APEGA Permit to Practice - P654

Prepared by:

Md Makamum Mahmood, MEng, PEng Senior Project Engineer

Reviewed by:

Gary Van Der Vinne, MSc, PEng Principal

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Dan Healy, PhD, PEng

Principal

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OPEN WATER FLOOD INUNDATION MAP LIBRARY

Prepared for:

Alberta

22 March 2022

NHC Ref. No. 1006666



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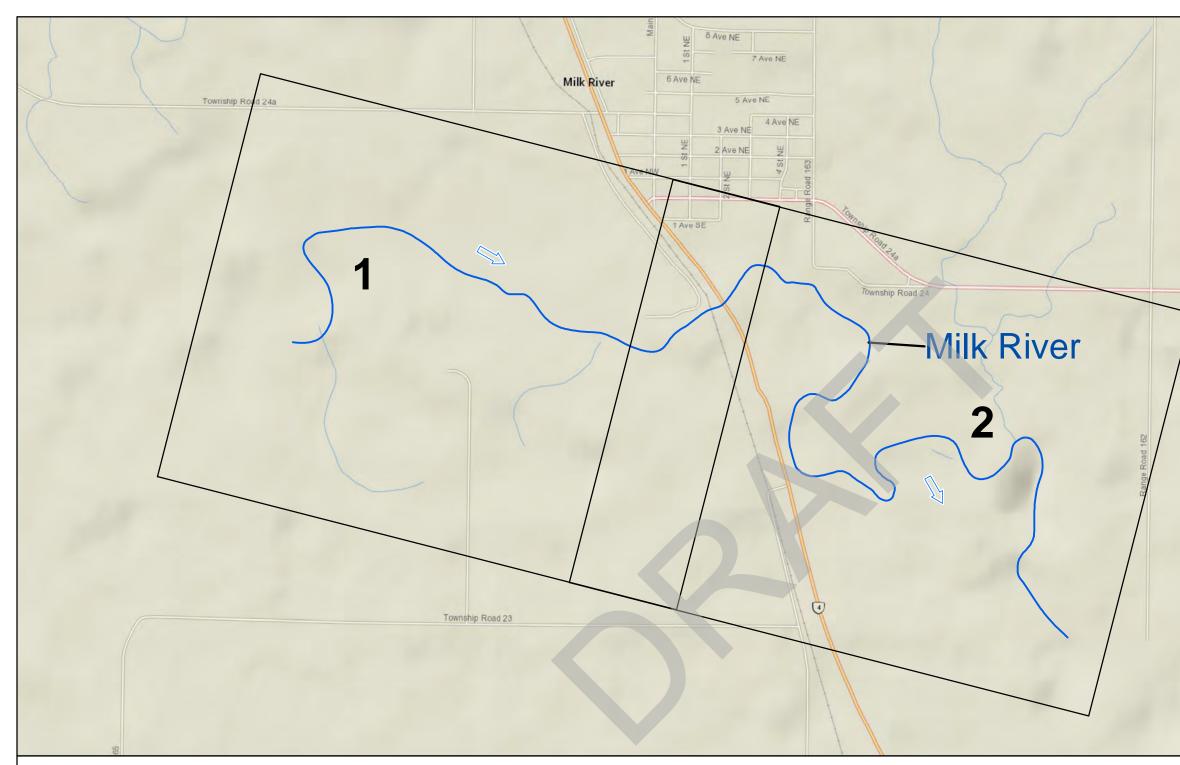
Milk River Flood Study



OPEN WATER FLOOD INUNDATION INDEX MAP

Milk River Flood Study Open Water Flood Inundation Map Library





Notes to Users:

- 1. Please refer to the accompanying Milk River Study Report for important information concerning these maps.
- Within the flood inundation areas shown on this map, there may 2. be isolated pockets of high ground. To determine whether or not a particular site is subject to flooding, reference should be made to the computed flood levels in conjunction with site-specific surveys where detailed definition is required. Non-riverine and local sources of water have not been considered,
- 3. and structures such roads, railways or barriers such as levees can restrict water flow and affect local flood levels. Channel
- obstruction, local stormwater inflow, groundwater seepage or other land drainage can cause flood levels to exceed those indicated on the map. Lands adjacent to a flooded area may be subject to flooding from tributary streams not indicated on the maps

4. The flood inundation area is shown above the line work for bridges that are below flood levels.

Definitions:

1. Flood Inundation Mapping - Delineates flood inundation areas, showing the extent of one or more flood scenarios under existing conditions. Depending on the particular flood scenario, the mapping may be divided into multiple zones. Flood inundation mapping is typically used for near real-time emergency response planning and operations.

2. Flood Inundation Area - The area inundated during a particular flood scenario under existing conditions. The flood inundation area may be divided into multiple zones, including isolated areas that may become inundated due to groundwater seepage or other subsurface connections. Flood inundation

areas may change as a result of future development or flow obstructions. 3. Flood Scenario- Flow conditions that describe a particular flood event. Flood scenarios typically represent a range of flows, based either on flood frequency analysis or set flow intervals. The flood scenarios included with this map set include the 2-year, 5-year, 10-year, 20-year, 35-year, 50-year, 75-year, 100year, 200-year, 350-year, 500-year, 750-year, and 1000-year flood events.

Data Sources and References:

1. Orthophoto imagery acquired by OGL Engineering for Alberta Envi OGL Engineering (2021). Milk River aerial imagery acquisition me number 2021-500, submitted to Alberta Environment and Parks, 5 pp. 2. Base data from Natural Resources Canada, Alberta Environment and

3. Additional base mapping from Esri.

	Alberta
	northwest hydraulic consultants
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7	STUDY AREA
	FLOW DIRECTION STUDY REACH MAP SHEET
	SCALE - 1:18,000 N 0 300 600 A
rironment and Parks: nemorandum, project Parks, and Altalis.	Coordinate System: NAD 1983 CSRS 3TM 111 ; Vertical Datum: CGVD28 HTv2.0; Units: Metres Engineer GIS Reviewer MMM JY DJH
	Job: 1006666 Date: 11-MAR-2022
	MILK RIVER FLOOD STUDY
	OPEN WATER FLOOD INUNDATION INDEX MAP

INDEX MAP







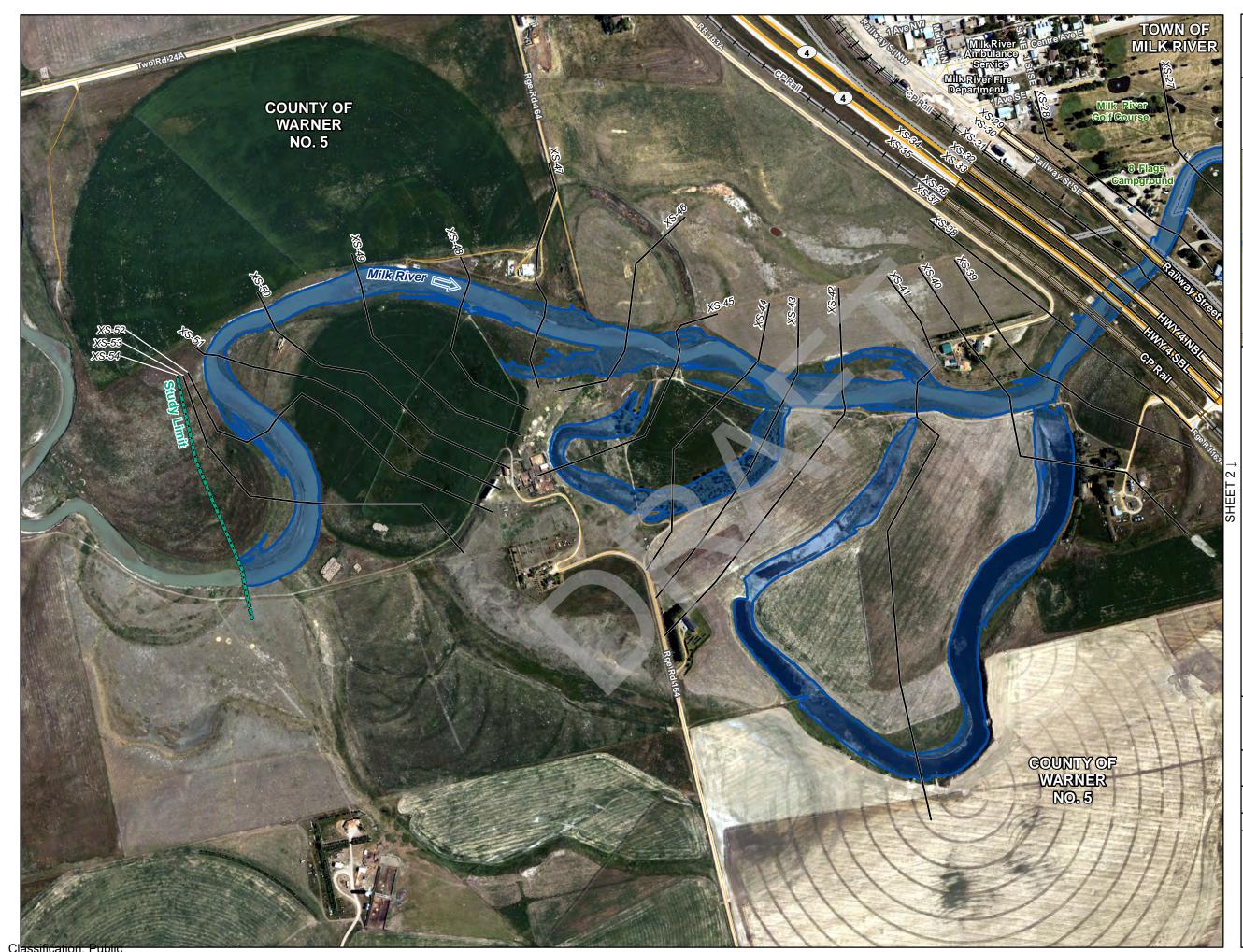
Alberta
northwest hydraulic consultants
GOUNTY OF WARNER No. 5 Milk River Milk River Nilk River
 FLOW DIRECTION STUDY LIMIT BRIDGE MODEL CROSS SECTION RAILWAY LOCAL ROAD PROVINCIAL HIGHWAY TOWN OF MILK RIVER 2-YEAR FLOOD INUNDATION EXTENT
<u>DISCHARGE</u> MILK RIVER = 59 m ³ /s SCALE - 1:7,500 N
0 100 200
Coordinate System: NAD 1983 CSRS 3TM 111; Vertical Datum: CGVD28 HTv2.0; Units: Metres
Engineer GIS Reviewer DJH
Job: 1006666 Date: 21-MAR-2022
MILK RIVER FLOOD STUDY 2-YEAR OPEN WATER FLOOD INUNDATION MAP SHEET 1 OF 2



Alberta		
northwest hydraulic consultants		
COUNTY OF WARNER NO. 5	TOWN OF MILK RIVER	
 FLOW DIRECTION STUDY LIMIT BRIDGE MODEL CROSS SECTION RAILWAY LOCAL ROAD PROVINCIAL HIGHWAY TOWN OF MILK RIVER 2-YEAR FLOOD INUNDATION EXTENT 		
<u>_DISCH</u> A MILK RIVER	<u>\RGE</u> = 59 m³/s	
SCALE - 1:7,5 0 100	00 N 200 M	
Coordinate System: NAD Vertical Datum: CGVD28		
Engineer GIS MMM Job: 1006666	JY Reviewer DJH Date: 21-MAR-2022	
MILK RIVER FLOOD STUDY 2-YEAR OPEN WATER FLOOD INUNDATION MAP SHEET 2 OF 2		







Alberta	
northwest hydraulic consultants	
Country of WARNER No. 5 Milk River Milk River Nilk River	
 FLOW DIRECTION STUDY LIMIT BRIDGE MODEL CROSS SECTION RAILWAY LOCAL ROAD PROVINCIAL HIGHWAY TOWN OF MILK RIVER 5-YEAR FLOOD INUNDATION EXTENT 	
DISCHARGE MILK RIVER = 113 m³/s SCALE - 1:7,500 0 100 200 0 100 200 0 100 200 MILK NAD 1983 CSRS 3TM 111; Vertical Datum: CGVD28 HTv2.0; Units: Metres Engineer GIS Reviewer MMM JY DJH Job: 1006666 Date: 21-MAR-2022	
MILK RIVER FLOOD STUDY 5-YEAR OPEN WATER FLOOD INUNDATION MAP SHEET 1 OF 2	



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<u>DISCH</u> A MILK RIVER	<u>\RGE</u> = 113 m ³ /s
SCALE - 1:7,5 0 100	200
Coordinate System: NAD 1983 CSRS 3TM 111; Vertical Datum: CGVD28 HTv2.0; Units: Metres	
Engineer GIS MMM	JY <i>Reviewer</i> DJH
Job: 1006666 Date: 21-MAR-2022 MILK RIVER FLOOD STUDY 5-YEAR OPEN WATER FLOOD INUNDATION MAP SHEET 2 OF 2	
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northwest hydra	ulic consultants
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SCALE - 1:7,50 0 100	200 N
Coordinate System: NAD Vertical Datum: CGVD28 Engineer GIS MMM	
Job: 1006666 Date: 21-MAR-2022 MILK RIVER FLOOD STUDY 10-YEAR OPEN WATER	
FLOOD INUND	



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northwest hydra	ulic consultants
GOUNTY OF WARNER No. 5	TOWN OF MILK RIVER
FLOW DIRECT STUDY LIMIT BRIDGE MODEL CROM RAILWAY LOCAL ROAD PROVINCIAL DOWN OF MI 10-YEAR FLO EXTENT	SS SECTION) HIGHWAY
<u>DISCHA</u> MILK RIVER : <i>SCALE - 1:7,5</i> 0 100	= 152 m³/s
Coordinate System: NAD Vertical Datum: CGVD28 Engineer GIS MMM Job: 1006666) 1983 CSRS 3TM 111;
MILK RIVER F 10-YEAR OP FLOOD INUNI	EN WATER







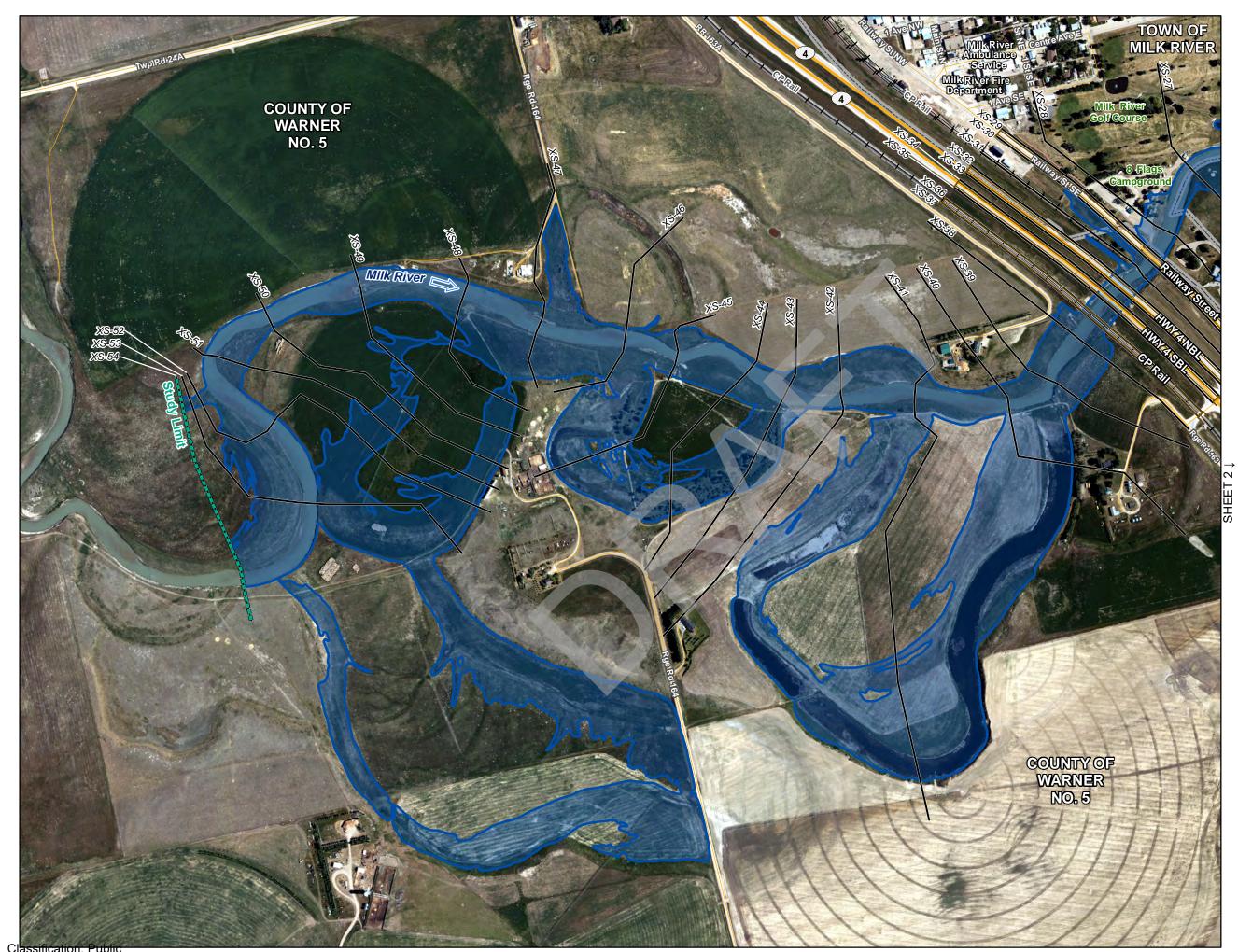
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northwest hydra	ulic consultants
GOUNTY OF WARNER NO. 5	TOWIN OF MILK RIVER
FLOW DIREC FLOW DIREC FLOW DIREC FRIDGE FRIDGE FRODEL CRO FRAILWAY LOCAL ROAE PROVINCIAL TOWN OF MI 20-YEAR FLO EXTENT	SS SECTION) HIGHWAY
<u>DISCHA</u> MILK RIVER :	
SCALE - 1:7,5 0 100 Coordinate System: NAD	200 A
Engineer GIS Job: 1006666	JY Reviewer JY DJH Date: 21-MAR-2022
MILK RIVER FLOOD STUDY 20-YEAR OPEN WATER FLOOD INUNDATION MAP SHEET 1 OF 2	



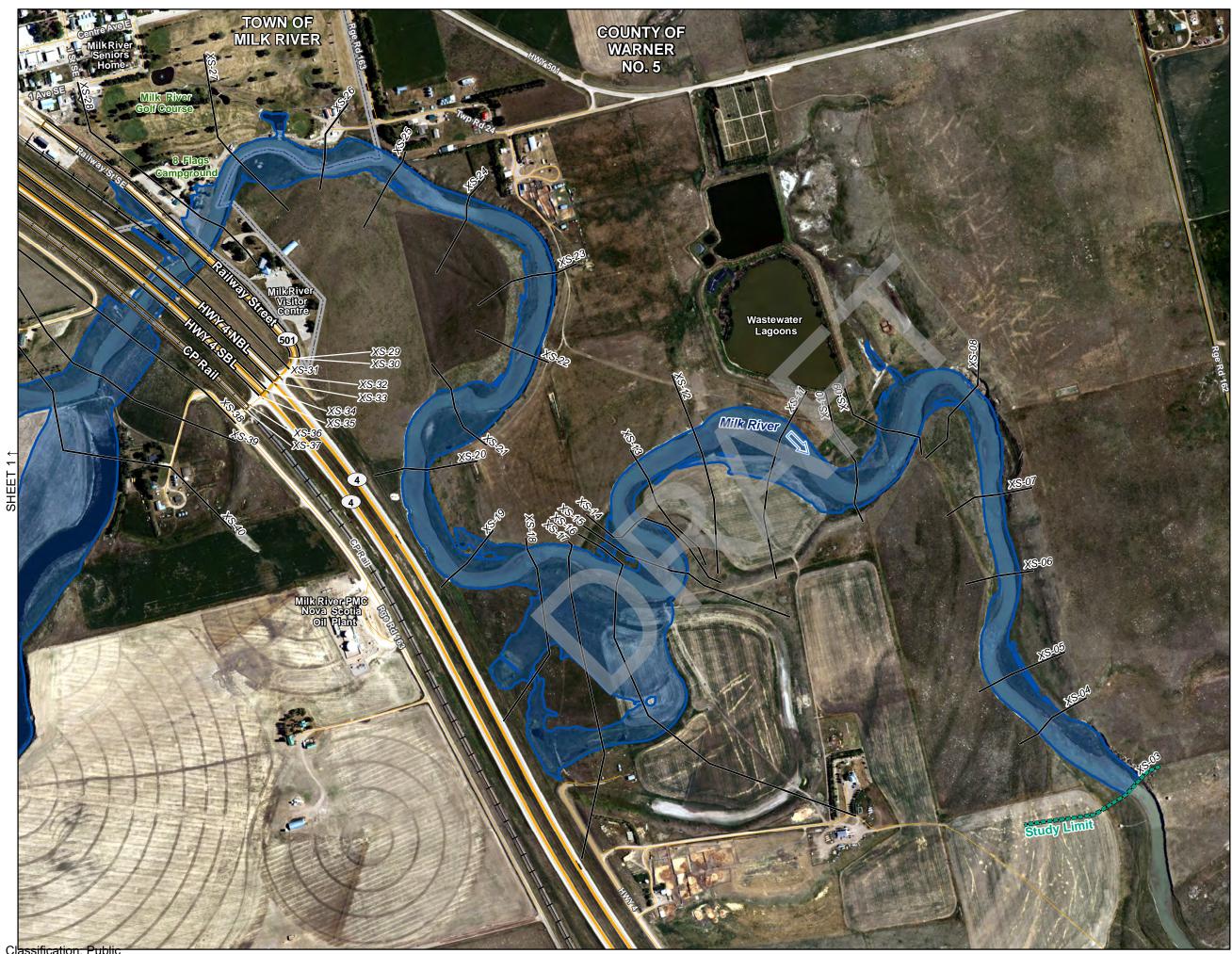
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northwest hydraulic consultants		
GOUNTY OF WARNER No. 5	TOWN OF MILK RIVER	
FLOW DIRECT STUDY LIMIT BRIDGE MODEL CRO RAILWAY LOCAL ROAD PROVINCIAL DOWN OF MI 20-YEAR FLO EXTENT	SS SECTION) HIGHWAY	
DISCHA MILK RIVER SCALE - 1:7,5 0 100 Coordinate System: NAL	= 190 m ³ /s 00 N 200 M 0 1983 CSRS 3TM 111;	
Vertical Datum: CGVD28 Engineer GIS MMM Job: 1006666	HTv2.0; Units: Metres JY DJH Date: 21-MAR-2022	
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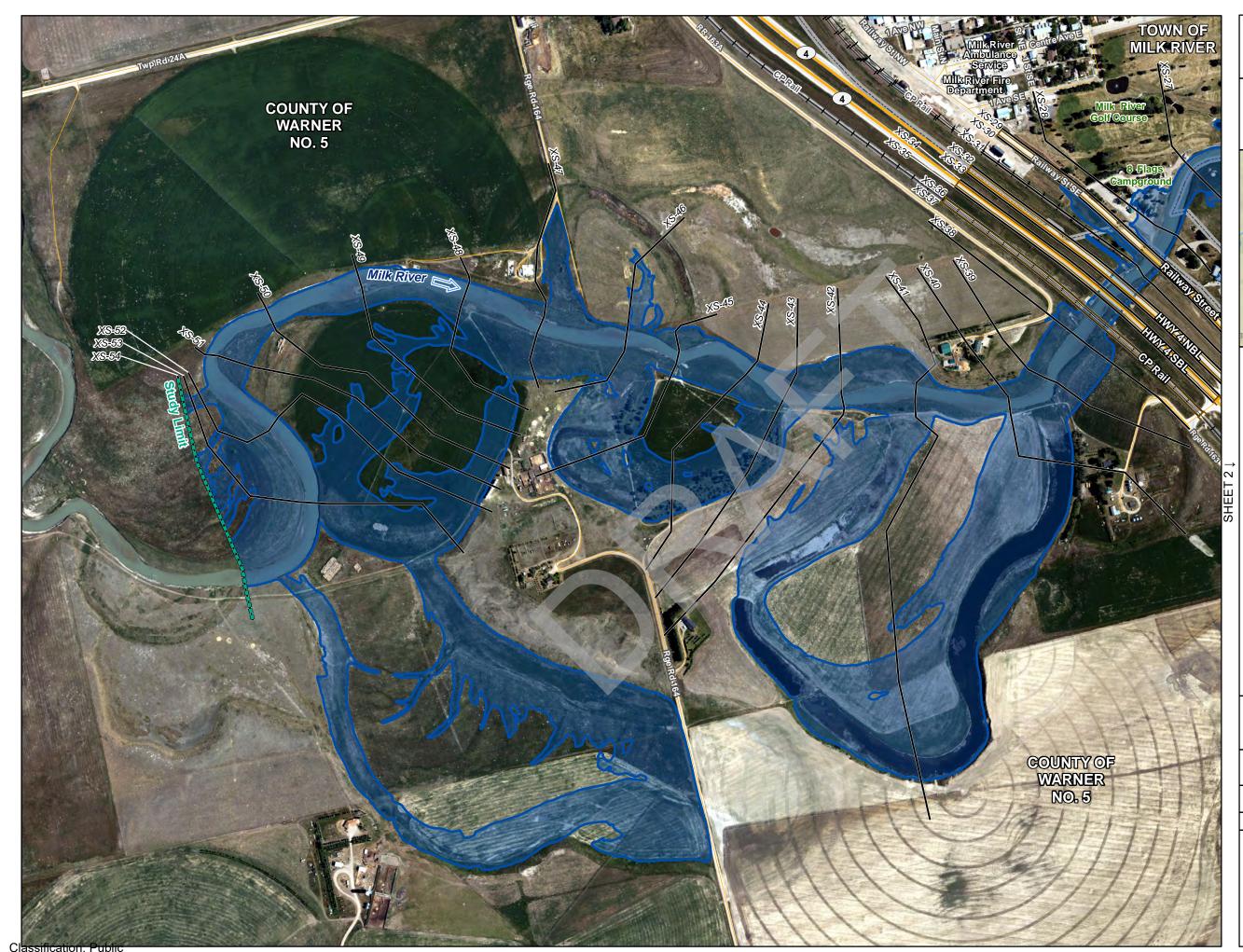
Alberta
northwest hydraulic consultants
Country of WARNER No. 5 Milk River Milk River Nilk River
 FLOW DIRECTION STUDY LIMIT BRIDGE MODEL CROSS SECTION RAILWAY LOCAL ROAD PROVINCIAL HIGHWAY TOWN OF MILK RIVER 35-YEAR FLOOD INUNDATION EXTENT
<u>DISCHARGE</u> MILK RIVER = 221 m³/s
SCALE - 1:7,500 N
0 100 200
Coordinate System: NAD 1983 CSRS 3TM 111; Vertical Datum: CGVD28 HTv2.0; Units: Metres
Engineer GIS Reviewer DJH
Job: 1006666 Date: 21-MAR-2022
MILK RIVER FLOOD STUDY 35-YEAR OPEN WATER FLOOD INUNDATION MAP SHEET 1 OF 2



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GOUNTY OF WARNER No. 5	TOWN OF MILK RIVER
 FLOW DIRECTION STUDY LIMIT BRIDGE MODEL CROSS SECTION RAILWAY LOCAL ROAD PROVINCIAL HIGHWAY TOWN OF MILK RIVER 35-YEAR FLOOD INUNDATION EXTENT 	
<u>_DISCHA</u> MILK RIVER :	
SCALE - 1:7,5 0 100	200 N
Coordinate System: NAD 1983 CSRS 3TM 111; Vertical Datum: CGVD28 HTv2.0; Units: Metres	
Engineer GIS MMM Job: 1006666	JY ^{Reviewer} DJH Date: 21-MAR-2022
MILK RIVER FLOOD STUDY 35-YEAR OPEN WATER FLOOD INUNDATION MAP SHEET 2 OF 2	







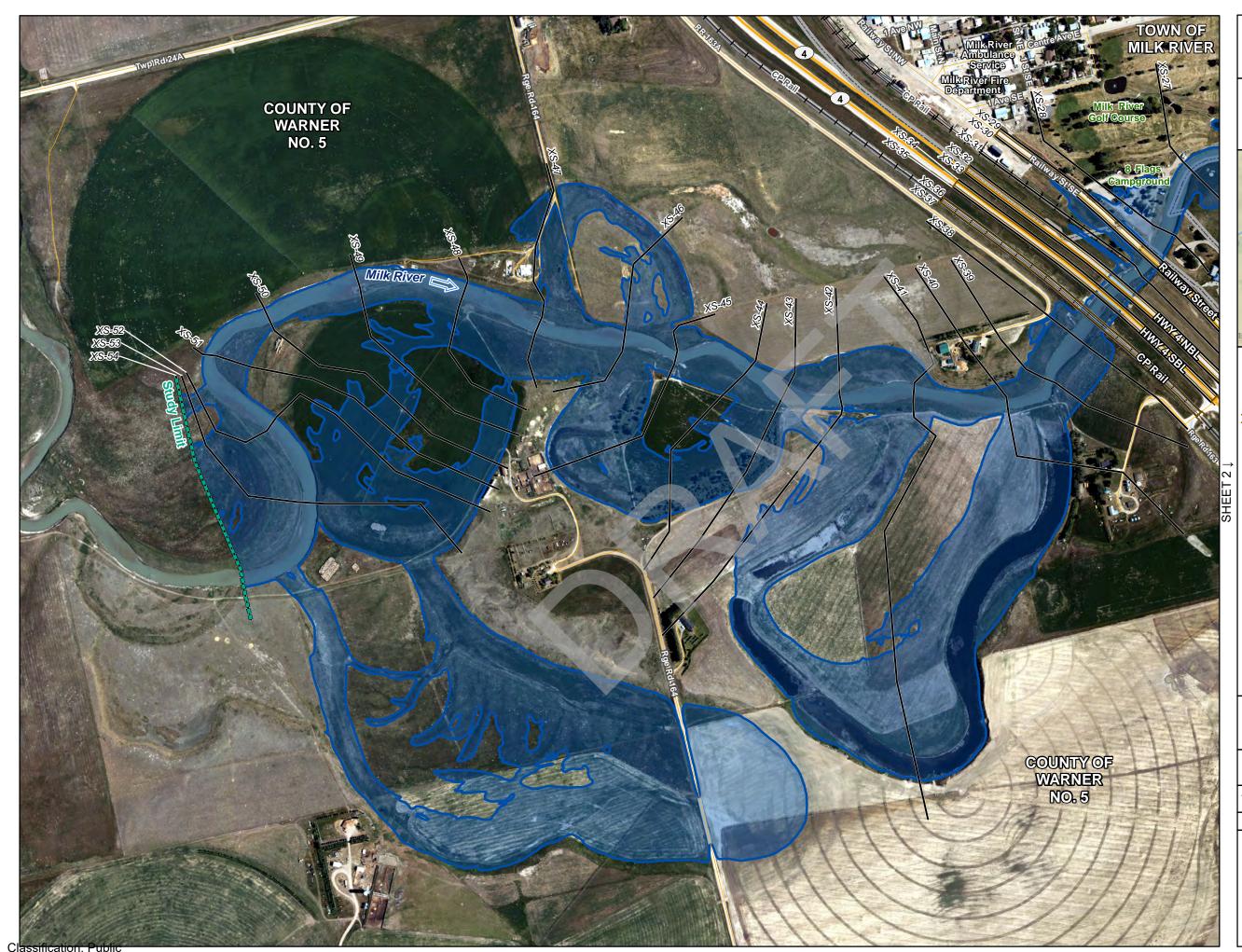
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northwest hydraulic consultants	
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Engineer GIS MMM	JY Reviewer DJH
Job: 1006666 MILK RIVER FL 50-YEAR OPI FLOOD INUND	EN WATER



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GOUNTRY OF WARNIER NO. 5	TOWIN OF MILK RIVER
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<u>DISCHA</u> MILK RIVER :	
SCALE - 1:7,5 0 100	00 N
Coordinate System: NAD Vertical Datum: CGVD28	
Engineer GIS MMM Job: 1006666	JY ^{Reviewer} DJH Date: 21-MAR-2022
MILK RIVER F 50-YEAR OP FLOOD INUNE	LOOD STUDY EN WATER







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GOUINTY OF WARNER No. 5 Milk River Milk River No. 2 No. 2
 FLOW DIRECTION STUDY LIMIT BRIDGE MODEL CROSS SECTION RAILWAY LOCAL ROAD PROVINCIAL HIGHWAY TOWN OF MILK RIVER 75-YEAR FLOOD INUNDATION EXTENT
<u>DISCHARGE</u> MILK RIVER = 262 m ³ /s
SCALE - 1:7,500 N 0 100 200
Coordinate System: NAD 1983 CSRS 3TM 111;
Engineer GIS Reviewer MMM JY DJH
Job: 1006666 Date: 21-MAR-2022 MILK RIVER FLOOD STUDY 75-YEAR OPEN WATER FLOOD INUNDATION MAP SHEET 1 OF 2

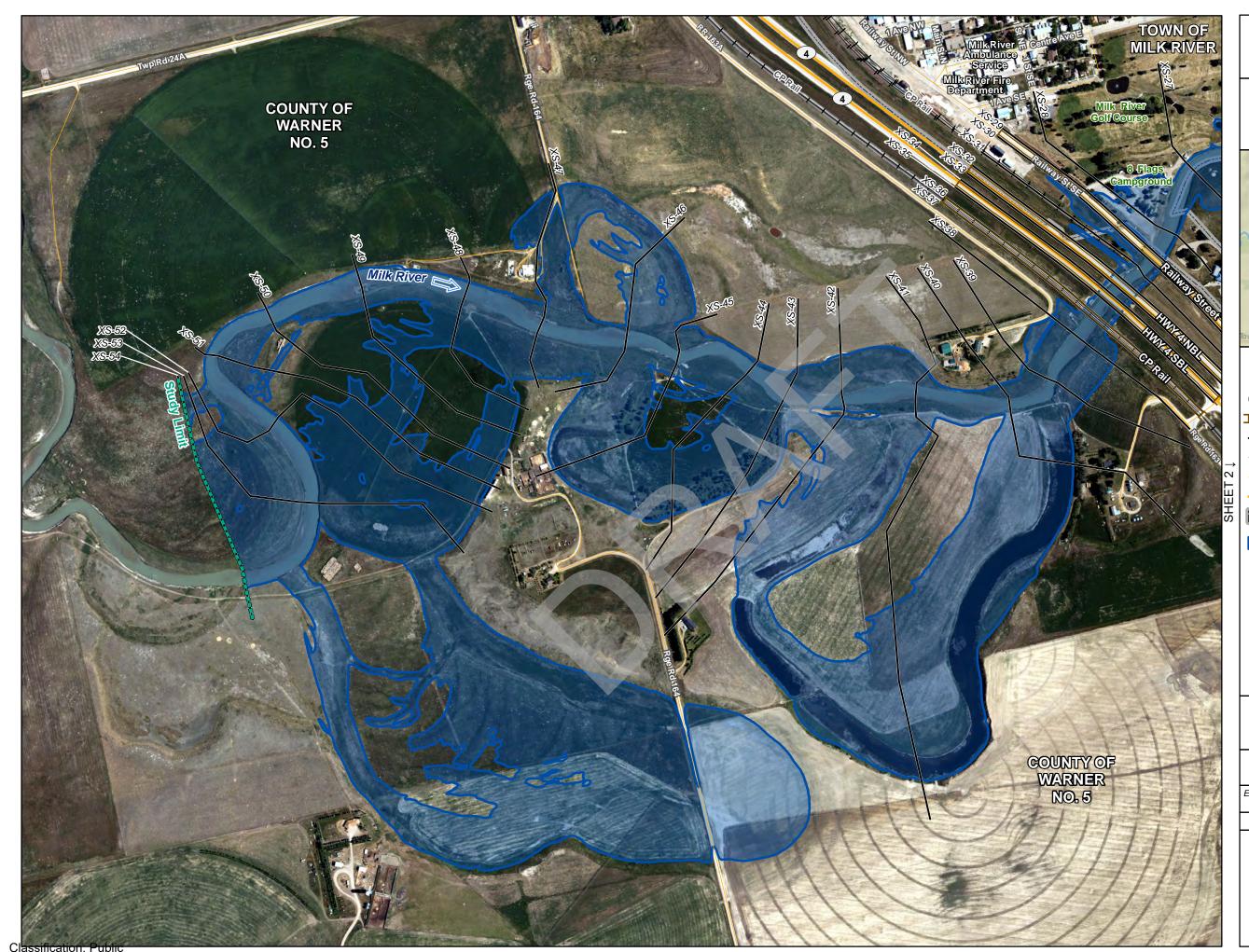
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northwest hydra	ulic consultants
GOUNTY OF WARNER No. 5 Milk River	TOWN OF MILK RIVER
FLOW DIRECT STUDY LIMIT BRIDGE MODEL CRO RAILWAY LOCAL ROAD PROVINCIAL TOWN OF MI	SS SECTION) HIGHWAY
<u>DISCHA</u> MILK RIVER : <i>SCALE - 1:7,5</i> 0 100	= 262 m³/s
Coordinate System: NAD Vertical Datum: CGVD28 Engineer GIS Job: 1006666	
MILK RIVER F 75-YEAR OP FLOOD INUNI	EN WATER







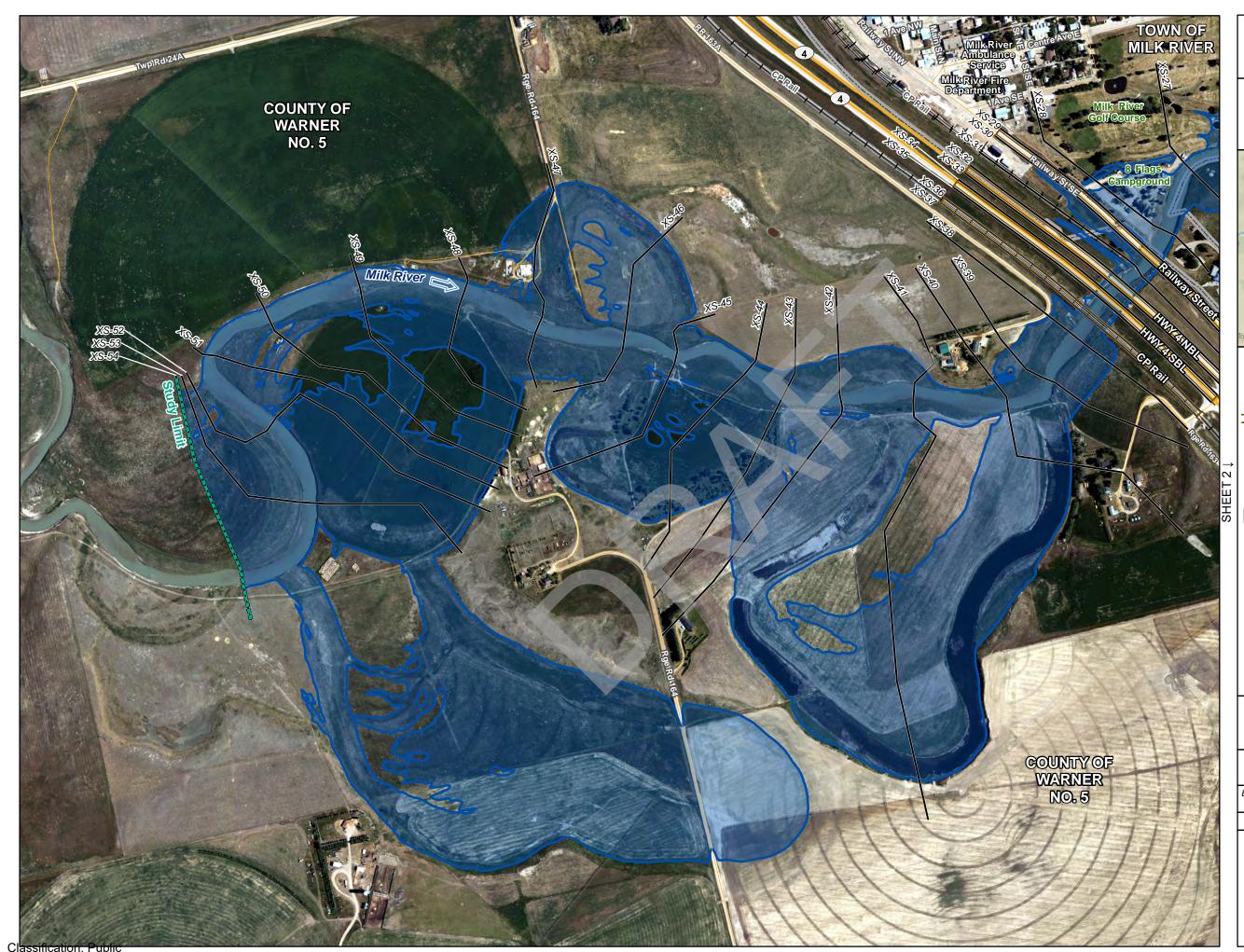
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northwest hydra	ulic consultants
GOUNTY OF WARNER NO. 5	TOWN OF MILK RIVER
FLOW DIREC STUDY LIMIT BRIDGE MODEL CRO RAILWAY LOCAL ROAE PROVINCIAL TOWN OF MI 100-YEAR FL EXTENT	SS SECTION) HIGHWAY
<u>DISCH</u> MILK RIVER	<u>\RGE</u> = 277 m ³ /s
SCALE - 1:7,5 0 100	00 N 200 N
Coordinate System: NAD Vertical Datum: CGVD28	HTv2.0; Units: Metres
Engineer GIS MMM Job: 1006666	JY DJH Date: 21-MAR-2022
MILK RIVER F 100-YEAR OF FLOOD INUNI	PEN WATER



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GOUNTY OF WARNER No. 5	TOWIN OF MILK RIVIER River
FLOW DIRECT STUDY LIMIT BRIDGE MODEL CRO RAILWAY LOCAL ROAL PROVINCIAL TOWN OF MI 100-YEAR FL EXTENT	SS SECTION) HIGHWAY
<u>DISCHA</u> MILK RIVER :	<u>\RGE</u> = 277 m³/s
SCALE - 1:7,5 0 100	00 N 200
Coordinate System: NAD Vertical Datum: CGVD28) 1983 CSRS 3TM 111;
Engineer GIS MMM	JY Reviewer DJH
Job: 1006666	Date: 21-MAR-2022
MILK RIVER F 100-YEAR OF FLOOD INUNI	PEN WATER







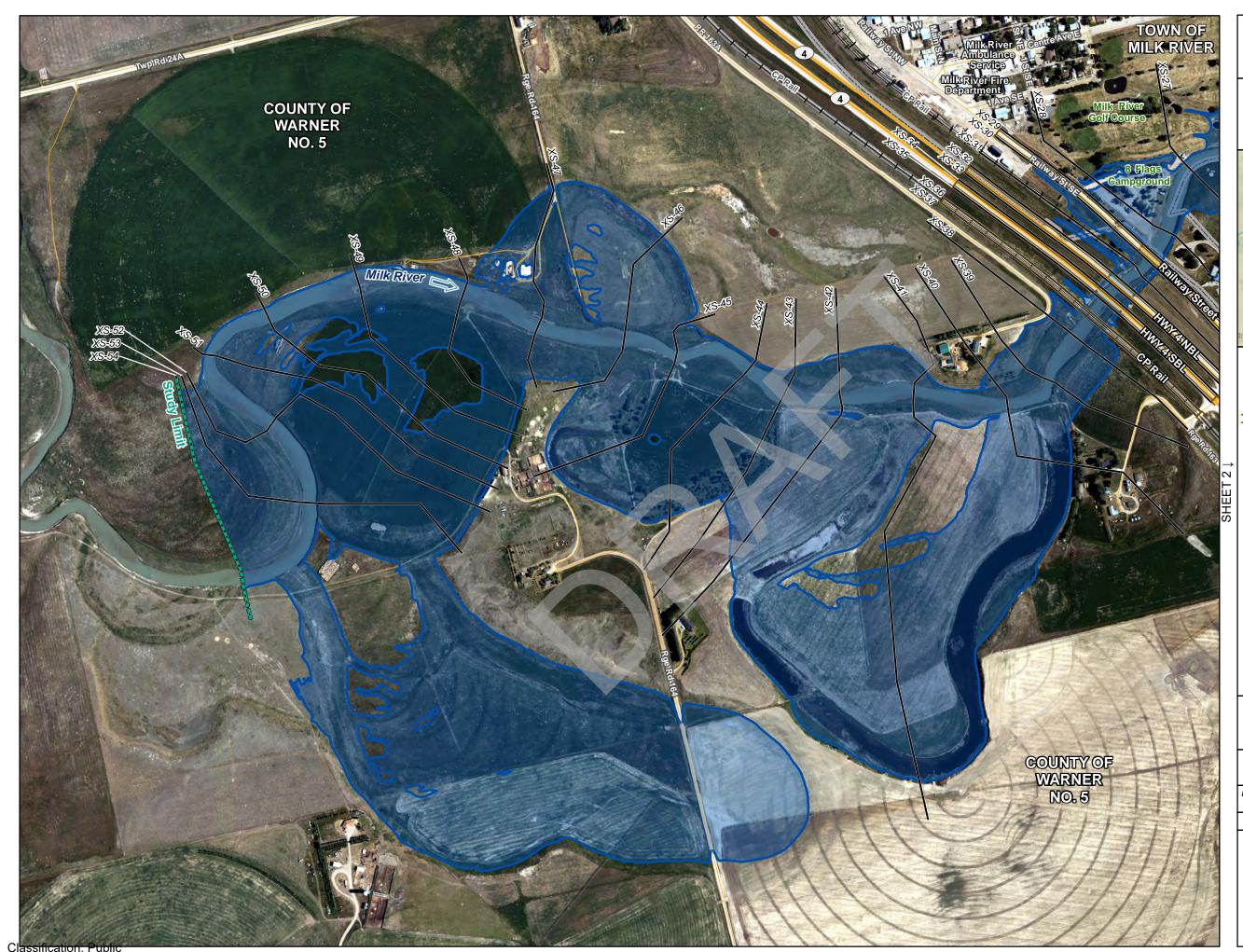
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COUNTY OF WARNER No. 5	TOWIN OF MILK RIVER
FLOW DIRECT STUDY LIMIT BRIDGE MODEL CROSS RAILWAY LOCAL ROAD PROVINCIAL H 200-YEAR FLO EXTENT	S SECTION
_ <u>DISCHAR</u> MILK RIVER = 3	
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MILK RIVER FL 200-YEAR OPI FLOOD INUND	EN WATER



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GOUNTY OF WARNER No. 5	TOWIN OF MILLK RIVER
FLOW DIRECT STUDY LIMIT BRIDGE MODEL CRO H RAILWAY LOCAL ROAT PROVINCIAL DROVINCIAL 200-YEAR FL EXTENT	SS SECTION HIGHWAY
<u>DISCH</u> MILK RIVER	
SCALE - 1:7,5	Ň
0 100	
Coordinate System: NAD Vertical Datum: CGVD28	
Engineer GIS MMM	JY <i>Reviewer</i> DJH
Job: 1006666	Date: 21-MAR-2022
MILK RIVER F 200-YEAR OF FLOOD INUNI	DATION MAP
	SHEET 2 OF 2







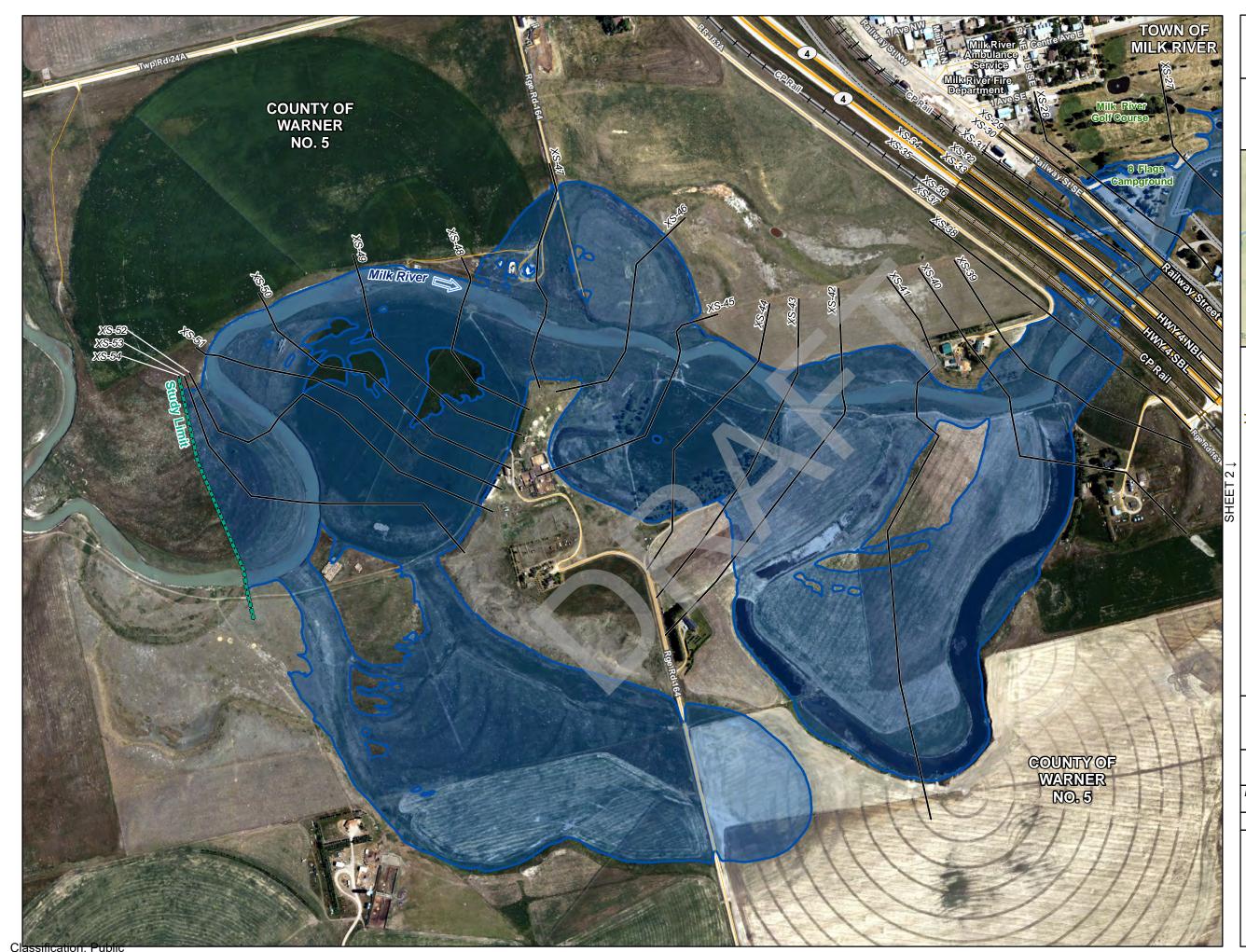
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GOUNTY OF WARNER No. 5 Milk River Milk River Nilk River
 FLOW DIRECTION STUDY LIMIT BRIDGE MODEL CROSS SECTION RAILWAY LOCAL ROAD PROVINCIAL HIGHWAY TOWN OF MILK RIVER 350-YEAR FLOOD INUNDATION EXTENT
DISCHARGE MILK RIVER = 343 m ³ /s SCALE - 1:7,500 N
0 100 200 M
Coordinate System: NAD 1983 CSRS 3TM 111; Vertical Datum: CGVD28 HTv2.0; Units: Metres
Engineer GIS Reviewer DJH
Job: 1006666 Date: 21-MAR-2022
MILK RIVER FLOOD STUDY 350-YEAR OPEN WATER FLOOD INUNDATION MAP SHEET 1 OF 2



Albe	erta
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GOUNTY OF WARNER No. 5	TOWN OF MILK RIVER
FLOW DIREC STUDY LIMIT BRIDGE MODEL CRO RAILWAY LOCAL ROAL PROVINCIAL TOWN OF MI 350-YEAR FL EXTENT	SS SECTION) HIGHWAY
<u>DISCH</u> MILK RIVER	
SCALE - 1:7,5 0 100	200
Coordinate System: NAD Vertical Datum: CGVD28	
Engineer GIS MMM	JY Reviewer
Job: 1006666	Date: 21-MAR-2022
MILK RIVER F 350-YEAR OF FLOOD INUNI	PEN WATER
	SHEET 2 OF 2







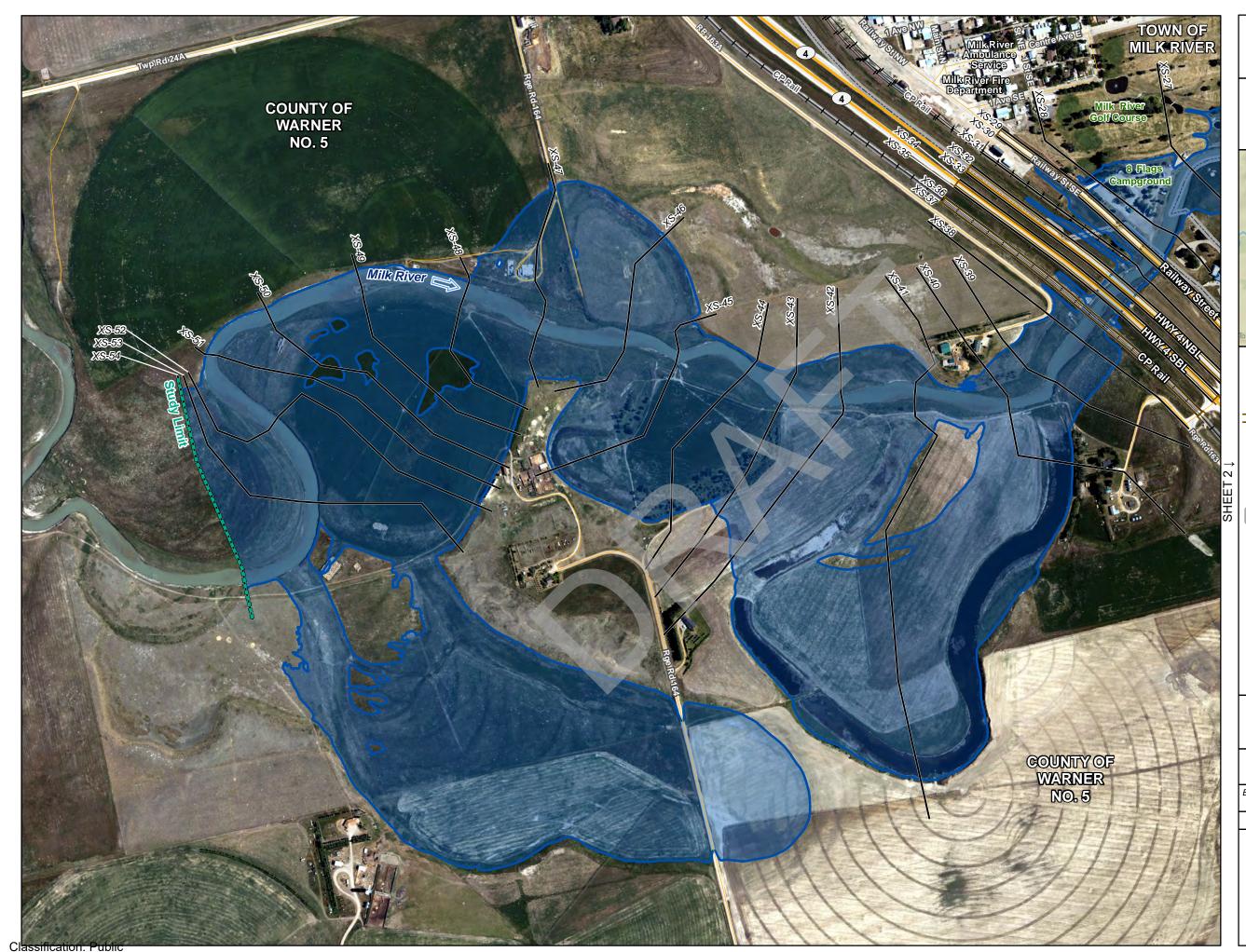
Alberta
northwest hydraulic consultants
GOUNTY OF WARNER NO. 5 Milk River Milk River Nilk River
 FLOW DIRECTION STUDY LIMIT BRIDGE MODEL CROSS SECTION RAILWAY LOCAL ROAD PROVINCIAL HIGHWAY TOWN OF MILK RIVER 500-YEAR FLOOD INUNDATION EXTENT
<u>DISCHARGE</u> MILK RIVER = 361 m ³ /s
SCALE - 1:7,500 0 100 200 M
Coordinate System: NAD 1983 CSRS 3TM 111; Vertical Datum: CGVD28 HTv2.0; Units: Metres
EngineerGISReviewerMMMJYDJHJob: 1006666Date: 21-MAR-2022
MILK RIVER FLOOD STUDY 500-YEAR OPEN WATER FLOOD INUNDATION MAP SHEET 1 OF 2



Albe	erta
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GOUNTY OF WARNER No. 5	TOWIN OF MILLK RIVER
FLOW DIRECT STUDY LIMIT BRIDGE MODEL CRO RAILWAY LOCAL ROAD PROVINCIAL S00-YEAR FL EXTENT	SS SECTION HIGHWAY
<u>_DISCH</u> MILK RIVER	
SCALE - 1:7,5 0 100	200 N
Coordinate System: NAL Vertical Datum: CGVD28) 1983 CSRS 3TM 111;
Engineer GIS MMM	JY Reviewer
Job: 1006666 MILK RIVER F 500-YEAR OF FLOOD INUNE	DATION MAP
	SHEET 2 OF 2







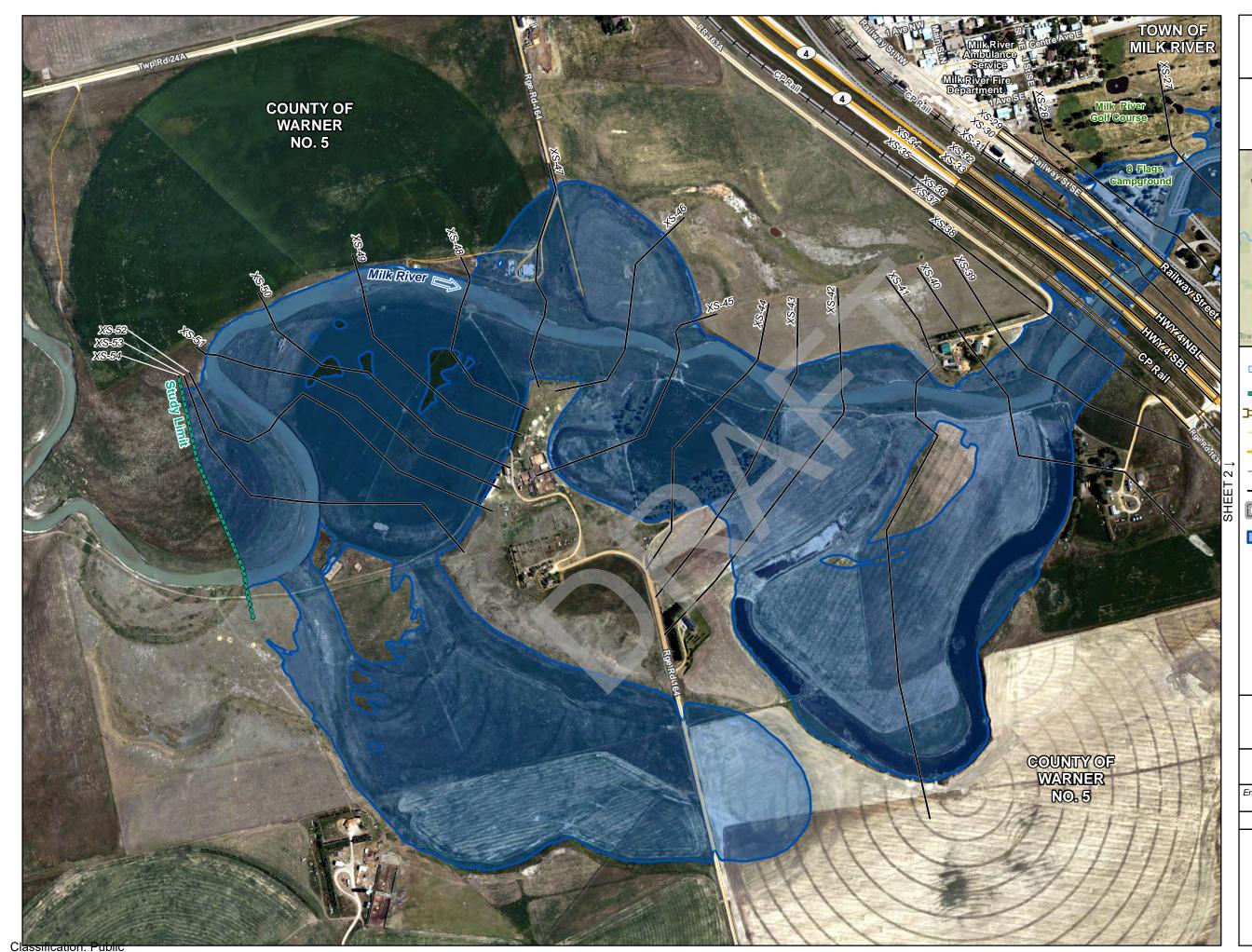
Alberta
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Country of WARNER No. 5 Milk River Milk River Nilk River
 FLOW DIRECTION STUDY LIMIT BRIDGE MODEL CROSS SECTION RAILWAY LOCAL ROAD PROVINCIAL HIGHWAY TOWN OF MILK RIVER 750-YEAR FLOOD INUNDATION EXTENT
<u>_DISCHARGE</u> MILK RIVER = 383 m ³ /s
SCALE - 1:7,500 N 0 100 200 M
Coordinate System: NAD 1983 CSRS 3TM 111; Vertical Datum: CGVD28 HTv2.0; Units: Metres
EngineerGISReviewerMMMJYDJHJob: 1006666Date: 21-MAR-2022
MILK RIVER FLOOD STUDY 750-YEAR OPEN WATER FLOOD INUNDATION MAP SHEET 1 OF 2



Alberta		
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GOUNTY OF WARNER NO. 5	TOWN OF MILK RIVER	
 FLOW DIRECTION STUDY LIMIT BRIDGE MODEL CROSS SECTION RAILWAY LOCAL ROAD PROVINCIAL HIGHWAY TOWN OF MILK RIVER 750-YEAR FLOOD INUNDATION EXTENT 		
<u>_DISCHARGE</u> MILK RIVER = 383 m³/s		
SCALE - 1:7,5 0 100	200 N	
Coordinate System: NAD 1983 CSRS 3TM 111; Vertical Datum: CGVD28 HTv2.0; Units: Metres		
Engineer GIS MMM Job: 1006666	JY Reviewer DJH Date: 21-MAR-2022	
MILK RIVER FLOOD STUDY 750-YEAR OPEN WATER FLOOD INUNDATION MAP SHEET 2 OF 2		







Alberta		
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COUNTY OF WARNER NO. 5 River Milk River Nik River		
 FLOW DIRECTION STUDY LIMIT BRIDGE LOCAL ROAD PROVINCIAL HIGHWAY RAILWAY MODEL CROSS SECTION TOWN OF MILK RIVER 1000-YEAR FLOOD INUNDATION EXTENT 		
<u>DISCHARGE</u> MILK RIVER = 397 m ³ /s		
SCALE - 1:7,500 N 0 100 200		
Coordinate System: NAD 1983 CSRS 3TM 111; Vertical Datum: CGVD28 HTv2.0; Units: Metres		
Engineer MMM GIS Reviewer DJH		
Job: 1006666 Date: 21-MAR-2022		
MILK RIVER FLOOD STUDY 1000-YEAR OPEN WATER FLOOD INUNDATION MAP		
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GOUNTRY OF WARNIER NO. 5 Milk River	TOWIN OF MILK RIVER	
 FLOW DIRECTION STUDY LIMIT BRIDGE LOCAL ROAD PROVINCIAL HIGHWAY RAILWAY MODEL CROSS SECTION TOWN OF MILK RIVER 1000-YEAR FLOOD INUNDATION EXTENT 		
<u>DISCHA</u> MILK RIVER = SCALE - 1:7,50	= 397 m³/s	
0 100	200	
Coordinate System: NAD 1983 CSRS 3TM 111; Vertical Datum: CGVD28 HTv2.0; Units: Metres		
Engineer G/S MMM	JY DJH	
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MILK RIVER FLOOD STUDY 1000-YEAR OPEN WATER FLOOD INUNDATION MAP SHEET 2 OF 2		

