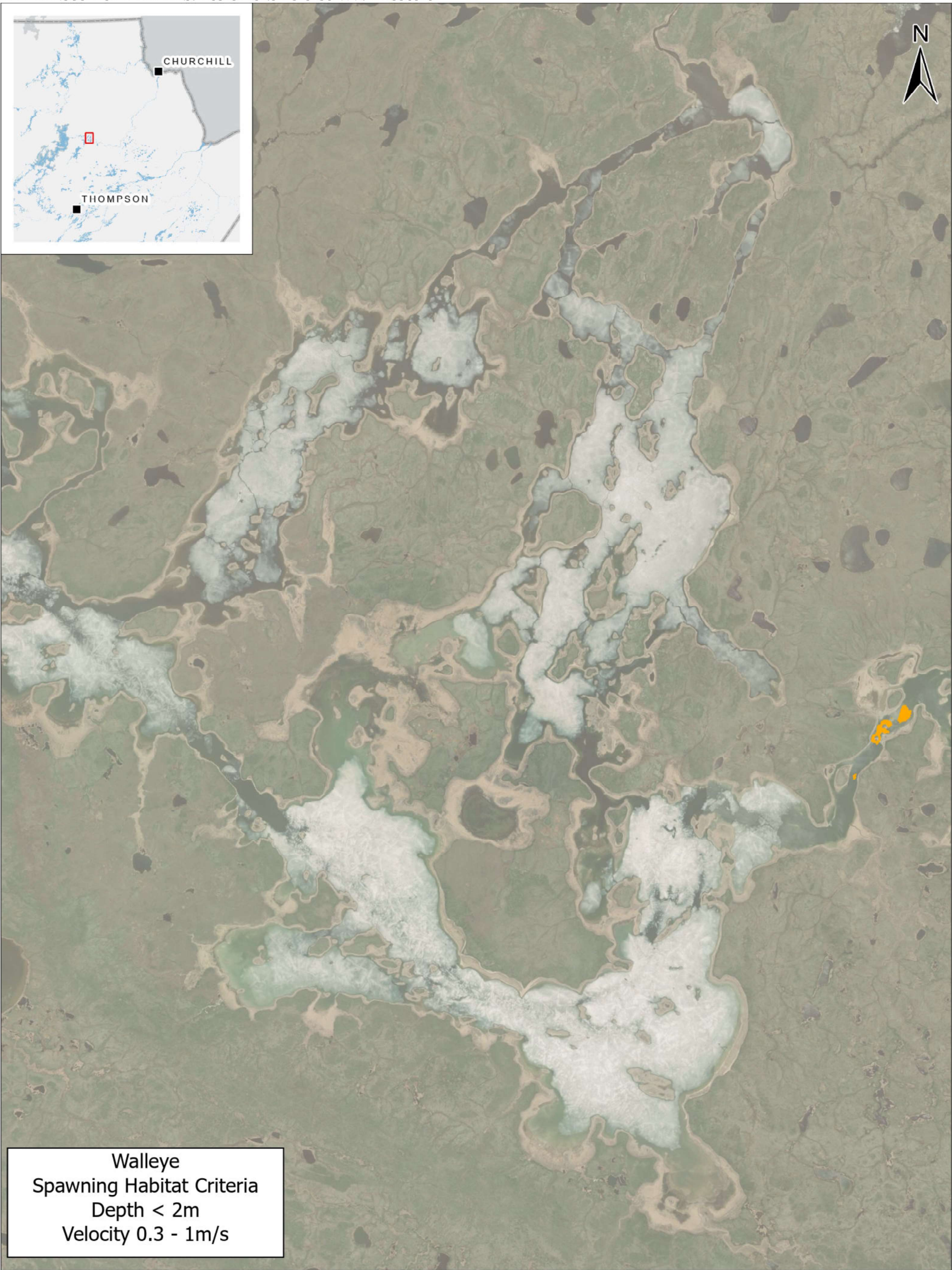






DATA SOURCE:
Modelling Data: Manitoba Hydro - Hydraulic Modelling
Basemap: ArcGIS Map Service 2025 06 16

CREATED BY:
Energy Operations and Water Planning

COORDINATE SYSTEM:
WGS 1984 UTM Zone 14N

DATE CREATED:
28-May-26

REVISION DATE:
22-JUL-26

0 0.8 1.6 Kilometers

0 0.8 1.6 Miles

VERSION NO:

QA/QC:

Northern Indian Lake
Walleye Spawning Habitat
5th Percentile
54 m³/s



Walleye
Spawning Habitat Criteria
Depth < 2m
Velocity 0.3 - 1m/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

DATE CREATED:
28-May-26

REVISION DATE:
22-JUL-26

0 0.85 1.7 Kilometers

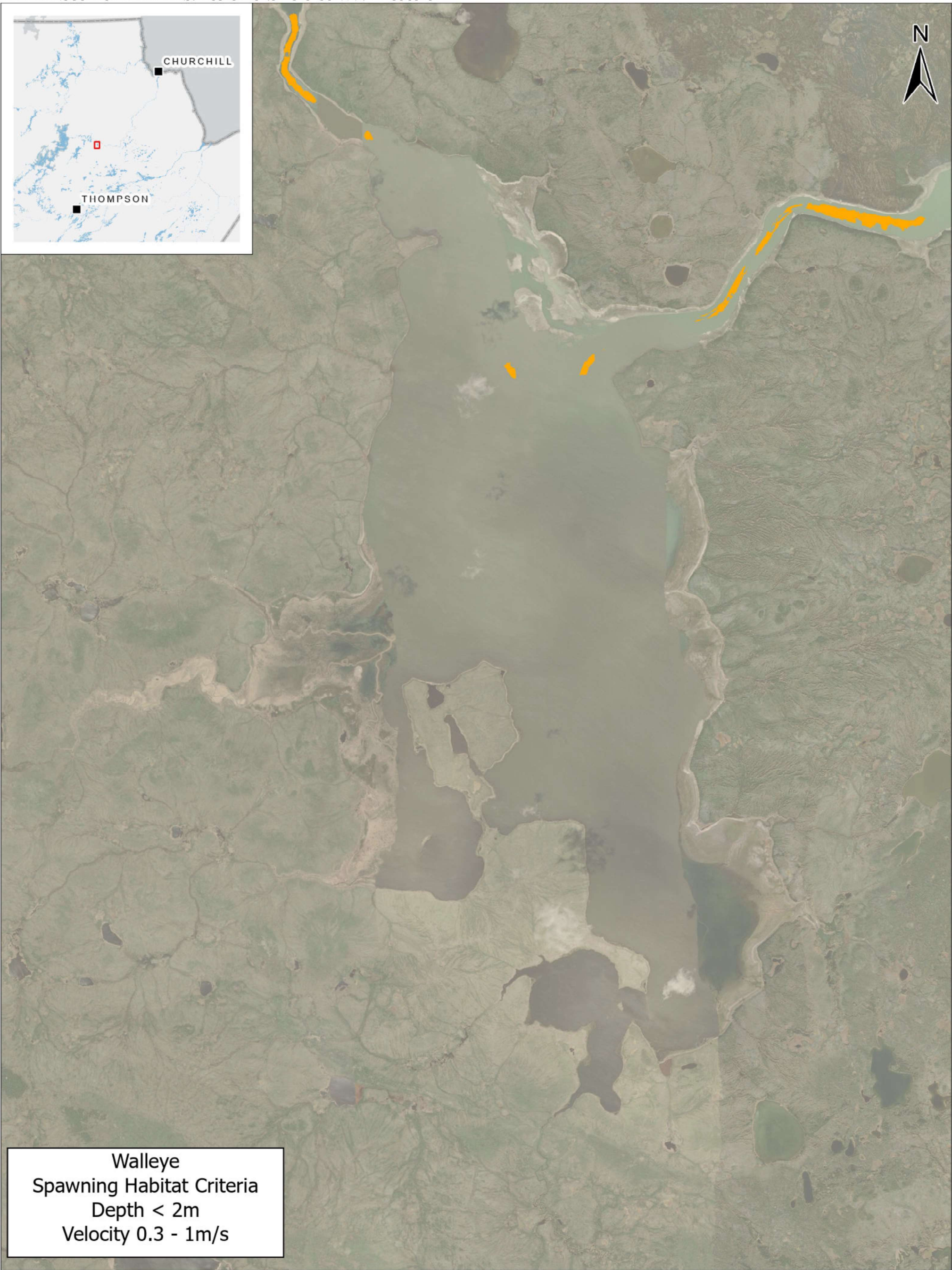
0 0.8 1.6 Miles

VERSION NO:
QA/QC:

Northern Indian Lake to Fidler Lake
Walleye Spawning Habitat

5th Percentile
54 m³/s

M1-WALL-P5-NILFL





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:
22-JUL-26

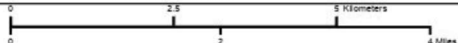
00.551.1 Kilometers

00.51 Miles

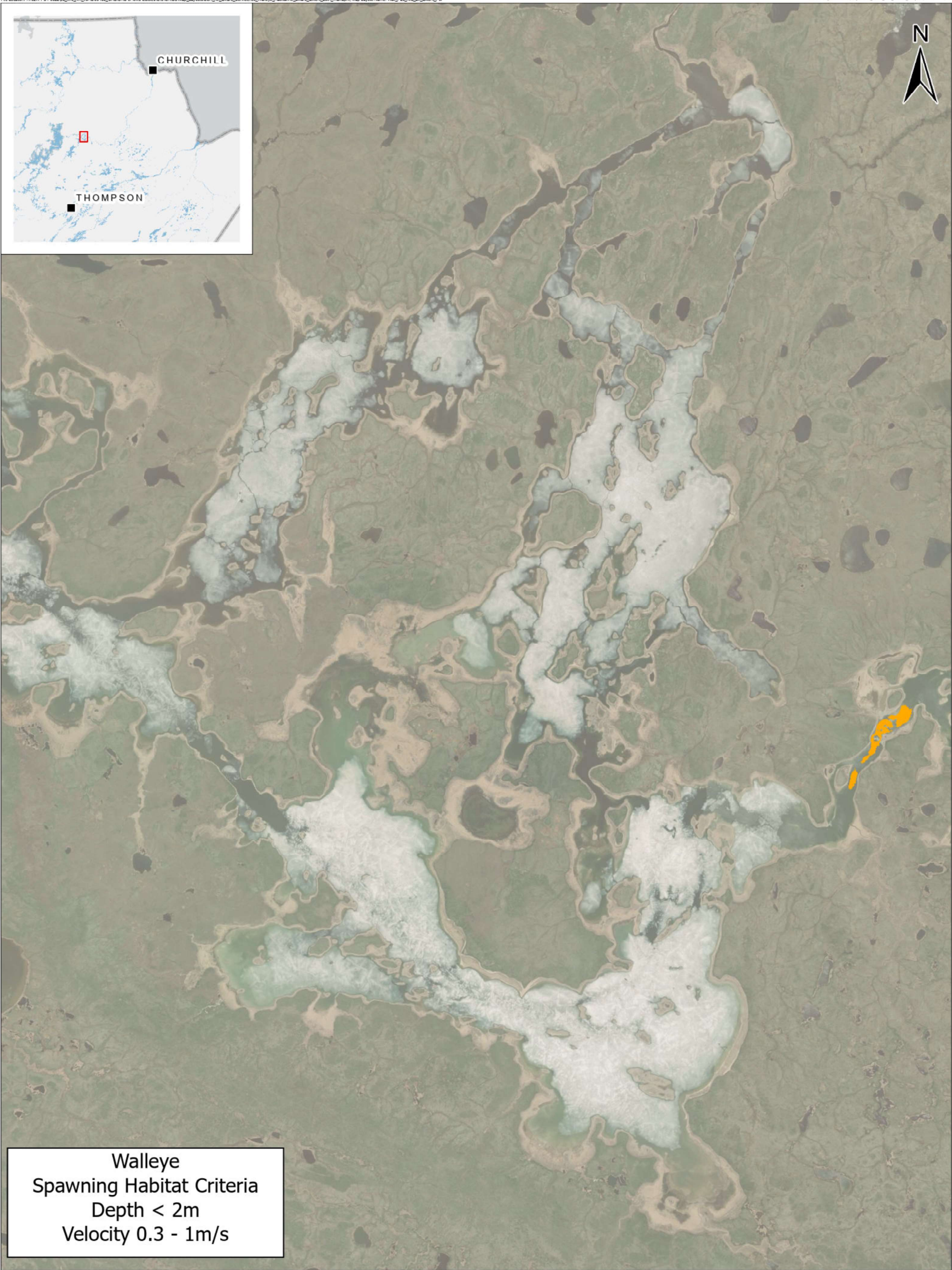
Fidler Lake
Walleye Spawning Habitat
5th Percentile
54 m³/s





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		DATE CREATED: 28-May-26	REVISION DATE: 22-JUL-26
		VERSION NO: 	QA/QC:

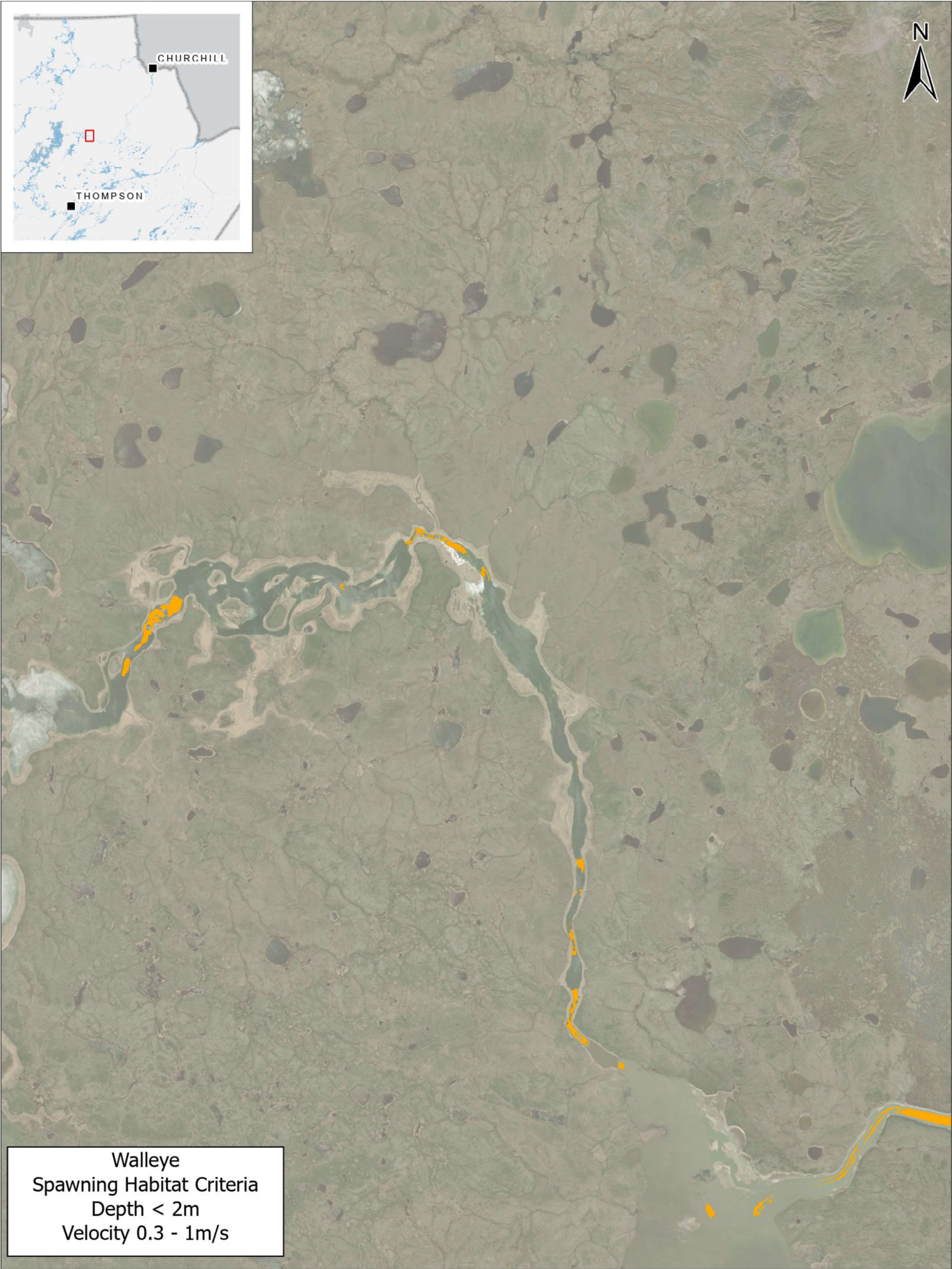
Fidler to Billard Lake
Walleye Spawning Habitat
5th Percentile
54 m³/s

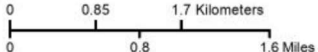


Walleye
Spawning Habitat Criteria
Depth < 2m
Velocity 0.3 - 1m/s

	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	DATE CREATED: 28-May-26	REVISION DATE: 22-JUL-26
	0 0.8 1.6 Kilometers 0 0.8 1.6 Miles	VERSION NO:	QA/QC:

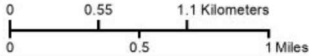
Northern Indian Lake
Walleye Spawning Habitat
25th Percentile
100 m³/s



	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	DATE CREATED: 28-May-26	REVISION DATE: 22-JUL-26
		VERSION NO:	QA/QC:

Northern Indian Lake to Fidler Lake
Walleye Spawning Habitat
25th Percentile
100 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	DATE CREATED: 28-May-26	REVISION DATE: 22-JUL-26
		VERSION NO:	QA/QC:

Fidler Lake

Walleye Spawning Habitat

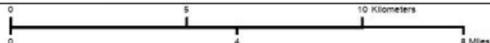
25th Percentile

100 m³/s

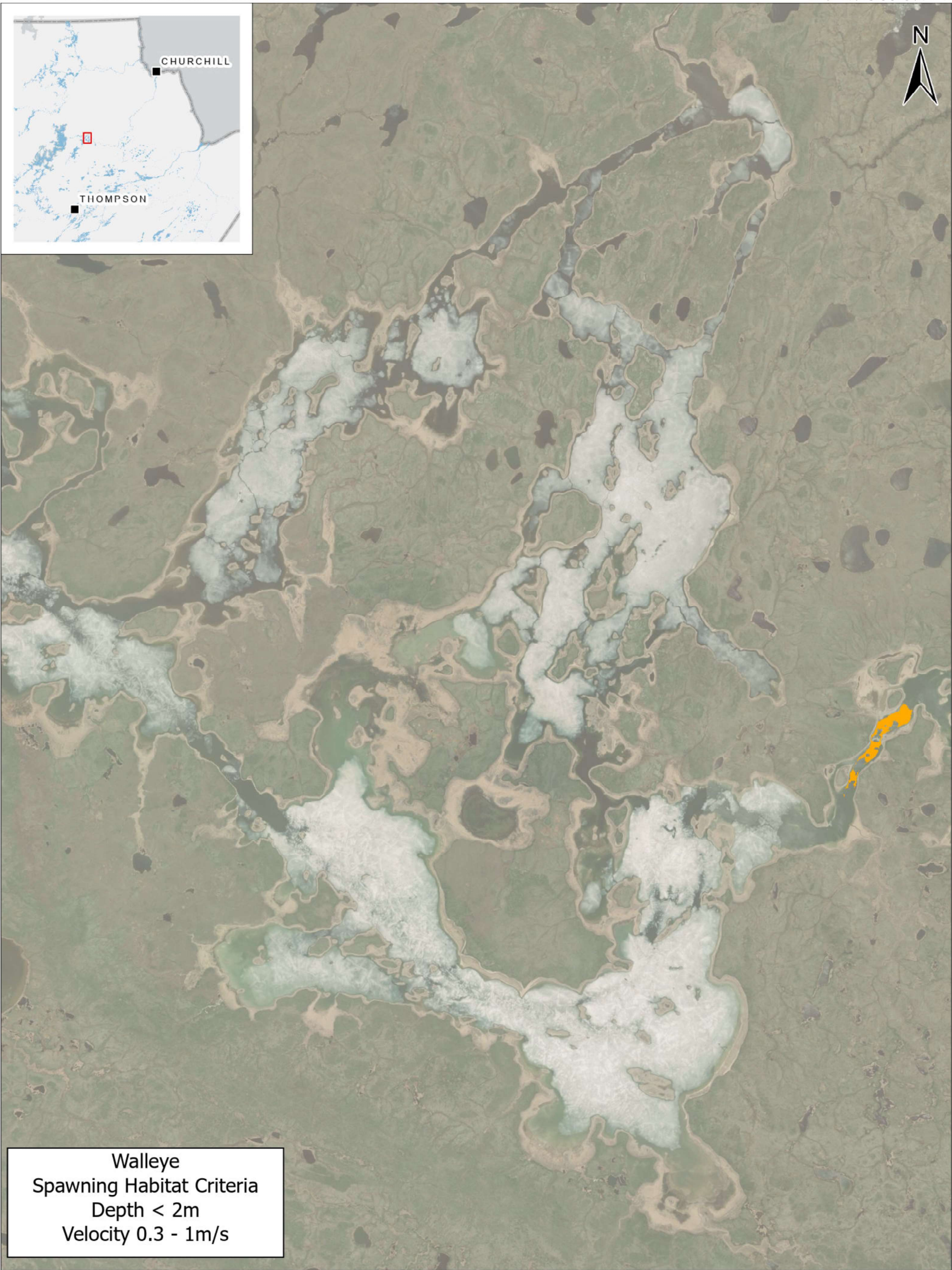


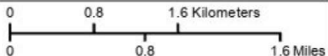
Walleye
Spawning Habitat Criteria
Depth < 2m
Velocity 0.3 - 1m/s



DATA SOURCE: Modeling Data: Manitoba Hydro - Hydraulic Modeling Base Map: 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: 22-JUL-25
		VERSION NO:	QA/QC:

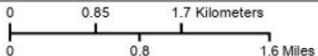
Northern Indian Lake to Billard Lake
Walleye Spawning Habitat
50th Percentile
164 m³/s



	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	DATE CREATED: 28-May-26	REVISION DATE: 22-JUL-26
		VERSION NO:	QA/QC:

Northern Indian Lake
Walleye Spawning Habitat
50th Percentile
164 m³/s

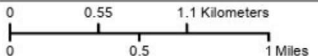


	DATA SOURCE: Modelling Data: Manitoba Hydro - Hydraulic Modelling Basemap: ArcGIS Map Service 2025 06 16		
	CREATED BY: Energy Operations and Water Planning		
	COORDINATE SYSTEM: WGS 1984 UTM Zone 14N	DATE CREATED: 28-May-26	REVISION DATE: 22-JUL-26
		VERSION NO:	QA/QC:

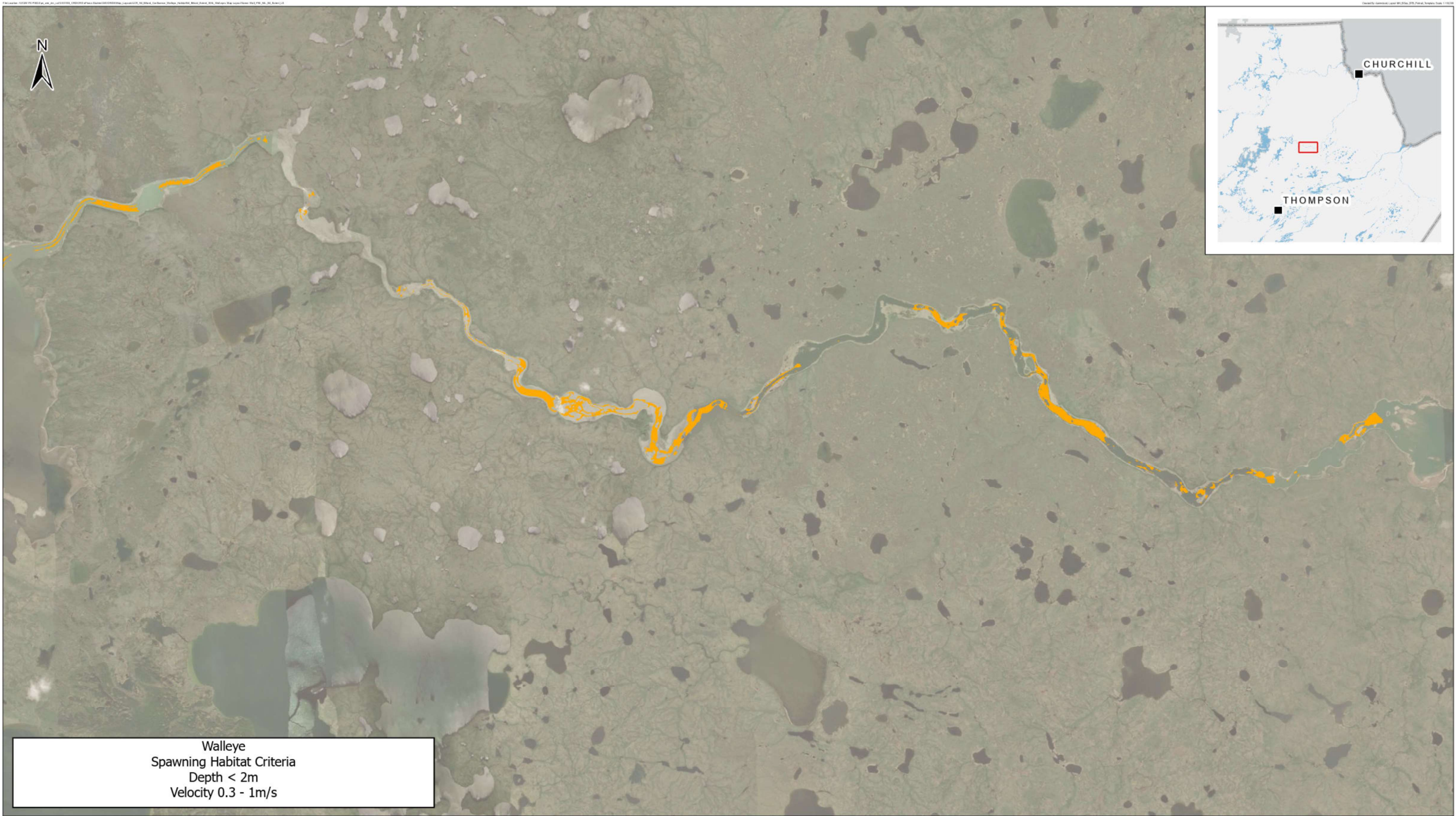
Northern Indian Lake to Fidler Lake
Walleye Spawning Habitat
50th Percentile
164 m³/s





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	DATE CREATED: 28-May-26	REVISION DATE: 22-JUL-26
	VERSION NO:	QA/QC:

Fidler Lake
Walleye Spawning Habitat
50th Percentile
164 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 2.5 5 Kilometers
0 2 4 Miles

DATE CREATED:
28-May-26

VERSION NO:

REVISION DATE:
22-JUL-26

QA/QC:

Fidler to Billard Lake
Walleye Spawning Habitat
50th Percentile
164 m³/s

M1-WALL-P50-FLBL





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 0.55 1.1 Kilometers
0 0.45 0.9 Miles

DATE CREATED:
28-May-26

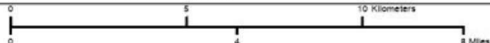
REVISION DATE:
22-JUL-26

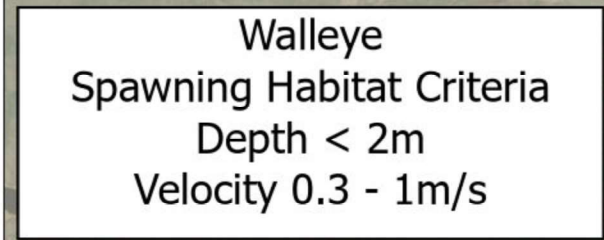
VERSION NO:
1.0

GAO:
1.0

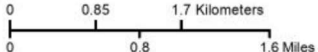
Billard Lake
Walleye Spawning Habitat
50th Percentile
164 m³/s



	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	DATE CREATED: 28-May-26	REVISION DATE: 22-JUL-26
		VERSION NO: 	QA/QC:
Northern Indian Lake to Billard Lake Walleye Spawning Habitat 75th Percentile 519 m³/s			





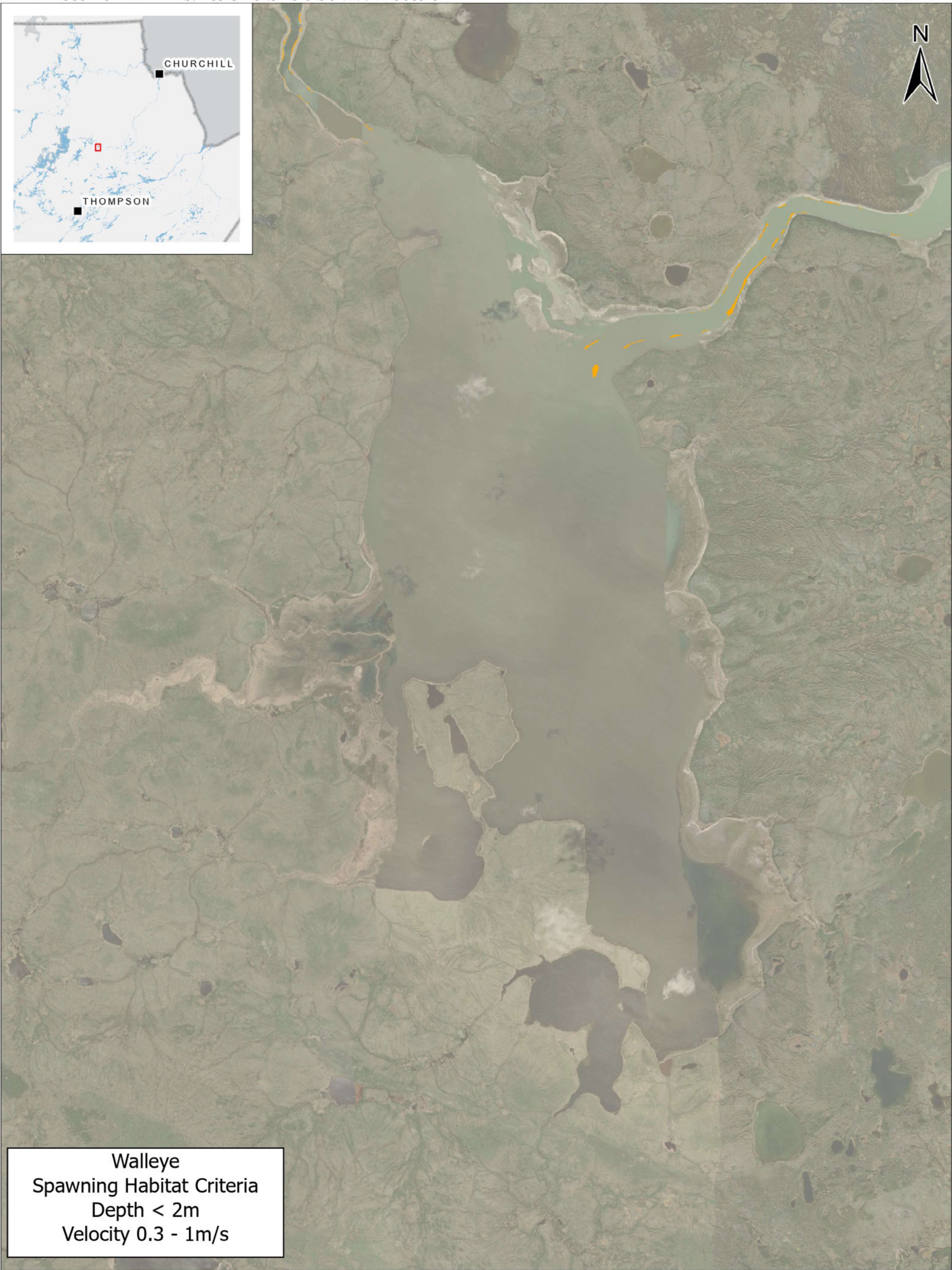
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	CREATED BY: Energy Operations and Water Planning		
	COORDINATE SYSTEM: WGS 1984 UTM Zone 14N	DATE CREATED: 28-May-26	REVISION DATE: 22-JUL-26
		VERSION NO:	QA/QC:

Northern Indian Lake to Fidler Lake

Walleye Spawning Habitat

75th Percentile

519 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

DATE CREATED:
28-May-26

REVISION DATE:
22-JUL-26

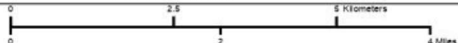
00.551.1 Kilometers

00.51 Miles

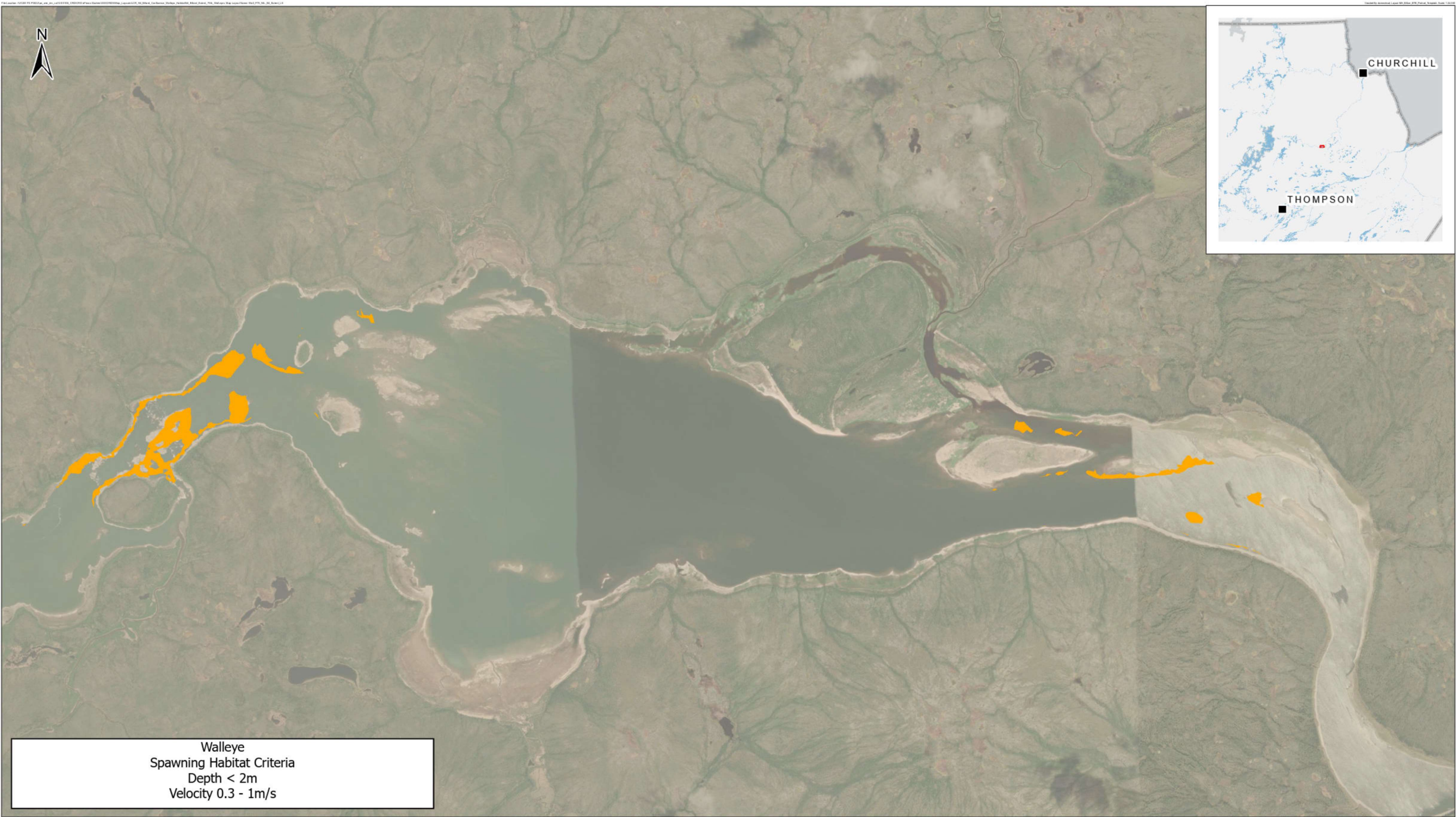
Fidler Lake
Walleye Spawning Habitat
75th Percentile
519 m³/s





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		DATE CREATED: 28-May-26	REVISION DATE: 22-JUL-26
		VERSION NO:	QA/QC:

Fidler to Billard Lake
Walleye Spawning Habitat
75th Percentile
519 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 0.55 1.1 Kilometers
0 0.45 0.9 Miles

DATE CREATED:
28-May-26

REVISION DATE:
22-JUL-26

VERSION NO:
1.0

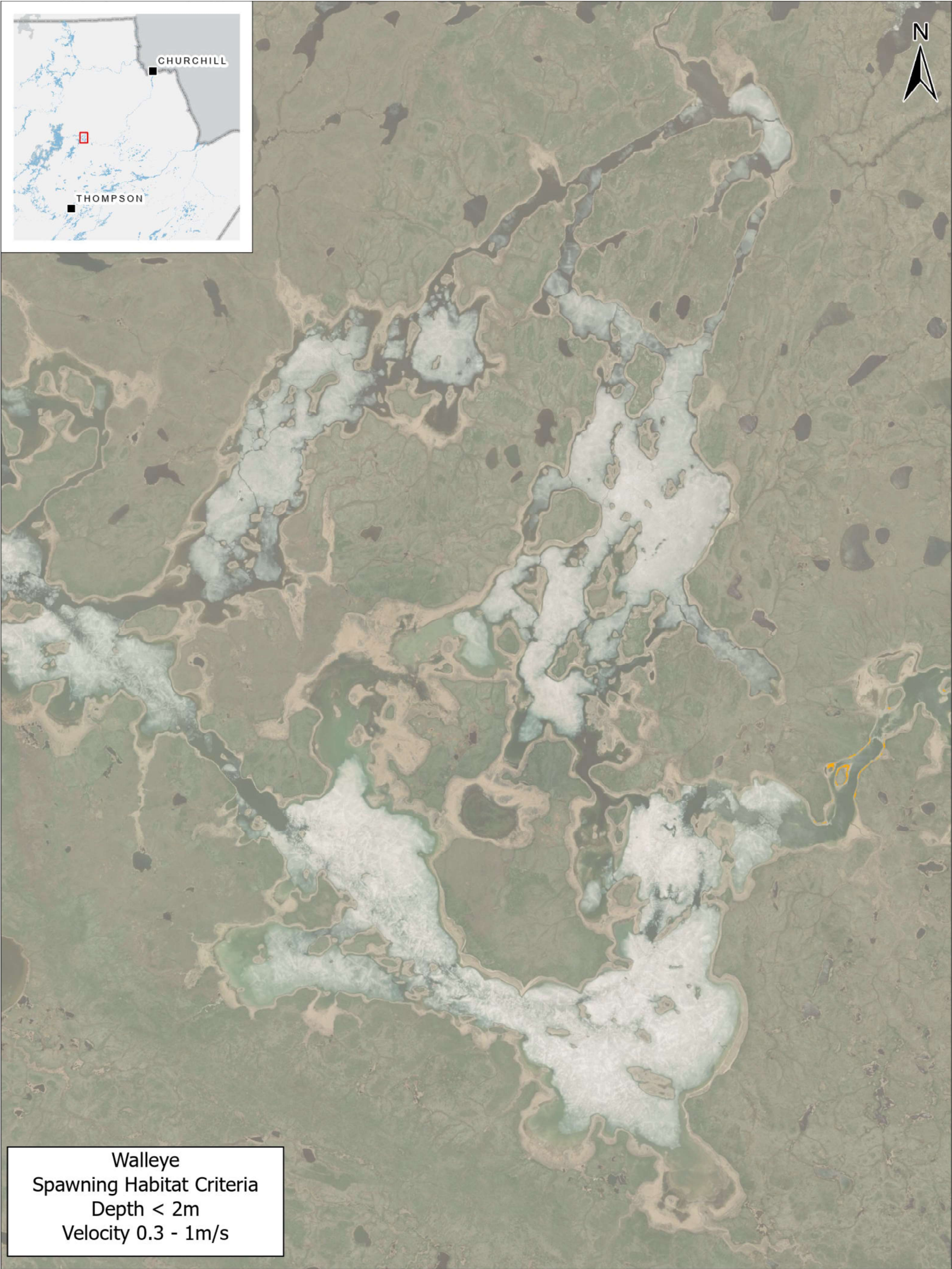
GAO:
1.0

Billard Lake
Walleye Spawning Habitat
75th Percentile
519 m³/s



DATA SOURCE: Modeling Data: Manitoba Hydro - Hydraulic Modeling Base map: 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
0 5 10 Kilometers 0 4 8 Miles	REVISION DATE: 22-JUL-25
VERSION NO:	QA/QC:

Northern Indian Lake to Billard Lake
Walleye Spawning Habitat
95th Percentile
1792 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

DATE CREATED:
28-May-26

REVISION DATE:
22-JUL-26

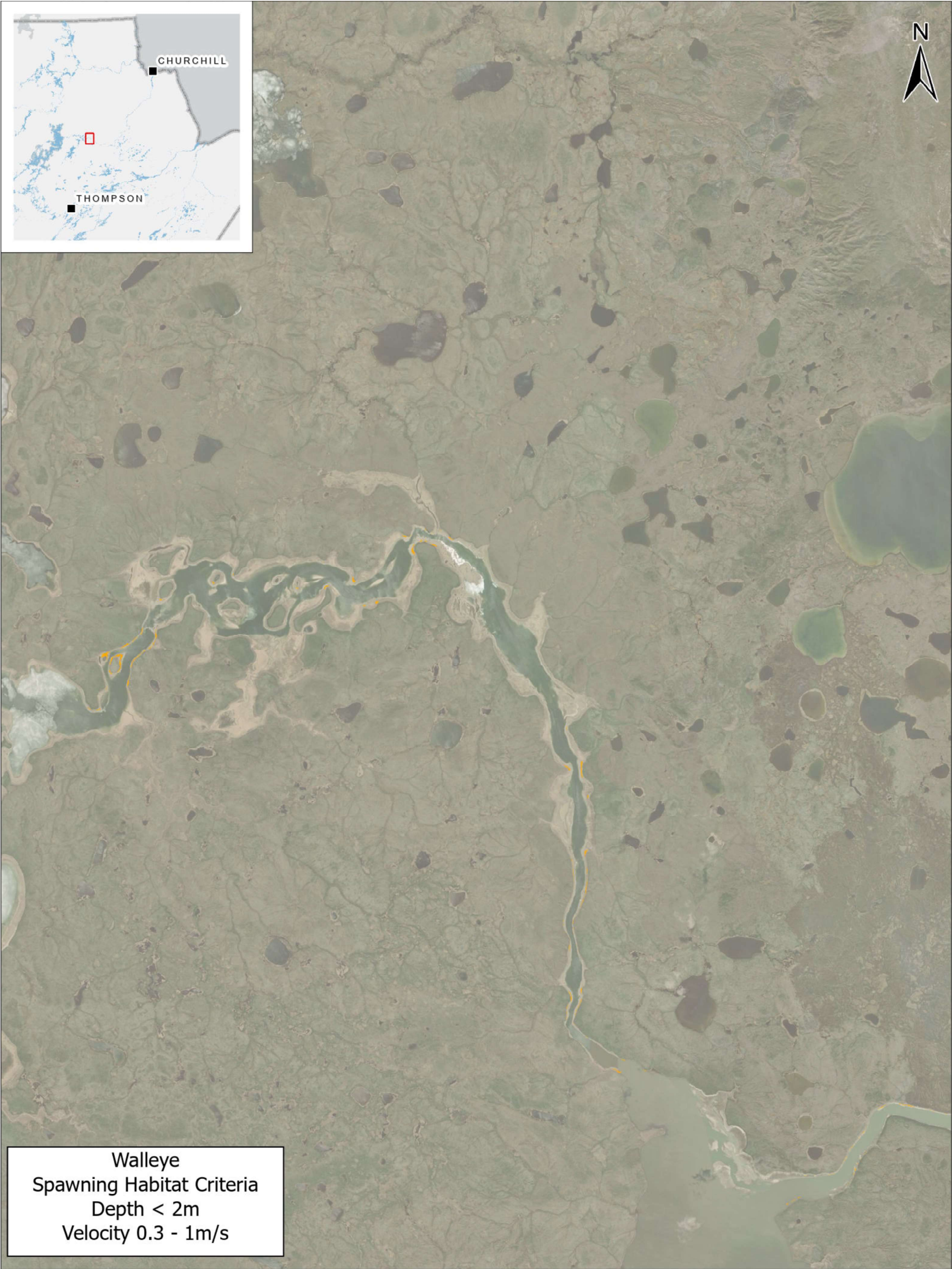
0 0.8 1.6 Kilometers

0 0.8 1.6 Miles

VERSION NO:

QA/QC:

Northern Indian Lake
Walleye Spawning Habitat
95th Percentile
1792 m³/s



Walleye
Spawning Habitat Criteria
Depth < 2m
Velocity 0.3 - 1m/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	DATE CREATED: 28-May-26	REVISION DATE: 22-JUL-26
0 0.85 1.7 Kilometers 0 0.8 1.6 Miles	VERSION NO:	QA/QC:

Northern Indian Lake to Fidler Lake
Walleye Spawning Habitat
95th Percentile
1792 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

DATE CREATED:
28-May-26

REVISION DATE:
22-JUL-26

0 0.55 1.1 Kilometers

0 0.5 1 Miles

Fidler Lake
Walleye Spawning Habitat
95th Percentile
1792 m³/s

M1-WALL-P95-FL



Walleye
Spawning Habitat Criteria
Depth < 2m
Velocity 0.3 - 1m/s

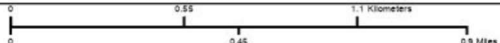


DATA SOURCE: Modeling Data: Manitoba Hydro - Hydraulic Modeling Base Map: ArcGIS Map Service 2025 06 16			
CREATED BY: Energy Operations and Water Planning			
COORDINATE SYSTEM: WGS 1984 UTM Zone 14N		DATE CREATED: 28-May-26	REVISION DATE: 22-JUL-26
		VERSION NO.:	DATE:

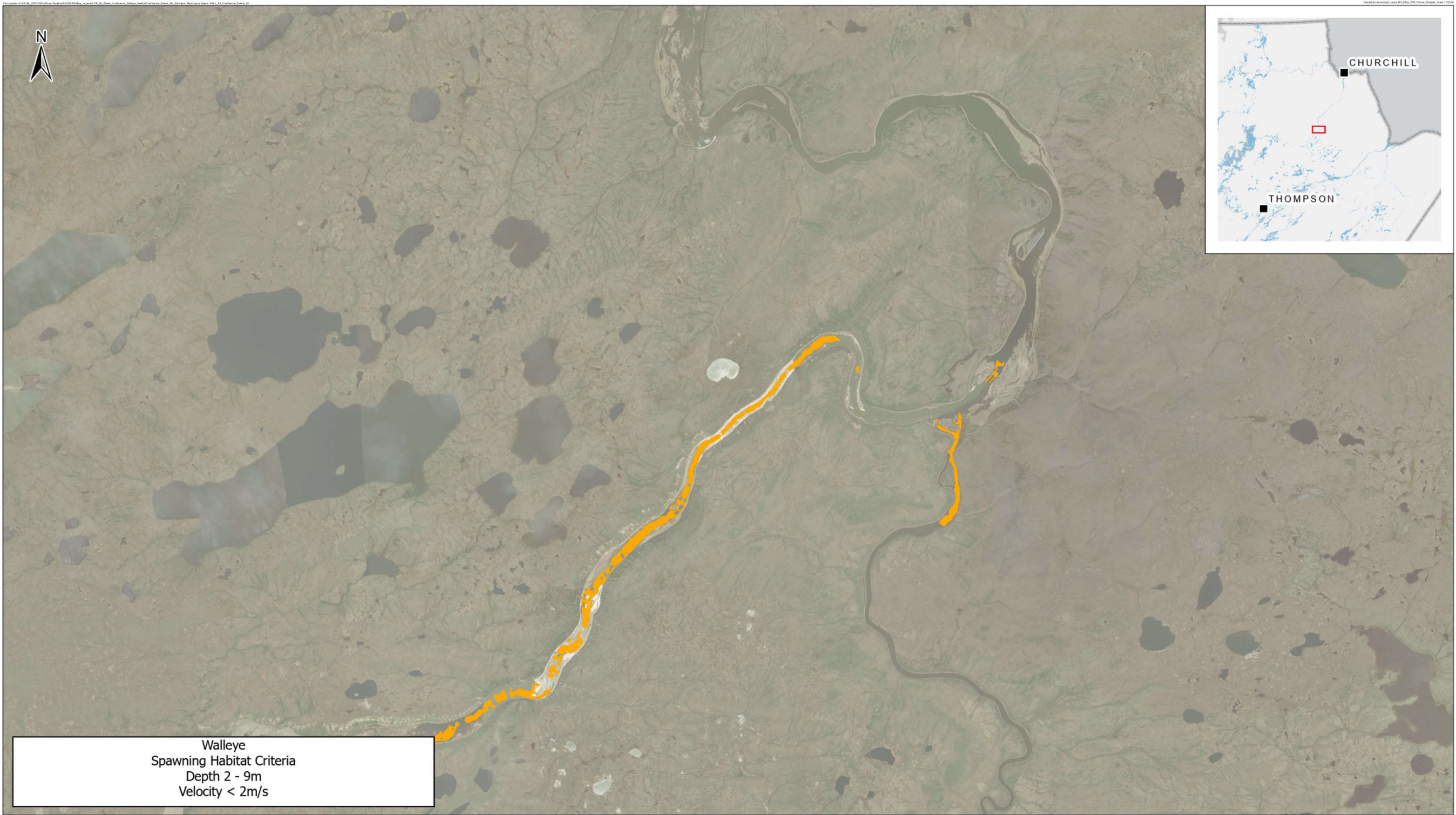
**Fidler to Billard Lake
Walleye Spawning Habitat**
95th Percentile
1792 m³/s

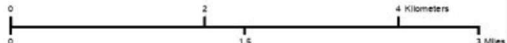


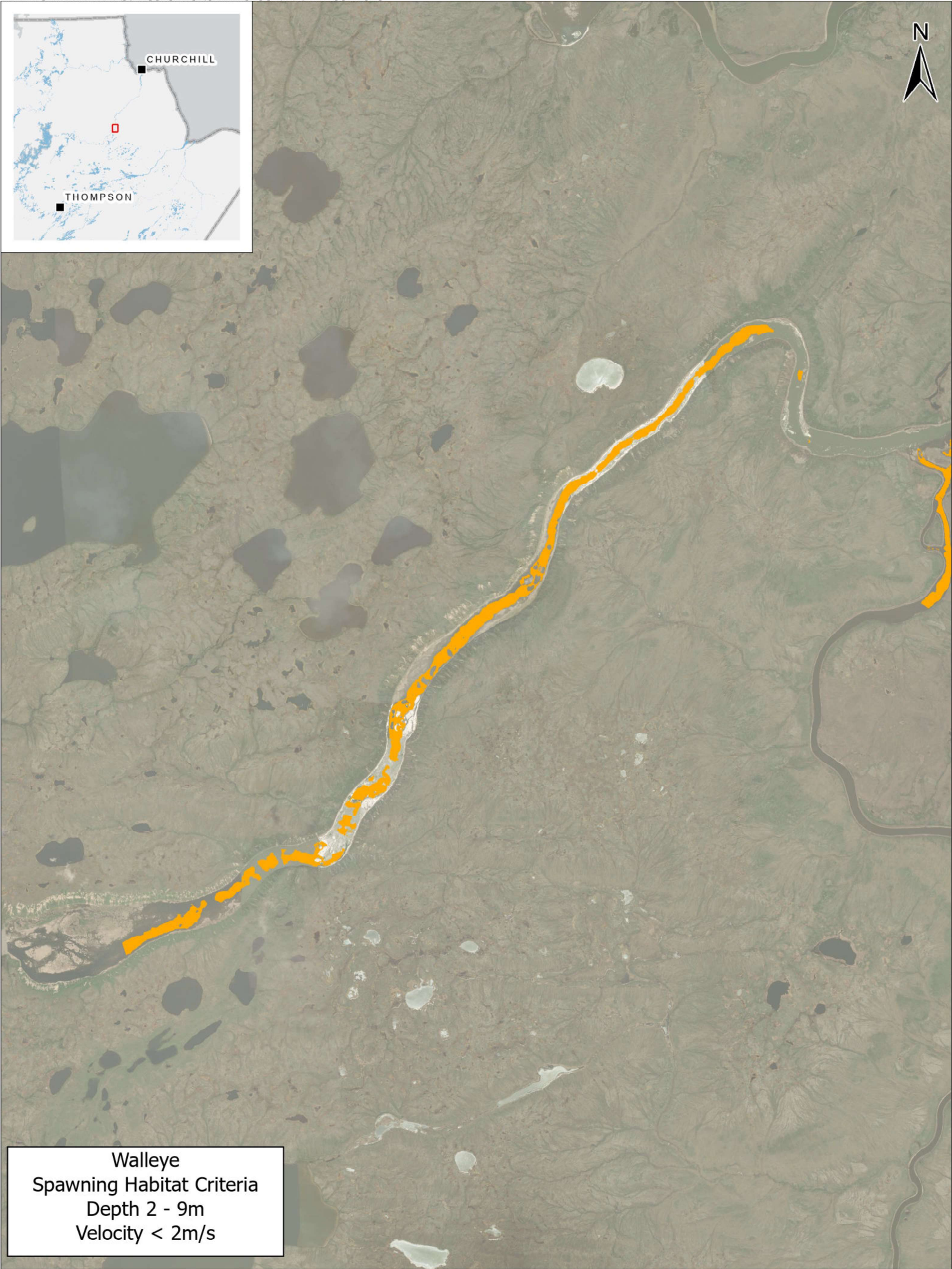


DATA SOURCE: Modeling Data: Manitoba Hydro - Hydraulic Modeling Basemap: ArcGIS Map Service 2025 06 16			
CREATED BY: Energy Operations and Water Planning			
COORDINATE SYSTEM: WGS 1984 UTM Zone 14N		DATE CREATED: 28-May-26	REVISION DATE: 22-JUL-26
		VERSION NO: 	QA/QC:

Billard Lake
Walleye Spawning Habitat
95th Percentile
1792 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		DATE CREATED: 25-May-26	REVISION DATE: 24-JUL-26
			VERSION NO:	GAO:
Little Churchill River Confluence Area Walleye Spawning Habitat 5th Percentile 54 m³/s M2-WALL-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: 24-JUL-26
0 0.6 1.2 Kilometers 0 0.55 1.1 Miles	VERSION NO:	QA/QC:

The Fours to Little Churchill River Confluence
Walleye Spawning Habitat
5th Percentile
95 m³/s



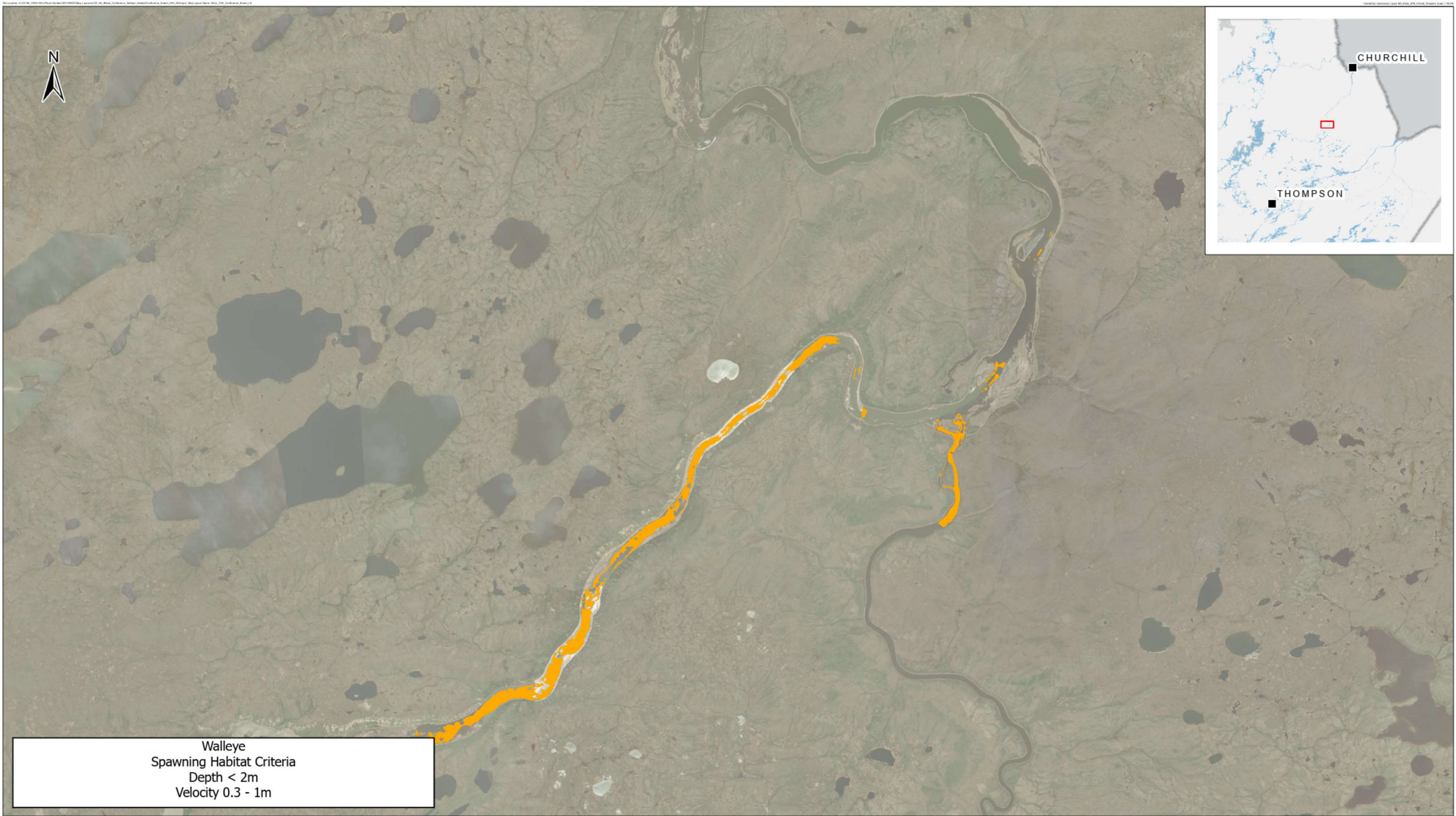
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	COORDINATE SYSTEM: WGS 1984 UTM Zone 14N		DATE CREATED: 25-May-26	REVISION DATE: 24-JUL-26
			VERSION NO:	GAO:

Little Churchill River Confluence
Walleye Spawning Habitat
5th Percentile
95 m³/s

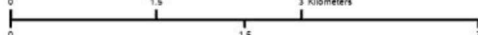


Walleye
Spawning Habitat Criteria
Depth 2 - 9m
Velocity < 2m/s

	DATA SOURCE: Modelling Data: Manitoba Hydro - Hydraulic Modelling Basemap: ArcGIS Map Service 2025 06 16			Little Churchill River Confluence to Swallow Rapids Walleye Spawning Habitat 5th Percentile 95m ³ /s
	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:	

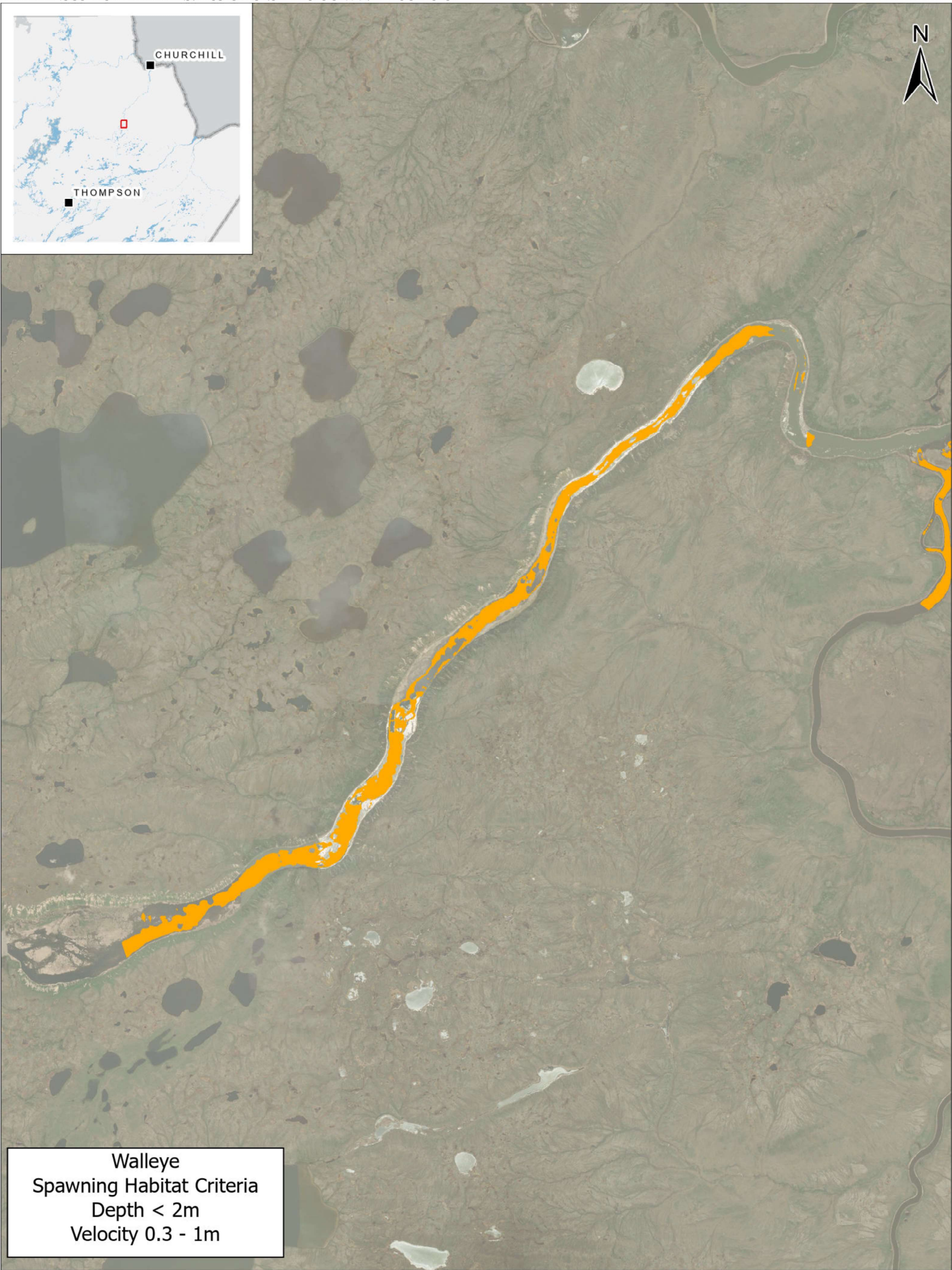




DATA SOURCE: Modeling Data: Manitoba Hydro - Hydraulic Modeling Basemap: ArcGIS Map Service 2025 06 16			
CREATED BY: Energy Operations and Water Planning			
COORDINATE SYSTEM: WGS 1984 UTM Zone 14N		DATE CREATED: 28-May-26	REVISION DATE: 23-JUL-26
		VERSION NO:	GAGE:

Little Churchill River Confluence Area
Walleye Spawning Habitat
25th Percentile
173 m³/s

M2-WALL-P25-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:
24-JUL-26

0 0.6 1.2 Kilometers

0 0.55 1.1 Miles

VERSION NO:
QA/QC:

The Fours to Little Churchill River Confluence

Walleye Spawning Habitat

25th Percentile

173 m³/s

M2-WALL-P25-





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

0.7

1.4 Kilometers

0

0.55

1.1 Miles

DATE CREATED:

28-May-26

REVISION DATE:

23-JUL-26

VERSION NO:

GAGE:

Little Churchill River Confluence

Walleye Spawning Habitat

25th Percentile

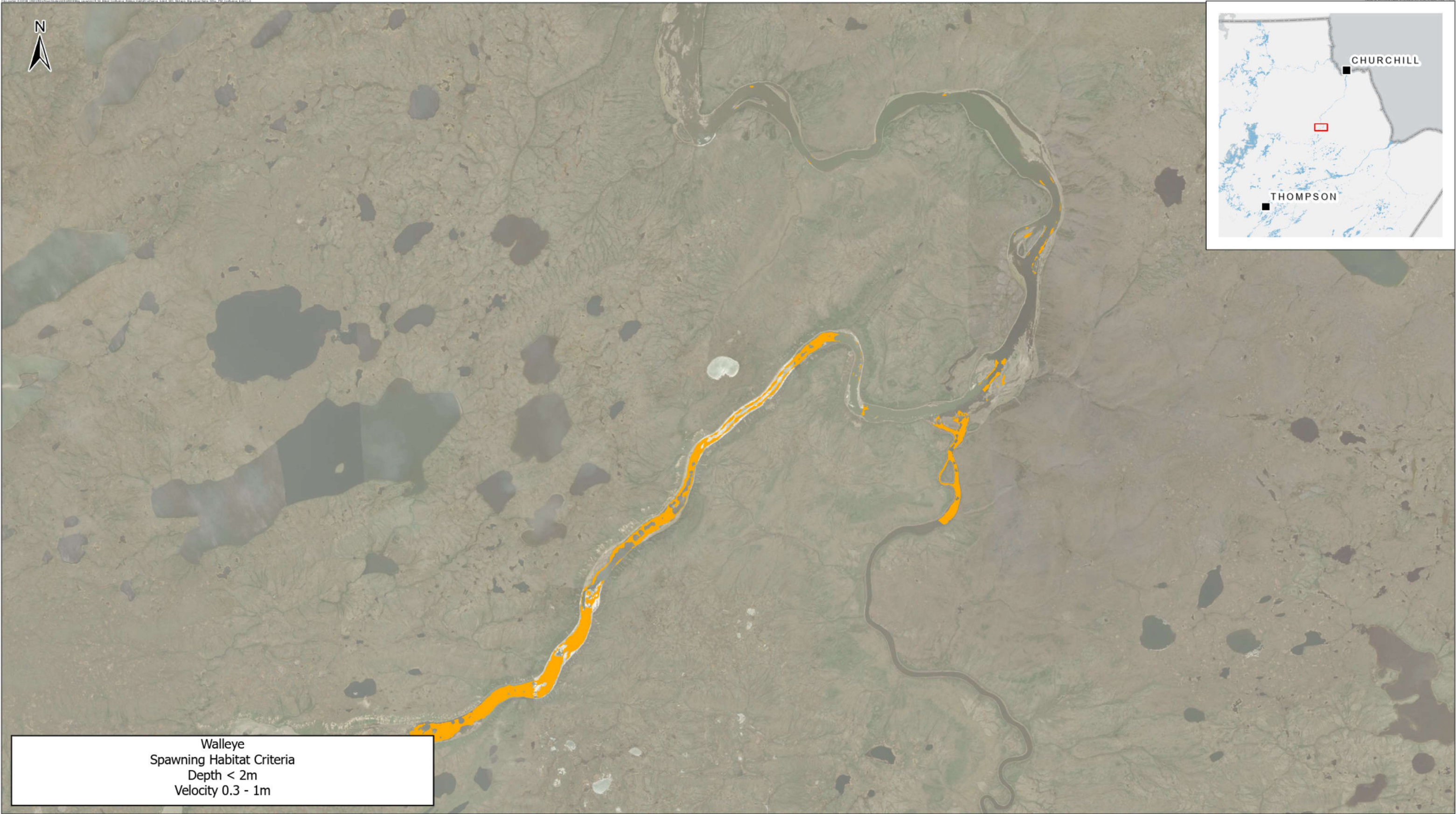
173 m³/s

M2-WALL-P25-LCRC



Walleye
Spawning Habitat Criteria
Depth < 2m
Velocity 0.3 - 1m

	DATA SOURCE: Modelling Data: Manitoba Hydro - Hydraulic Modelling Basemap: ArcGIS Map Service 2025 06 16			Little Churchill River Confluence to Swallow Rapids Walleye Spawning Habitat 25th Percentile 173 m ³ /s
	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 0.4 0.8 Kilometers 0 0.4 0.8 Miles	VERSION NO:	QA/QC:	





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

024 Kilometers
01.53 Miles

DATE CREATED: 28-May-26

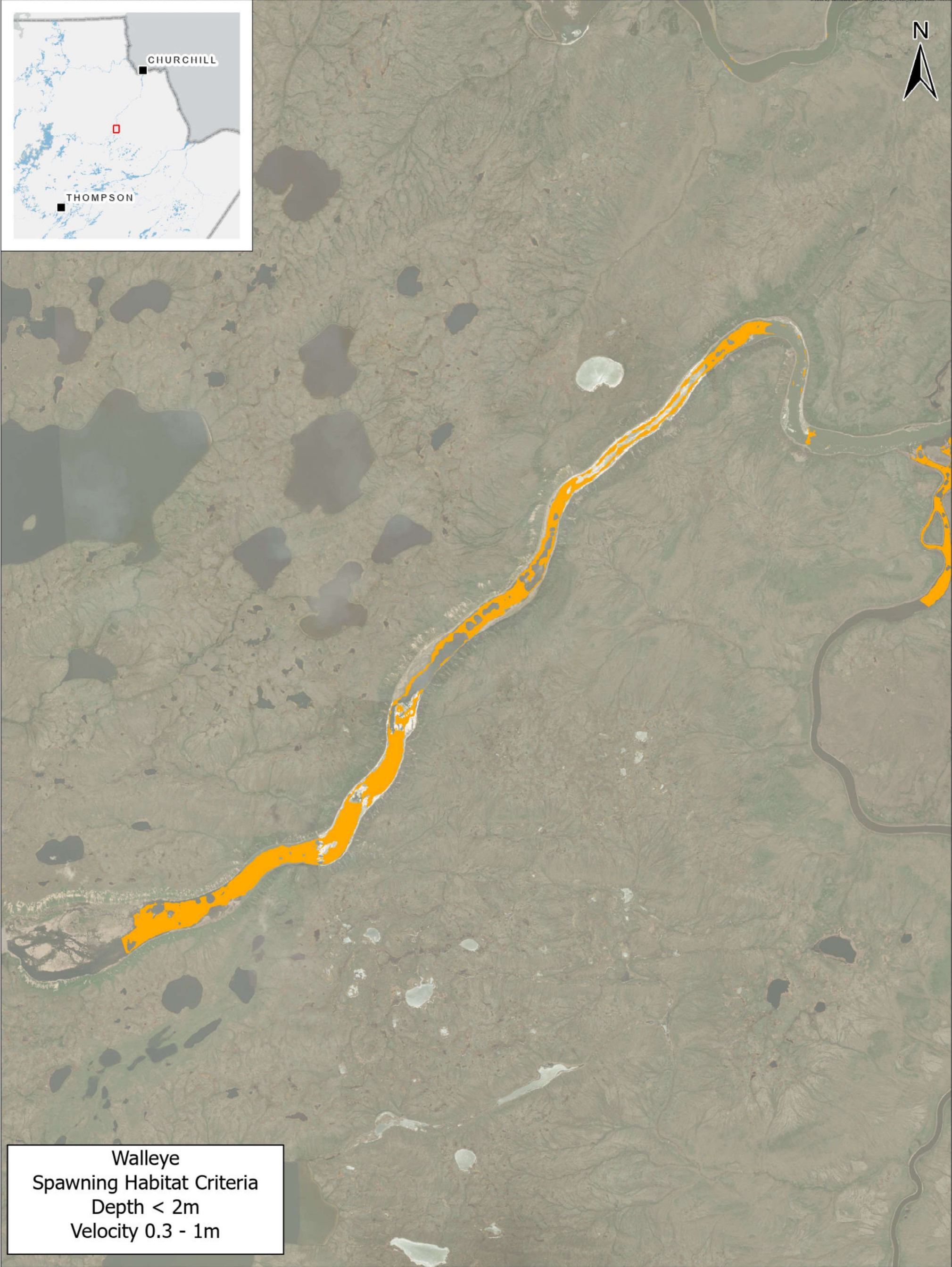
REVISION DATE: 23-JUL-26

VERSION NO:

GAO:

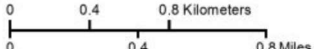
Little Churchill River Confluence Area
Walleye Spawning Habitat
50th Percentile
302 m³/s

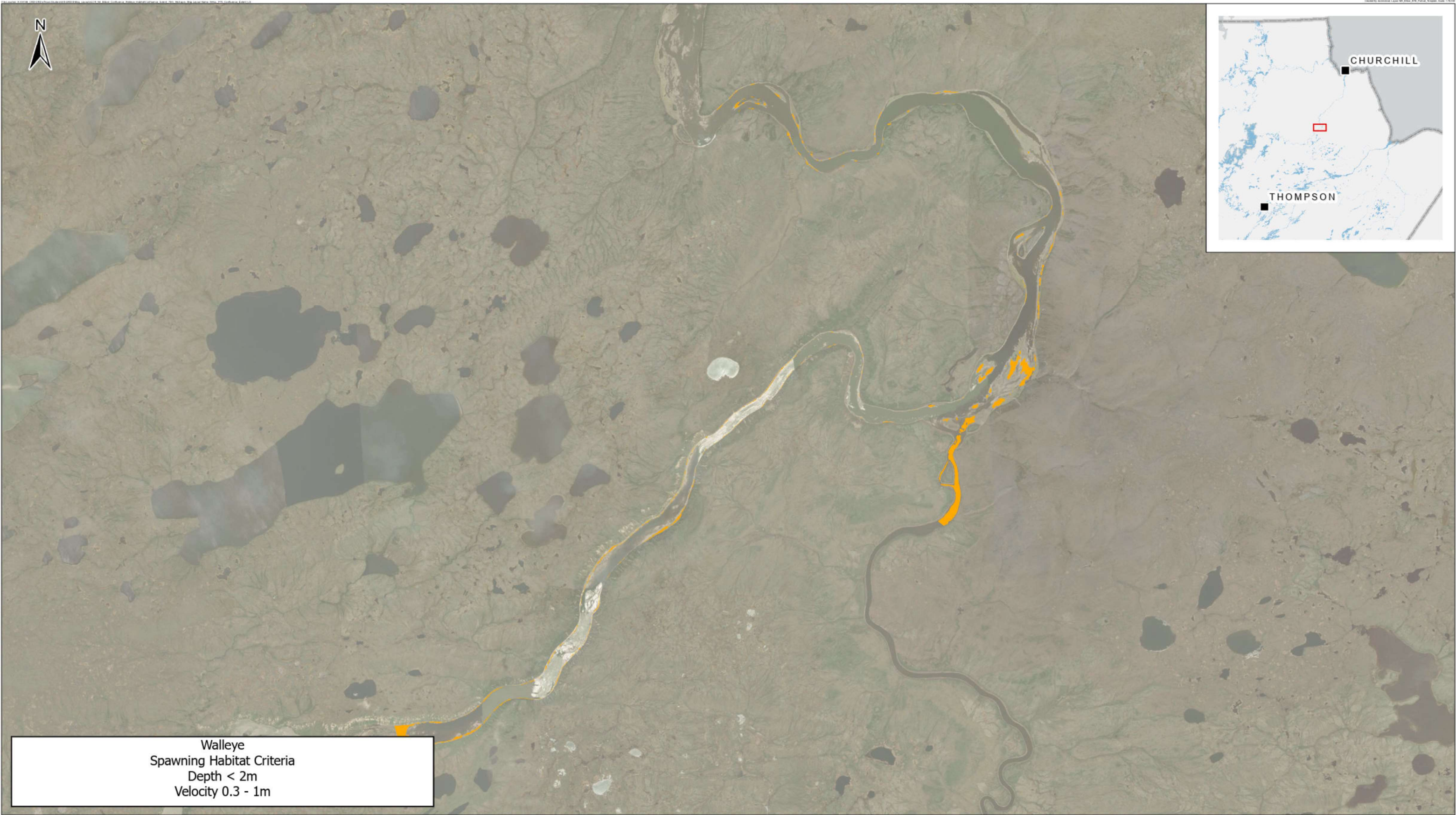
M2-WALL-P50-ALL



	DATA SOURCE: Modelling Data: Manitoba Hydro - Hydraulic Modelling Basemap: ArcGIS Map Service 2025 06 16			The Fours to Little Churchill River Confluence Walleye Spawning Habitat 50th Percentile 302 m ³ /s
	CREATED BY: Energy Operations and Water Planning			
	COORDINATE SYSTEM: WGS 1984 UTM Zone 14N	DATE CREATED: 28-May-26	REVISION DATE: 29-JUL-26	
		VERSION NO.:	QA/QC:	



	DATA SOURCE: Modelling Data: Manitoba Hydro - Hydraulic Modelling Basemap: ArcGIS Map Service 2025 06 16			Little Churchill River Confluence to Swallow Rapids Walleye Spawning Habitat 50th Percentile 302 m ³ /s
	CREATED BY: Energy Operations and Water Planning			
	COORDINATE SYSTEM: WGS 1984 UTM Zone 14N	DATE CREATED: 28-May-26	REVISION DATE: 29-JUL-26	
		VERSION NO.:	QA/QC:	



	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-26	REVISION DATE: 23-JUL-26
			VERSION NO:	GAUC:

Little Churchill River Confluence Area
Walleye Spawning Habitat
75th Percentile
610 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

DATE CREATED:
28-May-26

REVISION DATE:
24-JUL-26

00.61.2 Kilometers

00.551.1 Miles

VERSION NO:
QA/QC:

The Fours to Little Churchill River Confluence

Walleye Spawning Habitat

75th Percentile

610 m³/s

M2-WALL-P75-FOURS





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:
24-JUL-26

00.40.8 Kilometers

00.40.8 Miles

VERSION NO:

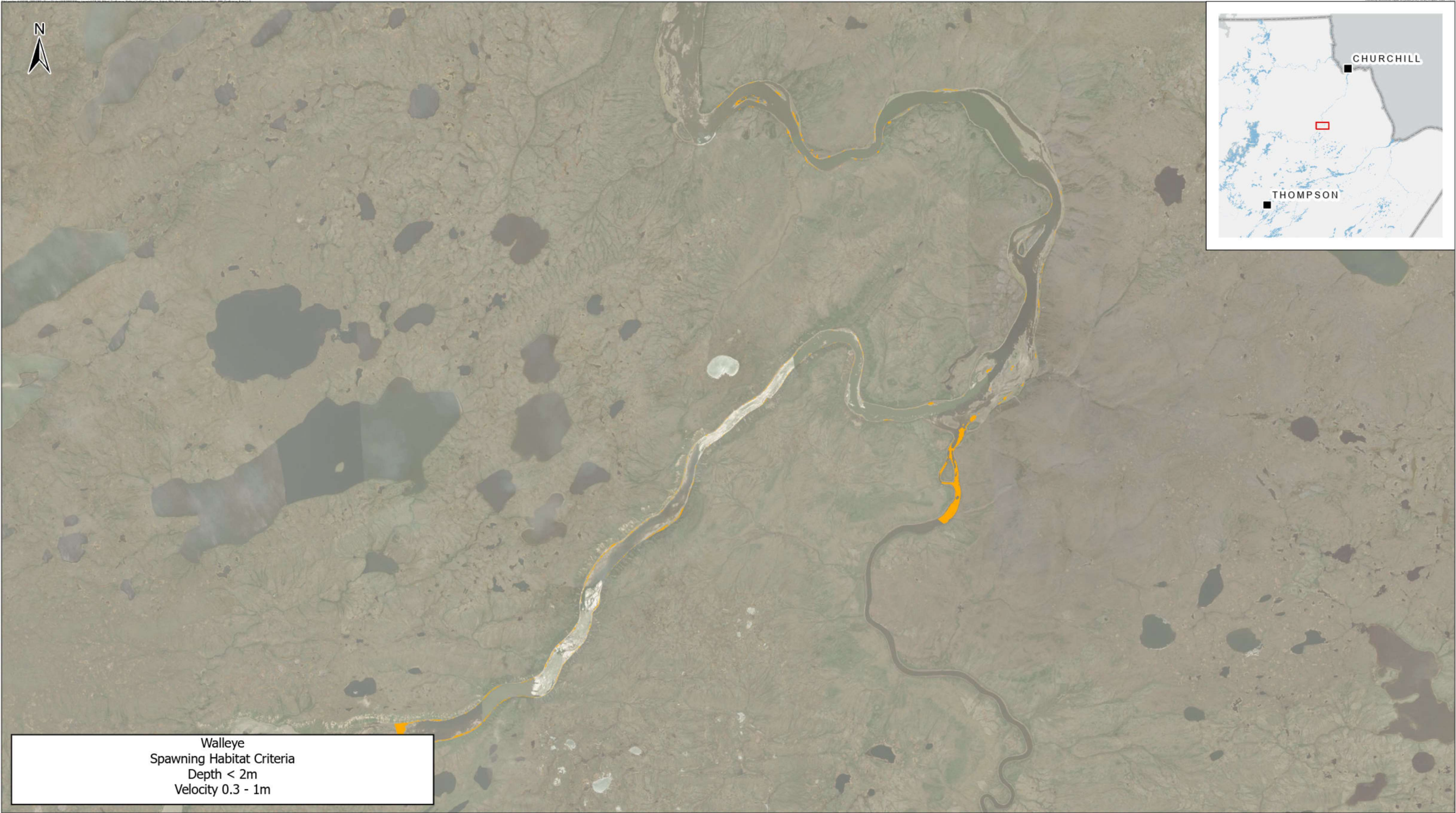
QA/QC:

Little Churchill River Confluence to Swallow Rapids

Walleye Spawning Habitat

75th Percentile

610 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

024 Kilometers
01.53 Miles

DATE CREATED: 28-May-26

REVISION DATE: 23-JUL-26

VERSION NO:

GAO:

Little Churchill River Confluence Area
Walleye Spawning Habitat
95th Percentile
1950 m³/s

M2-WALL-P95-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:
24-JUL-26

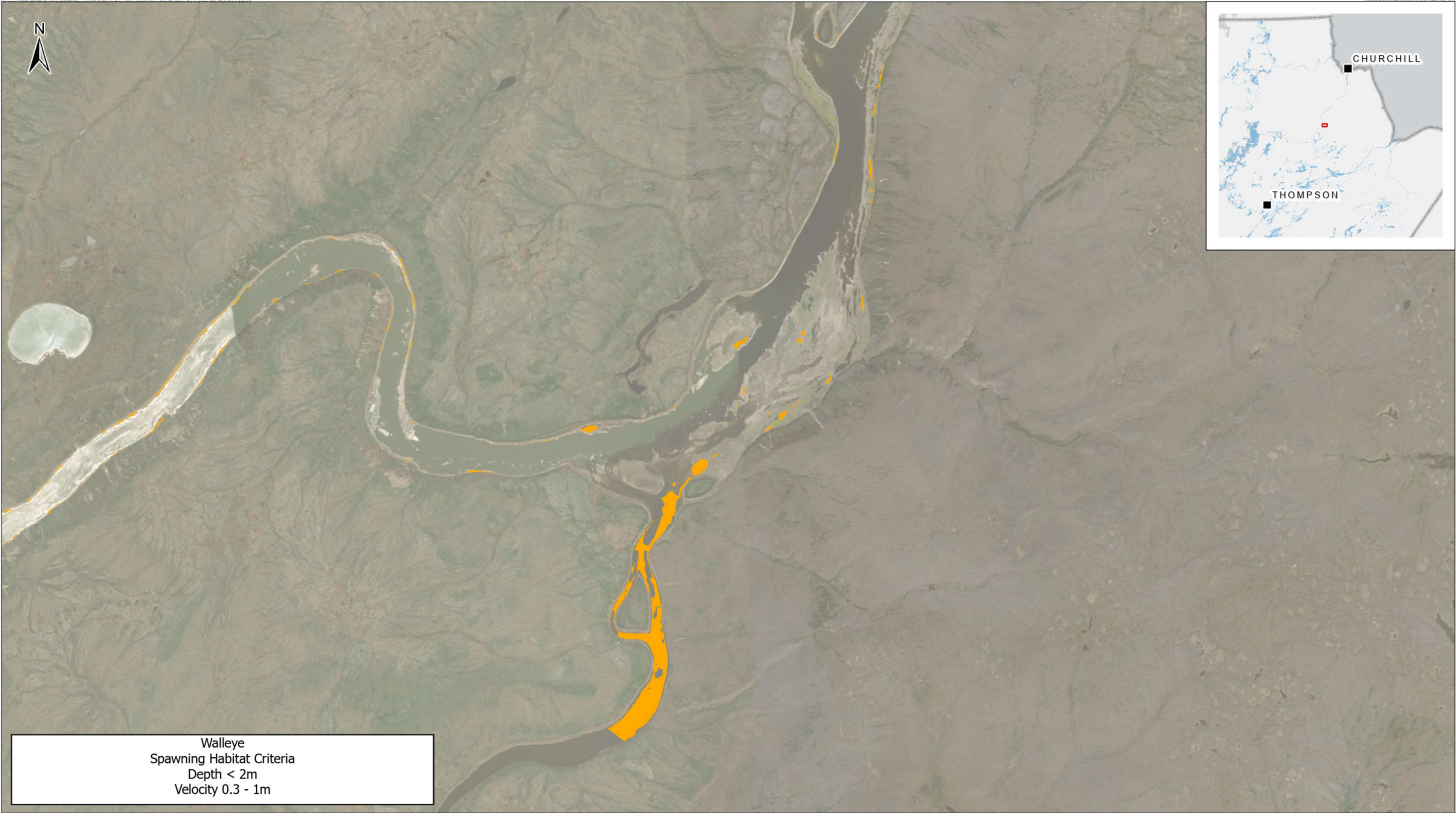
0 0.6 1.2 Kilometers

0 0.55 1.1 Miles

VERSION NO:
QA/QC:

The Fours to Little Churchill River Confluence
Walleye Spawning Habitat
95th Percentile
1950 m³/s

M2-WALL-P95-FOURS





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-26

REVISION DATE: 23-JUL-26

VERSION NO:

GAUGE:

0

0.8

1.6 Kilometers

0

0.55

1.1 Miles

Little Churchill River Confluence
Walleye Spawning Habitat
95th Percentile
1950 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

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

Walleye Spawning Habitat

95th Percentile

1950 m³/s