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February 11, 2022

Ms. Kristal Harman, Director
Environmental Compliance and Enforcement
Environment, Climate and Parks
1007 Century Street
Winnipeg, Manitoba R3H 0W4

Dear Ms. Harman

Subject: Red River Floodway Environment Act Licence No. 2691 – Clause 18

Please find encompassed in this letter report a summary of all primary and backup staff for the potential operation of the Red River Floodway during the spring and summer of 2022. This listing of qualified staff covers forecasting and operating positions, and complies with Clause 18 of Environment Act License 2691.

The Red River Floodway operations control staff and qualifications are:

- Primary Staff:
 - *Mr. Peter Johnston, P. Eng., Senior Hydrologic Operations Engineer, Manitoba Transportation and Infrastructure.* Mr. Johnston has a B.Eng. in Civil Engineering from Lakehead University. Mr. Johnston has been involved in floodway operations and analysis since the spring of 2016, and has 16 years of engineering experience in the field of Water Resources.

- Back-up staff:
 - *Ms. Erika Collet, P. Eng., Hydrologic Operations Engineer, Manitoba Transportation and Infrastructure.* Ms. Collet has a M.Sc. in Civil Engineering from the University of Manitoba. Ms. Collet has been involved in floodway operation and analysis since the spring of 2013, and has 14 years of engineering experience in the field of Water Resources.
 - *Mr. Chris Propp, P. Eng., Manager – Hydrologic Operations, Manitoba Transportation and Infrastructure.* Mr. Propp has a B.Sc. in Civil Engineering from the University of Manitoba. Mr. Propp has been involved in floodway operation and analysis since the spring of 2013, and has 16 years of engineering experience in the field of Water Resources.

The Red River Floodway forecasting staff and qualifications are:

- Primary Staff:
 - *Dr. Fisaha Unduche, P. Eng., Executive Director - Hydrologic Forecasting & Water Management, Manitoba Transportation and Infrastructure.* Dr. Unduche has a Doctoral degree in Civil Engineering from the University of Manitoba, a Masters degree in Civil Engineering from the International Institute of Hydraulic Engineering in the Netherlands and a Bachelor of Science Degree from Arbaminch Water Technology Institute, Ethiopia. Since becoming the Director of Hydrologic Forecasting and Coordination Branch in 2014, Dr. Unduche oversees the day-to-day operation of Manitoba's Hydrologic Forecast Centre to ensure a high level of service to all levels of government and the public. Prior to becoming the Director of Hydrologic Forecasting and Coordination branch, Dr. Unduche had been working for 7 years as the Senior Water Control Systems Planning Engineer for the Province of Manitoba. Dr. Unduche has experience conducting hydro-meteorological analysis, hydrologic modeling, and watershed studies for a number of lakes and rivers to assess and mitigate flooding. He has also been the engineering project manager for a number of large water resources management projects, and he has experience conducting hydraulic designs, technical and economic feasibility studies, planning exercises, project assessments and hydrodynamic modeling of a number of complex water resources management and flood mitigation problems.
 - *Dr. Habtamu Tolossa, P. Eng., Senior Forecaster/Hydrologic Engineer, Manitoba Transportation and Infrastructure.* Dr. Tolossa has a doctoral degree in Civil and Environmental Engineering from the University of Stuttgart, Germany; M.Sc. degree in Water Resources Engineering and Management from the University of Stuttgart, Germany; and a B.Sc. degree in Hydraulic Engineering from Arba Minch University, Ethiopia. He has more than ten years of experience in engineering consulting firms and in the government sector. Dr. Tolossa specializes in the areas of project management, design and analysis, hydraulic and hydrologic modeling, flood plain mapping, design of hydraulic structures, dam breach analysis, and river engineering. He joined MI in 2015, and since then has developed hydrologic models and provided forecasts for the upper Assiniboine and Red River basins, and is involved in the operation of the Shellmouth dam.
 - *Mr. Jeff Krut, P. Eng., Flood Damage Reduction Hydraulic Engineer, Manitoba Transportation and Infrastructure.* Mr. Krut has a B.Sc. in Civil Engineering from the University of Manitoba. He has 14 years of experience with hydraulic and hydrologic modeling. Since joining MI in 2013, he has provided forecasts and developed hydrodynamic models for a number of rivers in Manitoba including the Red River.

The Red River Floodway Inlet Control Structure operations staff and qualifications are:

- Primary Staff:
 - *Mr. Matthew Bittner, CD, C.E.T., Superintendent, Manitoba Transportation and Infrastructure.* Mr. Bittner has a Civil Engineering Technology Diploma from Red River College. He joined MI in 2015 and has been a Superintendent in the Red River Valley since 2017. He has five years experience managing flood operations for six declared flood events. He has 16 years of emergent operations and operational planning experience through the Army Reserve.
 - *Mr. Phil Laberge, Water Resources Supervisor, Manitoba Transportation and Infrastructure.* Mr. Laberge joined MI – Regional Water Operations in 2004. The whole time he has been operating and maintaining the Floodway and the Floodway Inlet Control Structure.
 - *Mr. Jeff Lee – Construction Lead Hand, Manitoba Transportation and Infrastructure.* Mr. Lee joined MI – Bridges and Structures in 2009 and joined Regional Water Operations in 2019. Since 2019 he has been operating and maintaining the Floodway and the Floodway Inlet Control Structure.
 - *Ms. Tiffany O'Brien – Engineering Aide 4, Manitoba Transportation and Infrastructure.* Ms. O'Brien has a Municipal Engineering Technology Diploma from Red River College. After two COOPs she joined MI – Highways and joined Regional Water Operations in 2014 as a surveyor. She has operated the Floodway Inlet Control Structure in 2019 and has done water levels and ice monitoring in previous years.
 - *Mr. Kaiyun Wang – Engineering Aide 3, Manitoba Transportation and Infrastructure.* Mr. Wang has a Municipal Engineering Technology Diploma from Red River College. After two COOPs he joined MI in 2019. He has been a surveyor with Regional Water Operations the whole time. He has operated the Floodway Inlet Control Structure in 2019 and has done water level monitoring the previous two years.
- Backup Staff:
 - *Mr. Don Manchulenko – Water Resources Supervisor, Manitoba Transportation and Infrastructure.* Mr. Manchulenko joined MI - Highways in 2006 and joined Regional Water Operations in 2019.
 - *Mr. Derick Makarchuk – Construction Worker, Manitoba Transportation and Infrastructure.* Mr. Makarchuk joined MI – Regional Water Operations in 2015. He has experience with water levels, Valley Town Dike pumping and operating the Portage Diversion Control Structure.

- *Mr. Mark Bain, Water Resources Supervisor, Manitoba Transportation and Infrastructure.* Mr. Bain joined MI in 2003 and has 10 years experience operating and maintaining the Inlet Control Structure.
- *Mr. Don Mroz, Construction Lead Hand, Manitoba Transportation and Infrastructure.* Mr. Mroz joined MI in 2002 and 14 years experience operating and maintaining the Inlet Control Structure.
- *Mr. Carlos Gavria – Engineering Aid 2, Manitoba Transportation and Infrastructure.* Mr. Gavria after three COOPs he joined MI – Regional Water Operations in 2015 as a surveyor. He has 3 years experience operating the Floodway Inlet Control Structure.

I trust the above information is satisfactory.

I may be reached by telephone at (204) 945-6988 if additional information is required.

Sincerely,



Fisaha Unduche
Executive Director,
Hydrologic Forecasting and Water Management

cc : Chris Propp
Dan Laychuk
Heinjie Arado
Ryan Coulter
Peter Johnston