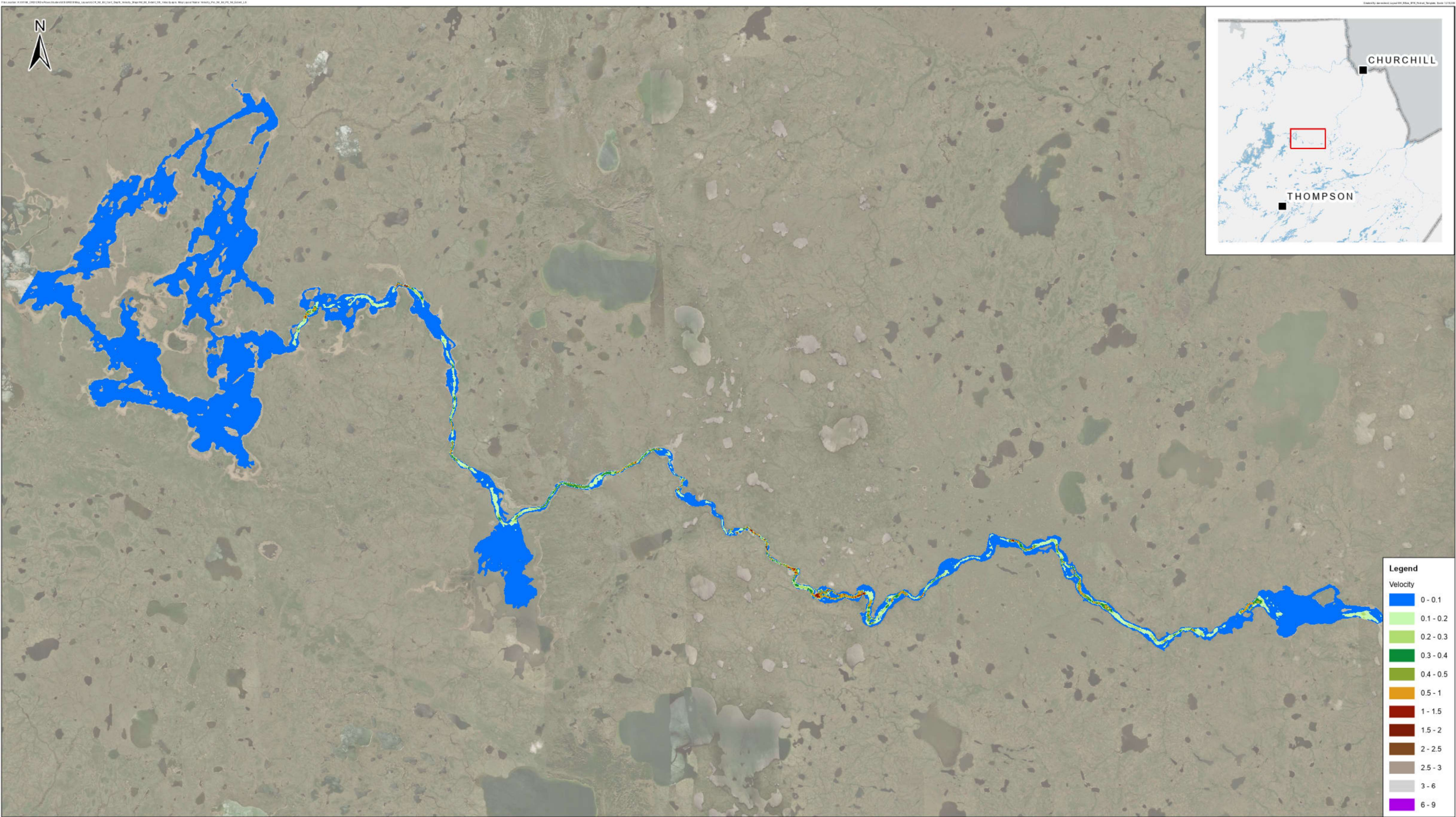






DATA SOURCE:
Modelling Data: Manitoba Hydro - Hydraulic Modelling
Basemap: ArcGIS Map Service 2025 06 16

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:
WGS 1984 UTM Zone 14N

0 4.5 9 Kilometers

DATE CREATED:
28-May-25

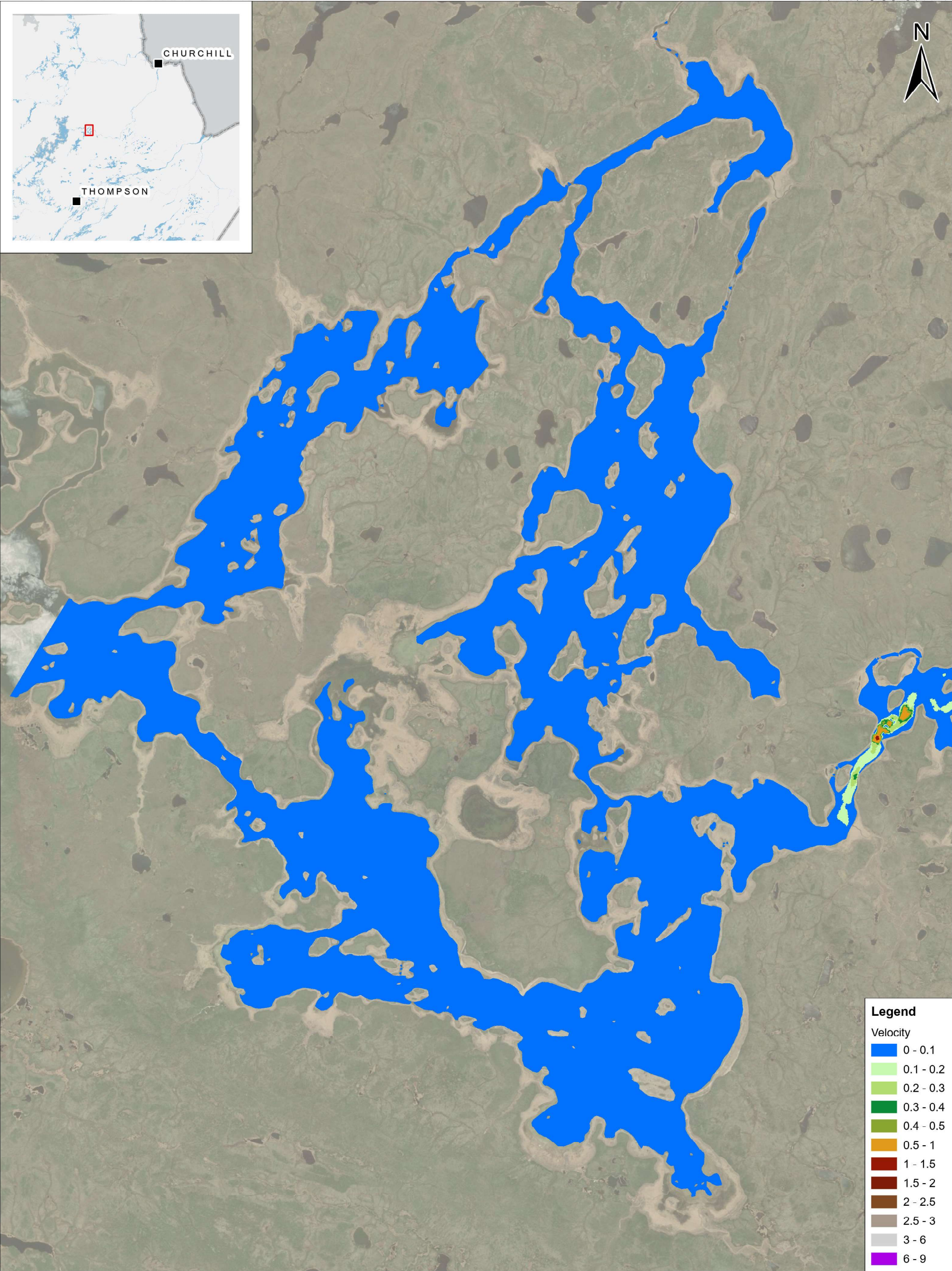
REVISION DATE:
27-JUL-25

VERSION NO:
1.0

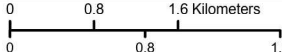
DATE:
27-JUL-25

Northern Indian Lake to Billard Lake
Velocity
5th Percentile
54 m³/s

M1-V-P5-ALL





DATA SOURCE: Modelling Data: Manitoba Hydro - Hydraulic Modelling Basemap: ArcGIS Map Service 2025 06 16		
CREATED BY: Energy Operations and Water Planning		
COORDINATE SYSTEM: WGS 1984 UTM Zone 14N	DATE CREATED: 28-May-26	REVISION DATE: 16-JUL-26
	VERSION NO:	QA/QC:

Northern Indian Lake

Velocity

5th Percentile

54 m³/s

M1-V-P5-NIL





DATA SOURCE:
Modelling Data: Manitoba Hydro - Hydraulic Modelling
Basemap: ArcGIS Map Service 2025 06 16

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:
WGS 1984 UTM Zone 14N

0 0.85 1.7 Kilometers
0 0.8 1.6 Miles

DATE CREATED:
28-May-26

REVISION DATE:
16-JUL-26

VERSION NO:

QA/QC:

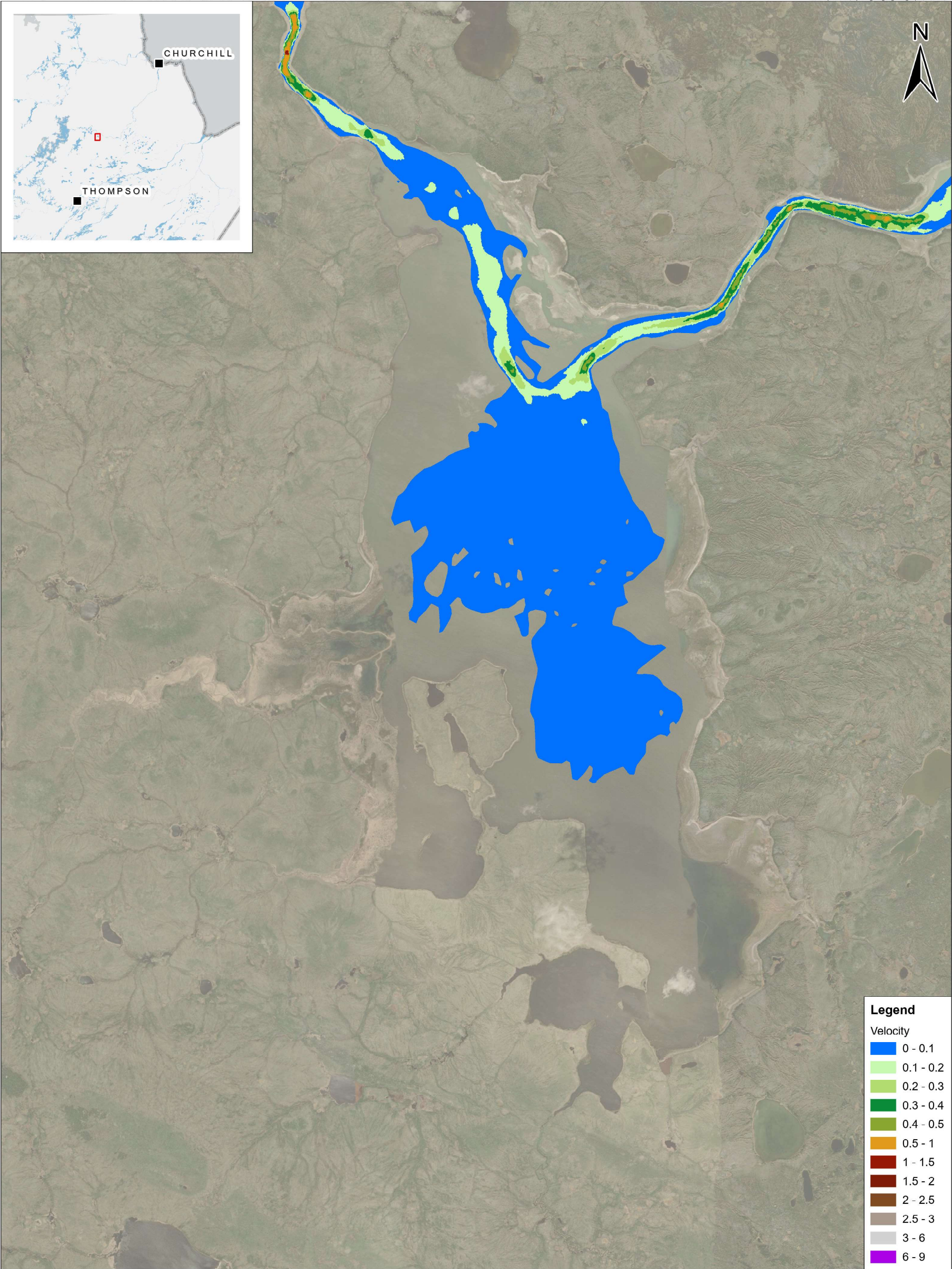
Northern Indian Lake to Fidler Lake

Velocity

5th Percentile

54 m³/s

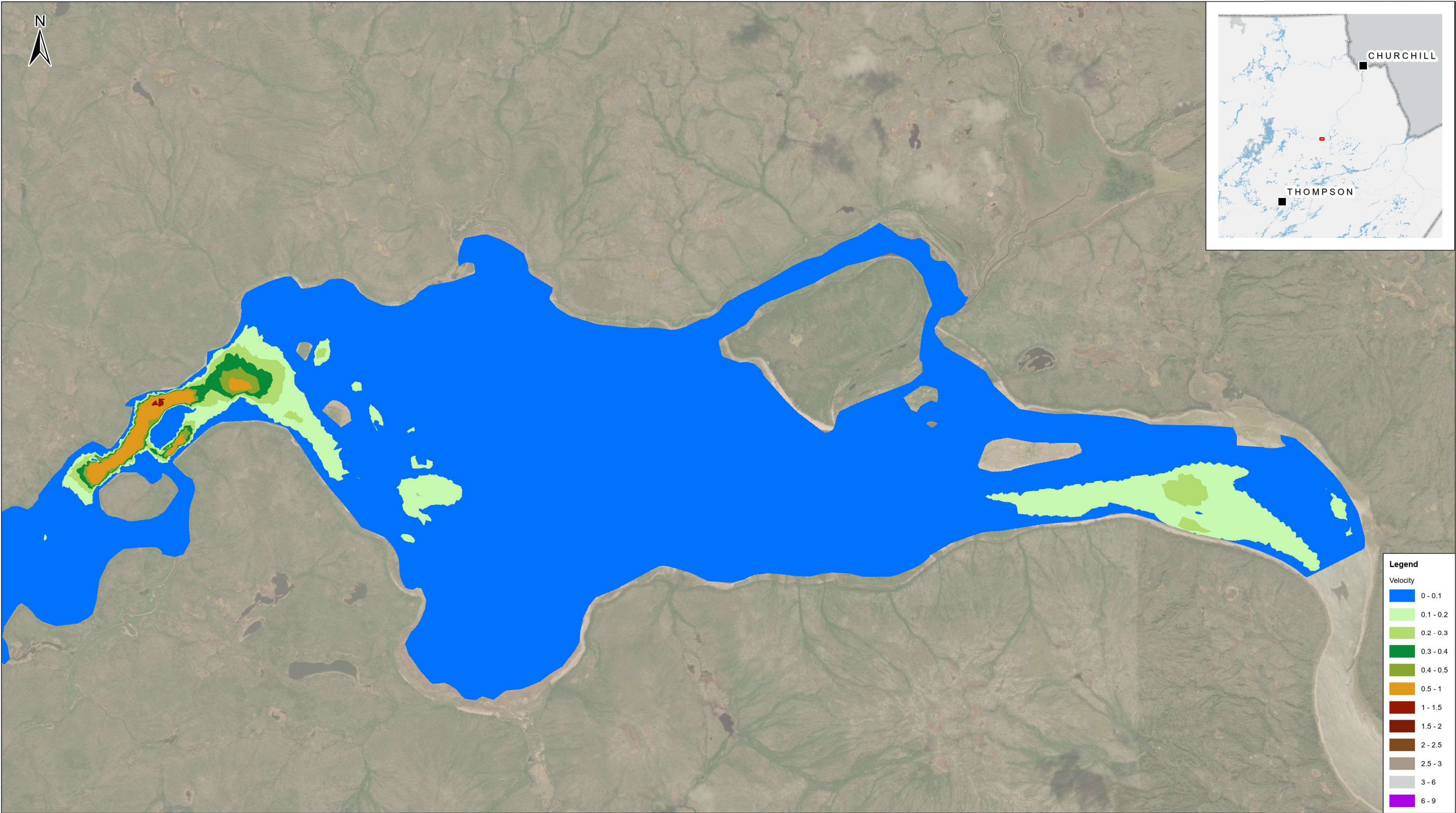
M1-V-P5-NILFL





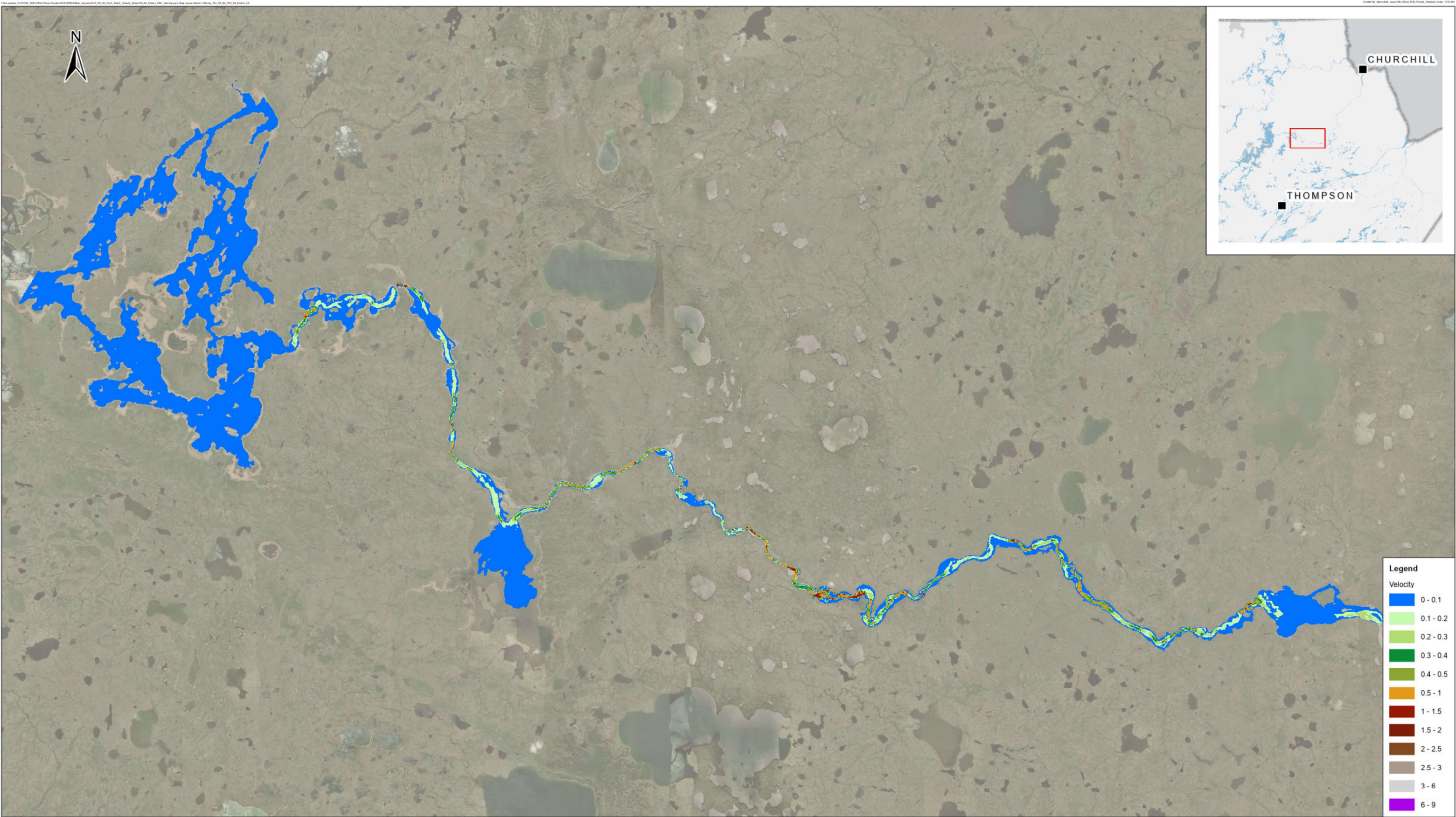
	DATA SOURCE: Modelling Data: Manitoba Hydro - Hydraulic Modelling Basemap: ArcGIS Map Service 2025 06 16			Fidler to Billard Lake Velocity 5th Percentile 54 m ³ /s
	CREATED BY: Energy Operations and Water Planning			
	COORDINATE SYSTEM: WGS 1984 UTM Zone 14N	DATE CREATED: 28-May-26	REVISION DATE: 16-JUL-26	
	0 2.5 5 Kilometers 0 2 4 Miles	VERSION NO:	QA/QC:	

M1-V-P5-FLBL



	DATA SOURCE: Modelling Data: Manitoba Hydro - Hydraulic Modelling Basemap: ArcGIS Map Service 2025 06 16		
	CREATED BY: Energy Operations and Water Planning		
	COORDINATE SYSTEM: WGS 1984 UTM Zone 14N	DATE CREATED: 28-May-26	REVISION DATE: 16-JUL-26
	0 0.5 1 Kilometers 0 0.45 0.9 Miles	VERSION NO:	QA/QC:

Billard Lake
Velocity
5th Percentile
54 m³/s



DATA SOURCE:
Modeling Data: Manitoba Hydro - Hydraulic Modeling
Basemap: ArcGIS Map Service 2025 06 16

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:
WGS 1984 UTM Zone 14N

0 5 10 Kilometers
0 4 8 Miles

DATE CREATED:
28-May-25

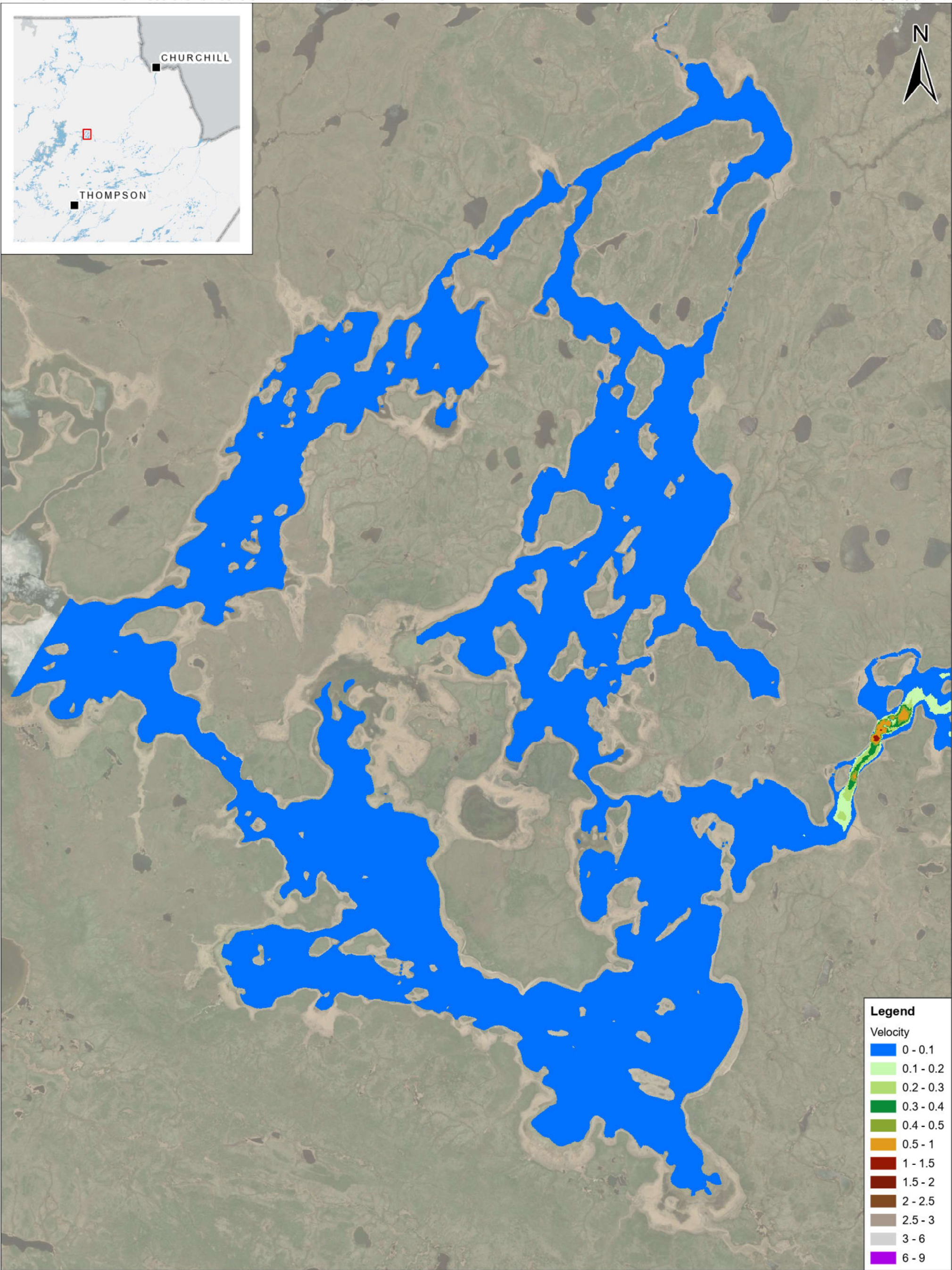
REVISION DATE:
27-JUL-25

VERSION NO:

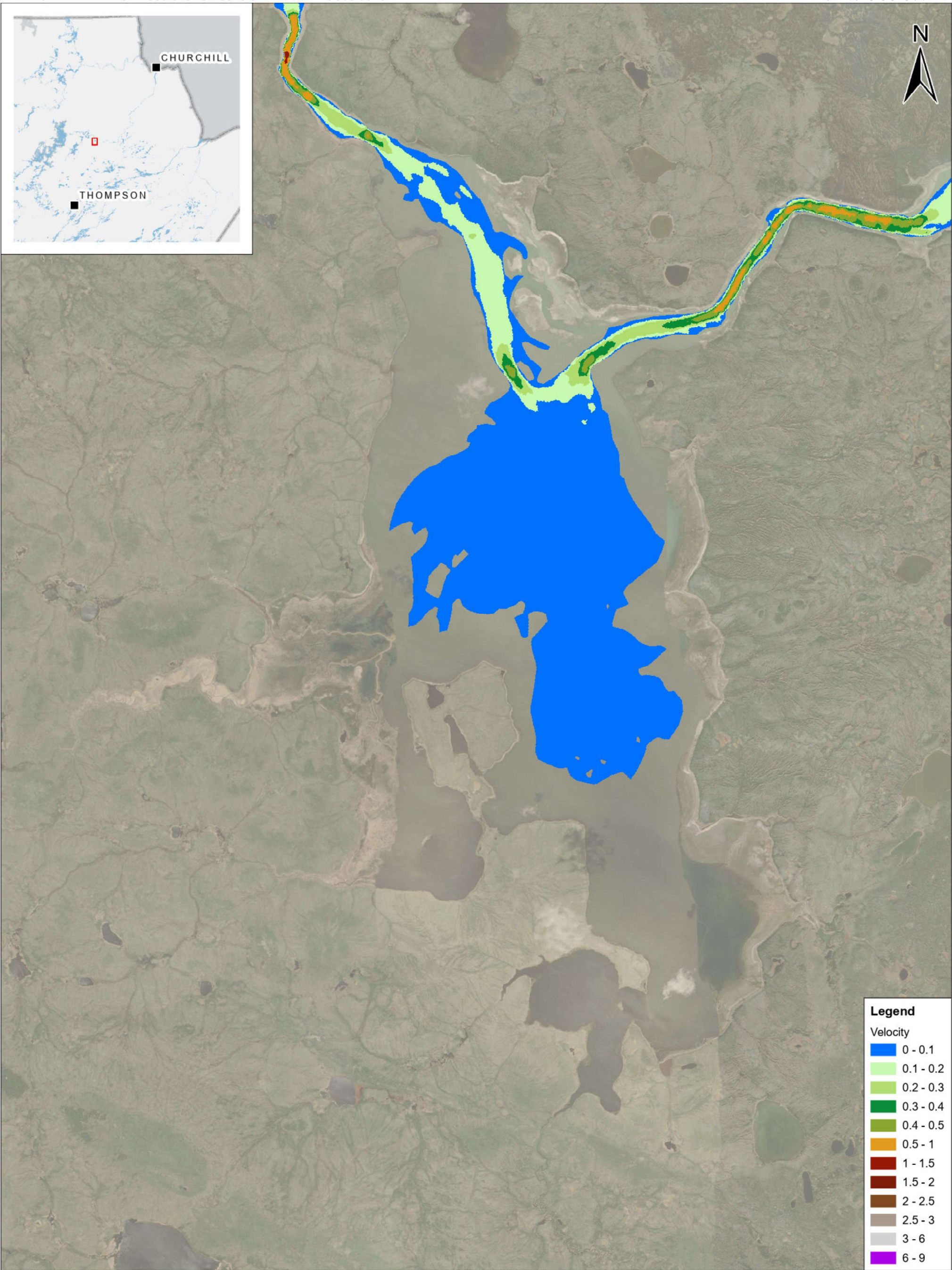
QA/QC:

Northern Indian Lake to Billard Lake
Velocity
25th Percentile
100 m³/s

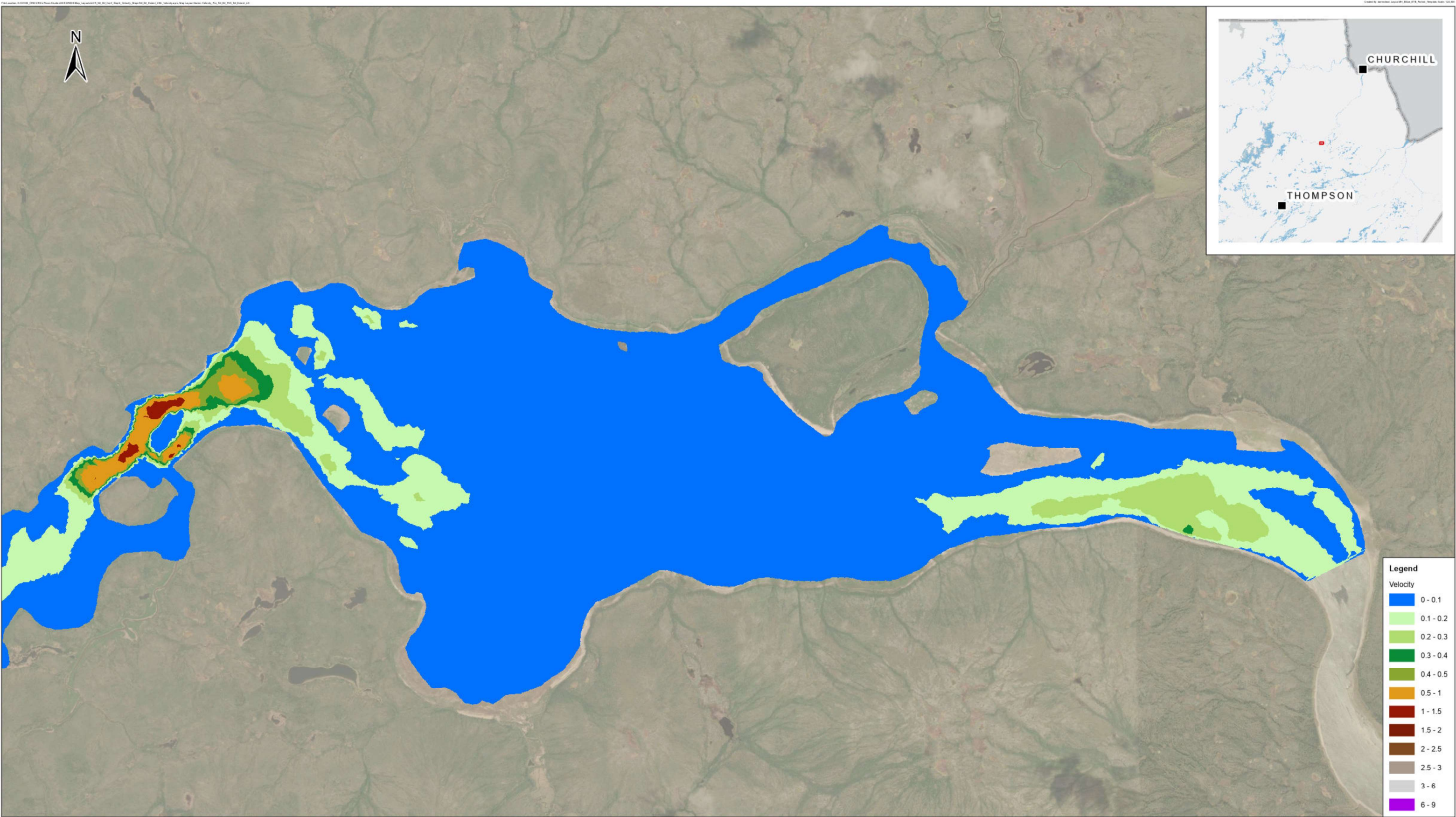
M1-V-P25-ALL

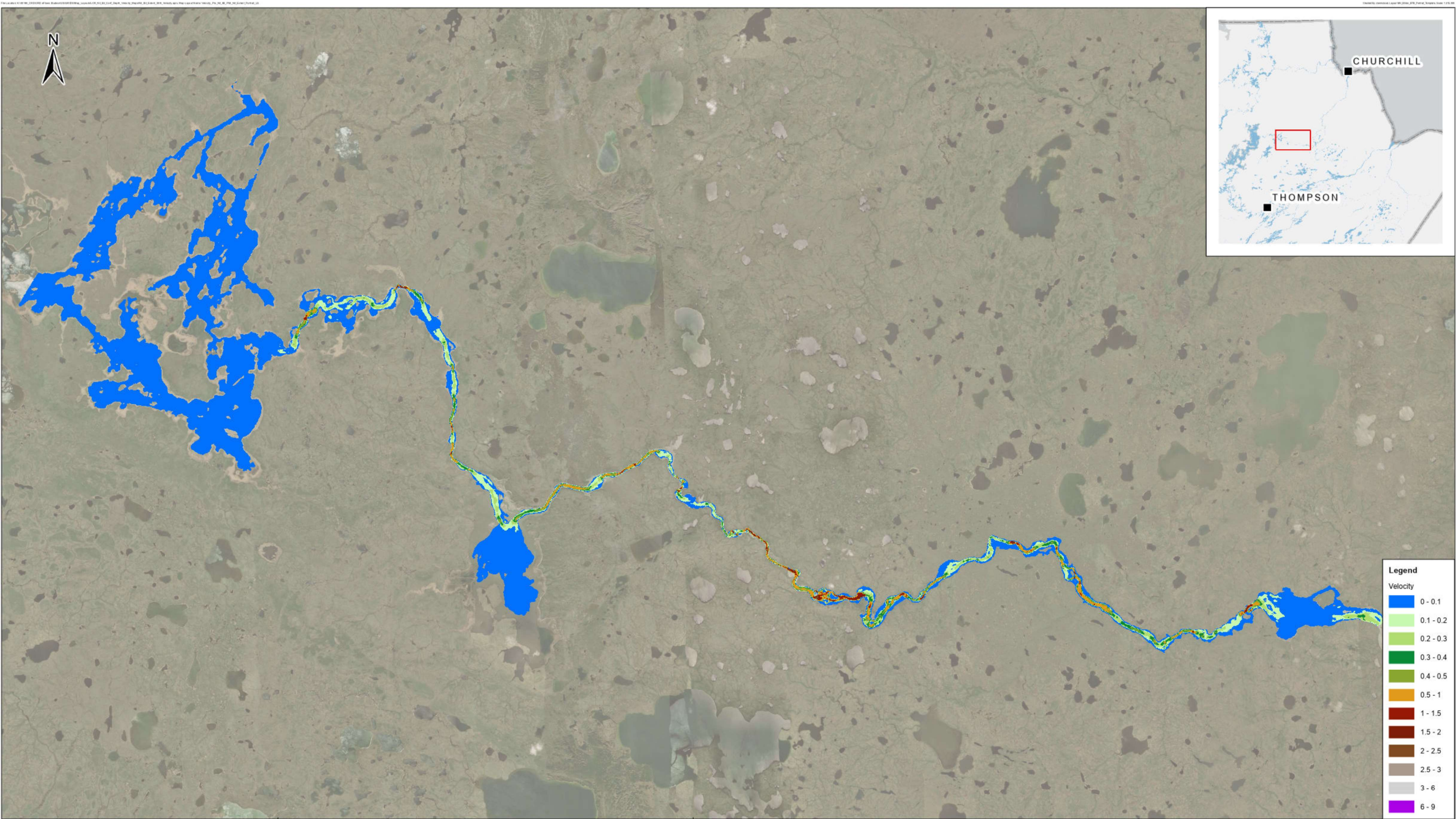






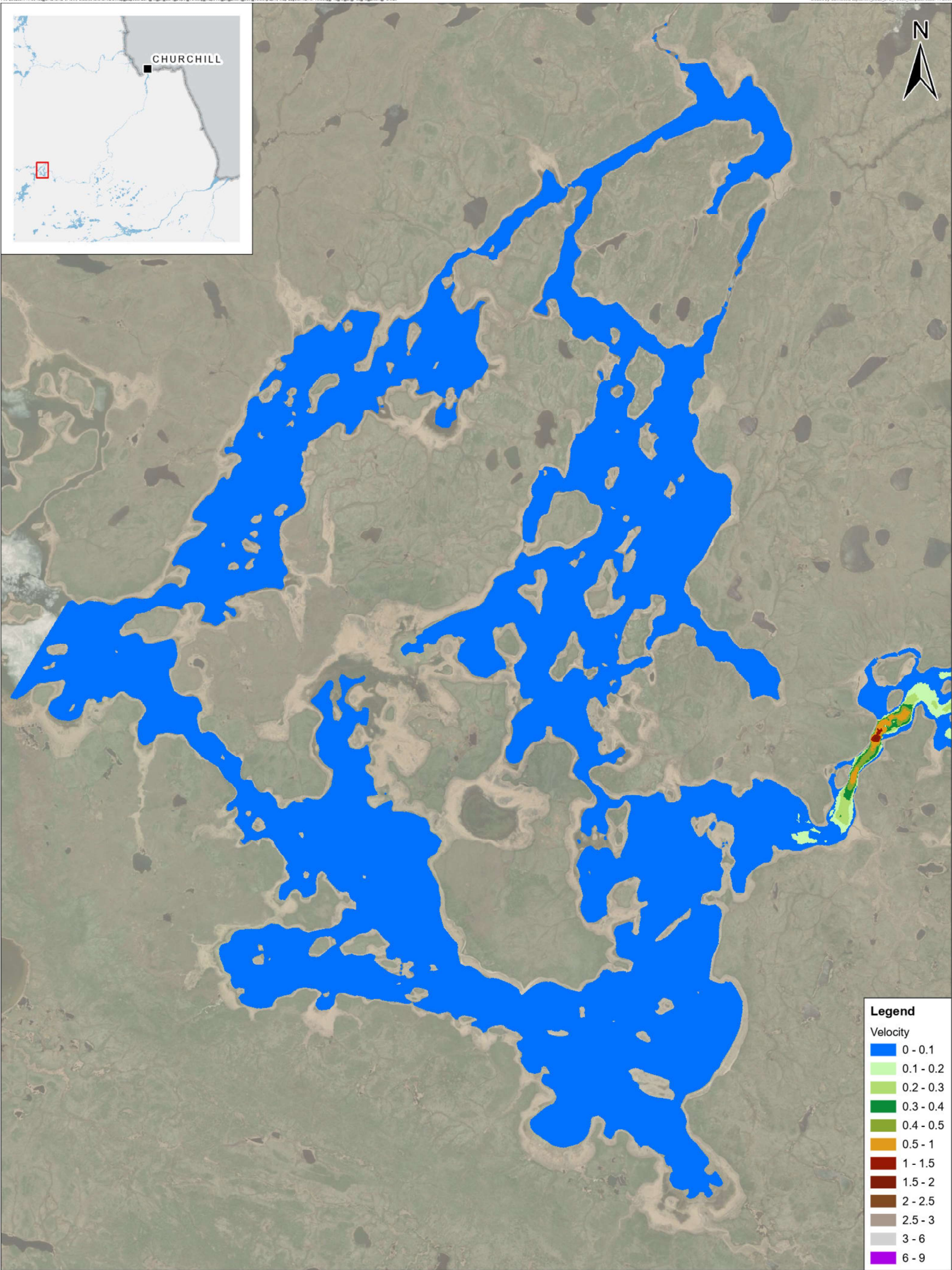






DATA SOURCE: Modeling Data: Manitoba Hydro - Hydraulic Modeling Basemap: ArcGIS Map Service 2025 06 16			
CREATED BY: Energy Operations and Water Planning			
COORDINATE SYSTEM: WGS 1984 UTM Zone 14N		DATE CREATED: 28-May-25	REVISION DATE: 28-JUL-25
0 5 10 Kilometers 0 4 8 Miles		VERSION NO:	QA/QC:

Northern Indian Lake to Billard Lake
Velocity
50th Percentile
164 m³/s



DATA SOURCE:
Modelling Data: Manitoba Hydro - Hydraulic Modelling
Basemap: ArcGIS Map Service 2025 06 16

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:	DATE CREATED:	REVISION DATE:
WGS 1984 UTM Zone 14N	28-May-26	27-JUL-26

0 0.8 1.6 Kilometers	VERSION NO:	QA/QC:
0 0.8 1.6 Miles		

Northern Indian Lake

Velocity

50th Percentile

164 m³/s





DATA SOURCE:
Modelling Data: Manitoba Hydro - Hydraulic Modelling
Basemap: ArcGIS Map Service 2025 06 16

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:
WGS 1984 UTM Zone 14N

0 0.85 1.7 Kilometers
0 0.8 1.6 Miles

DATE CREATED:
28-May-26

REVISION DATE:
27-JUL-26

VERSION NO:

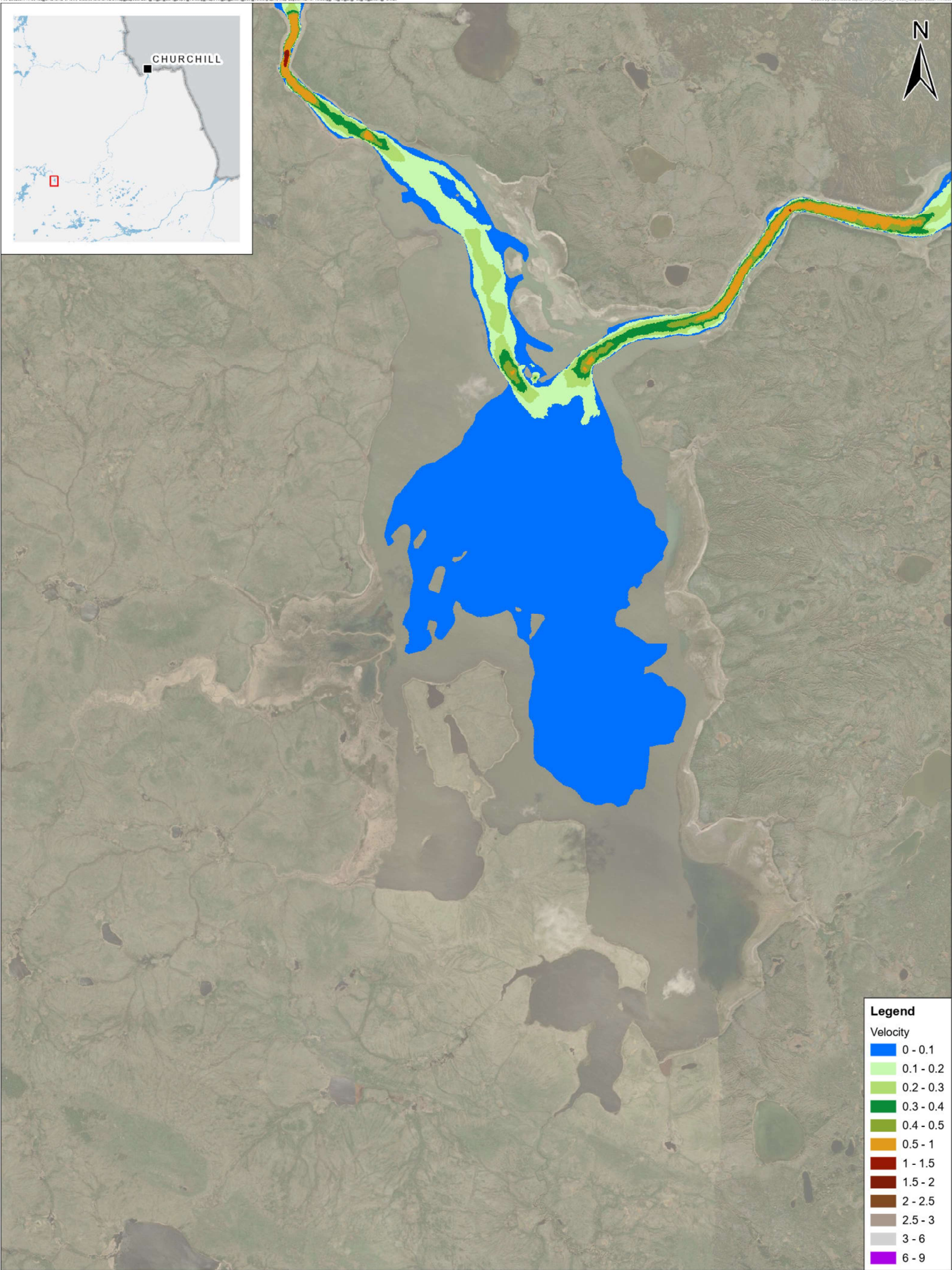
QA/QC:

Northern Indian Lake to Fidler Lake

Velocity

50th Percentile

164 m³/s





DATA SOURCE:
Modelling Data: Manitoba Hydro - Hydraulic Modelling
Basemap: ArcGIS Map Service 2025 06 16

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:
WGS 1984 UTM Zone 14N

0 0.55 1.1 Kilometers
0 0.5 1 Miles

DATE CREATED:
28-May-26

REVISION DATE:
27-JUL-26

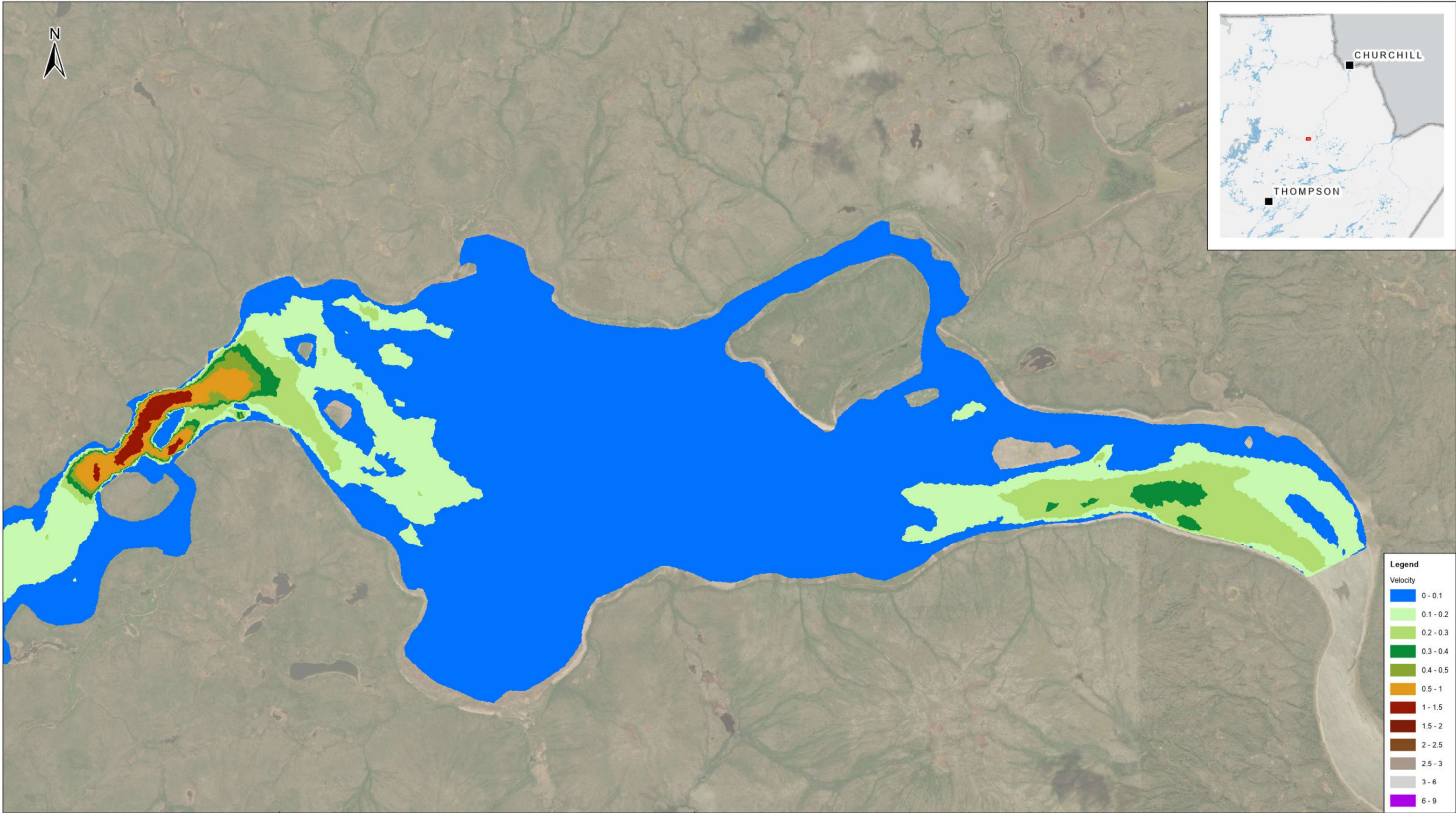
VERSION NO:
QA/QC:

Fidler Lake
Velocity
50th Percentile
164 m³/s

M1-V-P50-FL

FILE SOURCE: C:\HYDRO\PROJECTS\BILLARD_LAKE\BILLARD_LAKE_50TH_PCT_VELOCITY_164.mxd, PROJECT: BILLARD_LAKE_50TH_PCT_VELOCITY_164.mxd, MAP: BILLARD_LAKE_50TH_PCT_VELOCITY_164.mxd, SCALE: 1:50,000

CHART: BILLARD_LAKE_50TH_PCT_VELOCITY_164.mxd, SCALE: 1:50,000



DATA SOURCE:
Modeling Data: Manitoba Hydro - Hydrologic Modeling
Basemap: ArcGIS Map Service 2025 06 16

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:

WGS 1984 UTM Zone 14N

DATE CREATED:

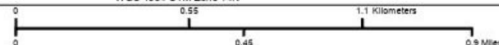
26-May-26

REVISION DATE:

27-JUL-26

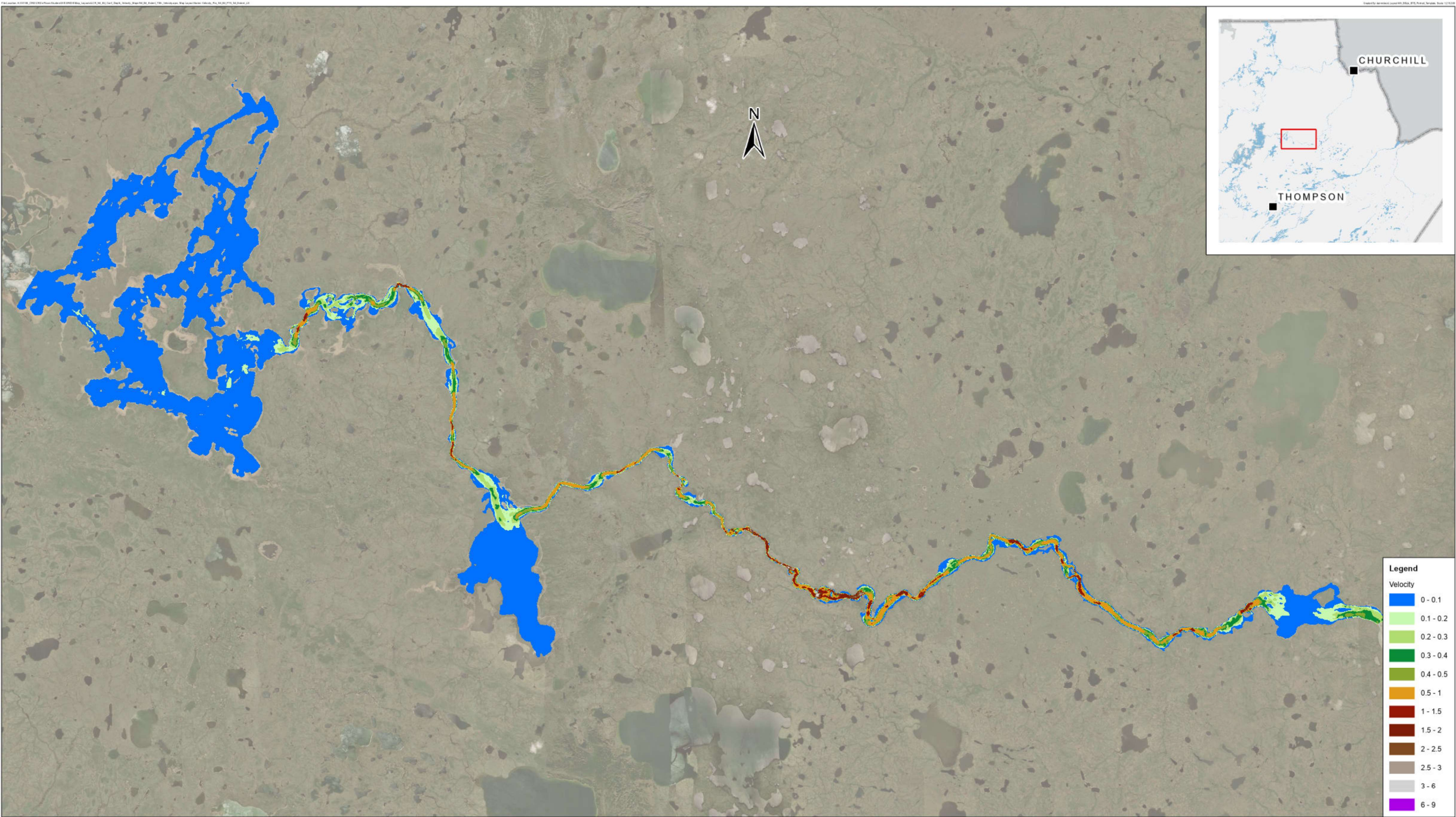
VERSION NO:

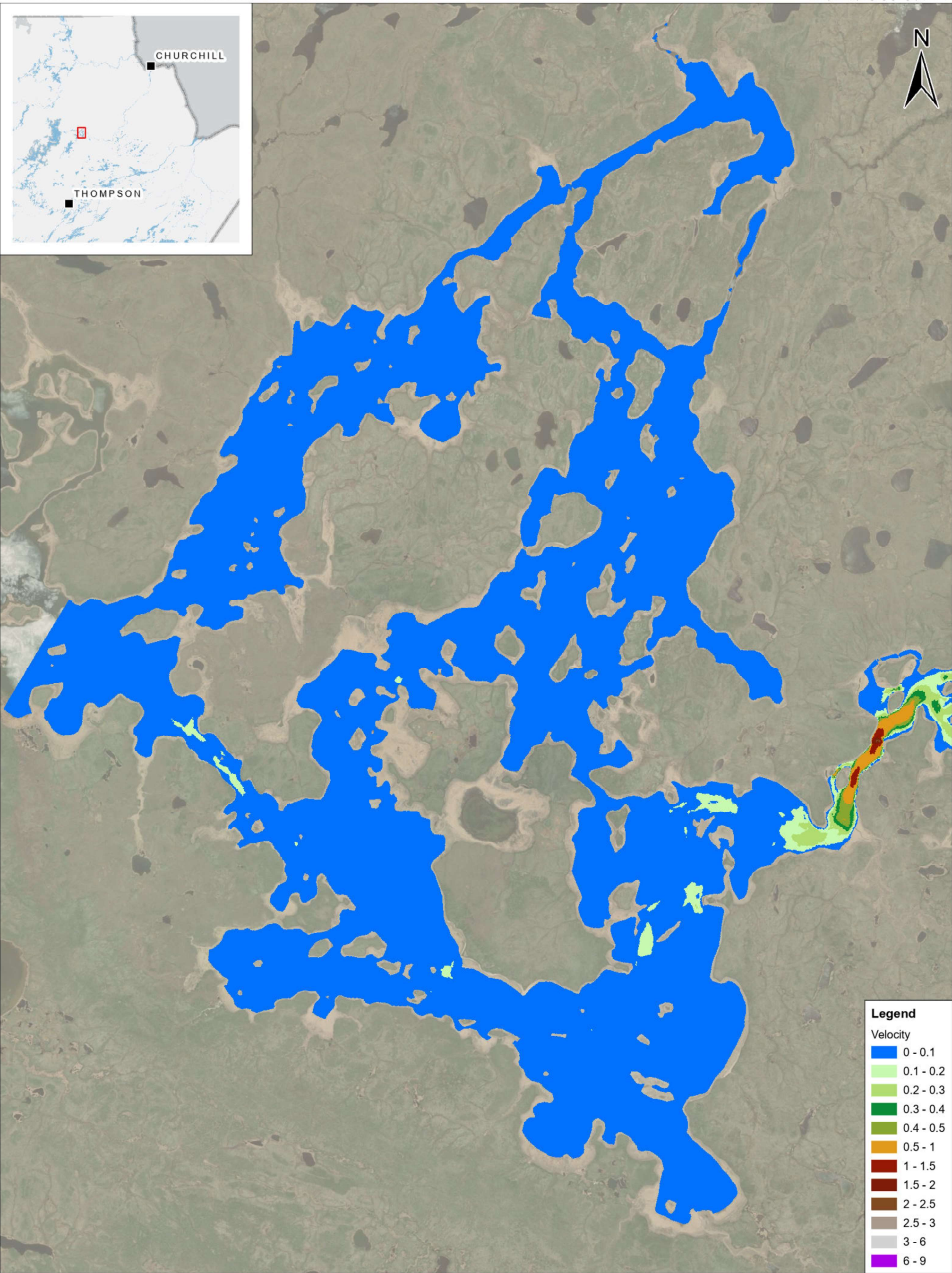
QA/QC:

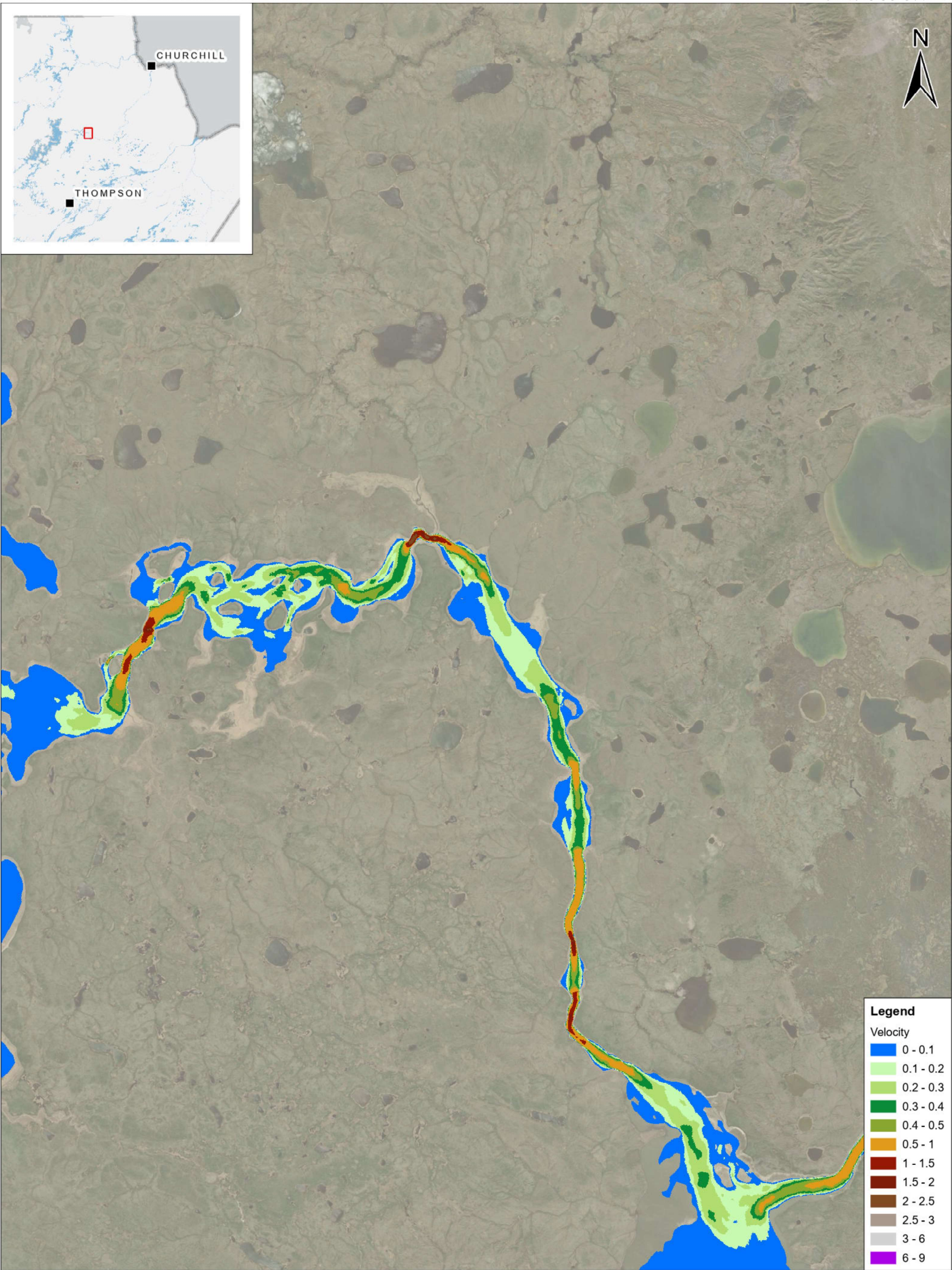


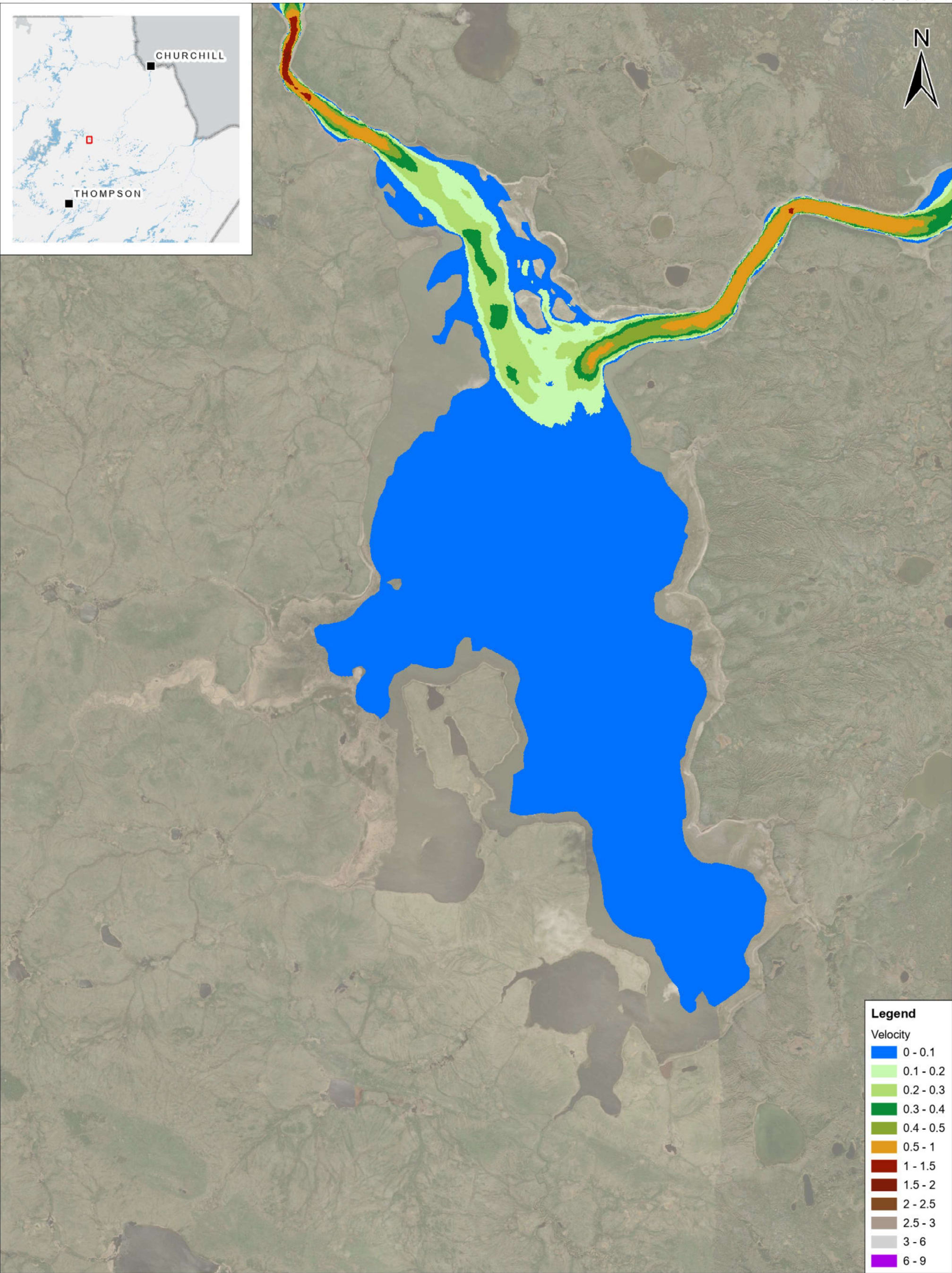
Billard Lake
Velocity
50th Percentile
164 m³/s

M1-WD-P95-BL











DATA SOURCE:
Modelling Data: Manitoba Hydro - Hydraulic Modelling
Basemap: ArcGIS Map Service 2025 06 16

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:
WGS 1984 UTM Zone 14N

DATE CREATED:
28-May-26

REVISION DATE:
27-JUL-26

00.551.1 Kilometers

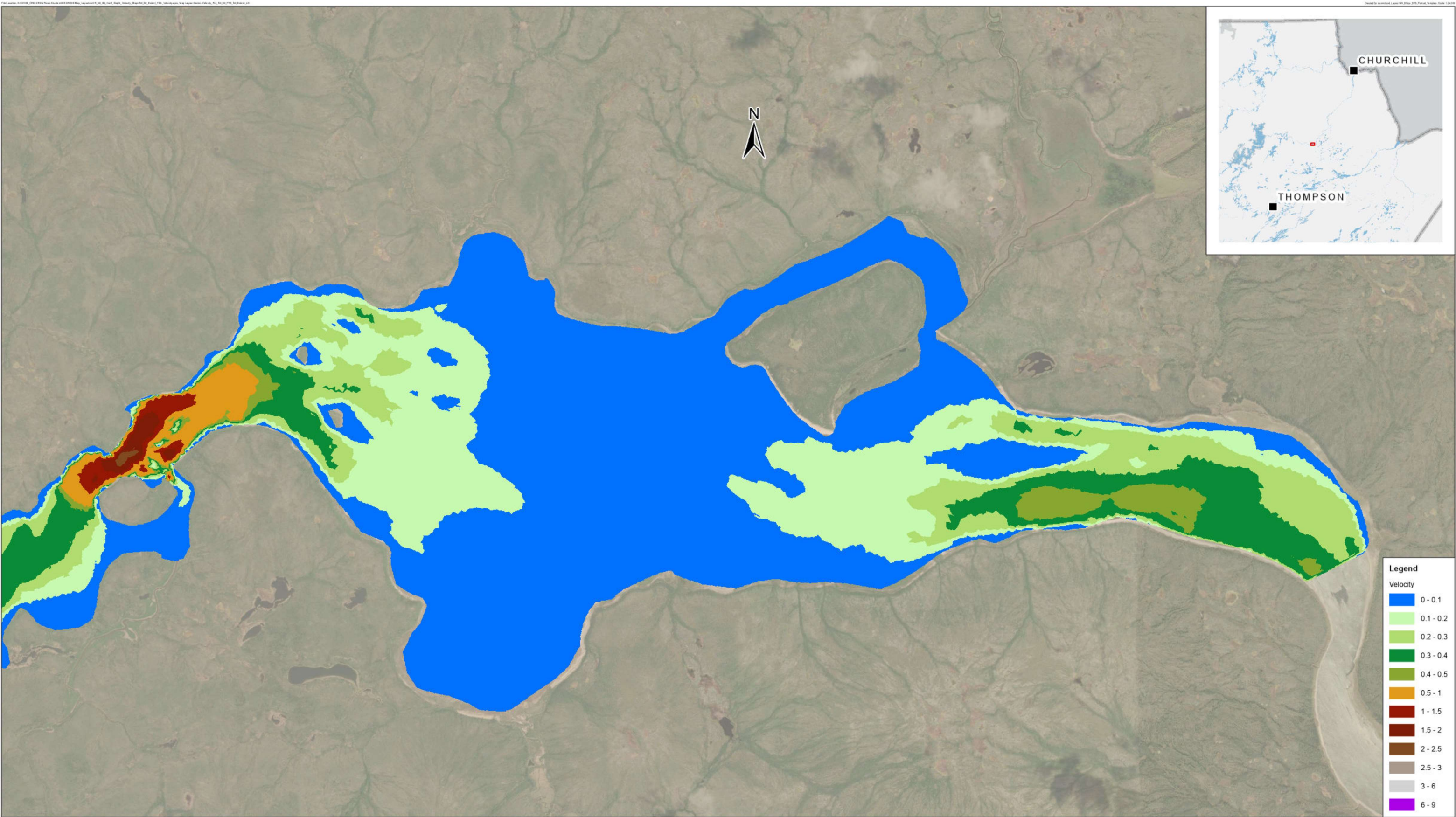
00.51 Miles

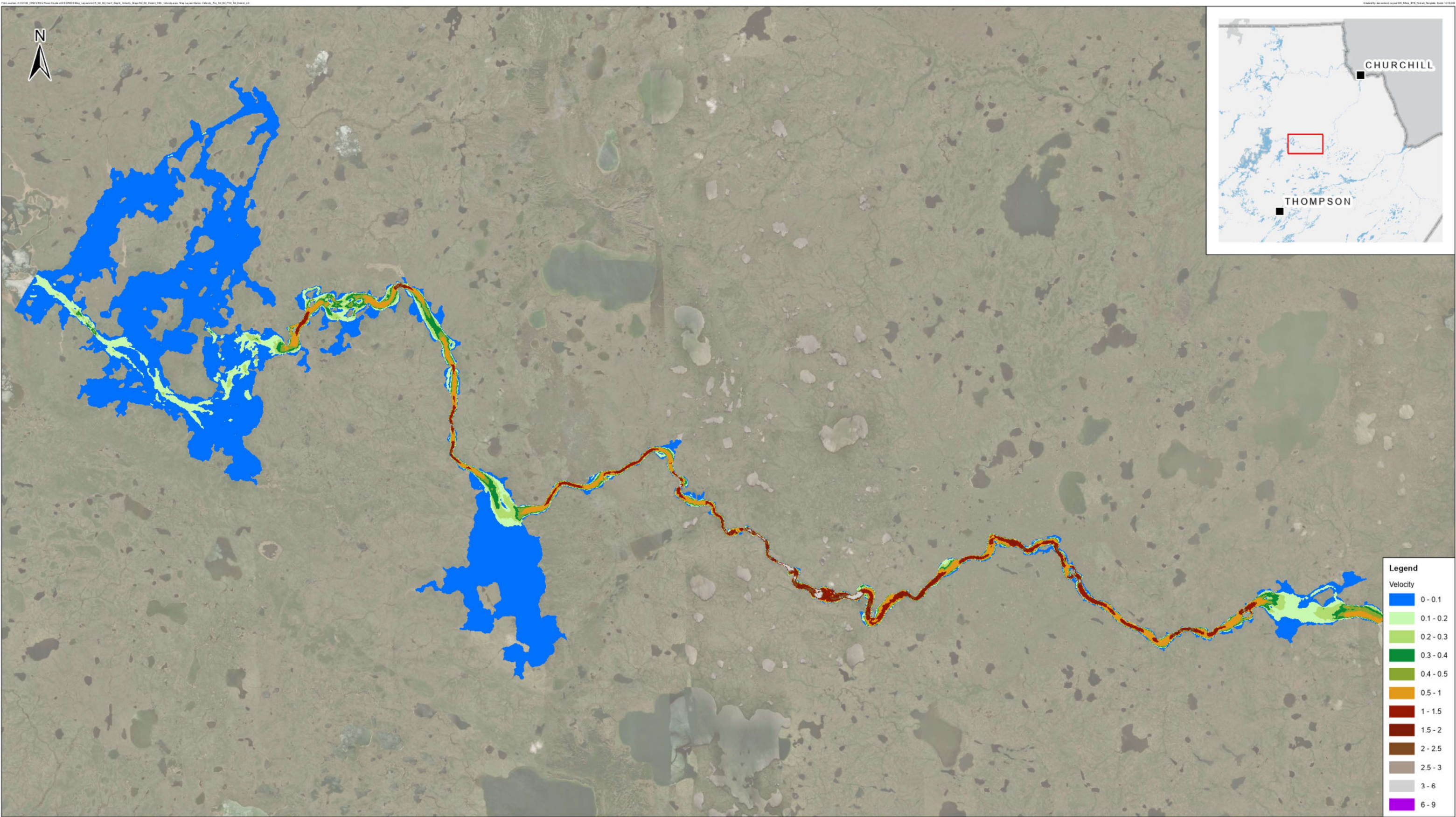
VERSION NO:

QA/QC:

Fidler Lake
Velocity
75th Percentile
519 m³/s

M1-V-P75-FL



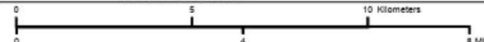


DATA SOURCE:
Modeling Data: Manitoba Hydro - Hydraulic Modeling
Basemap: ArcGIS Map Service 2025 06 16 Manitoba Hydro

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:

WGS 1984 UTM Zone 14N



DATE CREATED:

28-May-26

VERSION NO:

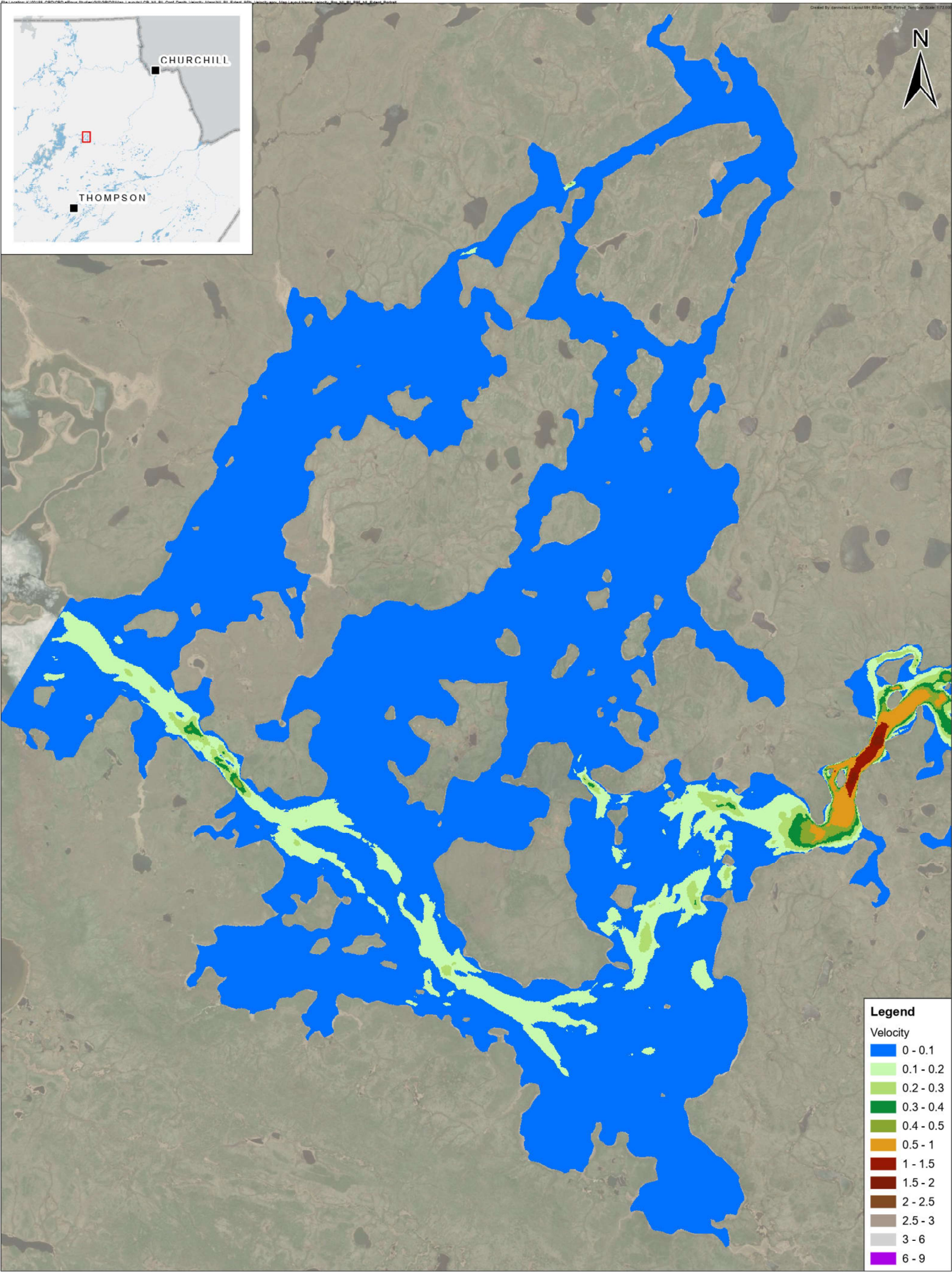
REVISION DATE:

28-JUL-26

QA/QC:

Northern Indian Lake to Billard Lake

Velocity
95th Percentile
1792 m³/s





DATA SOURCE:
Modelling Data: Manitoba Hydro - Hydraulic Modelling
Basemap: ArcGIS Map Service 2025 06 16Manitoba Hydro

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM: WGS 1984 UTM Zone 14N	DATE CREATED: 28-May-26	REVISION DATE: 27-JUL-26
0 0.8 1.6 Kilometers 0 0.8 1.6 Miles	VERSION NO:	QA/QC:

Northern Indian Lake

Velocity

95th Percentile
1792 m³/s





DATA SOURCE:
Modelling Data: Manitoba Hydro - Hydraulic Modelling
Basemap: ArcGIS Map Service 2025 06 16Manitoba Hydro

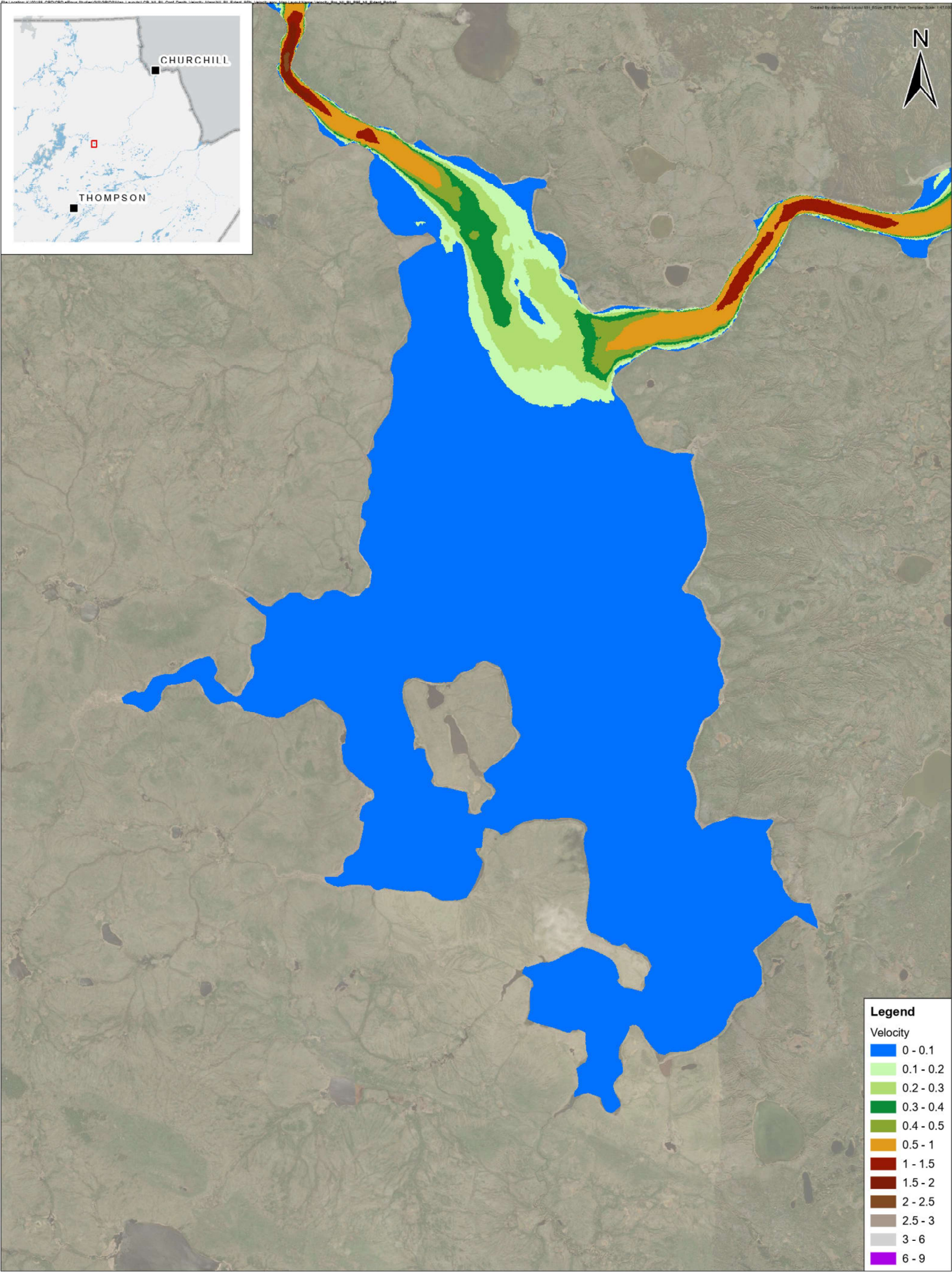
CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM: WGS 1984 UTM Zone 14N	DATE CREATED: 28-May-26	REVISION DATE: 27-JUL-26
0 0.85 1.7 Kilometers 0 0.8 1.6 Miles	VERSION NO:	QA/QC:

Northern Indian Lake to Fidler

Velocity

95th Percentile
1792 m³/s





DATA SOURCE:
Modelling Data: Manitoba Hydro - Hydraulic Modelling
Basemap: ArcGIS Map Service 2025 06 16Manitoba Hydro

CREATED BY:
Energy Operations and Water Planning

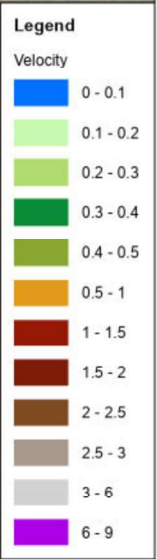
COORDINATE SYSTEM: WGS 1984 UTM Zone 14N	DATE CREATED: 28-May-26	REVISION DATE: 27-JUL-26
0 0.55 1.1 Kilometers 0 0.5 1 Miles	VERSION NO:	QA/QC:

Fidler Lake

Velocity

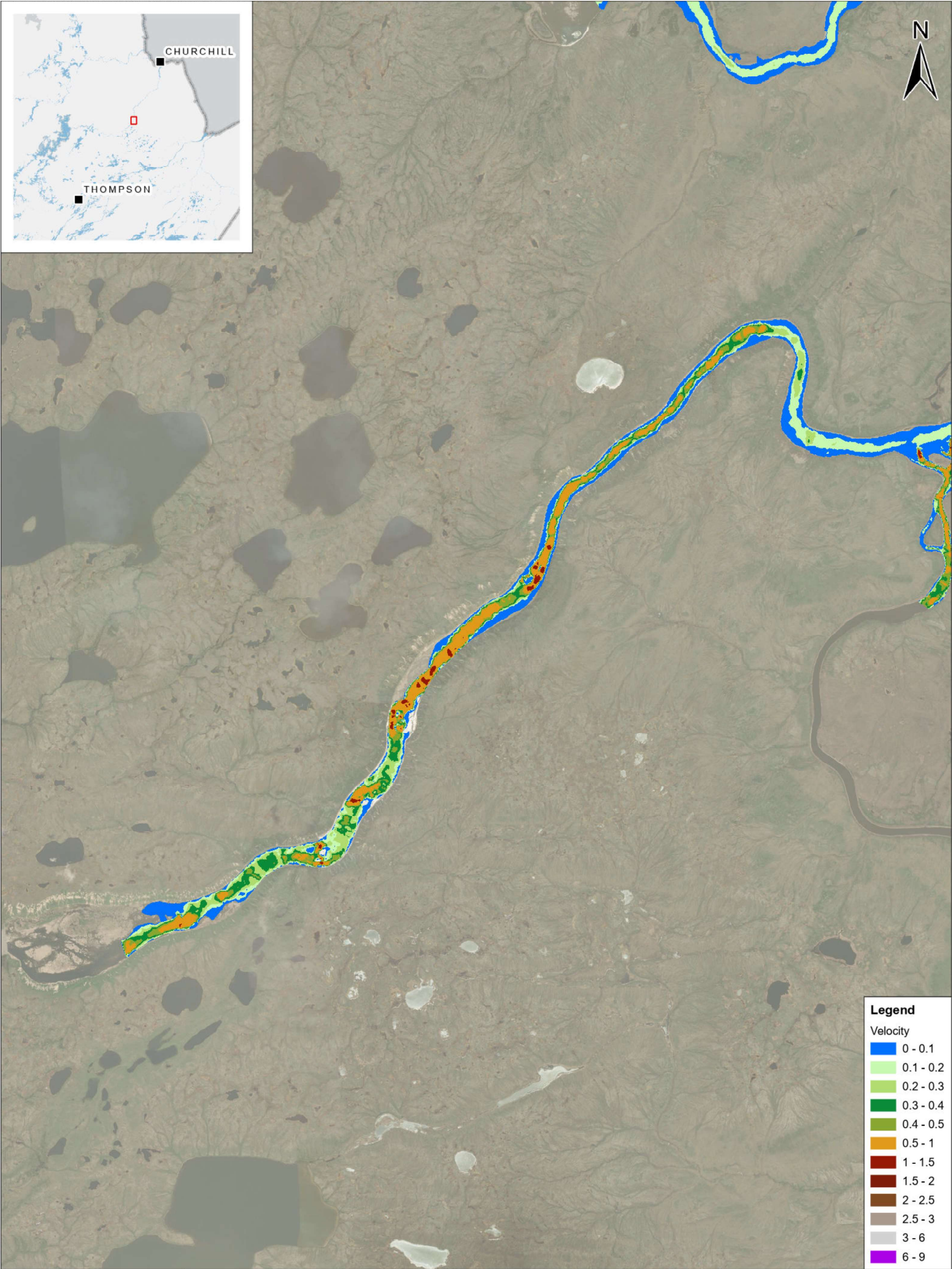
95th Percentile

1792 m³/s



DATA SOURCE: Modeling Data: Manitoba Hydro - Hydraulic Modeling Basemap: ArcGIS Map Service 2025 06 16Manitoba Hydro		
CREATED BY: Energy Operations and Water Planning		
COORDINATE SYSTEM: WGS 1984 UTM Zone 14N	DATE CREATED: 28-May-26	REVISION DATE: 27-JUL-26
0 2.5 5 Kilometers 0 2 4 Miles	VERSION NO:	QA/QC:

Fidler to Billard Lake
Velocity
95th Percentile
1792 m³/s



DATA SOURCE:
Manitoba Hydro

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:
WGS 1984 UTM Zone 14N

DATE CREATED:
28-May-26

REVISION DATE:
27-JUL-26

0 0.6 1.2 Kilometers

0 0.55 1.1 Miles

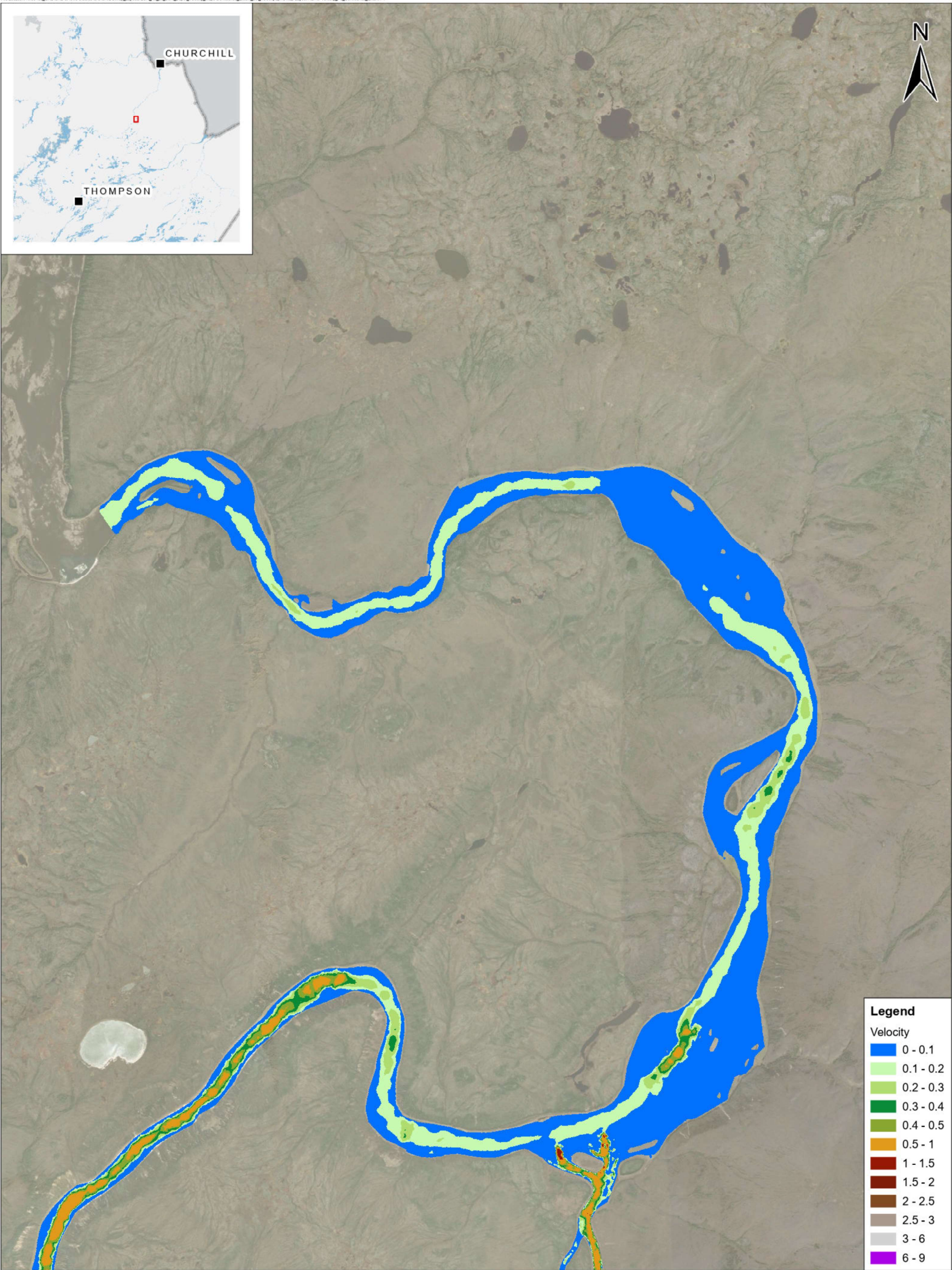
The Fours to Little Churchill River Confluence

Velocity

5th Percentile

95 m³/s

M2-V-P5-FOURS



DATA SOURCE:
Manitoba Hydro

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:
WGS 1984 UTM Zone 14N

DATE CREATED:
28-May-26

REVISION DATE:
27-JUL-26

0 0.4 0.8 Kilometers

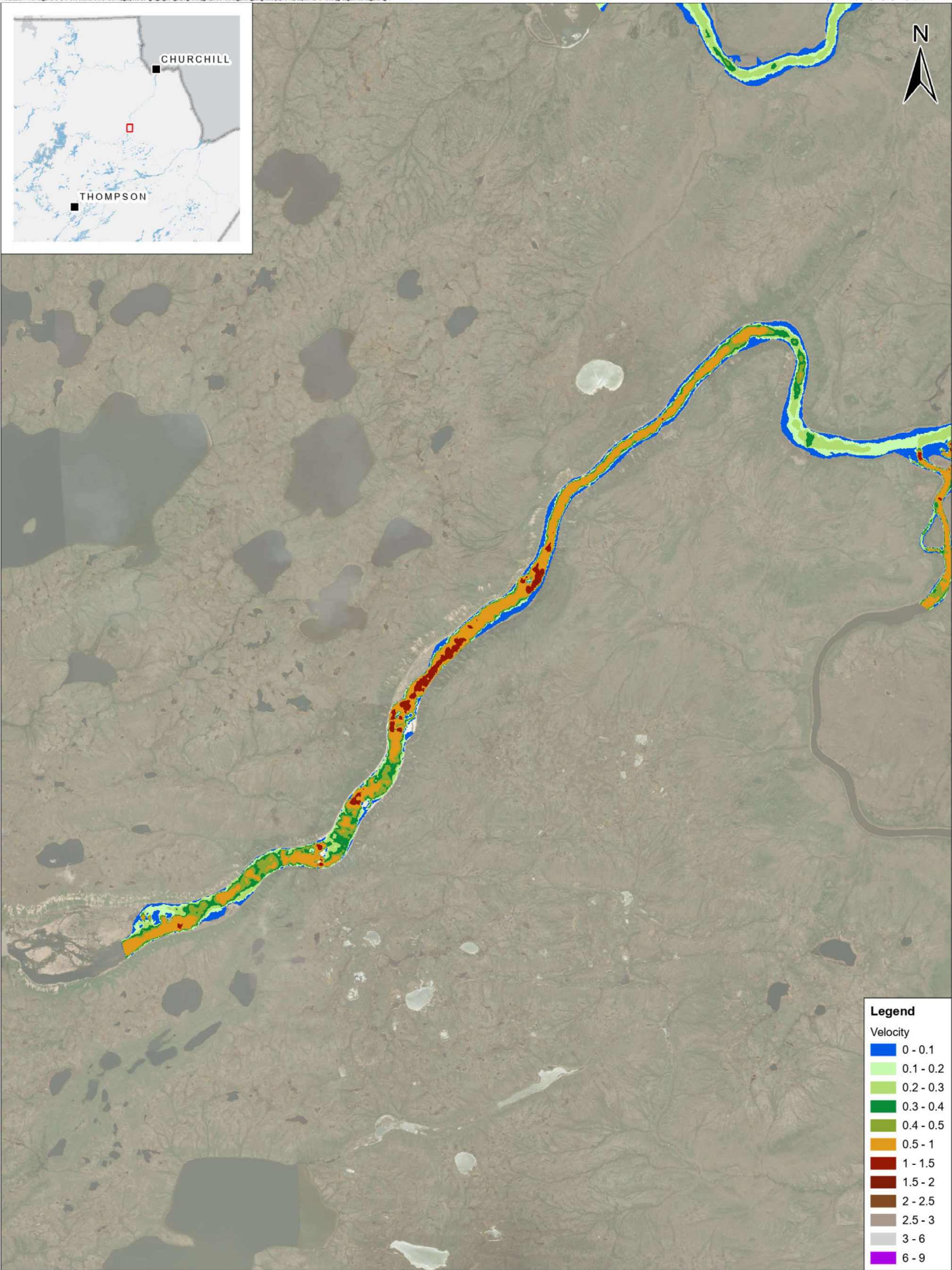
0 0.4 0.8 Miles

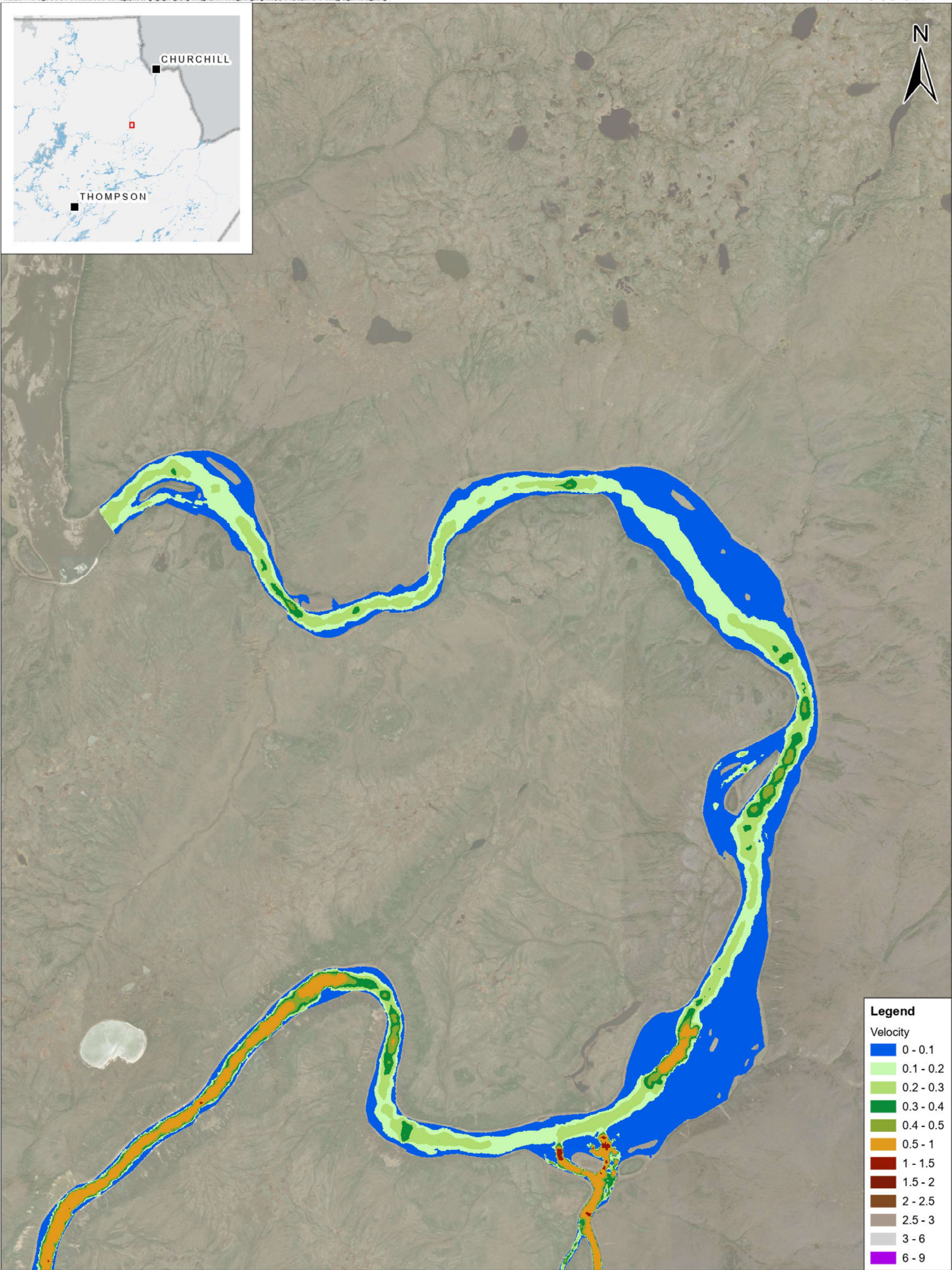
VERSION NO:

QA/QC:

Little Churchill River Confluence to Swallow Rapids

Velocity
5th Percentile
95m³/s







DATA SOURCE:
Modelling Data: Manitoba Hydro - Hydraulic Modelling
Basemap: ArcGIS Map Service 2023 05 21

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:
WGS 1984 UTM Zone 14N

DATE CREATED:
28-May-26

REVISION DATE:
27-JUL-26

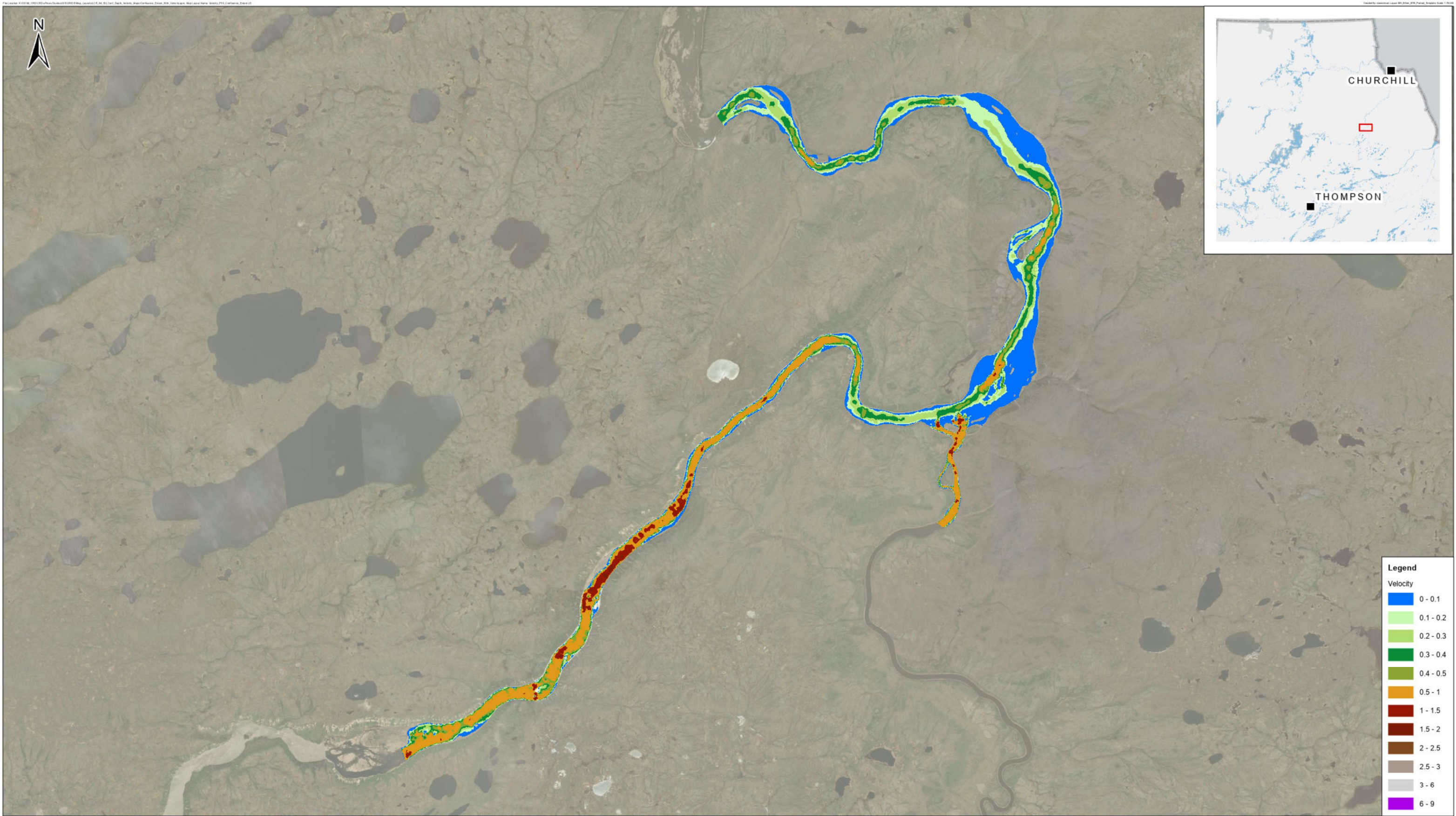
0 0.4 0.8 Kilometers

0 0.4 0.8 Miles

VERSION NO:
QA/QC:

Little Churchill River Confluence to Swallow Rapids

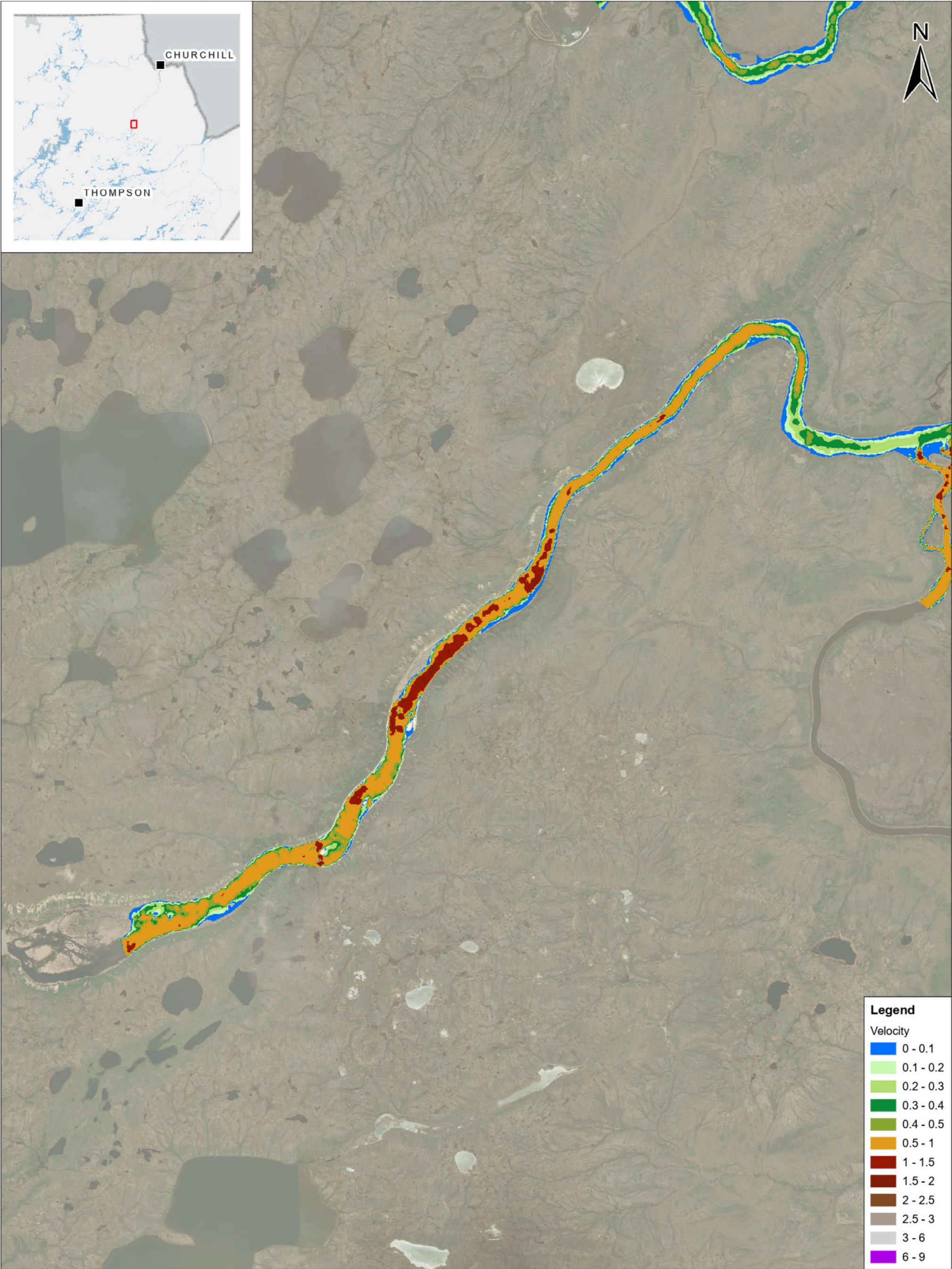
Velocity
25th Percentile
173 m³/s



DATA SOURCE: Modeling Data: Manitoba Hydro - Hydraulic Modeling Basemap: ArcGIS Map Service 2023 05 21			
CREATED BY: Energy Operations and Water Planning			
COORDINATE SYSTEM: WGS 1984 UTM Zone 14N		DATE CREATED: 28-May-26	REVISION DATE: 17-JUL-26
		VERSION NO:	GAUGE:

Little Churchill River Confluence Area

Velocity
50th Percentile
302 m³/s



DATA SOURCE:
Modelling Data: Manitoba Hydro - Hydraulic Modelling
Basemap: ArcGIS Map Service 2023 05 21

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:
WGS 1984 UTM Zone 14N

0 0.6 1.2 Kilometers
0 0.55 1.1 Miles

DATE CREATED:
28-May-26

REVISION DATE:
24-JUL-26

VERSION NO:

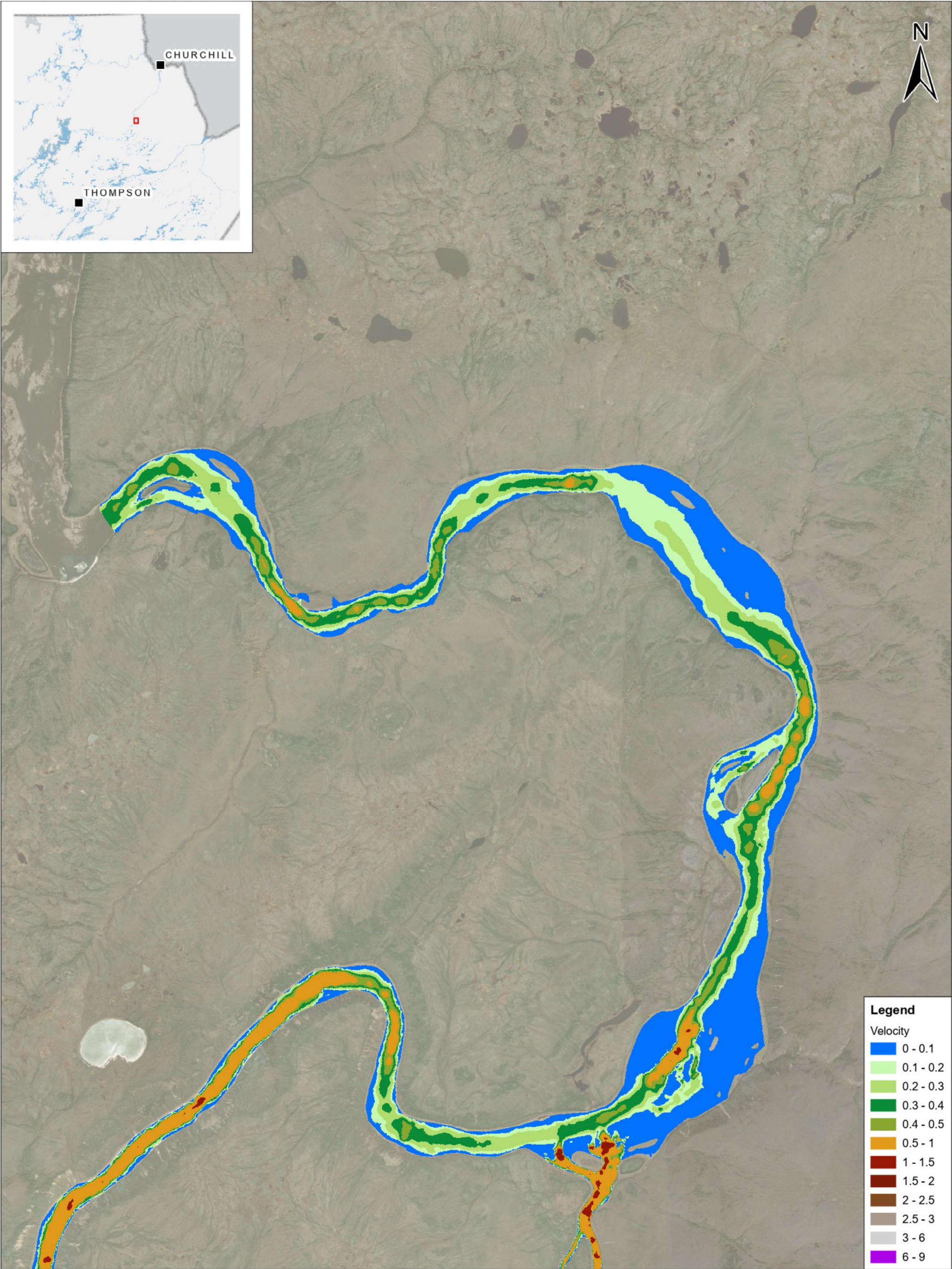
QA/QC:

The Fours to Little Churchill River Confluence

Velocity

50th Percentile

302 m³/s





DATA SOURCE:
Modelling Data: Manitoba Hydro - Hydraulic Modelling
Basemap: ArcGIS Map Service 2023 05 21

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:
WGS 1984 UTM Zone 14N

0 0.4 0.8 Kilometers
0 0.4 0.8 Miles

DATE CREATED:
28-May-26

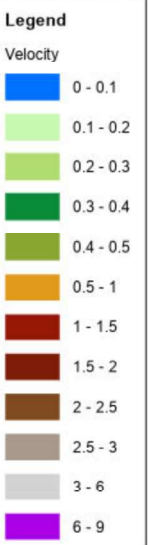
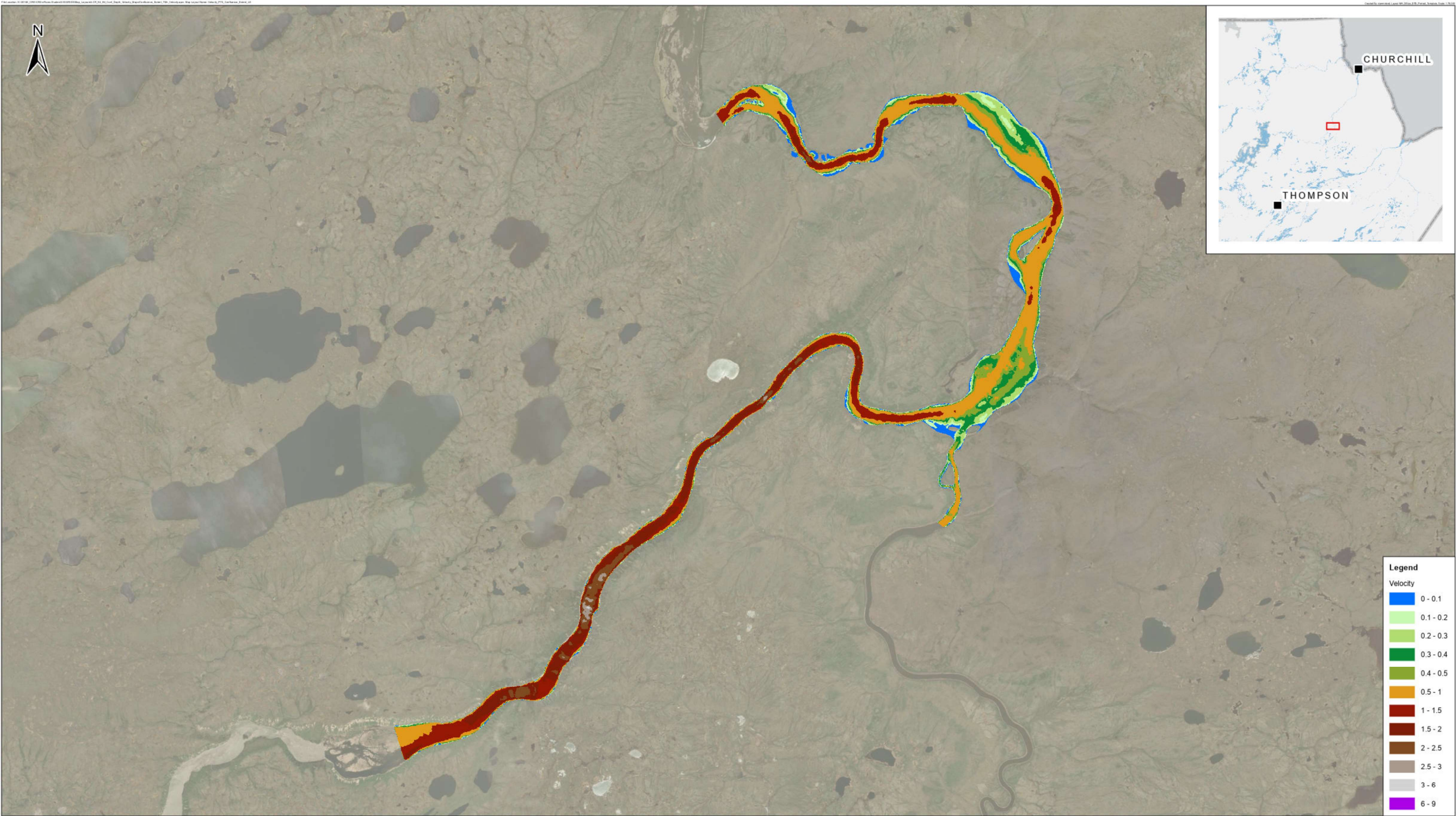
REVISION DATE:
24-JUL-26

VERSION NO:

QA/QC:

Little Churchill River Confluence to Swallow Rapids

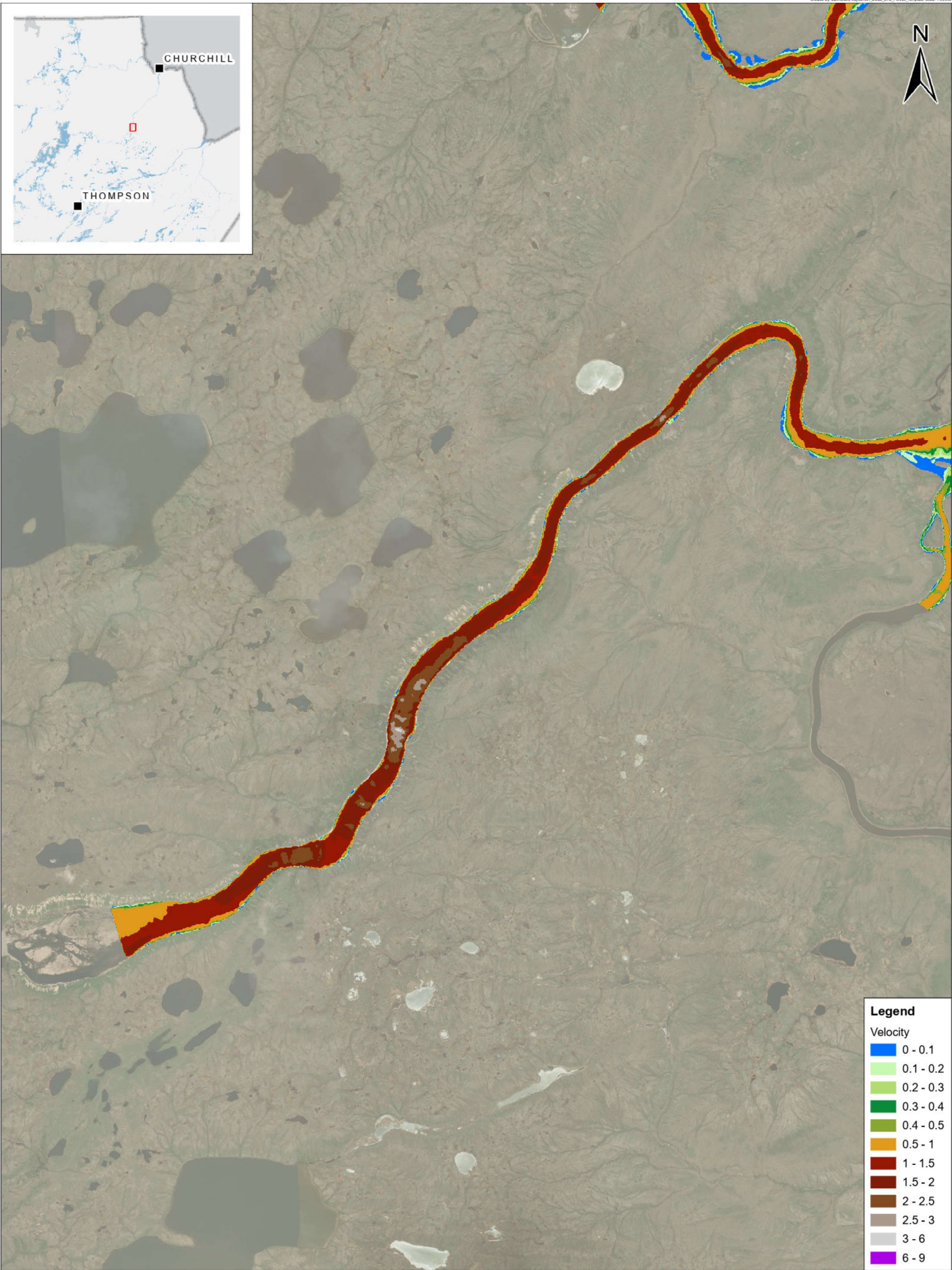
Velocity
50th Percentile
302 m³/s



DATA SOURCE: Modeling Data: Manitoba Hydro - Hydraulic Modeling Basemap: ArcGIS Map Service 2023 05 21			
CREATED BY: Energy Operations and Water Planning			
COORDINATE SYSTEM: WGS 1984 UTM Zone 14N		DATE CREATED: 28-May-26	REVISION DATE: 24-JUL-26
0 2 4 Kilometers 0 1.5 3 Miles		VERSION NO:	GAUGE:

Little Churchill River Confluence Area

Velocity
75th Percentile
610 m³/s





DATA SOURCE:
Modelling Data: Manitoba Hydro - Hydraulic Modelling
Basemap: ArcGIS Map Service 2023 05 21

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:
WGS 1984 UTM Zone 14N

0 0.6 1.2 Kilometers
0 0.55 1.1 Miles

DATE CREATED:
28-May-26

REVISION DATE:
24-JUL-26

VERSION NO:

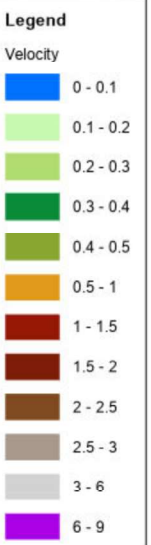
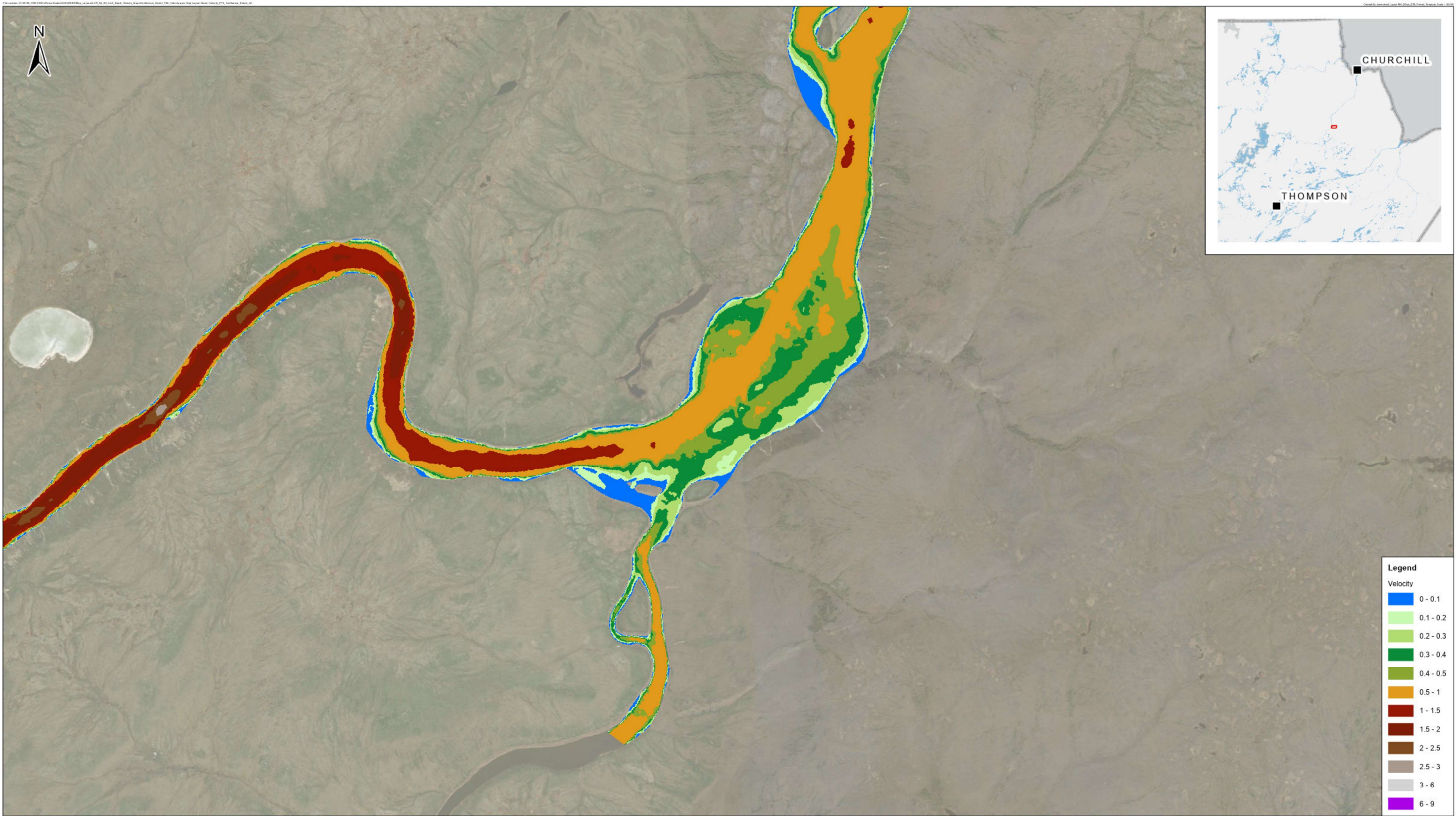
QA/QC:

The Fours to Little Churchill River Confluence

Velocity

75th Percentile

610 m³/s



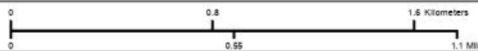
DATA SOURCE:
Modeling Data: Manitoba Hydro - Hydraulic Modeling
Basemap: ArcGIS Map Service 2023 05 21

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM: WGS 1984 UTM Zone 14N

DATE CREATED: 28-May-26

REVISION DATE: 24-JUL-26

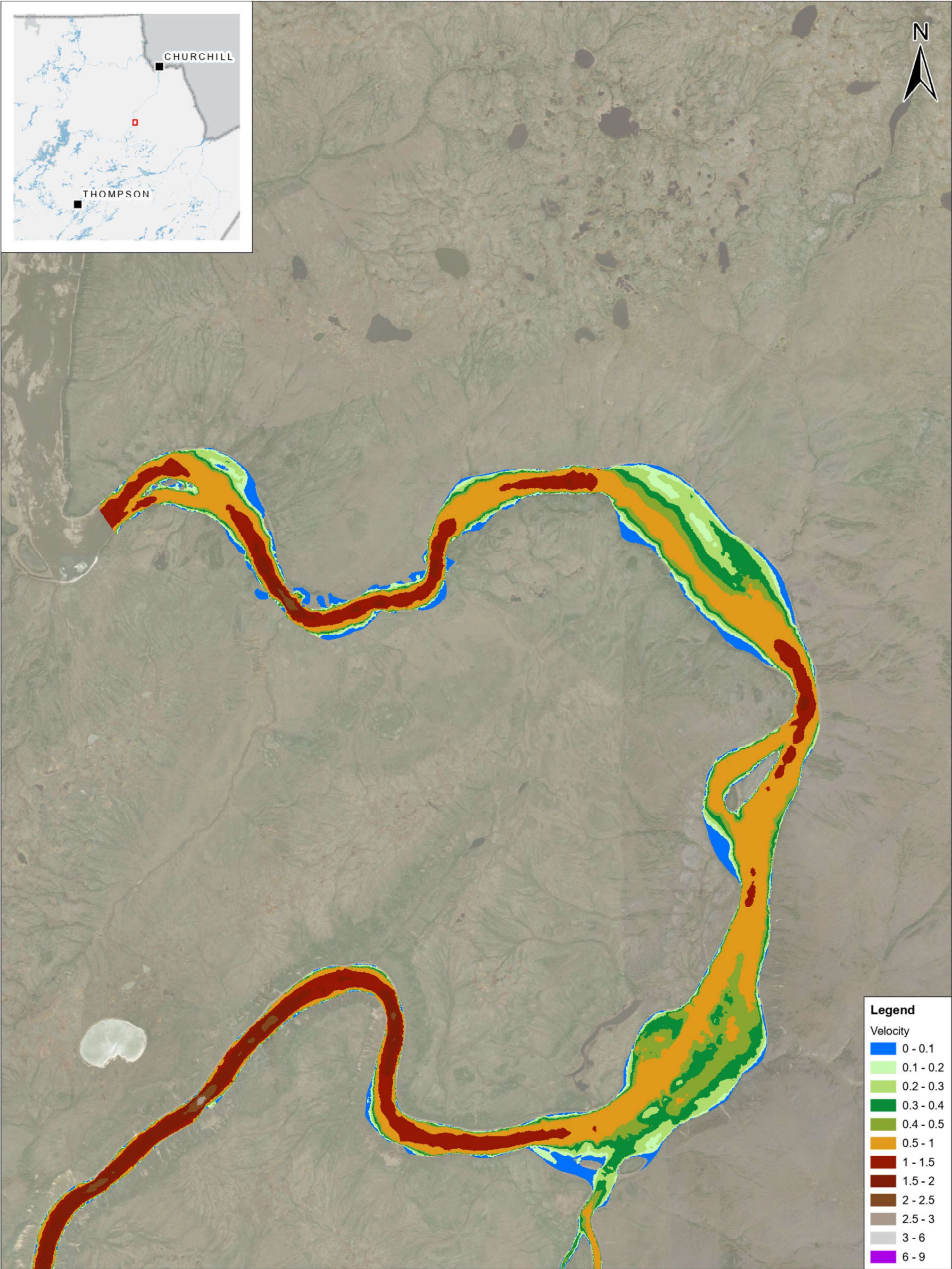


VERSION NO:

GAUGE:

Little Churchill River Confluence

Velocity
75th Percentile
610 m³/s





DATA SOURCE:
Modelling Data: Manitoba Hydro - Hydraulic Modelling
Basemap: ArcGIS Map Service 2023 05 21

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:
WGS 1984 UTM Zone 14N

DATE CREATED:
28-May-26

REVISION DATE:
24-JUL-26

00.40.8 Kilometers

00.40.8 Miles

VERSION NO:
QA/QC:

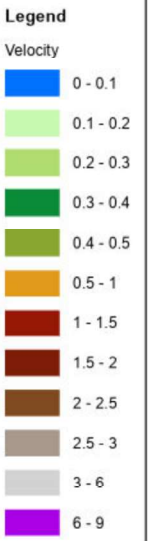
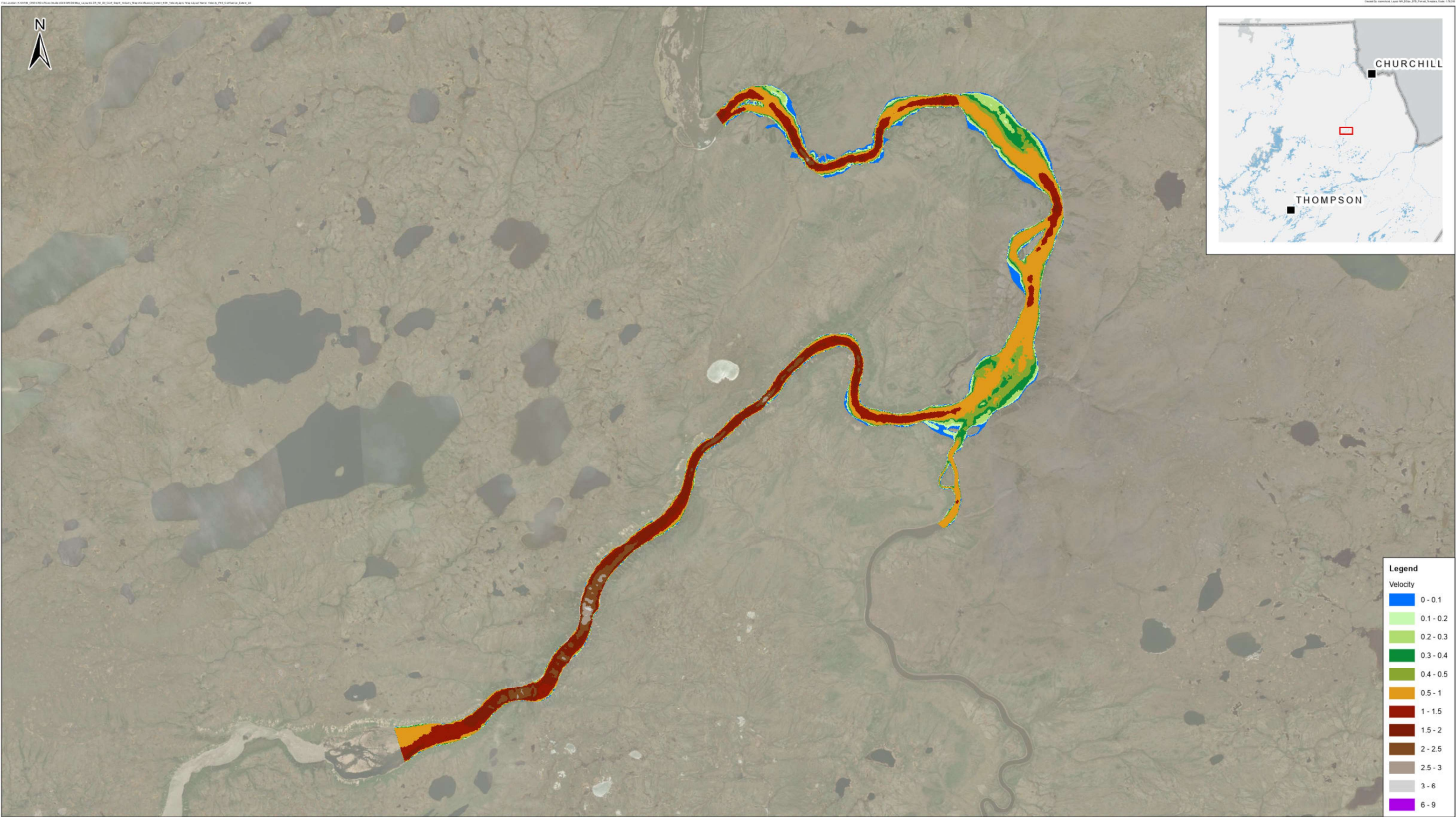
Little Churchill River Confluence to Swallow Rapids

Velocity

75th Percentile

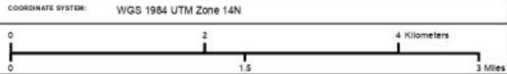
610 m³/s

M2-V-P75-SR



DATA SOURCE:
Modeling Data: Manitoba Hydro - Hydraulic Modeling
Basemap: ArcGIS Map Service 2023 05 21

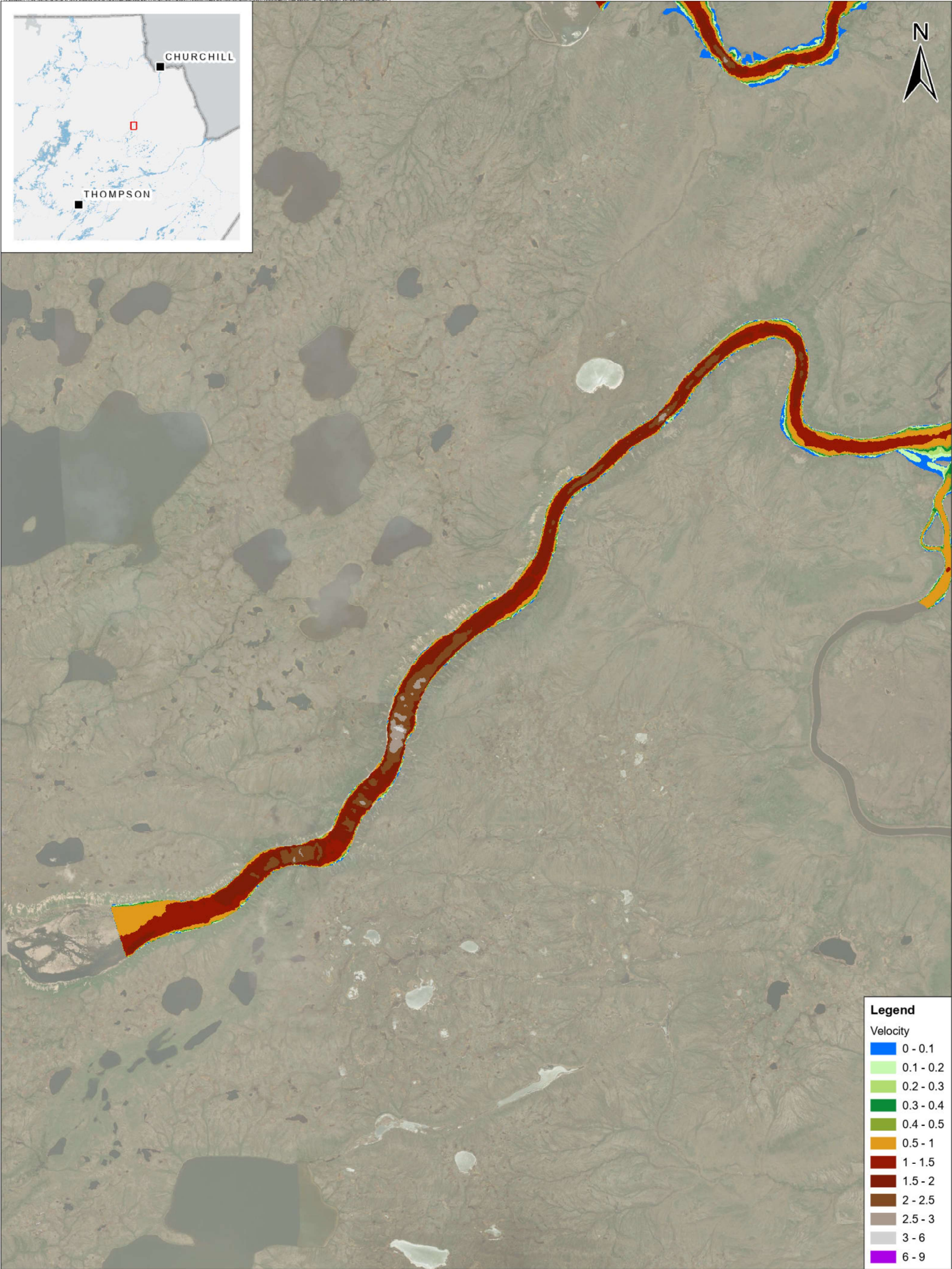
CREATED BY:
Energy Operations and Water Planning



DATE CREATED: 28-May-26	REVISION DATE: 22-JUL-26
VERSION NO:	DAWG:

Little Churchill River Confluence Area

Velocity
95th Percentile
1950 m³/s





DATA SOURCE:
Modelling Data: Manitoba Hydro - Hydraulic Modelling
Basemap: ArcGIS Map Service 2023 05 21

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:
WGS 1984 UTM Zone 14N

0 0.6 1.2 Kilometers
0 0.55 1.1 Miles

DATE CREATED:
28-May-26

REVISION DATE:
24-JUL-26

VERSION NO:

QA/QC:

The Fours to Little Churchill River Confluence

Velocity

95th Percentile

1950 m³/s

M2-V-P95-FOURS

