, City Engineer, Fargo.
- Greg Thielman, Principal/Senior Project Manager, Houston Moore Engineering Group.
- Suzanne Jiwani, Floodplain Engineer, MN Department of Natural Resources.
- Jill Townley, Principal Planner, Environmental Review.
- Kent Lokkesmoe, Administrator of the Management Resources Bureau, DNR.

Task Force Findings

The Task Force focused on variables related to conceptual engineering designs. Early on, the Task Force came to consensus on the level of protection the project should provide, with consideration for the need to be able to fight bigger floods. While formal consensus was not reached on other variables, the Technical Advisory Committee made recommendations on a number of variables that the Task Force discussed. There were more controversial variables that the Technical Committee did not come to agreement on, and the Task Force asked for further technical review. The key variables discussed include:

1. What is the level of protection?

Task Force consensus: 100 year protection at 33,000 cfs

2. Should there be a western tie-back?

Technical Committee Recommendation: The Tech Committee recommends this, as it reduces upstream impacts. No Task Force members expressed opposition to the western tie-back.

3. Should there be an eastern tie-back?

Technical Committee Recommendation: The Tech Committee recommends this, as it reduces upstream impacts. No Task Force members expressed opposition to the eastern tie-back, though at least one member expressly reserved judgment regarding the correct alignment.

4. How much water runs through town?

Technical Committee Recommendation: Design for a river stage of 37 feet through town.

Note: The Army Corps said they would be able to certify 100-year protection for a system that runs 37 feet through town and also said this approach would likely work for the current authorization. Over the past 100 years, a river stage of 37 feet through Fargo and Moorhead was exceeded for 28 days.

5. Is there northern storage in the downstream area?

Technical Committee Recommendation: The Tech Committee was neutral. It would store water in the northwest part of the project area; however, it reduces the staging area elevations 0.03 feet. It does maintain natural floodplain acres, which is important overall for Minnesota permissibility.

6. Is there a change in the embankment structure?

For the purpose of identifying a potential alignment recommendation, the Technical Committee considered different options for the dam alignment--- 7A, B and C were presented to the Task Force. It was discussed how 7A would likely not be permissible by the Minnesota DNR. The Army Corps of Engineers had concerns with 7B and maintaining federal authorization. Option 7C maintained more floodplain than 7A and less than 7B, DNR said that 7C would likely need some additional storage added to be permissible. The combining of the options to maximize storage was suggested by some Task Force members and DNR. Combinations of 7A, 7B, and 7C as well as 7C alone were discussed by the Task Force.

7. Is there an increase in downstream water levels?

This is an issue related to dam operation, rather than constructed project features. The Technical Committee considered an operational approach that would allow up to six inches of stage increase downstream. This would occur at Climax, MN because of a narrowing of the river. A six-inch stage rise at Climax would translate to less than 0.5 inches at the Canadian border. The Task Force Charter called for more balanced impacts upstream and downstream, which implies more flow to the downstream area. However, the impact on water levels at the Canadian border and other downstream communities were significant concerns for several Task Force members. Further determination of this issue can be considered in the operating plan for the dam.

II. Technical Advisory Group Final Report

Background:

The Technical Advisory Group (TAG) was created as an advisory group to the Fargo-Moorhead Area Flood Diversion Task Force to assess components and alternatives and provide technical guidance to the Task Force. Members of the TAG include:

Kent Lokkesmoe - DNR Manager;
 Suzanne Jiwani – DNR Floodplain Engineer
 Jill Townley – DNR EIS Manager
 Bob Zimmerman - Moorhead City Engineer
 Nathan Boerboom - Fargo Division Engineer
 Gregg Thielman - Diversion Authority Engineer

The TAG held public meetings on November 14, 2017 and November 28, 2017. As part of these meetings the TAG:

- Defined criteria to evaluate alternatives and components. This includes the following key criteria (not in particular order):
 - Satisfy Task Force Charter
 - Meet Laws and Ordinances
 - Minimize Residual Risk
 - Reduce Floodplain Impacts
 - Reduce Environmental Effects
 - Limit Impacts to Structures
 - Resilience/Robustness of Design
 - Cost and Engineering Feasibility
 - Upstream and Downstream Impacts
 - Impacts at the U.S./Canadian Border
- Screened components and alternatives for further evaluation. Components that were considered include:
 - Distributed Storage Alternative
 - Western Tie-back Levee
 - Additional Flows Through Town (River Stage (RS) 35', 37', 38', and 39')
 - Levee-only Alternative
 - Change Location of Dam/Southern Embankment
 - Northern Storage Option
 - Allowing Increased Downstream Impacts (up to 6 inches maximum)
 - Wild Rice River-only Diversion
 - Eastern Tie-back change
- Reviewed technical data and developed information for presentation to the Task Force at their November 29, 2017 and December 11, 2017 meetings.

The Task Force did not discuss funding sources or other financing opportunities for any consensual or majority recommendations.

Meeting notes, and guidance documents developed by the TAG are included in *Appendix A*.

The Task Force directed the TAG to use full period of record hydrology for its analysis. Based on this direction, the analysis uses a 1-percent annual chance (100-year) discharge of 33,000 cubic feet per second (cfs) at the USGS Fargo stream gage.

November 29, 2017 Task Force Meeting:

The TAG presentation, titled “Component Analysis” as well as technical data presented at the November 29, 2017 Task Force meeting are included in *Appendix B*. Following is a summary of project components that were developed and presented by the TAG:

- Western Tie-back Levee – This component shifts the Limited Service Spillway for the dam/southern embankment to the west along an existing natural ridge. This reduces the staging elevation and utilizes more storage in North Dakota. It was included in components 1, 3, 4, and 5 that were presented.
- Consideration of Distributed Storage – It is recognized that Distributed Storage provides overall basin-wide benefit, but due to the implementation schedule and need for in-place storage for potentially reducing the 100-year discharge for accreditation purposes, this alternative was not analyzed as part of any components or alternatives by the TAG. To the extent that distributed storage (owned by a public body) is constructed and operational prior to completion of the Fargo-Moorhead project, the resulting changes in hydrology could be incorporated into the Letter of Map Revision (LOMR) for the Fargo-Moorhead project. Distributed storage completed after approval of the LOMR for the Fargo-Moorhead project would serve to increase the level of risk reduction (beyond a 100-year event).
- Components #1a-1d - Additional Flows Through Town – The TAG presented information on the impacts of increasing the flow through town from RS35’ to RS37’, RS38’, and RS39’. Results were presented using the proposed project alignment.
- Component #2 – Levees Only – The TAG presented a conceptual ring levee plan that could potentially achieve FEMA Accreditation and protect the communities of Fargo and Moorhead.
- Components #3a-3c – Dam/Southern Embankment Alignments – The TAG presented 3 conceptual revised alignments for the southern embankment/dam. These include the North of the Wild Rice River (3a), Northern Alignment Alternative (3b) and Modified Storage Area 1 (3c) alignments.
- Component #4 – Northern Storage Option – The TAG presented a component that would increase flows into the flood damage reduction area through the Sheyenne and Maple River

Aqueducts. This would reduce the amount of lost floodplain storage in the northwest project area.

- Component #5 – Change Operation Plan to allow up to 6 inches of Downstream Impacts – The TAG presented a component that would change the project operation to allow up to a maximum of 6 inches of impact downstream from the project.
- Component #6 – Wild Rice River Diversion with Levees (no dam) – The TAG evaluated a component that would divert the Wild Rice River through the proposed project diversion channel and not divert water from the Red River or include a dam/southern embankment to mitigate impacts. This component would result in downstream impacts in excess of 1.5 feet in some areas along the Red River.

During the November 29, 2017 Task Force meeting, the Task Force directed the TAG to further evaluate components and bring information back to the December 11, 2017 Task Force meeting as follows:

- Include the Western Tie-back levee in all options
- Distributed Storage is part of a long-term strategy and will not be included in the current analysis
- Develop 3 alignment options for consideration
- Include results for RS37', RS38', and RS39'
- Include option that allows up to 6 inches of downstream impacts

Additional criteria the TAG was asked to consider in developing alternatives include:

- Strive for equity in impacts – ND/MN
- Minimize acres removed from the floodplain
- Minimize newly impacted acreage and structures
- Consider economics – cost increases and reductions

December 11, 2017 Task Force Meeting:

The TAG presentation, titled “Option Analysis” as well as technical data presented at the December 11, 2017 Task Force meeting are included in **Appendix C**. Following is a summary of project components that were developed by the TAG and presented:

- Western Tie-back Levee – As noted above, this component shifts the Limited Service Spillway for the dam/southern embankment to the west along an existing natural ridge.
 - *This component was recommended by TAG and included in all of the options that were presented.*
- Eastern Tie-back – The proposed project eastern tie-back for the dam/southern embankment extends to existing high ground near Clay County Highway 11 between Sections 7 and 8 of Alliance Township in Clay County, MN. This component turns the eastern tie-back south in Section 2 of Holy Cross Township, Clay County and extends south

for approximately 5.5 miles and ties into existing high ground in Section 36 of Holy Cross Township near Clay County Highway 50.

- *This component reduces the acreage of newly impacted floodplain in Minnesota and was recommended by TAG. It was included in all of the options that were presented.*
- Northern Storage/Diversion Channel Alignment – In an attempt to lower the staging area elevation and have more balanced impacts, the Task Force recommended storing more water in the northwest portion of the flood damage reduction area. Instead of increasing the size of the aqueducts to pass more water into the lower Sheyenne and Maple Rivers (which would be very costly), changing the diversion alignment was evaluated. This change would have the potential to preserve more existing floodplain. An alignment change that shifts the project east between the BNSF Prosper Subdivision rail line and Interstate 29 was considered and presented. This shift preserves approximately 1800 acres of existing floodplain, but only reduces the 100-year elevation in the staging area by 0.03 feet. Other options to shift the alignment further east were considered, but were not analyzed further due to existing residential developments and structures and the multiple river and roadway crossings in this area.
 - *The TAG was neutral on this component due to the limited reduction in the staging elevation it provided and it was not included in any of the options that were presented.*
- Additional Flows Through Town – The TAG presented information on the impacts of increasing the flow through town from RS35' to RS37', RS38', and RS39'. Results were presented using the proposed project alignment.
 - *The TAG recommended that a flow through town that results in a RS37' during the 100-year flood event be carried forward and RS37' was used for all of the options that were presented. The communities will have to construct additional protection to manage the additional flows through town associated with RS37'.*
- Allow Downstream Impacts up to 6 inches – The TAG evaluated and presented options for changing the project operation to allow up to a maximum of 6 inches of downstream impact to achieve a balance between upstream and downstream interests. The 6-inch maximum impact would occur on the Red River in the vicinity of the city of Climax, MN, where the floodplain is relatively narrow. Analysis was performed for Options 7A, 7B, and 7C and the change results in a maximum staging area reduction at the dam of 0.3' to 0.4', depending on the option. Concerns with this component include potential impacts extending beyond the U.S./Canadian border and potential downstream mitigation costs associated impacted residential structures and existing community flood protection systems. It may be possible to allow downstream impacts less than 6 inches without causing an impact across the U.S./Canadian border. This was not an analysis that TAG completed.
 - *The TAG identified this is a policy/permit decision that will be evaluated more going forward. This is an operational issue and does not directly impact design considerations.*
- Change Location of Dam/Southern Embankment – The TAG developed and evaluated 3 alignment options for the dam/southern embankment. These alignments all shift the dam north (from the proposed project alignment) and added storage in North Dakota. Option 7A is very similar to Component 3c that was presented at the November 29, 2017 Task Force meeting and shifts the alignment north to the west of Interstate 29 and adds

approximately 3,000 acres of storage. Option 7B (which includes the area that is part of Option 7A) shifts the alignment further north to the west of Interstate 29 and adds approximately 5,200 acres. Option 7C shifts the alignment further north both west and east of Interstate 29 and adds approximately 4,800 acres of storage. All three options reduce the staging area elevation; shift more floodplain into North Dakota; and reduce the area removed from the floodplain within the protected area. They also reduce the newly impacted floodplain acreages in Richland County, North Dakota and Wilkin County, Minnesota. Preliminary cost estimates associated with these options were also developed.

- *The TAG did not recommend an Option for changing the dam/southern embankment alignment.*

Issues Yet to be Resolved:

- Dam/Southern Embankment Location
 - Due to time constraints, the TAG was not able to evaluate other potential alignments other than 7A, 7B, and 7C.
 - Shifting the alignment north of the proposed project alignment, similar to the options presented by TAG, seemed to be acceptable to most Task Force members. The exact alignment of the dam would still need to be determined.
- Amount of storage in North Dakota
 - Increasing storage in North Dakota reduces the staging area elevations and reduces new inundation impacts in Minnesota. The exact proportion of new and/or total inundation impacts between North Dakota and Minnesota that would result in a permissible project was not specified. It seemed that most Task Force members were favorable to the reduced newly inundated acres in Richland and Wilkin Counties as shown by TAG in the presented options, as well as the improved equity of impacts between Minnesota and North Dakota.
- Project Permittability
 - The TAG's primary objective was to serve as a technical advisory group to the Task Force, and therefore, TAG did not provide any recommendations on alignment.
 - The TAG advised that 7A would likely not receive a Minnesota permit, but that 7B and 7C, or a combination thereof, might be more permissible.
 - Future permissibility questions will be a discussion between the Diversion Authority and both the Minnesota DNR and North Dakota SWC.

III. Statements from Governors

Governor Dayton:

I want to thank our Task Force's Co-Chair, Governor Doug Burgum, for his excellent leadership throughout this process. We have forged a good working partnership, which will be important for this and other collaborative projects, involving our two states.

I also thank the Task Force Members for their tremendous work. Their dedication was the key to our successful completion. And I greatly appreciate the enormously important contributions made by Members of the Technical Advisory Committee, by North Dakota and Minnesota agency experts, and by our two staffs. This was a team effort all the way.

The many important considerations that were presented from a wide range of stakeholders and experts provide a framework for moving forward on flood risk management for the Fargo-Moorhead region. Just as important was the model we established for a truly inclusive, collaborative process, rather than its one-sided, adversarial predecessor.

Reliable and effective flood protection for the cities of Moorhead and Fargo and their surrounding regions is essential. It is a prerequisite for successful future economic growth, business expansion, job creation, and social vitality. Yet it cannot come at the excessive sacrifice of other people's lands, lives, and livelihoods. For a project of this magnitude and complexity, those considerations are also essential.

It would be naive to believe that such a re-routing of massive amounts of water throughout widely divergent climate conditions over the next one hundred years and beyond could avoid any negative impacts on someone. That is why it is so critical to have the different stakeholders represented in this public process. For Minnesota, that would mean representation on the Diversion Authority from the areas both north and south of Fargo-Moorhead, in addition to the Members from those two cities. For the sake of continuity, it would be most desirable to add to the Authority Board individuals, who have served on this Task Force.

The project that was previously submitted to the Minnesota Department of Natural Resources did not meet our state's laws and regulations. Minnesota is committed to helping identify a solution, but major changes must be made to the proposed project.

I am hopeful that the Task Force's work has provided guidelines for the Authority's re-fashioning of its previous proposal to meet those laws and regulations. I emphasize that the necessary approvals will be decided by the Minnesota DNR, in accordance with those requirements and without interference by myself or anyone else. The active participation on the Task Force by the DNR's Commissioner and technical experts should not be construed as predetermining their permitting decisions.

There are other critical components of the project, which were not made known to the Task Force. Most important is the just compensation for any losses, temporary or permanent, suffered by any landowner, business, or other entity, resulting from the project. Committing publicly that fair compensation will be provided without delays or difficulties, is, in my view, absolutely necessary

before the project proceeds. Also needed to be made public is a detailed budget, for both the capital investments and the annual operating expenditures, the anticipated sources and amounts of funds, and the intended fiscal and operating authorities.

The Diversion Authority now has the responsibility to take all of these views and recommendations and combine them into a permissible application to the Minnesota DNR. I stand ready to work with my colleague, Governor Burgum, on other matters regarding this important project.

Governor Burgum:

Reviving the stalled effort to provide permanent flood protection for the greater Fargo-Moorhead area has been an exercise in the art of the possible. I extend my gratitude to Governor Dayton, task force members, the technical advisory group, Minnesota and North Dakota regulatory agencies, and the engaged citizens who made this public process so productive.

We put collaboration ahead of litigation and gathered informed and passionate perspectives from all sides around the same table. We explored a variety of concepts to provide regional protection and, through the process of elimination, made notable strides in identifying approaches that could ensure permanent protection in a cost-effective manner.

Still, much work remains with needed additional collaboration between the Diversion Authority, Minnesota DNR, Army Corps of Engineers and Richland-Wilkin JPA. As stated at the convening meeting, we must develop a project that is permissible under North Dakota and Minnesota law.

It remains clear that a diversion channel with control structures is the only economically viable solution that will provide certifiable protection for citizens, relieving thousands of ND and MN homeowners of the need to purchase flood insurance and allow the region to fight floods beyond a 100-year event.

The need for permanent flood protection is well understood. A solution has been nearly a decade in the making; and now, protection can and must be completed in an expedited fashion. We cannot afford to risk another event like the devastating 1997 Grand Forks-East Grand Forks flood. The Fargo-Moorhead-West Fargo greater metro is the region's largest economic engine – and must be protected from a catastrophic flood event.

We are deeply grateful for the dedicated engagement from all parties involved to move the conversation closer to resolution. My office will continue to work in partnership with Governor Dayton toward finalizing a permissible project, and I commend him for his commitment and engagement throughout this process and his dedication to finding a solution.

IV. Task Force Member Statements

Each Task Force member was afforded the opportunity to submit a statement after the final meeting of the Task Force on December 11, 2017. The following statements have been submitted directly from Task Force members. These statements are published “as is” and have not been reviewed for factual accuracy, spelling or grammar. They represent the opinions of the individual Task Force members and do not represent the views of the governors’ offices, the Task Force as a whole, or the entities referenced therein.

Minnesota Representatives:

Mark Anderson- Treasurer, Buffalo-Red River Watershed District

I think that the Task Force should be looked at as a good starting point. Fargo and the Diversion Authority need to embrace a process to achieve permanent flood protection for Fargo-Moorhead. This process has to involve the people and agencies that will be affected by any project. The agencies, government entities, and people that should be at the table during the development process, are: the Minnesota DNR, the Minnesota DOT, Burlington Northern Santé Fe Railroad, Buffalo-Red River Watershed District, Holy Cross Township, Village of Comstock, and the downstream and upstream concerns of the homeowners and landowners affected by the project. This process will help identify problems at the beginning, not at the end. Some problems that have not been adequately addressed are flowage easements, land values, the raising of Trunk Highway No. 75 and County Road No. 2, and raising of the Burlington Northern Santé Fe Railroad tracks. The proposed eastern tieback levy also has some problems regarding local drainage. If a project of this magnitude is to succeed, it must follow all current laws and procedures. I am confident that the State of Minnesota and the Minnesota DNR will have the Diversion Authority comply with all the applicable laws and rules that the citizens of Minnesota must comply with. Thank you.

Heidi Durand- City Council Member, Moorhead

The intent of this report is to express the continued concerns upon the conclusion of the work done by the taskforce. The group of people who will be responsible for creating a flood protection project will need to assure the impacted communities by proving it is the least impactful, the most fair, follows moral and ethical principles; meets the basic needs of the community; and follows state and local laws.

There is no question the Fargo-Moorhead and surrounding communities are in need of permanent flood protection. Without a doubt, floodwaters have affected everyone in this community in some way. Everyone has a flood story to share. The need for protection is not in question. It is the manner in which protection is achieved that continues to be in question. Who pays and how much? Who is inundated and who is protected? What level of protection is wanted and what is needed? What is fair mitigation? What is a balance of impacts?

It is my strong belief that you cannot displace your water problem upon someone who has never had the problem; and those who benefit the most from a project must assume the most impacts associated with the project. Elected officials have an obligation to everyone impacted by a project in which their municipality is involved. If the city of Moorhead is involved in a project that has negative impacts for people outside the city's boundaries, the councilmembers are still obligated to think about those people and their well-being in decision-making. The notion that Moorhead should not "care" about the concerns of people in Clay or Wilkin, Cass or Richland counties is wrong.

The following is a list of remaining concerns and questions I have regarding the purpose and parameters of the taskforce and the key variables identified in the taskforce summary.

1. The purpose of the taskforce was to develop design principles and concept-level engineering solutions to achieve balanced flood risk management for the Fargo Moorhead region.
 - a. My continuing question is if Cass County is expected to receive 80-90 percent of the benefit of the project should they not assume 80-90 percent of the impacts? Those involved with the project are quick to point out that North Dakota and Cass County are assuming 90 percent of the financial costs but "impacts" include more things than just dollars. Impacts should include inundation and dedicated flood plain preservation as well.
2. Two key parameters for the taskforce's work include solutions that were within the parameters of Minnesota, North Dakota, and local law; and that maintained federal authorization.
 - a. Maintaining federal authorization restricted the taskforce's ability to develop alternatives. Every option that may have resulted in lower costs or less impacts was shot down before it even had a chance to be discussed. Critics were always quick to assert, "It could result in a change that would jeopardize federal authorization." This parameter held back discussions and was detrimental to the work.
3. Key variables of concern:
 - a. The eastern tieback was presented and many agreed it was worth more studying. However, there are consequences that were not thoroughly discussed or presented. Perhaps a better solution would be to use an existing feature, such as highway 75, which could also function as a tieback.

- b. Northern storage was briefly discussed and many people favored studying it further. The only option presented appeared to be a sliver of what could be pulled in for additional storage. We heard repeatedly that floodplain preservation was the best way to fight floods. This is an opportunity to do just that and must be a part of any future project.
 - c. More drastic changes in the embankment (high hazard dam) need to be explored. This is where the operational variable and the high hazard dam are connected. We were often told the dam was necessary to reduce the downstream impacts. If the State of North Dakota will follow the State of Minnesota's statutes regarding downstream impacts like they said they would, the height of the high dam could be reduced or perhaps even eliminated. The taskforce received information on mitigation work done in Manitoba. We were told that people "learn to live with the water" and rural homesteads are all ring-diked. If it works for Manitoba, perhaps it could work in the Red River Valley as well and mitigate any downstream impacts.
4. The use of the phrase "newly impacted structures." I repeatedly expressed my concern with this notion of identifying areas as "newly impacted." It is my belief this phrase was misleading and used inaccurately. For example, if a structure never had protection to begin with it, but changes to the plan would no longer benefit from the project, it should not be considered "newly impacted." This catchphrase was used to steer conversations away from several flood plain preservation options.

At the end of the last taskforce meeting, I left doubting there were enough changes or modifications made that would result in a permitable project. Many members tried to reiterate this point and make it clear that the current plan violates Minnesota law and cannot be permitted. However, it did not seem to matter to the handful who continued to resist any major changes.

The lack of changes in the dam structure/alignment and the Minnesota impacts left largely untouched leave us where we started. Despite the DNR's willingness to assist well-intended individuals who came to the table ready to work toward a project that could gain wider support, meet the needs of the communities, and be permitable, the refusal by some to look at major changes has done nothing but solidify the demise of the project. The DNR cannot "change their mind" and permit this project without jeopardizing their credibility. After all, who will bother to wait for a permit after witnessing the Diversion Authority do as they wish without obtaining necessary permits?

Tim Fox- Former Wilkin County Attorney

The Task Force received several presentations of varying relevance. Presentations by the Diversion Authority and Army Corps were intended to persuade the Task Force that the current project should proceed without change. It was not until the final meeting that a realistic effort was made to begin the process of addressing Federal and State laws intended to preserve existing floodplains. The

crux of the dispute is the transfer of floodplain impacts either down stream or upstream. The current plan, as confirmed by Governor Burgum when referencing the development of another subdivision near Davis High School, is to continue development in both south and northwest Fargo in areas that are currently in the floodplain and unfit for development.

There were several points of persuasion used throughout the presentation and discussion by project proponents that were misleading or made with faulty assumptions.

- 1) Base Line Comparisons: Using the current project, a project that has been denied a DNR permit, as a base line for comparisons or modifications was misleading and could only lead to false assumptions. One of the most obvious misleading assumptions was the designation of the unlawfully constructed inlet structure as a starting or ending point for the alignment of the diversion channel. The vast sums of money spent on Oxbow have clouded the clear benefit of maintaining the south Fargo floodplain while removing or greatly diminishing the impacts of Oxbow, Hickson and Bakke being in the staging area, and incidentally resulted in a \$150 million savings. But for unlawful action of the DA, these saving should be a legitimate consideration. Numerous land acquisitions Northwest of Fargo have let to speculative land development in a floodplain area. The slate does need to be wiped clean in order to develop flood protection conforming with Federal and State legal and regulatory criteria. Floodplain Development or previous errors in judgment cannot be the guiding force in pursuing a permissible flood protection project for Fargo.
- 2) Army Corps Legal/Regulatory Comments: On several occasions the Corps was asked to provide legal or regulatory comments. The Corps refused, when asked, to acknowledge the regulatory authority of the State of Minnesota. By commencing construction of the project, not only once but twice, only to be stopped by the Federal Court, asking the Corps to provide comments about regulations or rules seemed strange at best. The Corps made responses in the nature of what made them comfortable or uncomfortable. If defying Minnesota law and proceeding into construction of a project while legal action was pending, did not make them uncomfortable, little deference should be given to any Corps opinion.
- 3) Newly Impacted Structures: The entire process of having data provided that tallied newly impacted or not impacted structures was clearly questionable. During the three most recent major floods, the entire area between Oxbow and South Fargo was nothing but a lake. How are there newly impacted structures in an area that is and has been a floodplain and regularly under water? When were these homes/schools built? Why does construction continue today in an area that should be preserved for floodplain to protect Fargo? On the opposite spectrum, there will be numerous farm sites and structures in South Clay and Cass Counties and North Richland and Wilkin Counties impacted by the dam and staging area. Many of the uncounted structures in these areas are considered already impacted though they have never flooded and are not in a floodplain. The distortions created by not recognizing truly impacted structures', to skew the support of the current project, will lead to years of

litigation when impacted property owners, flooded by a dam on the Red River, have never having been compensated or consented to a flowage easement. Again, this data as presented during the Task Force meetings seemed to be readily accepted by diversion proponents but carefully questioned by others. Conclusions of this nature should be closely scrutinized for accuracy.

- 4) **Levee Only Option:** At my suggestion this option was again reviewed. However, the conclusion as presented was in a single line of a report. The conclusion stated that it was rejected because of cost, suggesting the cost was \$1.9 Billion. There were not any details as to how that cost was determined. Interestingly, that would be a savings over the current proposal and have far less negative impacts. It is another proposal with less negative impacts and reduced costs.
- 5) **Minnesota Diversion:** Little attention was given to the option, though it was the preferred option costing less with fewer negative impacts. Governor Dayton originally excluded it from consideration but later stepped back from that position. It should remain an option and be used as the baseline for comparisons of project configurations rather than the currently proposed project.
- 6) **Final Day Options:** The only real progress, though limited, occurred on the last day of the task force meeting. Three individual options were presented. It was immediately evident, that at a minimum, a combination of all options would be an excellent starting point. That suggestion was met with decisive opposition from Governor Burgum.
- 7) **My Option:** Following up on the presentation by Charlie Anderson, a rough draft of an alignment was put together prior the last task force meeting. That draft/map was distributed towards the end of the Task Force meeting. At one-point Governor Dayton inquired as to what my alternative would be. My initial response was reciting floodplain policy, indicating that preserving the floodplain was the top priority. Governor Dayton than discovered the draft map that was handed out. Keeping in mind that neither I, Richland/Wilkin JPA or the Upstream Coalition have engineering firms at our “beck and call” there were joint discussions on obtaining an independent engineering analysis. As a follow up to the comments of Governor Dayton, Charlie Anderson has been retained to provide a more detailed analysis of a design the would preserve floodplain while providing flood protection to Fargo.

Steve Jacobson- Norman County Commissioner

It is generally accepted that Fargo-Moorhead needs flood protection. What level of protection and at what cost is the issue of debate. Minimizing the cost, both in dollars, and adverse impacts, is of most importance in developing flood protection for FM.

All should be done to minimize upstream and downstream impacts of the project that will give adequate flood protection to developed areas of the Fargo-Moorhead community.

I came into this task force thinking that, there is no way on earth that the DNR will permit a control structure in the channel of the Red River. I'm not so sure of that anymore. The diversion plan will not work without the control structure. Federal funding will not be available without it.

So something is going to have to give on this. If the DNR does not issue a permit for a southern embankment control structure, Fargo-Moorhead flood protection is going to have to take a different approach.

Curt Johannsen- Mayor, Hendrum

There is no doubt that the people of the Fargo-Moorhead area need and deserve flood protection, just like anyone else in the Red River Valley; however, the debate occurs on what is the proper and best way to achieve it. I believe flood protection is obtainable if people listen to one another and collaborate on a solution as much as they do when they are helping to protect their neighbors from a flood. Unfortunately, this spirit of collaboration has been missing from the discussion for quite some time. However, Governor Mark Dayton and Governor Doug Burgum were able to create a cooperative dialogue through the establishment of the Fargo-Moorhead Area Flood Diversion Task Force which was able to offer some recommendations to the Diversion Authority. The following is my comments on the task force's recommendations.

As much as I support basin wide retention efforts, I believe that distributed storage alone cannot achieve the certifiable level of protection that is necessary to protect Fargo-Moorhead; however, retention efforts should be pursued simultaneously in order to increase the Fargo-Moorhead area's level of protection as well as assist in providing basin wide protection. I also do not believe that a levee only alternative is an acceptable solution since the cost would be comparable to that of a diversion and provide less protection with considerable impacts. Therefore, I support the diversion concept as long as impacts both upstream and downstream are minimized and mitigated to the best of the ability.

I strongly support the task force's consensus of using the full period of record hydrology to determine that the one percent annual chance (100 year) flood level would be at 33,000 cubic feet per second. Furthermore, I agree with the Technical Advisory Group's recommendation for the Western Tie-back Levee as well as the modifications to the Eastern Tie-back Levee in order to reduce upstream impacts, increase floodplain in North Dakota and reduce newly inundated floodplain in Minnesota. In addition, I am in favor of pursuing a design that would allow up to 37 feet passing through town on the Red River during a one percent chance event.

I do not support the Northern Storage Option and adjusted diversion alignment resulting from it. Even though this option preserves more of the natural floodplain, it results in minimal staging area reduction therefore doing very little to reduce upstream impacts. The outcome is less area being

protected with a diversion channel that will have sharp bends resulting in an increase in maintenance costs due to erosion in the channel.

Probably the most significant change to the diversion design would be the Southern embankment alignment. Unfortunately, the Task Force could not come to an agreement on where the alignment should be. Even though each option (7A, B, and C) had their own pros and cons, I strongly believe that a combination of these three alignments could offer the most benefits in reducing upstream impacts. I don't think it is worthwhile to further investigate option 7A since the Minnesota Department of Natural Resources will likely not permit it, and 7B since the Army Corps of Engineers had concerns with it maintaining authorization. Instead, I believe that a combination of both options 7A and 7C warrants further investigation. Whatever the result is, shifting the Southern embankment alignment further North is necessary in order to utilize more of the natural flood plain which will considerably reduce negative impacts.

Despite the fact that allowing more water downstream would result in a modification to the operation plan rather than a change in the diversion design, it still warrants discussion here. The reason that the original design of the diversion had upstream storage built into it was to mitigate downstream impacts. Although the staging area influences the upstream, those effects are considerably less than what the negative impacts would be to the downstream without it. Not only would more structures be affected downstream, which would require costly mitigation, but the potential exists to also cause an increase in water levels at the United States/Canadian border which would require approval from International Joint Commission under the Boundary Waters Treaty. The six inches of additional water that the Technical Advisory Group evaluated sending downstream would cause an impact at the International Border thus violating the treaty unless approval was obtained. Even if approval could be obtained, the process would definitely add several years to the diversion timeline. Not to mention, is it worth upsetting our great neighbors to the North for something that may not even be possible? Furthermore, any additional water sent downstream has the potential to negatively impact existing community flood protection measures and their ability to maintain certification which would require costly mitigation. Any additional water sent downstream that has the potential to negatively affect the agricultural industry must also be taken into consideration.

In closing, I would like to express my gratitude to Governor Dayton and Governor Burgum for the great leadership they showed by establishing the Fargo-Moorhead Area Flood Diversion Task Force. Furthermore, I would like to show my appreciation to the task force members for their valuable, professional input and their collaborative effort to help the Fargo-Moorhead area achieve certifiable flood protection with minimal impacts to their neighbors. I would also like to thank the Technical Advisory Group for all their hard work and expertise. I hope the Diversion Authority continues with this spirit of cooperation by allowing all affected parties, including those both upstream and downstream, to have a voting seat on the Diversion Authority as well as on a future operation plan committee. I wish the Diversion Authority the best of luck in their endeavor of achieving flood protection for the Fargo-Moorhead area.

Jenny Mongeau- Clay County Commissioner

The commitment by Governor Dayton and Governor Burgum to help us work collectively to achieve flood protection is significant. The task force had good dialog and is recommending a solid set of parameters.

The first consensus item that task force agreed to recommend was the full period of record, 33,000 cfs 100 year. We also agreed to recommend allowing additional flows through town of 37-foot. I believe this level is appropriate, having the ability to allow an increased flow through town of up to one foot during extreme flood events should be an option outlined in an operational plan.

Given the previous facts of findings from the Minnesota DNR, I still have significant concerns over the ability for DNR to permit a dam on the Red River. During task force discussion we did not discuss modifying the proposed size of a dam, this is something that may need to be looked at to make it more permittable. Location was discussed and the current alignment incorporates some natural drainage into the river. An issue that I have struggled with is how the percentage of physical impacts and benefits will be divided among the two states. Land that has historically seen flooding during flood events are better suited areas to stage water in comparison to areas that are out of the floodplain. Any plan should focus on allowing water to naturally reside in lower areas.

In terms of how the southern embankment could be aligned in North Dakota we discussed options 7A, 7B, and 7C. My recommendation is to implement a combination of options 7A and 7C. Designing an embankment with limited 90-degree turns will increase structural resilience and decrease overall cost. Surrounding land is within existing floodplain and keeping it as such would offer reduced new impacts. The inclusion of a Western tieback was also an addition that was proposed and the majority of the task force felt it would be beneficial to add to the project to keep water within the natural floodplain.

With the designed tieback levy in Minnesota a large amount of staged water will be shifted onto higher ground. I have considerable concern with the amount of newly impacted properties with the project. Doing so would conflict with local water ordinances in Holy Cross township and

Wilkin County. Those issues would need to be addressed to follow Minnesota law. An Eastern tieback levy in Minnesota would run north and south. This would dissect Clay County Ditch #59 and JD #1 running east and west. Significant engineering and reroute would need to be done to those systems to ensure drainage is not hindered.

Within the Minnesota staging area there are approximately 15 sections of land that would be placed into the flood plain. There are concerns in regards to the city of Comstock's infrastructure and access during flood events. I question if ring dike protection will be certifiable because of railroad access points. US Highway 75 and the BNSF railroad, both run north and south and are heavily used corridors. Each system would experience deep inundation of floodwater with a proposed project and a significant road and rail raise must take place. My proposal is to engineer US Highway 75 to the standards of what the Eastern tieback would be, make it the tieback levy. The Army Corps had stated that levies could be used in this capacity. By doing this the land between the road and the Red River could be used as staging, the vast majority of that land is currently susceptible to flooding due to its proximity to the river. Doing this would preserve valuable farmland, eliminate the need to ring dike the city, prevent disruption to Hoff and Comstock cemeteries, and offer huge cost savings by eliminating the need for a rail raise.

In looking at other possible changes The Northern Storage-Channel Alignment did not prove to offer any change to impacts, I'm not sure a change is necessary, but if keeping existing floodplain is important to getting a permit it may be an option.

Keeping impacts at the Canadian border neutral is an important factor. A small threshold exists to allow for minor downstream impacts that could help ease the burden upstream. By allowing up to 4 or 5 inches downstream impact we could see a measurable decrease in the staging area.

Ultimately reducing flow into the mainstem of the Red River south of the metro will continue to serve as an integral part of reducing flood levels. Managing flow of the Wild Rice specifically has been identified as something that could drastically decrease mainstem levels.

A comment has been made in reference to the amount of money the task force recommended alternatives add to the final product. While there is truth in the statement, the reality is that these are proposed elements that could potentially allow a project to be permitted. Without

altering the previously denied project we are stifling our ability to achieve flood protection for the region.

One crucial element of this project is what a final operational plan will look like. We are dealing with an unpredictable mother nature and without having an operational structure in place there is an enormous level of unpredictability that exists. Key questions need to be answered and without knowing how these issues will be addressed, it makes it hard to endorse components of a project. Knowing with certainty how the project will be run will allow for better development of mitigation and evolution of proper easement plans.

The opportunity to have region wide dialog on the components of the Diversion has been important. We've had inclusive, intense conversations to find the best possible alternative. I continue to believe that any project moving forward will be stronger if we continue to include perspectives from all involved. I appreciate the opportunity to have had a seat at this table and I look forward to having further dialog and collaboration.

Joel Paulsen- City Council Member, Moorhead

“Information is the resolution of uncertainty”

-Claude Shannon, American Mathematician

1916-2001

The preceding quote by Mr. Shannon clarifies the mission of the Fargo-Moorhead Area Flood Diversion Task Force. Flood events and the natural weather conditions that create them are by nature uncertain events. At best, our scientific advancements and knowledge have allowed us to somewhat accurately predict the weather only a few days in advance. The purpose of the Task Force was to develop design principles and concept-level engineering solutions to achieve balanced flood risk management for the Fargo-Moorhead region, including up and downstream communities and properties. These concept level engineering solutions were based on an intensive review of information that has been compiled about flooding and flood control in the Red River Valley, with the intent of defining our risk and determining the proper project to deal with that uncertainty.

Governor Dayton and Governor Burgum appointed a group of diverse members with an intent to explore all perspectives related to finding a project that will provide the greatest protection, minimize negative impacts, and is economically feasible. This summary contains a list of Task Force Findings that I believe, when implemented, will meet the objectives of the Task Force, meet the

legal requirements of the States of Minnesota and North Dakota, and fulfill the federal legal requirements as defined in Executive Order 11988 – Floodplain Management. I am encouraged by the work that was done by the Task Force and I look forward to implementing the findings and recommendations of the Task Force and the continued work of the Technical Advisory Group in my role as one of the City of Moorhead’s representatives on the Flood Diversion Board of Authority. This is a defining moment for the Metro Area, one that will minimize our flood risk significantly and ensure our metro community remains vibrant, safe, and secure. Nevertheless, I remain concerned about the individuals impacted by the construction and operation of a proposed flood control project. Every effort needs to be done to mitigate potential negative consequences of the project and treat affected citizens fairly throughout project development and implementation.

The Task Force process allowed the discussion of major policy decisions with input from all points of view. It allowed a robust discussion on the science and engineering behind the implementation of physical elements of the project. Finally, it allowed a deep and straightforward conversation with Federal and State regulators. Only when science, engineering, policy, and regulations align will a feasible project present itself.

In closing, we will never be able to fully know what Mother Nature has in store for us, however, we can make prudent decisions to manage the uncertainty and risk through sound engineering judgement and scientific analysis while recognizing and minimizing the sacrifices people have to make to implement a sound, just, and reasonable flood risk management plan.

Del Rae Williams- Mayor, Moorhead

Need for Flood Protection

The City of Moorhead needs additional flood protection and has been a local sponsor of the FM Metro Flood Diversion Project since its inception in 2008. Even with the work that has been done in Moorhead, including the construction of over 12 miles of levees and floodwalls and almost 250 acquisitions, our work is not done. We came to realize that we can no longer complete the work alone as a city, nor should we. The problem of flooding in the Red River Valley is bigger than Moorhead and we need to work together with surrounding communities, in Minnesota and North Dakota, to provide the level of protection we need in a way that makes sense.

Working with Fargo and other members of the Diversion Authority, we developed a good project which was able to get federal authorization and federal appropriations. This was not an easy task. The Diversion Project is big, complex, and comes with a hefty price, both financially and due to impacts. Unfortunately, the project was unable to obtain a permit from the DNR in the form it was in. This left Moorhead without a path to provide the level of flood protection it needs, and it left over 1,000 homes in the city with the risk of being placed in the FEMA 100-year floodplain, therefore stuck with expensive mandatory flood insurance policies.

The people of Moorhead are grateful to Governor Mark Dayton for stepping in and helping usher a solution and a way forward. It was clear that his strong leadership and considerable empathy was needed to bring all parties to the table, resolve what could be resolved, and to help everyone better understand the needs and challenges associated with keeping the public safe from flooding. Together, the Governors were able to do

what we have not been able to locally. They created a forum for healthy dialogue and a renewed sense of commitment amongst the region that we have not had in many years. It is my sincerest hope that these talks will continue and lead to not just flood protection for Moorhead, but additional joint efforts that can have a lasting positive impact on our region of the country.

Task Force Efforts

I am so proud of the work we have been able to accomplish in Moorhead. With the support from those in St. Paul, we have made real strides and our citizens know it. The downside of doing such great work is that people have assumed we are done. This was apparent at the start of the Task Force meeting when much of the discussion was dedicated to what level of protection we are at, and a number of false assumptions were expressed. I want this report to make that issue clear. Not only did the Task Force identify and agree with the significant work that needs to be done to make sure the entire city is safe, the Task Force actually made recommendations that will require an additional \$50 million worth of work that should be done within city limits.

I think it is important to address the financial implications to Moorhead and Minnesota. The DNR previously identified a figure of 2 percent as the benefit to Minnesota. The 2 percent benefit figure has been used to calculate the anticipate funding level from the state, which amounts to approximately \$43 million. With the changes from the Task Force, this \$43 million is likely to go up using the same math. In addition, the \$50 million of additional work in town will also have to be funding through the State.

What this tells me is that the project previously developed was a good deal for Minnesota. With the changes from the Task Force to allow for a permissible project, I think the project is still a good deal, but it means our local legislators will have to do a lot of work to obtain that additional funding and continued support from those working in St. Paul is needed.

I also wonder if we would be better off taking this opportunity to truly gain environmental benefits, rather than so narrowly focus on temporary impacts to farmland that will remain farmland. Rather than having the state spend \$50 million to buyout more homes and displace families, we could create real environmental benefits such as retention for flood control and water quality improvements, buffer strips, wildlife habitat, etc. Instead, there remains an intense focus on preserving floodplain that is in the flood fringe and could be developed anyway over time.

DNR Dam Safety Permit

The Task Force brought more voices to the table. It was a good venue to discuss a project with a regional level of protection. It was also important for the discussion on where the impacts should be. It's a strange concept that isn't totally unique to water projects, but is certainly more prevalent. In order to protect the urban areas from being under water during a flood, you need to find a more appropriate place to store it. In essence, you have the unfortunate task of deciding where that water goes, and who ends up impacted. The changes suggested impact more people, more homes, and more farmsteads. This is unfortunate, but it also allows us to create less new floodplain land, which is important to obtaining a Minnesota permit.

It is now up to regulators at the DNR to be fair and give direction to our technical team as it submits a new permit. I urge them to work quickly so permitting can be completed early this year to allow the use of the construction season before we lose out to another long winter. Governor Dayton laid out a path forward for us so that failure is not an option, and I expect all parties to move along that same path to obtain a permit, end litigation, and protect Minnesotans.

North Dakota Representatives:

Jason Benson- Cass County Engineer

The Governors' Diversion Task Force was a much needed process to bring all parties to the table. While there are many challenges ahead, I am in concurrence on the following items: 33,000 cfs for the 100-year flood, changes to the eastern and western tieback levee, 37-feet of flow through town, no change to the channel alignment from the inlet north to the outlet, and moving forward with option 7c for the southern embankment. While I concur with the items above, I feel the Task Force process never fully addressed the requirements of the Dam Safety Permit. In the end, the recommendations brought forward increase the cost of the project while decreasing the "dam safety" by making the project less robust, less resilient, and less reliable.

The Task Force was an excellent opportunity to learn about the current project. Over eight years we have studied, analyzed, and developed plans in order to reduce impacts and ensure a robust project was developed to protect the Fargo-Moorhead area both now and into the future. I think the Task Force meetings showed the current project design is the most cost-effective design for providing 100-year FEMA certifiable flood protection with the ability to fight up to a 500-year flood event. The Task Force meetings also made it clear that changes to the current design would need to be made for the MDNR to permit the project.

The changes brought forward were viable, but many of these options fell short when looking at the other criteria.

- **Costs:** Prior to meeting, there were several media interviews given by members of the Task Force in which the public was told there was a cheaper, better option available. It is clear now that every option evaluated increased the cost of the project by hundreds of millions of dollars. Adding substantial cost increases are not viable without a significant influx of new money from Minnesota and North Dakota. Citizens in Fargo and Cass County have already voted to tax themselves until 2084. Our local residents have shouldered their share of the financial burden. I ask both Governors to provide additional state funding to address these new costs.
- **Reduce Environmental Impacts:** The suggested changes reduce the newly impacted acres in Minnesota and better balance the impacts between the states.
- **Minimize Residual Risk:** The suggested changes increased residual risk to the project.
- **Limit Impacts to Structures:** Every significant option presented impacted a significantly higher number of rural farmsteads and residences. In addition, the 37-feet of flow dramatically impacts city and rural properties and cuts off a number of additional access roads.

- **Resilience and Robustness of Design:** Increasing to 37-feet of flow, along with changes to the southern embankment only add to the length and complexity of the embankment and reduce the project's resiliency and robustness.

Several Task Force principles were not resolved.

1. I encourage future operational plan discussions to include both upstream and downstream involvement once a final alignment is known.
2. Compensation program for the inundated lands should remain a top priority to be finalized in the near future.

A reoccurring challenge was the moving target in what the MDNR deemed would be a permissible project. Given the goal was to obtain a Dam Safety Permit, it is frustrating that every option considered increased the cost while decreasing the safety of the dam. No alternative was presented that actually made the dam safer. I was also frustrated in the downplaying of the permanent impacts due to construction. Over 7,900 acres of permanent impacts under the diversion channel and embankment are in ND and 433 acres in MN. These permanent impacts should be treated with a greater weight than a temporary impact. For comparison, there are 6,900 acres of newly impacted acres in MN, but these temporary impacts were a primary point of discussion. Also, these temporary impacts would have only occurred less than 30 days over the last 115 years and allowing the land to be farmed every year. However, the 7,900 acres in ND will never be farmed again and forever changed. These permanent impacts are likely the reason Gov. Dayton declared the Minnesota alignment was not possible and so they should be thoroughly addressed by the MDNR in its analysis.

It is critical the permitting requirements are clear. The discussion of a conditional permitting process is encouraging. In hopes of continuing the successful communications of the Task Force, I want to request that the DNR attend our Diversion Authority meetings and provide routine updates.

In the end, our efforts all serve the same taxpayers. With this in mind, it is essential that we move quickly to address the soon to expire contract between the Corps and Ames Construction for the completion of the inlet control structure. A March 2018 deadline is approaching and failure to address this issue would result in costing tax payers millions of dollars.

As Gov. Dayton expressed at the Task Force Meeting, acquiring the lands necessary needs to be a top priority and should start up again as soon as possible. Given past communications which led to halting these activities, the MDNR needs to expressly respond to, and support this position.

Fargo and Moorhead, along with Cass and Clay Counties formed the Diversion Authority to work jointly across two great states to provide permanent flood protection. With the additional leadership displayed by the leaders of Minnesota and North Dakota, I believe we reviewed the more than one hundred alternatives previously studied and identified the substantial changes needed to obtain a Minnesota permit. These changes will result in hundreds of millions of dollars of additional taxpayer dollars, including nearly \$100 million from Minnesota alone. These changes will not be easy to implement, or easy to explain to the owners of the additional homes and farmsteads impacted. It

is my hope that the state of Minnesota will act swiftly on conditional permitting and then help us as we communicate the changes to the public.

Ron Bergan- Fargo Business Leader and Entrepreneur

I appreciated being part of the Task Force and all the work the MN DNR put forth working with the Task Force. Also, thanks to Governor Dayton for attending every meeting. We learned a lot about floods and flood protection for the F/M area. The 100 year protection consensus of the Task Force is low compared to the 250, 500, 700, 1,000 and even larger floods that could occur. It was reported that the Minot flood was about 10 times the 100 year protection they had in place. It was reported that the storage dams also in place were full at the start of this flood. They probably caused the flood to be much larger with the entire flood flow going over the dam. At some point concerns of dam failure cause you to open the control gates and the flood becomes larger than without the dam. See attached report showing the effect of dams on flooding. The 'mean annual flood' is reduced by ½ while the size of the flood likely to recur every 50 years barely changed. The risk of dam failure in 100 year and larger floods makes dams "dangerously deceptive". Grand Fork, Minot and Bismarck all have had floods greater than the 100 year level in recent years.

The Diversion will allow us to have a chance to win a 500 year flood fight. Looking at the 500 year flood map, the flood extends west of Mapleton and looks more like a large lake.

The Diversion is designed to give us protection for 100's of years. I am concerned that changes we are considering will cause the risk of failure to increase significantly especially in the very long term. Failures was one of the concerns of the DNR. We need to consider the Red River Basin Commission recommendation that the population should grow in cities protected from flooding, therefore we need adequate area for expansion in F/M.

The Task Force found that all reasonable alternatives were or had been studied and a Diversion is the only alternative to give us the desired protection. I believe the Corps and the local engineers did a very good job also of selecting the route for the diversion balancing the environmental concerns, costs, etc. The western and eastern tie-back levies and allowing 37' through town are acceptable compromises to the Minnesota DNR. It should be noted that the 37' flow affects 82 additional homes in Fargo and adds significant costs.

The northern storage area is not acceptable to me.

The alternatives for additional storage – 7A, 7B and 7C were presented to the Task Force at the last meeting but we were not given adequate time to study the data. After looking at the data I feel the impacts on additional homes and structures that would need to be removed is very significant. There is only a small change in looking at the upstream impacted acres or the protected floodplain acres. These alternatives greatly impact many people for the sake of a few acres of land. The upstream floodplain acres are only affected 38 days in the full period of record. The approximately 8,000 acres permanently removed from production for the Diversion Channel in ND are not shown in the spreadsheet. The cost estimate for 7C alone is \$180M (26 more homes in Cass County and about seven more miles of the Dam).

The operating plans for the Diversion should be modified to consider reducing the peak flow at downstream cities for their floods which may not be the same as the peak at the Diversion outlet. More flow may be ok earlier versus later when considering the effects of the other rivers downstream.

Excerpted from *Silenced Rivers: The Ecology and Politics of Large Dams*

Patrick McCully. October 10, 2007

Even if flood control is not an intended consequence of a project, a storage dam will almost always delay floods downstream and reduce the size of average flood peaks, commonly by more than a quarter (even a flood control dam, however, may have little effect upon extremely large and infrequent floods — making the 'flood control' offered by dams often dangerously deceptive for people who move onto the downstream floodplain). The Warragamba Dam in Australia, for example, reduced the 'mean annual flood' (a flood likely to recur on average every 2.3 years) by more than half, while the size of the flood likely to recur every 50 years barely changed.

Nathan Berseth- Richland County Commissioner

1. **Apply Least Impact Principles:** The Minnesota Environmental Policy Act prohibits DNR from permitting a project when there are feasible alternatives which significantly reduce the environmental impacts. The least impact principle permeates all of the regulations governing dam permitting and public waters permitting.
2. **Address Permit Conditions:** During the task force deliberations, very little effort was made expressly to apply the permit requirement. The focus of the deliberations was to find a project that reduced impacts and which Diversion Authority could accept. On occasion, a Minnesota official would point out that the configuration being discussed was likely not permissible. That should have led to a discussion of what, then, must be done in order to meet permit conditions. We cannot arrive at an acceptable project unless the Commissioner's permit conditions are itemized and the parties then work through each condition and find ways to meet those

conditions.

3. **Minnesota Project Sets Ceiling on Permissible Impacts.** The North Dakota alignment has significantly greater downstream Impacts than Minnesota alignment of the same capacity and results in nearly twice the stage increase. This doubling of impact results because the LPP eliminates floodplain storage south and northwest of Fargo. Engineer Anderson put it this way:

“The North Dakota diversion flows through a low floodplain area thus draining floodplain and also isolating existing floodplain areas, by levees along its alignment, resulting in excessive loss of floodplain storage. The MN Diversion flows through higher ground generally not within the floodplain thereby having minimal effect on floodplain storage along the alignment.”

To avoid these impacts, the project must abandon its attempt to flood protect the undeveloped floodplain, whether the diversion flows through Minnesota or North Dakota.

4. **Minnesota Alternative Meets National Objectives.** The USACE selected the Minnesota diversion as the least impact project which best meets national objectives. The LPP costs \$1 billion more than the least impact project, eliminates 50 square miles of floodplain storage more than the Minnesota diversion, and consequently develops more downstream impacts. The billion dollars saved could then be used for distributed storage or other needed improvements.
5. **Change the operative underlying principles—maximize floodplain retention.** If a North Dakota alternative is deemed desirable, the Technical Panel should have been asked-- to design a North Dakota project that maximizes floodplain retention. None of the options studied by the Technical panels were based on that concept. Rather, the task force was continually pressured to foster as much flood plain development as possible. As a result, the task force never considered, options that fully minimize floodplain loss. The Technical Panel inappropriately eliminated options which preserved the floodplain northwest of Fargo. Developing that floodplain is bad for Fargo’s sound development: In separate articles, Governor Burgum is quoted in the Fargo Forum as follows: “

The reverse of smart growth, in Burgum's view, is sparse development on the city's edge, where it costs the city more to deliver services than developed property contributes in property tax revenues....

Our city has an ability to grow and grow smarter than other cities by growing more densely as opposed to growing horizontally," he told the Planning Commission. "The 52 square miles is enough to hold us for a long time."

Over half of the flood storage eliminated in the LPP is found on the Northwest floodplain. Instead of eliminating that storage, it should be enhanced.

6. **Federal and State Law Prohibits Avoidable Floodplain Development.** The current project

violates section 1962-3. Under that law, the project must avoid the unwise use of floodplains and flood-prone areas and minimize adverse impacts and vulnerabilities.

7. **Apply Sound Engineering Concepts Designed to Minimize Impacts.** DNR should be applying the concepts described by engineer Anderson:
 - a. Implement a major system of coordinated distributed storage throughout the basin. (achieves approximately 2 feet reduction in peak flow)
 - b. Move the North Dakota Alignment East
 - c. Reduce tributary crossings
 - d. Redesign the dike work and structures along the channel to restrict inflows from the tributaries and allow water to enter the floodplain area on the west side
 - e. Alter the configuration so flood protection follows the edge of the developed area as close as practical.
 - f. Provide an understandable operating plan that can be modelled.
8. **Use Distributed Storage:** During deliberations, some have advocated that distributed storage should exclusively be used to mitigate floodwaters not caused by the project instead of mitigating excess flood water from the Fargo area. This is a false dichotomy. Distributed storage properly placed in watersheds tributary to the Red River will accomplish both objectives and reduce peak flows by two feet. Given any project design, the peak flows on the Red below Fargo will be two feet lower with distributed storage than without.
9. **Use Federal Funding Available under WRRDA to leverage state funding for distributed storage.** The reluctance to consider distributed storage stems from the misperception by Diversion Authority that project opponents have advanced distributed storage as a standalone solution. JPA sees distributed storage as a project enhancer that will significantly reduce project impacts and benefit the entire basin in Minnesota. If distributed storage accompanies this project, it becomes eligible for WRRDA funding that will benefit the entire basin and could trigger a major commitment of state bonding dollars to support the basin wide improvements that would then flow from the project. As modified, the project could offer significant benefits to Minnesota.
10. **Involve all parties in Examination of the Operating Plan.** The operating plan is a critical component of any flood control project. Stakeholders cannot understand the impact of the project without understanding the operating plan.
11. **Develop Dialog on the Takings and Compensation Implications of the Project.** A major flaw in the project as submitted to the DNR is that it failed to provide a defensible realistic approach to takings.

Bernie Dardis- Board Chair, Greater North Dakota Chamber of Commerce

Being chosen as one of the members of the Governors' Task Force was a true honor. After seeing the toil flooding has taken on the region, being a part of providing a permanent solution is something I hope I will always be able to look proudly back on. I say I hope, because the work is not done. Several large changes to the project were recommended, but we left unknowing how the DNR would consider these through the permitting process or how we would pay the additional costs, which are considerable.

When Governor Burgum asked me to serve, it gave me pause because I wasn't sure what I had to offer. I have paid attention to the Diversion Project closely, but I was not familiar with all the details. The more I thought about it, the more I realized I might be in a unique situation to provide perspective. I was identified as Chairman of the Greater North Dakota Chamber, but I didn't feel that meant I was looking out for only North Dakota. As CEO of Indigo Signs, we had significant business interests across North Dakota and Minnesota. I often thought about the economic prosperity of both states as I made my way between locations on trips back and forth on I-94. It is with this mindset that I set out to do my job as a member of the Task Force.

Flood Insurance

When discussing flood protection with those more technically inclined than myself, the conversation usually turns to river stages, flows per second, and other hydraulic factors. While these are important when designing a project, they are not the first things on the minds of the public. When I'm at meetings around town or talking to neighbors, the topic that comes up most frequently is something much closer to the pocket book, flood insurance.

The technical presentations from city engineers in Fargo and Moorhead showed that more than 1,000 homes in Moorhead and more than 11,000 in Fargo are at risk of being mandated to carry federal flood insurance. Too often, this topic is ignored when we talk about the need for flood protection and the speed at which we need to accomplish it. We know that the flood risk is the highest in early spring, the risk of flood insurance is something that impacts people every day.

According to the information at the Task Force from the DNR's website, a primary \$200,000 residential property can expect to pay in excess of \$4,000 a year in flood insurance. The kicker here is that this rate is actually subsidized by the federal government. Over the last several years, we have seen Congress slowly chisel away at this subsidy to work towards a more actuarial rate. The DNR's document estimates that a non-subsidized rate for a similar house that sits at an elevation similar to the 2009 flood would face almost double the rate at \$8,000 a year. This is 4% of the price of the house every year! I have seen estimates that across Fargo-Moorhead this could mean \$30-50 million in annual premiums. This would be money leaving our economy, rather than being reinvested here locally. This is an economic catastrophe that worries me as much or more than the risk of actual flooding.

The long-term results of these flood insurance requirements will mean the detriment of our existing housing stock, the tumbling of property values, the loss of family's retirement nest eggs, and the loss

of considerable tax revenue for government entities in North Dakota and Minnesota. It was clear from FEMA's testimony, the longer we wait, the more we are putting our economies at risk. These requirements aren't going away, they are only getting more fiscally stringent. The time to act is now.

More than Fargo and Moorhead

As a proud resident of West Fargo, I fully understand the frustrations, challenges, and the benefits of living outside of Fargo or Moorhead city limits. The FM Diversion provides protection to much more than just those Fargo and Moorhead. Fargo-Moorhead is a regional center for employment, entertainment, healthcare, and more. Like we've seen during past floods, when it floods in Fargo-Moorhead, every community within 100 miles feels it and pitches in to help solve it. This is how it is, but what was concerning to me was during the Task Force when the focus seemed to only be on the area within city limits. Fargo's and Moorhead's flood problems have never been dealt with solely by city residents, why start now? The changes being recommended mostly come at the expense of protection to the areas around Horace, West Fargo, Harwood and other rural areas that have always headed the call to sandbag when needed. I urge the Minnesota DNR to place a value on those homes in rural areas as those families are just as tough to displace as those in town.

Next Steps

I think it was Governor Dayton at the Task Force who said something like, don't let the perfect get in the way of good. I worry about where we left the implementation of the project. We made a lot of progress on a number of items and it seemed there was a majority consensus around modifying the location of the dam to option C. The DNR said option A would not be permissible and the Corps said option B would lose authorization. Engineers are a godsend, but if left to deliberate, study, and model scenarios, the strive towards perfect could be longer than we can afford. I urge Governor Dayton and Commissioner Landwehr, who I sincerely enjoyed getting to know over the last few months, to stay the course and help drive for a solution. While we have spent months meeting, the public has waited far longer for leaders to decide their fate. We owe to the citizens of Fargo and Moorhead, and to those in surrounding communities of West Fargo, Dilworth, Harwood and across Cass and Clay Counties, a project that protects them.

Craig Hertsgaard- Farmer, Richland County

The Task Force was charged with finding flood control solutions for Fargo-Moorhead that met two Key Parameters. The first was that solutions providing FEMA accredited 100 year flood protection must meet Minnesota and North Dakota statutes, and the second that federal authorization and associated funding tied to the Diversion Authority's project be maintained unless a lower cost method of flood control could be developed. Maintaining federal authorization, if needed, doesn't appear to be a problem. Army Corps representatives stated that the Undersecretary for Civil Works has broad powers to interpret Congressional directives, and communications with unified elected officials from both states would be influential in making their decision. It was also pointed out that

there are fast track remedies to alter previous authorizations that would not significantly delay the project. There was little discussion of the likelihood of full funding for the current or alternate projects.

The Task Force never arrived at a flood solution that met the stated goals and could be permitted by both states. The North Dakota State Engineer appears willing to permit any project the Diversion Authority has proposed. The Task Force would not have been assembled if the same were true of the DNR. The focus of the Task Force then becomes finding a project that meets the requirements of Minnesota law.

DNR Commissioner Tom Landwehr and Administrator Kent Lokkesmoe on several occasions defined Minnesota statutes as requiring the project conform to federal and state floodplain policies and have as little adverse impacts on population and the socioeconomic base as possible. Federal directives say projects should not encourage flood plain development, and Minnesota rules require governmental units to prohibit floodplain development. The task must be to find a flood control project that removes as little of the natural flood plain as possible, and has the least amount of negative impact on the surrounding region.

Identifying area to be protected.

The Task Force identified the area needed to be protected. Presentations from city engineers of Fargo and Moorhead delineated areas that needed flood protection. That area was similarly identified in technical committee modeling labeled Levee Only.

Level of Protection

The Task Force agreed on a level of protection of 33,000 cfs, or approximately 41.3 feet. City engineers described current dikes and levees as being constructed to levels between 42.5 and 44.5 feet. The State of North Dakota appropriated funds for Fargo to complete levees that would provide certifiable flood protection of 39.4 feet.

Protection above a 100 year flood

It was generally agreed that a diversion structure could provide additional protection needed to the 100 year flood level of 33,000 cfs. Representatives of the DNR as well as many Task Force members recommended Distributed Storage be constructed to provide protection beyond the 100 year level.

Diversion Channel Alignment

The Task Force never developed a process for determining diversion channel alignment, and as a result, did not make any recommendations. Several alignment options were reviewed at the Task Force's final meeting, with little time for critical evaluation or tracing the source of the proposals. None of the proposals presented seemed likely to be permitted by the DNR.

Moving Forward

It is clear that a different approach must be taken to meet the original goals of the Task Force. The group was restricted in their deliberations by adhering to features of a project proposal that is in violation of federal and state laws. If federal floodplain guidelines, and Minnesota statutes are to be enforced, a successful design must be made on the following basis:

1. **Only the most reasonable contiguous developed area must be protected.** Fargo, and to some extent, Moorhead, are built in a flood plain. While there was good reason for their location 150 years ago, those reasons do not apply to future growth. Moorhead has virtually unlimited area to grow outside the 100, and 500 hundred year flood plains. Transportation arteries and existing infrastructure and development can be protected within state and federal floodplain laws. The natural floodplain and river channels weren't determined by state or federal law. It is a waste of the region's economic resources to design a project with provincial protection instead of regional flood protection.
2. **A diversion alignment must remove as little natural floodplain as possible.** The identified alignment that has the least floodplain impact is the original plan proposed by the Army Corps on the Minnesota side of the river. If that is not adopted, then any North Dakota route must follow the edges of the contiguous developed area as closely possible to avoid draining the natural floodplain. Rural structure counts used to justify large scale destruction of the flood plain are misleading and easily manipulated. Rural flood plain destruction requires a one to one trade with areas upstream and downstream that do not currently flood. The size of the rural 100 year floodplain transfer has huge impacts on communities, school districts, and townships, with no inexpensive compensation plan identified.
3. **Distributed storage should be utilized for protection above the 100 year flood level.** The cost of DSA construction can be shared regionally and nationally. A smaller, and less costly diversion can be constructed if it is sized for a 100 year flood.
4. **State and local officials should consider a plan that is locally sponsored and constructed.** It is clear that the length and complexity of any diversion is going to make the project costly. The Army Corps has constructed two simple diversions of less than five miles in length in the region in the last ten years. Both doubled in cost. Fargo engineers reported to the Task Force that their levee system will double in cost. The Oxbow ring dike and country club enhancement project doubled in cost. There is no reason to expect this project would be any different. The size of the proposed diversion will make an Army Corps directed project financially unsustainable.

Thank you for the opportunity to serve on the Task Force.

Tami Norgard- Managing Partner, Vogel Law Firm'

I appreciate the opportunity to engage in this important and historic process. While another month would bring us closer to a permissible levee alignment, the Task Force succeeded in identifying new key features that significantly reduce impacts of the project for upstream entities and Minnesota while retaining federal authorization.

The MNDNR's involvement provides a permitting advantage moving forward. While the original project was not permitted for a variety of reasons, MNDNR now studied the options and identified features, which should increase its understanding of the social and economic impacts of proposed project modifications that were merely conceptual when suggested as the original permit was denied. MNDNR now has a stronger basis on which to permit a new project, given the lack of or impact of alternatives.

The Technical Team brought forth solutions that optimized numerous important factors; not just minimizing the amount of floodplain removed, but also considering financial and social costs, additional home buyouts and added risk to the communities. MNDNR should find an iteration similar to 7A or 7C to be permissible. The permissibility does not rise or fall on whether there is another alternative that removes less floodplain acreage. The entire metro area is within a floodplain, so feature selection is a precarious balancing act, identifying where to draw the lines of protection. The crucial inquiry is how many homes and citizens should be protected, at what cost and at what burden to upstream landowners. Either 7A or 7C represents a significant victory for Richland and Wilkin Counties, and an enormous compromise of the Diversion Authority.

MNDNR should be reasonable in encouraging an affordable embankment alignment. Since 1900, only 5 flood events would have impounded any water upstream with alignment 7C and 37 feet of water through town. Most of that inundation would happen during spring flooding, resulting in little or no impact on planting. This is not constant or regular flooding.

The Tech Team's optimizing of critical factors should be viewed favorably by MNDNR in permitting. Implementing 7C and 37 feet through town, for example, distributes newly impacted upstream acreage more equitably, with the ND/MN impacts split 45/55. In addition, the channel impacts over 8000 acres, 95% of which is in ND. 7C reduces newly impacted acreage in Richland and Wilkin Counties from 1124 and 1391 acres down to 337 and 239, respectively, mostly impacting low areas like creek bottoms. 7C reduces the need to mitigate homes in Richland County from 3 to 2, and in Wilkin County from 5 to 2.

The 7C and 37 feet through town option would be a significant compromise. 8000 less acres will be protected in the metro in order to save 2700 acres upstream from having flood easements. 102 more homes would be removed and metro families displaced in order to save 6 homes in Richland, Wilkin and Clay counties. There will be more risk to thousands of city residents by sending 37' of water through town, causing more pressure on levees and less freeboard in many areas. Further, this is only 100 year protection, which is a huge compromise since the 100 year protection levels have been

surpassed in many communities in recent years all over the country. And importantly for ND entities, this higher risk, less protection project will cost approximately \$350-400 million more.

The 7C option example represents a significant compromise by all. If much more is required by MNDNR, it may incentivize the Diversion Authority to spend 18 months continuing litigation rather than spend \$500 million or more in additional concessions. While I respect the Court's preliminary injunction and the resulting push to settle this dispute, I believe the chance that a permanent injunction would be issued or be upheld on appeal is uncertain. The Corps of Engineers builds projects across the country using this same arrangement, each of which will be compromised if the Court issues a permanent injunction. When imposing its preliminary injunction, the Court held that the Corps' arrangement was a federal scheme where the sponsor agreed to comply with state permitting, with the Court questioning whether to hold them to it. If upheld, this purported federal scheme provides an inordinate amount of power to local governments since the JPA argued that MNDNR cannot issue a permit if a project violates a city or township's ordinance (i.e., the Holy Cross township ordinance that was passed to stop this project). If taken to its logical extreme, in order for a permanent injunction to be imposed, a Court would have to find that Congress intended that this federal scheme would be vulnerable to wasting millions of dollars of federal investment and time if a local government passed an ordinance during project development that prohibited the project. The very concept of federal sovereign immunity allows the Corps to develop projects without being subjected to a plethora of lawsuits by project opponents or by local governments that deny permits for or spot zone to prohibit an unpopular project. If a permanent injunction were issued, it would mark a significant shift away from federal sovereignty and could compromise thousands of federal projects across the country. My point is not to predict the outcome of the merits of a permanent injunction, but to underscore that there is incentive for the MNDNR to be reasonable, and for the JPA to engage in settlement discussions.

The metro area needs flood protection, like other Red River Valley cities have enjoyed without this level of regulatory intervention or required mitigation. The Diversion Authority suggested numerous concessions in hopes of finding a permissible project. If the Diversion Authority is met with too hard a line, it may understandably continue litigation in order to save \$350-400 million, 102 homes and protect 8000 more acres. Continued litigation is expensive and risky for everyone. All parties should instead choose to actively work towards a reasonable solution and find a way to provide this community with affordable, feasible, permissible flood protection.

John Strand- Fargo City Commissioner

Understanding another's perspective is usually the best means to solve a disagreement. I was honored to be asked to serve on the Task Force by Governor Burgum to help bring people with diverse perspectives together to find a common understanding. Together with Governor Dayton, these two great leaders rose to the top -- leading the Task Force with mutual respect and poise. While the Task Force pointed us in the right direction, work remains on a number of topics that will continue to benefit from the leadership and guidance of the Governors and local stakeholders.

Balancing the Costs and Impacts of Providing Public Safety

We already know the costs of comprehensive, adequate flood protection for Fargo-Moorhead will exceed \$2 billion. The Task Force discovered there is neither a cheaper nor more affordable alternative. In fact, the Task Force's recommended changes, while balancing the location of impacts along with the impact on the floodplain, have increased the overall cost to the taxpayer an estimated \$200 - \$400 million. The ability to pay is finite while the need to provide for public protection is not. We must be prudent as we balance funding challenges with public safety needs of our citizens and future generations.

Remember the Land Permanently Sacrificed

Much of the focus of the Task Force was on impacts upstream where water is estimated to be staged once every 21 years, which is a lower frequency as a result of the Task Force recommendation to increase flows through town to 37 feet. Though I support this change, it's not without strong reservations and concerns about increased public safety risks associated with allowing greater water levels pushing against the over 20 miles of levees and floodwalls Fargo has built since 2009.

I felt the Task Force could have been provided a more detailed report during the presentation regarding the goal to balance the impacts between the two states.

In addition to upstream property impacts, we also can't overlook the great sacrifice being asked of many landowners who will permanently lose farmland under the footprint of construction. Over 8,000 acres, almost all tillable, would be lost permanently due to construction and will need to be acquired outright. Over 95% of this land is located within the State of North Dakota. Any further comparison of impacts between the two states must include these impacted acres as well.

Compromise and Continued Communication

The Task Force allowed for an open exchange of ideas that resulted in numerous compromises. Nothing is achieved successfully, for the long-term, unless compromise is sought at the start. These compromises will ensure a viable, responsible and successful project. This communication cannot stop now. I expect that these few meetings, which have already increased dialogue, will lead to further collaboration among the Diversion Authority and the folks upstream and downstream, and of course our neighbors in Minnesota.

An End to Litigation

It is my sincere hope that the effort by so many through this Task Force will result in the end of the litigation that has plagued our communities, counties and states for over four years. Taxing our citizens to pay for our courtroom battles must come to a close. The Governors' report should serve as a beginning to an end and a means to close the door on our legal debate. I urge all parties, who were present at the Task Force, to form a bonding agreement that finds a path forward where compromise and cooperation can be codified and the permanent flood protection we need is realized.

Process Should Drive the Policy of the Southern Embankment

I have heard of no item more contentious than the location of the dam and the southern embankment. The Task Force had a number of positive discussions about this topic, but I accept that it is our failure that we did not provide a clear path forward on this topic.

At the last meeting, three options were presented showing attempts to balance impacts and find compromise among the varied interests. Mr. Lokkesmoe stated clearly that Option A could not be permitted and both his words and the data shown put options B and C as nearly identical toward the goals set forth in the Task Force Charter. After that, Colonel Calkins spoke of the increased public safety risks associated with doubling the length of the embankment so near a dense population that option B would not meet the standards set by federal authorization. While many spoke in support for Option C as the preferred choice, discussion was ended before clear direction was given.

Understanding the need for further study of the exact location, there was only one option that met the goals of the Charter to further balance the impacts between the states, reduce the impacts mostly out of neighboring counties, maintain authorization, and was equal toward getting to a permit. This was Option C, and I urge the technical group to include this option in its final report.

The Task Force was more successful than many could have hoped. The leadership and contributions of the governors was most appreciated. As Governor Dayton stated, "failure is not an option." The legacy we leave future generations is ours to script here and now.

Ken Vein- City Council Member, Grand Forks

Governors and Task Force members agreed to the 'Task Force Charter' which defines **Purpose** and **Key Parameters**. **Purpose** was to develop 'Design Principles' and 'Concept-Level Engineering Solutions' to achieve balanced flood risk management for Fargo-Moorhead region. **Key Parameters** are 'Finding Solutions that 'Meet Applicable Local and State Law' and 'Maintain Federal Authorization and Appropriations' (unless more expedient and low-cost options are presented). I felt it was essential to use this charter as the framework for my recommendations to achieve balanced flood risk management.

The **Key Parameter** of 'finding solutions that meet local and state law' was frustrating as I was never able to understand Minnesota law requirements and why the current project did not receive a permit. On several occasions task force member Tami Norgard asked for clarification of state law, but answers never had clarity I could understand. It appears the intent of MN DNR was to more closely balance new water storage between both states and to send more water downstream.

The second **Key Parameter** of 'maintaining federal authorization and funding' indicated the current project remains the base project, but subject to 'expedient and low-cost options' to meet applicable local and state law.

I commend the Governors for establishing and utilizing the Technical Advisor Group (TAG). TAG was able to quickly analyze Concept Level Engineering Solutions. They, along with their support staff and consultants, should be commended.

Task Force agreed on the 'Design Principles' of setting 100-year flood flow at 33,000 cfs. I felt there was general agreement that Distributed Storage has basin-wide benefits but wouldn't be incorporated into project design.

Task Force assessed six Concept-Level Engineering Solutions studied by TAG. My level of support is as follows:

I support adding both Western Tie-Back Levee and Eastern Tie-Back Levee. Both solutions were supported by TAG as they reduce upstream impacts and are expedient and low-cost.

I do not support increasing the river stage of water through town to 37 ft. It creates more risk, significantly increases cost to construct and operate, protects fewer properties and negatively impacts life-safety for those within the project limits. This option is neither expedient nor low cost.

I do not support adding Northern Storage. Very minimal benefit (reduction in elevation of up-stream staging area) and TAG was neutral.

I do not support moving the southern embankment further north. Moving a high hazard dam closer to populated areas and adding considerable length to the dam adds risk and cost. It also reduces the geographic area protected and results in impacting more people and structures. This option is neither expedient nor low cost.

At this time, I do not support an increase in downstream water levels because impacts have not been studied and would be felt all the way to the Canadian border. Canada has a history of suing ND on water issues which historically has delayed projects. Mitigation costs in the Grand Forks/East Grand Forks area alone could easily exceed \$100 M. This option is neither expedient nor low cost.

The Task Force made progress but did not come to final consensus. A significant benefit to the process was bringing Governor Dayton and Governor Burgum to the table. It was very impressive how both Governors were engaged, dedicating time and effort to the process. With both Governors co-chairing the meetings, they brought a sense of authority and respect that helped the process work. It was very beneficial to have all 16 task force members at the table, allowing us to hear from different perspectives.

Critical Take Away's from Process.

- NED plan is a Minnesota diversion, which Minnesota has refused to allow.
- Minnesota DNR has declined to permit the project, so changes are required for a permit to be issued. We need to understand what changes are required for a permit to be issued.
- Tie-back levees and diversion channel of this magnitude have a significant footprint and forever impact the physical day to day operations of adjacent land owners. The 8,000 acre footprint should be considered in the impact balance between the states.
- Both upstream and downstream impacted property owners are not sure of overall mitigation strategy.

- The Operations plan will have a significant impact on adjacent properties and needs to be developed
- The southern embankment is a high hazard dam that will primarily operate as a dry dam. History has shown there will be a very limited number of days where water will be impounded.
- The primary diversion structure is a mechanical system that will typically operate at sub-freezing temperatures, and will have operational risk.
- Several Concept-Level Engineering solutions had significant cost increases. It was not clear who would pay the increased costs and/or if the funding was available.
- The current project was designed by the Corps of Engineers under a consistent set of national standards with no personal or political bias.
- Credit needs to be given to Diversion Authority for designating funding for future storage projects.

My Recommendations:

- 1 Leave all major project features intact
- 2 Add both the Western and Eastern Tie-Back Levee's to the project
- 3 Continue a strong collaborative process with DNR to achieve permitability
 - a. DNR needs to define permit requirements
 - b. Keep TAG process engaged
 - c. TAG should study additional features such as creating new wetlands, buffer strips, retention sites, etc. that could be incorporated into the project as environmental benefits to the region and to reduce upstream impacts
 - d. Corps of Engineers needs to be part of this process as they are essential to maintaining federal authorization and appropriations
 - e. Collaborate with downstream entities in a comprehensive study of potential downstream impacts and how to mitigate
- 4 Diversion Authority consider:
 - a. Add up-stream and down-stream representatives to the Authority
 - b. Communicate a Comprehensive Mitigation Plan to address mitigation of all negative impacts, upstream and downstream
 - c. Create an Operations Committee to establish Operation Plan
- 5 Governors continue to collaborate with each other, making sure there is a process for all constituencies to be heard
- 6 Act swiftly as project needs to proceed asap

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V. Technical Advisory Group Appendices

Appendices from the Technical Advisory Group can be downloaded individually on the Minnesota DNR's and Diversion Authority's websites.