Open Water Flood Inundation Map Library

Lacombe Flood Study

Submitted to:
Alberta Environment and Protected Areas
11th Floor, Oxbridge Place
9820 - 106th Street NW, Edmonton, Alberta T5K 2J6

Submitted by:
Barr Engineering and Environmental Science Canada Ltd.

March 10, 2025

DRAFT

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barr.com

Classification: Public

Open Water Flood Inundation Map Library

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500-Year Flood Inundation Extent

750-Year Flood Inundation Extent

1,000-Year Flood Inundation Extent

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Open Water Flood Inundation Index Map

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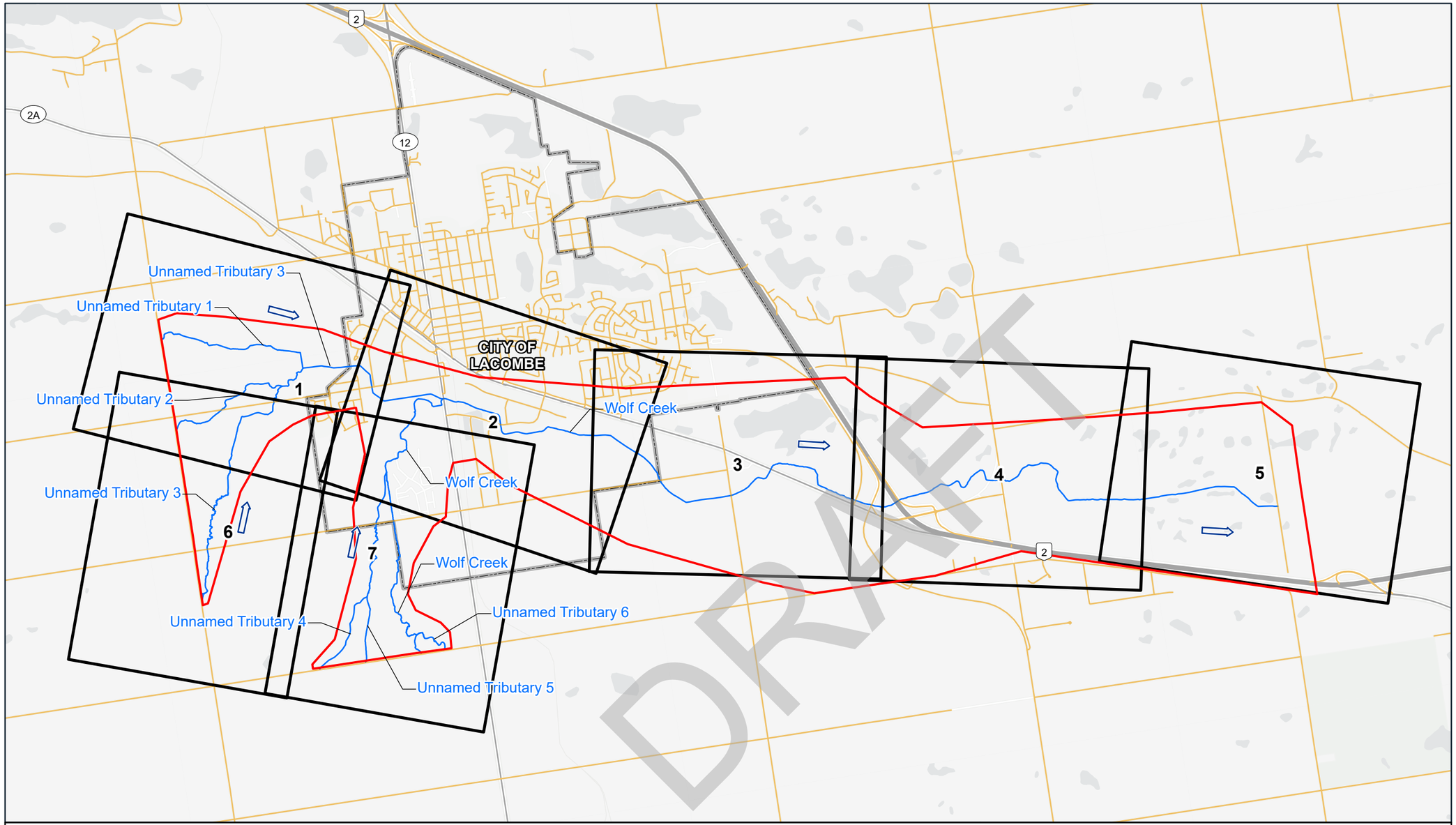

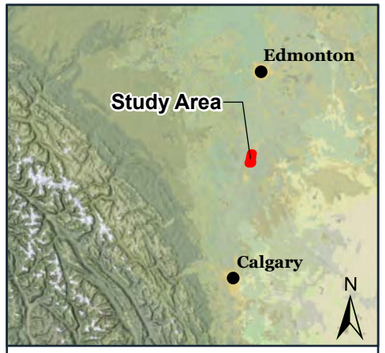

MAP SHEET
FLOOD STUDY AREA
STUDY REACH
CITY OF LACOMBE BOUNDARY
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
FLOW DIRECTION

Alberta
Canada

0 500 1,000 1,500
Metres
N
Scale: 1:50,000

Open Water Flood Inundation Index Map

Lacombe Flood Study

INDEX MAP

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Note to Users:

1. Please refer to the accompanying **Lacombe Flood Study Report** (to be issued December 2024) for important information concerning these maps.

2. Non-riverine, stormwater, groundwater seepage or other local sources of flooding have not been considered which can cause flood levels to exceed those indicated on these maps. Structures such as roads, railways, or barriers such as levees can restrict water flow and affect local flood levels. Lands adjacent to a flooded area may be subject to flooding from tributary streams not indicated on the maps.

3. Line work for bridges and flood control structures is shown above flood inundation areas, despite where these are inundated with flood water.

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 areas inundated due to potential flood control structure failure. Flood inundated 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, 100- year, 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 Environment and Protected Areas: OGL Engineering (2023). Lacombe aerial imagery acquisition memorandum, project number 2023-502, submitted to Alberta Environment and Protected Areas.

2. Base data from Alberta Environment and Protected Areas.

3. Additional base mapping from OpenStreetMap and Esri.

4. Coordinate System: NAD 1983 CSRS 3TM 114; Vertical Datum: CGVD28 HTv2.0; Units: Metres

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2-Year Flood Inundation Extent

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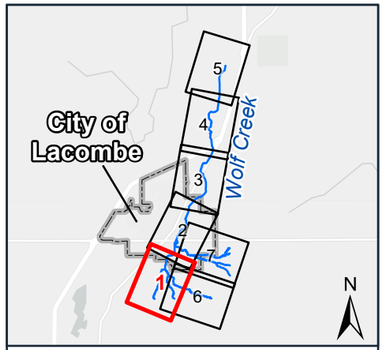
Classification: Public



- STUDY LIMIT
- FLOW DIRECTION
- BRIDGE
- CULVERT
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- LOCAL ROAD
- RAILWAY
- STREAM CENTERLINE
- 2D MODEL PROFILE STATION
- CITY OF LACOMBE BOUNDARY

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Unnamed Tributary 1 = 0.13 m^3/s
Unnamed Tributary 2 = 0.18 m^3/s
Unnamed Tributary 3 u/s of RS 2,380 = 0.18 m^3/s
Unnamed Tributary 3 RS 2,380 to 1,957 = 0.36 m^3/s
Unnamed Tributary 3 RS 1,957 = 0.49 m^3/s
Unnamed Tributary 3 d/s of RS 1,500 = 0.59 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

2-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 1 OF 7

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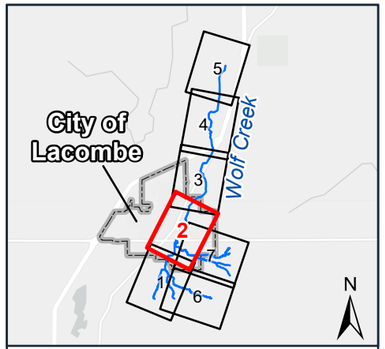

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- CITY OF LACOMBE BOUNDARY

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Unnamed Tributary 3 = 0.59 m^3/s
Unnamed Tributary 4 = 0.30 m^3/s
Wolf Creek u/s of RS 13,880 = 0.22 m^3/s
Wolf Creek RS 13,880 to 13,700 = 0.52 m^3/s
Wolf Creek RS 13,700 to 12,220 = 0.61 m^3/s
Wolf Creek RS 12,220 to 11,767 = 1.20 m^3/s
Wolf Creek d/s of RS 11,767 = 1.41 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

2-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 2 OF 7

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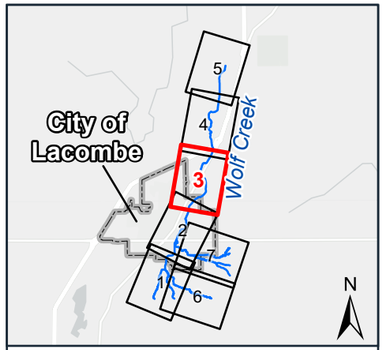

STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

2-YEAR FLOOD INUNDATION EXTENT

2-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek u/s of RS 9,805 = 1.41 m^3/s
Wolf Creek d/s of RS 9,805 = 2.19 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

2-Year Open Water Flood Inundation Map

Lacombe Flood Study

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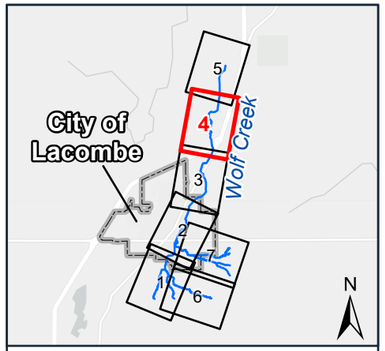
Classification: Public



STUDY LIMIT
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SECONDARY HIGHWAY
LOCAL ROAD
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2-YEAR FLOOD INUNDATION EXTENT

2-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek u/s of RS 5,303 = 2.19 m^3/s
Wolf Creek d/s of RS 5,303 = 2.74 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

2-Year Open Water Flood Inundation Map

Lacombe Flood Study

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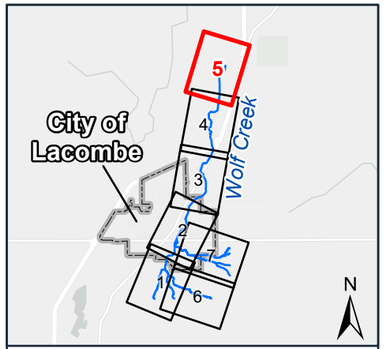
SHEET 4 ↑



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY
2-YEAR FLOOD INUNDATION EXTENT
2-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek = 2.74 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

2-Year Open Water Flood Inundation Map

Lacombe Flood Study

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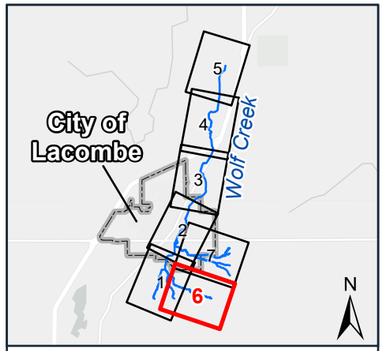

STUDY LIMIT
FLOW DIRECTION
BRIDGE
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SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

2-YEAR FLOOD INUNDATION EXTENT

2-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 2 = 0.18 m^3/s
Unnamed Tributary 3 = 0.18 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

2-Year Open Water Flood Inundation Map

Lacombe Flood Study

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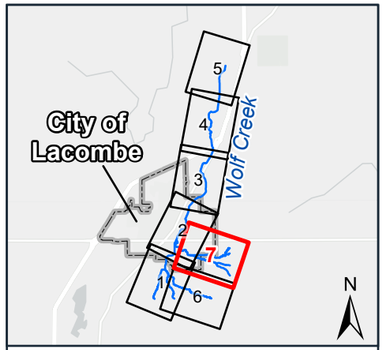

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- CITY OF LACOMBE BOUNDARY

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE

Unnamed Tributary 4 u/s of RS 1,740 = 0.15 m^3/s
Unnamed Tributary 4 d/s of RS 1,740 = 0.30 m^3/s
Unnamed Tributary 5 = 0.15 m^3/s
Unnamed Tributary 6 = 0.11 m^3/s
Wolf Creek u/s of RS 16,250 = 0.11 m^3/s
Wolf Creek RS 16,250 to 13,880 = 0.22 m^3/s
Wolf Creek RS 13,880 to 13,700 = 0.52 m^3/s
Wolf Creek d/s of RS 13,700 = 0.61 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

2-Year Open Water Flood Inundation Map

Lacombe Flood Study

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5-Year Flood Inundation Extent

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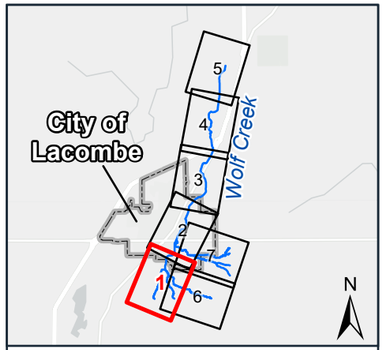

STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

5-YEAR FLOOD INUNDATION EXTENT

5-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 1 = 0.26 m^3/s
Unnamed Tributary 2 = 0.35 m^3/s
Unnamed Tributary 3 u/s of RS 2,380 = 0.35 m^3/s
Unnamed Tributary 3 RS 2,380 to 1,957 = 0.70 m^3/s
Unnamed Tributary 3 RS 1,957 = 0.96 m^3/s
Unnamed Tributary 3 d/s of RS 1,500 = 1.16 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

5-Year Open Water Flood Inundation Map

Lacombe Flood Study

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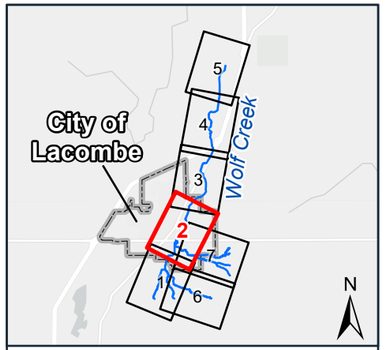

- STUDY LIMIT
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5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Unnamed Tributary 3 = 1.16 m^3/s
Unnamed Tributary 4 = 0.59 m^3/s
Wolf Creek u/s of RS 13,880 = 0.44 m^3/s
Wolf Creek RS 13,880 to 13,700 = 1.03 m^3/s
Wolf Creek RS 13,700 to 12,220 = 1.21 m^3/s
Wolf Creek RS 12,220 to 11,767 = 2.36 m^3/s
Wolf Creek d/s of RS 11,767 = 2.78 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

5-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 2 OF 7

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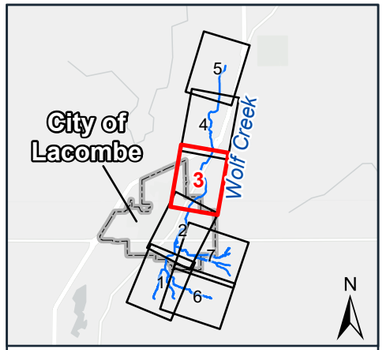

- STUDY LIMIT
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- CITY OF LACOMBE BOUNDARY

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE

Wolf Creek u/s of RS 9,805 = 2.78 m^3/s

Wolf Creek d/s of RS 9,805 = 4.46 m^3/s

0 100 200 300

Metres

Scale: 1:10,000

N

5-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 3 OF 7

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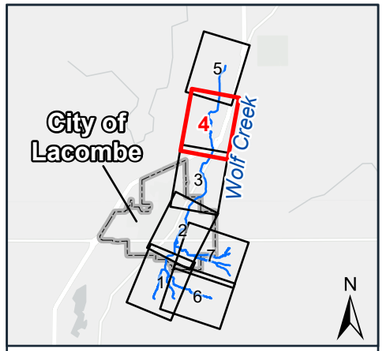

STUDY LIMIT
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CITY OF LACOMBE BOUNDARY

5-YEAR FLOOD INUNDATION EXTENT

5-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek u/s of RS 5,303 = 4.46 m^3/s
Wolf Creek d/s of RS 5,303 = 5.68 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

5-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 4 OF 7

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Classification: Public

SHEET 4 ↑

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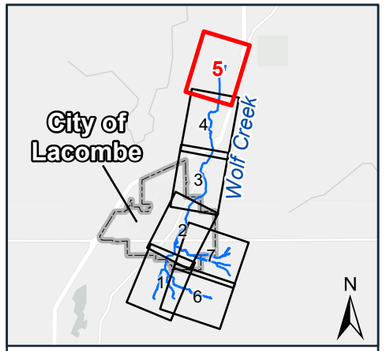

STUDY LIMIT
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SECONDARY HIGHWAY
LOCAL ROAD
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5-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek = 5.68 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

5-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 5 OF 7

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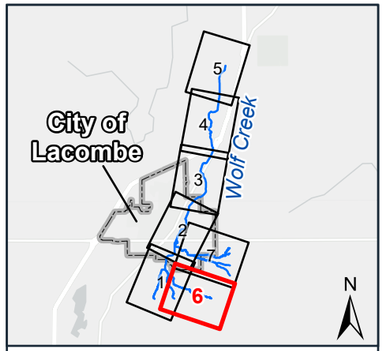

SHEET 1 ↓

- STUDY LIMIT
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- SECONDARY HIGHWAY
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- STREAM CENTERLINE
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- CITY OF LACOMBE BOUNDARY

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Unnamed Tributary 2 = 0.35 m^3/s
Unnamed Tributary 3 = 0.35 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

5-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 6 OF 7

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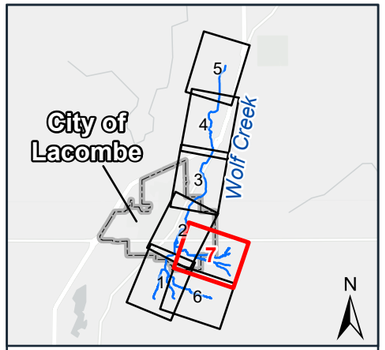

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5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE

Unnamed Tributary 4 u/s of RS 1,740 = 0.29 m^3/s
Unnamed Tributary 4 d/s of RS 1,740 = 0.59 m^3/s
Unnamed Tributary 5 = 0.29 m^3/s
Unnamed Tributary 6 = 0.22 m^3/s
Wolf Creek u/s of RS 16,250 = 0.22 m^3/s
Wolf Creek RS 16,250 to 13,880 = 0.44 m^3/s
Wolf Creek RS 13,880 to 13,700 = 1.03 m^3/s
Wolf Creek d/s of RS 13,700 = 1.21 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

5-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 7 OF 7

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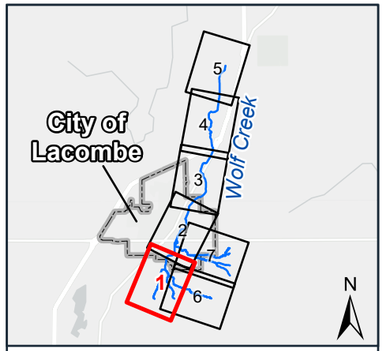
10-Year Flood Inundation Extent

DRAFT

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

10-YEAR FLOOD INUNDATION EXTENT

10-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 1 = 0.38 m^3/s
Unnamed Tributary 2 = 0.51 m^3/s
Unnamed Tributary 3 u/s of RS 2,380 = 0.51 m^3/s
Unnamed Tributary 3 RS 2,380 to 1,957 = 1.02 m^3/s
Unnamed Tributary 3 RS 1,957 = 1.40 m^3/s
Unnamed Tributary 3 d/s of RS 1,500 = 1.69 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

10-Year Open Water Flood Inundation Map

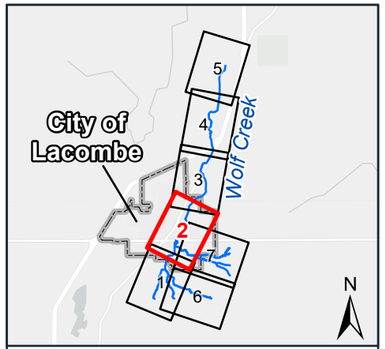
Lacombe Flood Study

SHEET 1 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 10-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

10-YEAR FLOOD INUNDATION EXTENT

10-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Unnamed Tributary 3 = 1.69 m^3/s
Unnamed Tributary 4 = 0.86 m^3/s
Wolf Creek u/s of RS 13,880 = 0.64 m^3/s
Wolf Creek RS 13,880 to 13,700 = 1.50 m^3/s
Wolf Creek RS 13,700 to 12,220 = 1.76 m^3/s
Wolf Creek RS 12,220 to 11,767 = 3.44 m^3/s
Wolf Creek d/s of RS 11,767 = 4.06 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

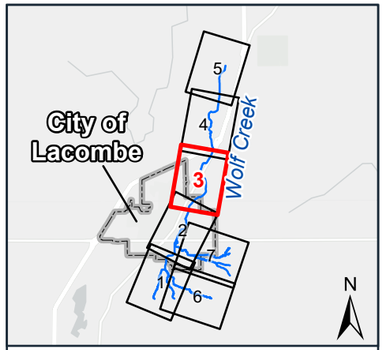
10-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 2 OF 7

BARR

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

10-YEAR FLOOD INUNDATION EXTENT

10-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek u/s of RS 9,805 = 4.06 m^3/s
Wolf Creek d/s of RS 9,805 = 6.61 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

10-Year Open Water Flood Inundation Map

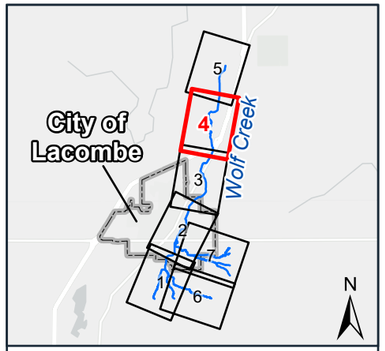
Lacombe Flood Study

SHEET 3 OF 7

BARR

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:29 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 10-Year Flood Inundation Map User: EMA

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

10-YEAR FLOOD INUNDATION EXTENT

10-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek u/s of RS 5,303 = 6.61 m^3/s
Wolf Creek d/s of RS 5,303 = 8.50 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

10-Year Open Water Flood Inundation Map

Lacombe Flood Study

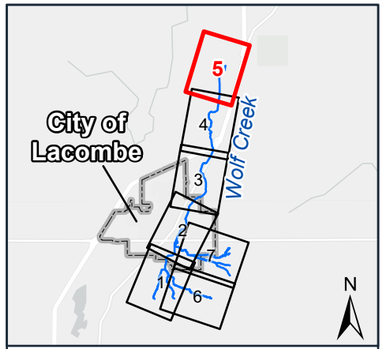
SHEET 4 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 10-Year Flood Inundation Map User: EMA

SHEET 4 ↑



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

10-YEAR FLOOD INUNDATION EXTENT

10-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek = 8.50 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

10-Year Open Water Flood Inundation Map

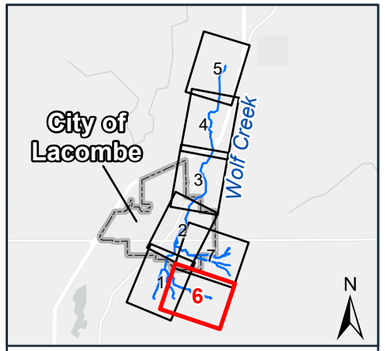
Lacombe Flood Study

SHEET 5 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 10-Year Flood Inundation Map User: EMA



SHEET 1 ↓

- STUDY LIMIT
- FLOW DIRECTION
- BRIDGE
- CULVERT
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- LOCAL ROAD
- RAILWAY
- STREAM CENTERLINE
- 2D MODEL PROFILE STATION
- CITY OF LACOMBE BOUNDARY

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Unnamed Tributary 2 = 0.51 m^3/s
Unnamed Tributary 3 = 0.51 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

10-Year Open Water Flood Inundation Map

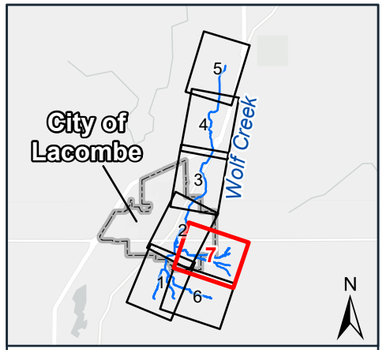
Lacombe Flood Study

SHEET 6 OF 7

BARR

Barr Footer: ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 10-Year Flood Inundation Map User: EMA

Classification: Public



- STUDY LIMIT
- FLOW DIRECTION
- BRIDGE
- CULVERT
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- LOCAL ROAD
- RAILWAY
- STREAM CENTERLINE
- 2D MODEL PROFILE STATION
- CITY OF LACOMBE BOUNDARY

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE

Unnamed Tributary 4 u/s of RS 1,740 = 0.43 m^3/s
Unnamed Tributary 4 d/s of RS 1,740 = 0.86 m^3/s
Unnamed Tributary 5 = 0.43 m^3/s
Unnamed Tributary 6 = 0.32 m^3/s
Wolf Creek u/s of RS 16,250 = 0.32 m^3/s
Wolf Creek RS 16,250 to 13,880 = 0.64 m^3/s
Wolf Creek RS 13,880 to 13,700 = 1.50 m^3/s
Wolf Creek d/s of RS 13,700 = 1.76 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

10-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 7 OF 7

BARR

DRAFT

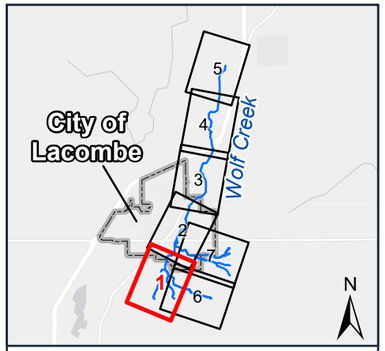
Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 10-Year Flood Inundation Map User: EMA

20-Year Flood Inundation Extent

DRAFT

Classification: Public



- STUDY LIMIT
- FLOW DIRECTION
- BRIDGE
- CULVERT
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- LOCAL ROAD
- RAILWAY
- STREAM CENTERLINE
- 2D MODEL PROFILE STATION
- CITY OF LACOMBE BOUNDARY

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Unnamed Tributary 1 = 0.53 m^3/s
Unnamed Tributary 2 = 0.71 m^3/s
Unnamed Tributary 3 u/s of RS 2,380 = 0.71 m^3/s
Unnamed Tributary 3 RS 2,380 to 1,957 = 1.42 m^3/s
Unnamed Tributary 3 RS 1,957 = 1.95 m^3/s
Unnamed Tributary 3 d/s of RS 1,500 = 2.34 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

20-Year Open Water Flood Inundation Map

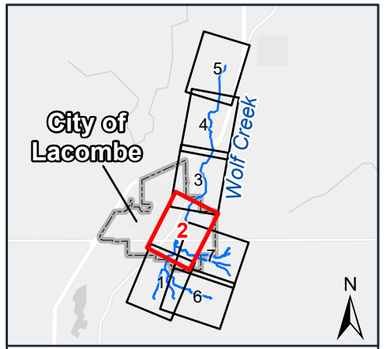
Lacombe Flood Study

SHEET 1 OF 7

BARR

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 20-Year Flood Inundation Map User: EMA

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

20-YEAR FLOOD INUNDATION EXTENT

20-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Unnamed Tributary 3 = 2.34 m^3/s
Unnamed Tributary 4 = 1.19 m^3/s
Wolf Creek u/s of RS 13,880 = 0.88 m^3/s
Wolf Creek RS 13,880 to 13,700 = 2.07 m^3/s
Wolf Creek RS 13,700 to 12,220 = 2.44 m^3/s
Wolf Creek RS 12,220 to 11,767 = 4.79 m^3/s
Wolf Creek d/s of RS 11,767 = 5.64 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

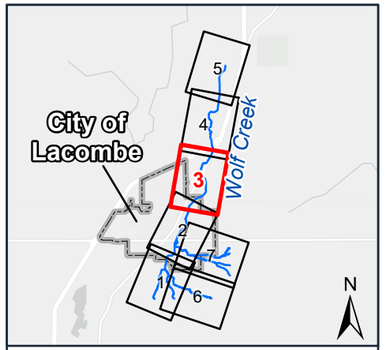
20-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 2 OF 7

BARR

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

20-YEAR FLOOD INUNDATION EXTENT

20-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek u/s of RS 9,805 = 5.64 m^3/s
Wolf Creek d/s of RS 9,805 = 9.28 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

20-Year Open Water Flood Inundation Map

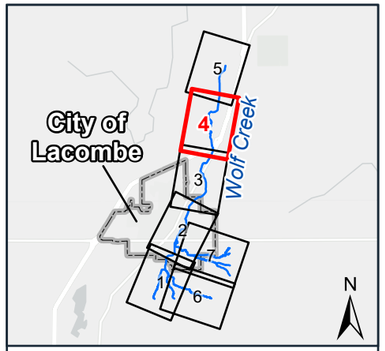
Lacombe Flood Study

SHEET 3 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 20-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

20-YEAR FLOOD INUNDATION EXTENT

20-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek u/s of RS 5,303 = 9.28 m^3/s
Wolf Creek d/s of RS 5,303 = 12.01 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

20-Year Open Water Flood Inundation Map

Lacombe Flood Study

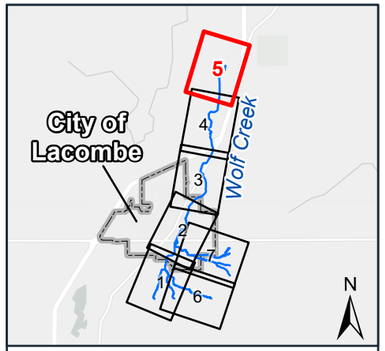
SHEET 4 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 20-Year Flood Inundation Map User: EMA

SHEET 4 ↑



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

20-YEAR FLOOD INUNDATION EXTENT

20-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek = 12.01 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

20-Year Open Water Flood Inundation Map

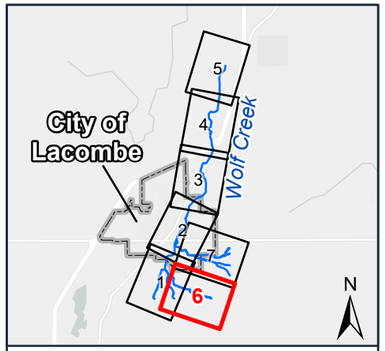
Lacombe Flood Study

SHEET 5 OF 7

BARR

Barr Footer: ArcGISPro 3.3.2, 2025-03-19 11:28 File: t:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 20-Year Flood Inundation Map User: EMA

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

20-YEAR FLOOD INUNDATION EXTENT

20-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 2 = 0.71 m^3/s
Unnamed Tributary 3 = 0.71 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

20-Year Open Water Flood Inundation Map

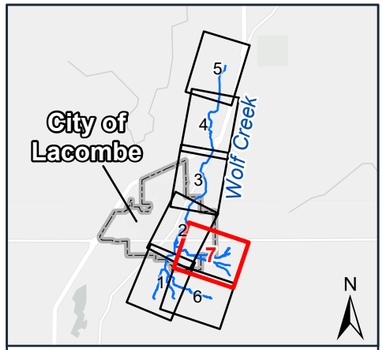
Lacombe Flood Study

SHEET 6 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 20-Year Flood Inundation Map User: EMA



- STUDY LIMIT
- FLOW DIRECTION
- BRIDGE
- CULVERT
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- LOCAL ROAD
- RAILWAY
- STREAM CENTERLINE
- 2D MODEL PROFILE STATION
- CITY OF LACOMBE BOUNDARY

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE

Unnamed Tributary 4 u/s of RS 1,740 = 0.61 m^3/s
Unnamed Tributary 4 d/s of RS 1,740 = 1.19 m^3/s
Unnamed Tributary 5 = 0.60 m^3/s
Unnamed Tributary 6 = 0.44 m^3/s
Wolf Creek u/s of RS 16,250 = 0.44 m^3/s
Wolf Creek RS 16,250 to 13,880 = 0.88 m^3/s
Wolf Creek RS 13,880 to 13,700 = 2.07 m^3/s
Wolf Creek d/s of RS 13,700 = 2.44 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

20-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 7 OF 7

BARR

DRAFT

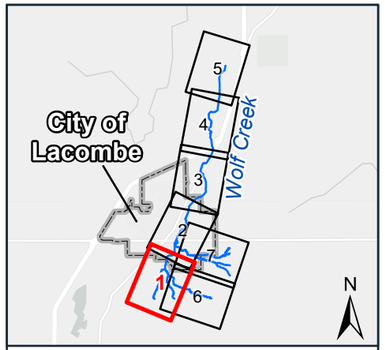
Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 20-Year Flood Inundation Map User: EMA

35-Year Flood Inundation Extent

DRAFT

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

35-YEAR FLOOD INUNDATION EXTENT

35-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 1 = 0.68 m^3/s
Unnamed Tributary 2 = 0.90 m^3/s
Unnamed Tributary 3 u/s of RS 2,380 = 0.90 m^3/s
Unnamed Tributary 3 RS 2,380 to 1,957 = 1.80 m^3/s
Unnamed Tributary 3 RS 1,957 = 2.48 m^3/s
Unnamed Tributary 3 d/s of RS 1,500 = 2.96 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

35-Year Open Water Flood Inundation Map

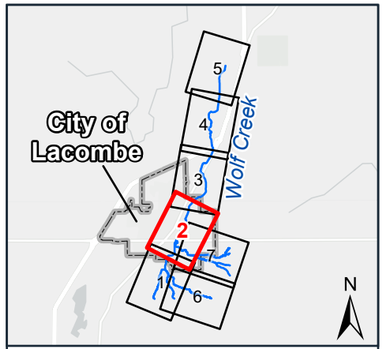
Lacombe Flood Study

SHEET 1 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 35-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

35-YEAR FLOOD INUNDATION EXTENT

35-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Unnamed Tributary 3 = 2.96 m^3/s
Unnamed Tributary 4 = 1.50 m^3/s
Wolf Creek u/s of RS 13,880 = 1.12 m^3/s
Wolf Creek RS 13,880 to 13,700 = 2.62 m^3/s
Wolf Creek RS 13,700 to 12,220 = 3.09 m^3/s
Wolf Creek RS 12,220 to 11,767 = 6.04 m^3/s
Wolf Creek d/s of RS 11,767 = 7.12 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

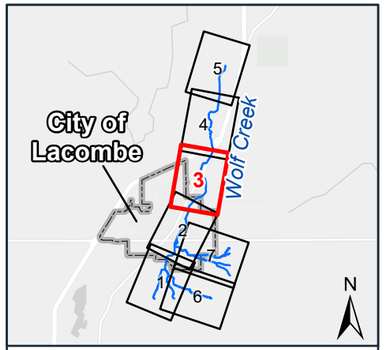
35-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 2 OF 7

BARR

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

35-YEAR FLOOD INUNDATION EXTENT

35-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek u/s of RS 9,805 = 7.12 m^3/s
Wolf Creek d/s of RS 9,805 = 11.83 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

35-Year Open Water Flood Inundation Map

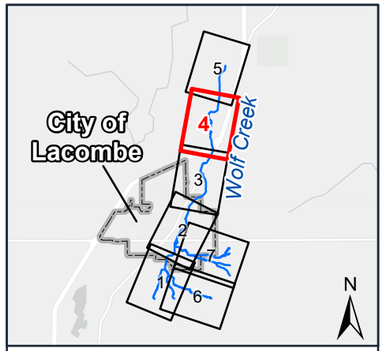
Lacombe Flood Study

SHEET 3 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 35-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

35-YEAR FLOOD INUNDATION EXTENT

35-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek u/s of RS 5,303 = 11.83 m^3/s
Wolf Creek d/s of RS 5,303 = 15.39 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

35-Year Open Water Flood Inundation Map

Lacombe Flood Study

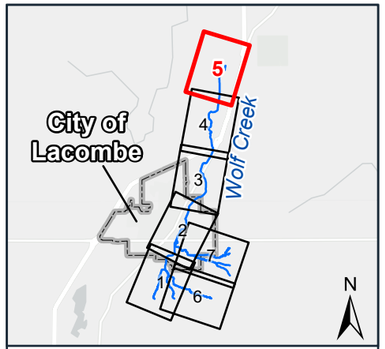
SHEET 4 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 35-Year Flood Inundation Map User: EMA

SHEET 4 ↑



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

35-YEAR FLOOD INUNDATION EXTENT

35-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek = 15.39 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

35-Year Open Water Flood Inundation Map

Lacombe Flood Study

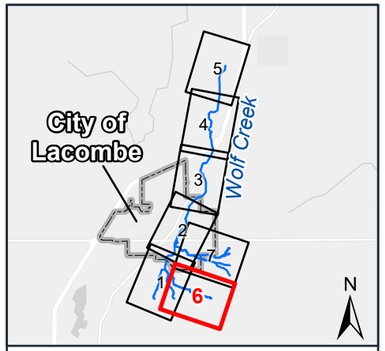
SHEET 5 OF 7

BARR

DRAFT

Classification: Public

Barr Footer: ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61013343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 35-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

35-YEAR FLOOD INUNDATION EXTENT

35-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 2 = 0.90 m^3/s
Unnamed Tributary 3 = 0.90 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

35-Year Open Water Flood Inundation Map

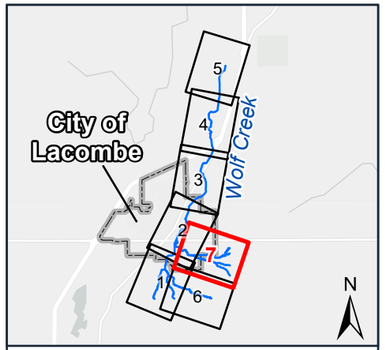
Lacombe Flood Study

SHEET 6 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 35-Year Flood Inundation Map User: EMA



- STUDY LIMIT
- FLOW DIRECTION
- BRIDGE
- CULVERT
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- LOCAL ROAD
- RAILWAY
- STREAM CENTERLINE
- 2D MODEL PROFILE STATION
- CITY OF LACOMBE BOUNDARY

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE

Unnamed Tributary 4 u/s of RS 1,740 = 0.75 m^3/s
Unnamed Tributary 4 d/s of RS 1,740 = 1.50 m^3/s
Unnamed Tributary 5 = 0.75 m^3/s
Unnamed Tributary 6 = 0.56 m^3/s
Wolf Creek u/s of RS 16,250 = 0.56 m^3/s
Wolf Creek RS 16,250 to 13,880 = 1.12 m^3/s
Wolf Creek RS 13,880 to 13,700 = 2.62 m^3/s
Wolf Creek d/s of RS 13,700 = 3.09 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

35-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 7 OF 7

BARR

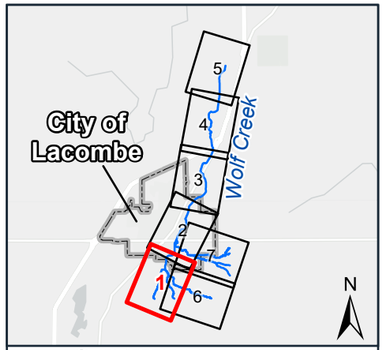
Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 35-Year Flood Inundation Map User: EMA

50-Year Flood Inundation Extent

DRAFT

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

50-YEAR FLOOD INUNDATION EXTENT

50-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 1 = 0.77 m^3/s
Unnamed Tributary 2 = 1.03 m^3/s
Unnamed Tributary 3 u/s of RS 2,380 = 1.03 m^3/s
Unnamed Tributary 3 RS 2,380 to 1,957 = 2.06 m^3/s
Unnamed Tributary 3 RS 1,957 = 2.83 m^3/s
Unnamed Tributary 3 d/s of RS 1,500 = 3.39 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

50-Year Open Water Flood Inundation Map

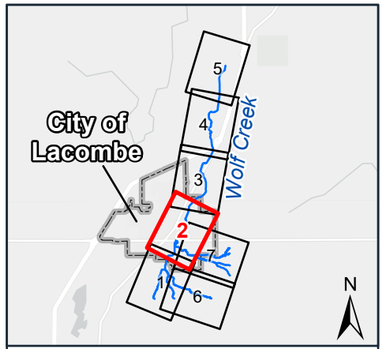
Lacombe Flood Study

SHEET 1 OF 7

BARR

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 50-Year Flood Inundation Map User: EMA

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

50-YEAR FLOOD INUNDATION EXTENT

50-YEAR FLOOD EXTENT
50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

Alberta
Canada

DISCHARGE
Unnamed Tributary 3 = 3.39 m^3/s
Unnamed Tributary 4 = 1.72 m^3/s
Wolf Creek u/s of RS 13,880 = 1.28 m^3/s
Wolf Creek RS 13,880 to 13,700 = 3.00 m^3/s
Wolf Creek RS 13,700 to 12,220 = 3.53 m^3/s
Wolf Creek RS 12,220 to 11,767 = 6.92 m^3/s
Wolf Creek d/s of RS 11,767 = 8.15 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

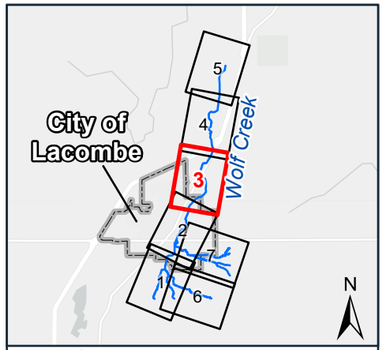
50-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 2 OF 7

BARR

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

50-YEAR FLOOD INUNDATION EXTENT

50-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek u/s of RS 9,805 = 8.15 m^3/s
Wolf Creek d/s of RS 9,805 = 13.63 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

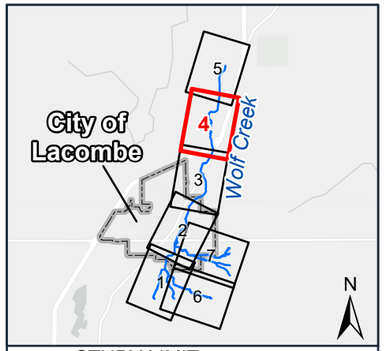
50-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 3 OF 7

BARR

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

50-YEAR FLOOD INUNDATION EXTENT

50-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek u/s of RS 5,303 = 13.63 m^3/s
Wolf Creek d/s of RS 5,303 = 17.78 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

50-Year Open Water Flood Inundation Map

Lacombe Flood Study

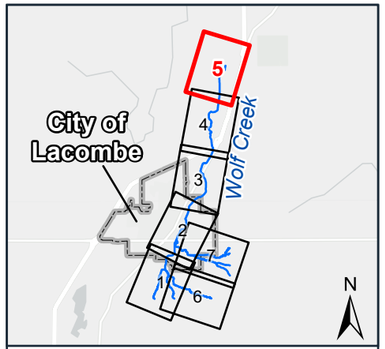
SHEET 4 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Map Layout 50-Year Flood Inundation Map User: EMA

SHEET 4 ↑



- STUDY LIMIT
- FLOW DIRECTION
- BRIDGE
- CULVERT
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- LOCAL ROAD
- RAILWAY
- STREAM CENTERLINE
- CITY OF LACOMBE BOUNDARY

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek = 17.78 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

50-Year Open Water Flood Inundation Map

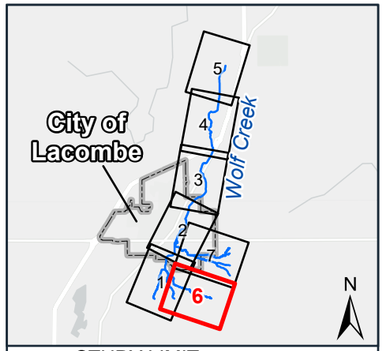
Lacombe Flood Study

SHEET 5 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 50-Year Flood Inundation Map User: EMA



- STUDY LIMIT
- FLOW DIRECTION
- BRIDGE
- CULVERT
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- LOCAL ROAD
- RAILWAY
- STREAM CENTERLINE
- 2D MODEL PROFILE STATION
- CITY OF LACOMBE BOUNDARY

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Unnamed Tributary 2 = 1.03 m^3/s
Unnamed Tributary 3 = 1.03 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

50-Year Open Water Flood Inundation Map

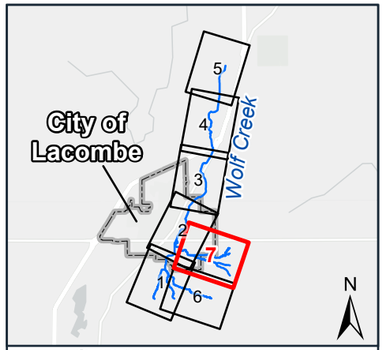
Lacombe Flood Study

SHEET 6 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 50-Year Flood Inundation Map User: EMA



- STUDY LIMIT
- FLOW DIRECTION
- BRIDGE
- CULVERT
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- LOCAL ROAD
- RAILWAY
- STREAM CENTERLINE
- 2D MODEL PROFILE STATION
- CITY OF LACOMBE BOUNDARY

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

Alberta

Canada

DISCHARGE

Unnamed Tributary 4 u/s of RS 1,740 = 0.86 m^3/s
Unnamed Tributary 4 d/s of RS 1,740 = 1.72 m^3/s
Unnamed Tributary 5 = 0.86 m^3/s
Unnamed Tributary 6 = 0.64 m^3/s
Wolf Creek u/s of RS 16,250 = 0.64 m^3/s
Wolf Creek RS 16,250 to 13,880 = 1.28 m^3/s
Wolf Creek RS 13,880 to 13,700 = 3.00 m^3/s
Wolf Creek d/s of RS 13,700 = 3.53 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

50-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 7 OF 7

BARR

DRAFT

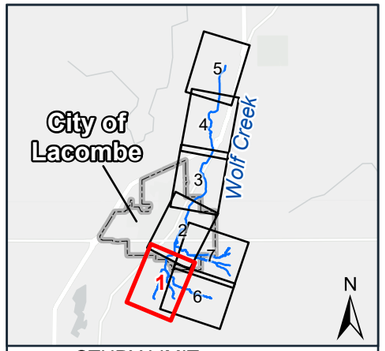
Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 50-Year Flood Inundation Map User: EMA

75-Year Flood Inundation Extent

DRAFT

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

75-YEAR FLOOD INUNDATION EXTENT

75-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 1 = 0.91 m^3/s
Unnamed Tributary 2 = 1.21 m^3/s
Unnamed Tributary 3 u/s of RS 2,380 = 1.21 m^3/s
Unnamed Tributary 3 RS 2,380 to 1,957 = 2.42 m^3/s
Unnamed Tributary 3 RS 1,957 = 3.33 m^3/s
Unnamed Tributary 3 d/s of RS 1,500 = 3.99 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

75-Year Open Water Flood Inundation Map

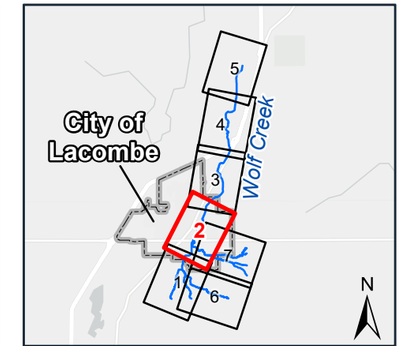
Lacombe Flood Study

SHEET 1 OF 7

BARR

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Map Layout, 75-Year Flood Inundation Map User: EMA

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

75-YEAR FLOOD INUNDATION EXTENT

75-YEAR FLOOD EXTENT
75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

Alberta
Canada

DISCHARGE
Unnamed Tributary 3 = 3.99 m^3/s
Unnamed Tributary 4 = 2.03 m^3/s
Wolf Creek u/s of RS 13,880 = 1.52 m^3/s
Wolf Creek RS 13,880 to 13,700 = 3.54 m^3/s
Wolf Creek RS 13,700 to 12,220 = 4.16 m^3/s
Wolf Creek RS 12,220 to 11,767 = 8.14 m^3/s
Wolf Creek d/s of RS 11,767 = 9.59 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

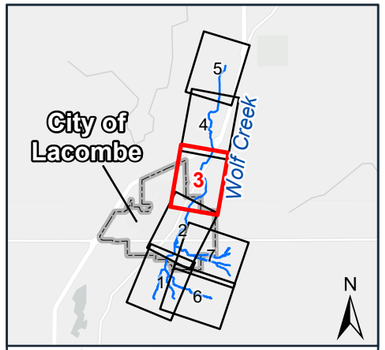
75-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 2 OF 7

BARR

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

75-YEAR FLOOD INUNDATION EXTENT

75-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek u/s of RS 9,805 = 9.59 m^3/s
Wolf Creek d/s of RS 9,805 = 16.12 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

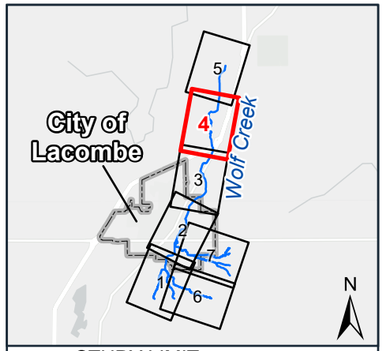
75-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 3 OF 7

BARR

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

75-YEAR FLOOD INUNDATION EXTENT

75-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek u/s of RS 5,303 = 16.12 m^3/s
Wolf Creek d/s of RS 5,303 = 21.10 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

75-Year Open Water Flood Inundation Map

Lacombe Flood Study

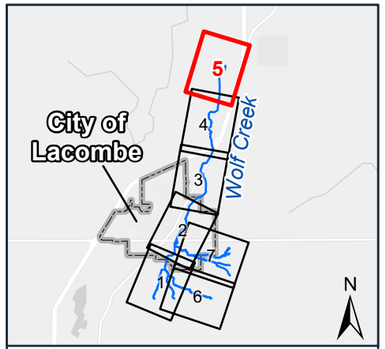
SHEET 4 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 75-Year Flood Inundation Map User: EMA

SHEET 4 ↑



- STUDY LIMIT
- FLOW DIRECTION
- BRIDGE
- CULVERT
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- LOCAL ROAD
- RAILWAY
- STREAM CENTERLINE
- CITY OF LACOMBE BOUNDARY

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek = 21.10 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

75-Year Open Water Flood Inundation Map

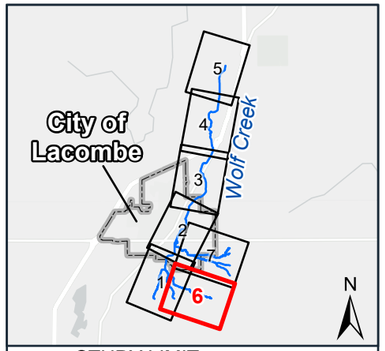
Lacombe Flood Study

SHEET 5 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 75-Year Flood Inundation Map User: EMA



SHEET 1 ↓

STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

75-YEAR FLOOD INUNDATION EXTENT

75-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 2 = 1.21 m^3/s
Unnamed Tributary 3 = 1.21 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

75-Year Open Water Flood Inundation Map

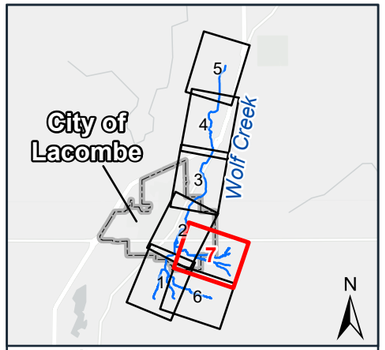
Lacombe Flood Study

SHEET 6 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 75-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

75-YEAR FLOOD INUNDATION EXTENT

75-YEAR FLOOD EXTENT
75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

SHEET 2 →

Alberta
Canada

DISCHARGE
Unnamed Tributary 4 u/s of RS 1,740 = 1.01 m^3/s
Unnamed Tributary 4 d/s of RS 1,740 = 2.03 m^3/s
Unnamed Tributary 5 = 1.01 m^3/s
Unnamed Tributary 6 = 0.76 m^3/s
Wolf Creek u/s of RS 16,250 = 0.76 m^3/s
Wolf Creek RS 16,250 to 13,880 = 1.52 m^3/s
Wolf Creek RS 13,880 to 13,700 = 3.54 m^3/s
Wolf Creek d/s of RS 13,700 = 4.16 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

75-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 7 OF 7

BARR

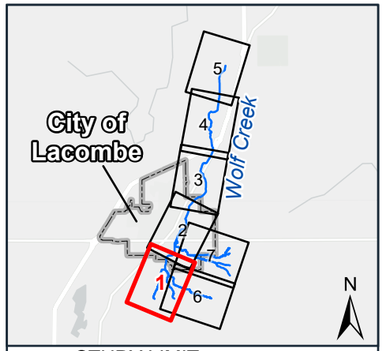
Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 75-Year Flood Inundation Map User: EMA

100-Year Flood Inundation Extent

DRAFT

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

100-YEAR FLOOD INUNDATION EXTENT

100-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 1 = 1.01 m^3/s
Unnamed Tributary 2 = 1.34 m^3/s
Unnamed Tributary 3 u/s of RS 2,380 = 1.34 m^3/s
Unnamed Tributary 3 RS 2,380 to 1,957 = 2.68 m^3/s
Unnamed Tributary 3 RS 1,957 = 3.69 m^3/s
Unnamed Tributary 3 d/s of RS 1,500 = 4.41 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

100-Year Open Water Flood Inundation Map

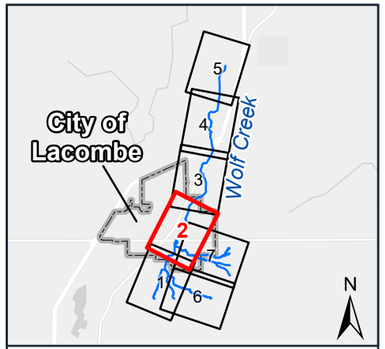
Lacombe Flood Study

SHEET 1 OF 7

BARR

Barr Footer: ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\b10113\43_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 100-Year Flood Inundation Map User: EMA

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

100-YEAR FLOOD INUNDATION EXTENT

100-YEAR FLOOD EXTENT
100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

Alberta
Canada

DISCHARGE
Unnamed Tributary 3 = 4.41 m^3/s
Unnamed Tributary 4 = 2.24 m^3/s
Wolf Creek u/s of RS 13,880 = 1.68 m^3/s
Wolf Creek RS 13,880 to 13,700 = 3.92 m^3/s
Wolf Creek RS 13,700 to 12,220 = 4.61 m^3/s
Wolf Creek RS 12,220 to 11,767 = 9.02 m^3/s
Wolf Creek d/s of RS 11,767 = 10.62 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

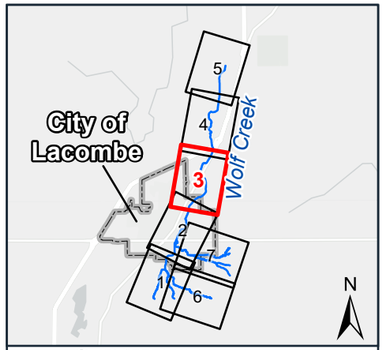
100-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 2 OF 7

BARR

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

100-YEAR FLOOD INUNDATION EXTENT

100-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek u/s of RS 9,805 = 10.62 m^3/s
Wolf Creek d/s of RS 9,805 = 17.91 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

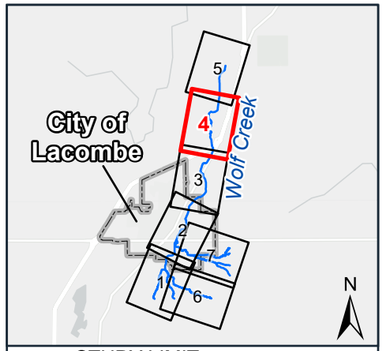
100-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 3 OF 7

BARR

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

100-YEAR FLOOD INUNDATION EXTENT

100-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek u/s of RS 5,303 = 17.91 m^3/s
Wolf Creek d/s of RS 5,303 = 23.48 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

100-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 4 OF 7

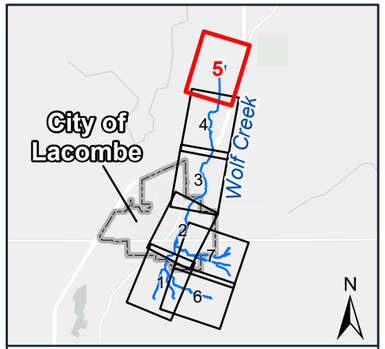
BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 100-Year Flood Inundation Map User: EMA

SHEET 4 ↑

DRAFT



- STUDY LIMIT
- FLOW DIRECTION
- BRIDGE
- CULVERT
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- LOCAL ROAD
- RAILWAY
- STREAM CENTERLINE
- CITY OF LACOMBE BOUNDARY

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek = 23.48 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

100-Year Open Water Flood Inundation Map

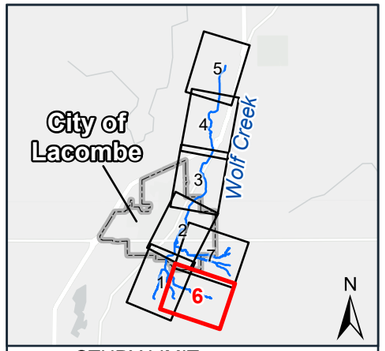
Lacombe Flood Study

SHEET 5 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 100-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

100-YEAR FLOOD INUNDATION EXTENT

100-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 2 = 1.34 m^3/s
Unnamed Tributary 3 = 1.34 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

100-Year Open Water Flood Inundation Map

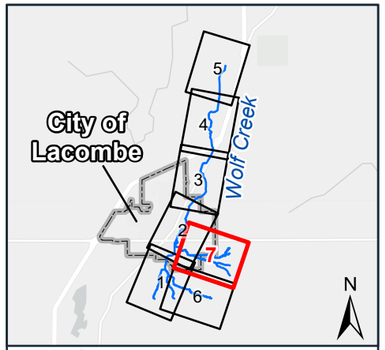
Lacombe Flood Study

SHEET 6 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Map User: EMA



- STUDY LIMIT
- FLOW DIRECTION
- BRIDGE
- CULVERT
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- LOCAL ROAD
- RAILWAY
- STREAM CENTERLINE
- 2D MODEL PROFILE STATION
- CITY OF LACOMBE BOUNDARY

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

Alberta

Canada

DISCHARGE

Unnamed Tributary 4 u/s of RS 1,740 = 1.12 m^3/s
Unnamed Tributary 4 d/s of RS 1,740 = 2.24 m^3/s
Unnamed Tributary 5 = 1.12 m^3/s
Unnamed Tributary 6 = 0.84 m^3/s
Wolf Creek u/s of RS 16,250 = 0.84 m^3/s
Wolf Creek RS 16,250 to 13,880 = 1.68 m^3/s
Wolf Creek RS 13,880 to 13,700 = 3.92 m^3/s
Wolf Creek d/s of RS 13,700 = 4.61 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

100-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 7 OF 7

BARR

DRAFT

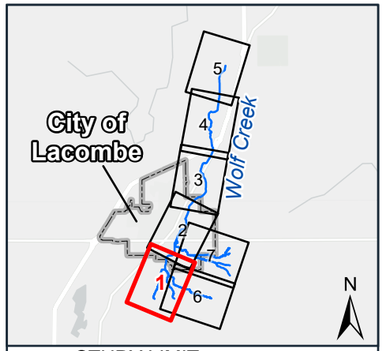
Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 100-Year Flood Inundation Map User: EMA

200-Year Flood Inundation Extent

DRAFT

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

200-YEAR FLOOD INUNDATION EXTENT

200-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 1 = 1.28 m^3/s
Unnamed Tributary 2 = 1.70 m^3/s
Unnamed Tributary 3 u/s of RS 2,380 = 1.70 m^3/s
Unnamed Tributary 3 RS 2,380 to 1,957 = 3.40 m^3/s
Unnamed Tributary 3 RS 1,957 = 4.68 m^3/s
Unnamed Tributary 3 d/s of RS 1,500 = 5.59 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

200-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 1 OF 7

BARR

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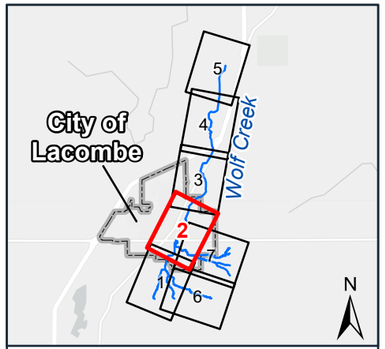
Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

200-YEAR FLOOD INUNDATION EXTENT

200-YEAR FLOOD EXTENT
200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

Alberta
Canada

DISCHARGE
Unnamed Tributary 3 = 5.59 m^3/s
Unnamed Tributary 4 = 2.84 m^3/s
Wolf Creek u/s of RS 13,880 = 2.12 m^3/s
Wolf Creek RS 13,880 to 13,700 = 4.96 m^3/s
Wolf Creek RS 13,700 to 12,220 = 5.83 m^3/s
Wolf Creek RS 12,220 to 11,767 = 11.42 m^3/s
Wolf Creek d/s of RS 11,767 = 13.45 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

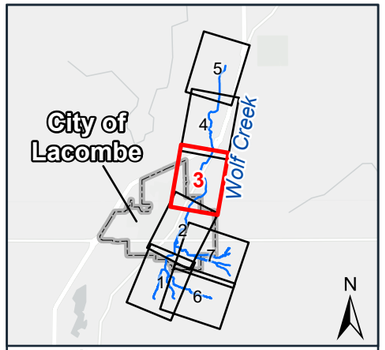
200-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 2 OF 7

BARR

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

200-YEAR FLOOD INUNDATION EXTENT

200-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek u/s of RS 9,805 = 13.45 m^3/s
Wolf Creek d/s of RS 9,805 = 22.89 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

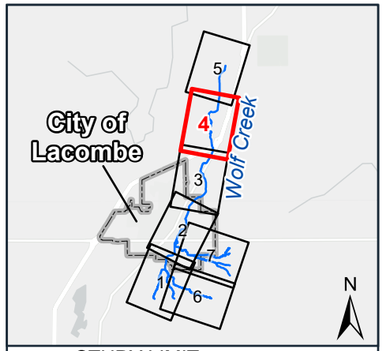
200-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 3 OF 7

BARR

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

200-YEAR FLOOD INUNDATION EXTENT

200-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek u/s of RS 5,303 = 22.89 m^3/s
Wolf Creek d/s of RS 5,303 = 30.16 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

200-Year Open Water Flood Inundation Map

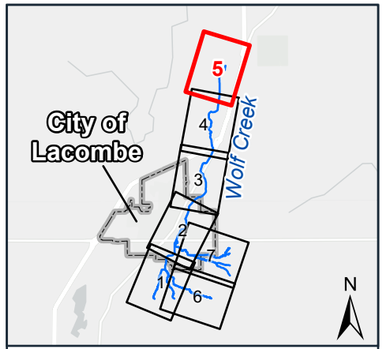
Lacombe Flood Study

SHEET 4 OF 7

BARR

Classification: Public

SHEET 4 ↑



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

200-YEAR FLOOD INUNDATION EXTENT

200-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek = 30.16 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

200-Year Open Water Flood Inundation Map

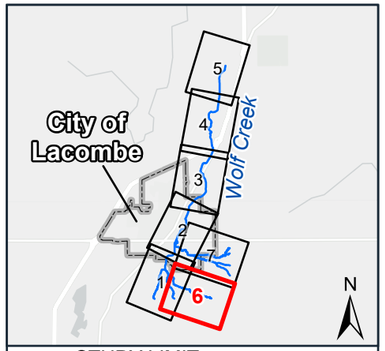
Lacombe Flood Study

SHEET 5 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 200-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

200-YEAR FLOOD INUNDATION EXTENT

200-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 2 = 1.70 m^3/s
Unnamed Tributary 3 = 1.70 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

200-Year Open Water Flood Inundation Map

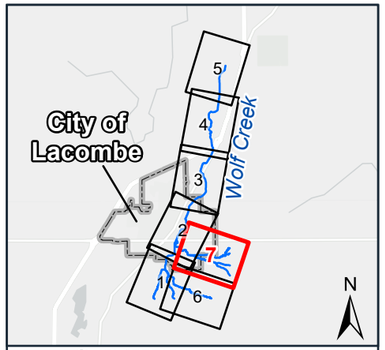
Lacombe Flood Study

SHEET 6 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 200-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

200-YEAR FLOOD INUNDATION EXTENT

200-YEAR FLOOD EXTENT
200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

Alberta
Canada

DISCHARGE
Unnamed Tributary 4 u/s of RS 1,740 = 1.42 m^3/s
Unnamed Tributary 4 d/s of RS 1,740 = 2.84 m^3/s
Unnamed Tributary 5 = 1.42 m^3/s
Unnamed Tributary 6 = 1.06 m^3/s
Wolf Creek u/s of RS 16,250 = 1.06 m^3/s
Wolf Creek RS 16,250 to 13,880 = 2.12 m^3/s
Wolf Creek RS 13,880 to 13,700 = 4.96 m^3/s
Wolf Creek d/s of RS 13,700 = 5.83 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

200-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 7 OF 7

BARR

DRAFT

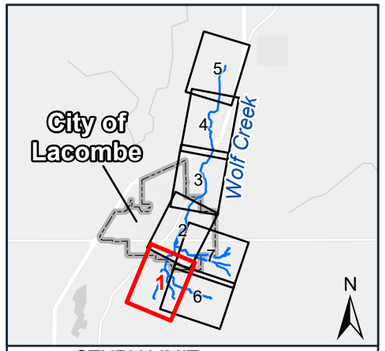
Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 200-Year Flood Inundation Map User: EMA

350-Year Flood Inundation Extent

DRAFT

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

350-YEAR FLOOD INUNDATION EXTENT

350-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Unnamed Tributary 1 = 1.51 m^3/s
Unnamed Tributary 2 = 2.02 m^3/s
Unnamed Tributary 3 u/s of RS 2,380 = 2.02 m^3/s
Unnamed Tributary 3 RS 2,380 to 1,957 = 4.04 m^3/s
Unnamed Tributary 3 RS 1,957 = 5.55 m^3/s
Unnamed Tributary 3 d/s of RS 1,500 = 6.64 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

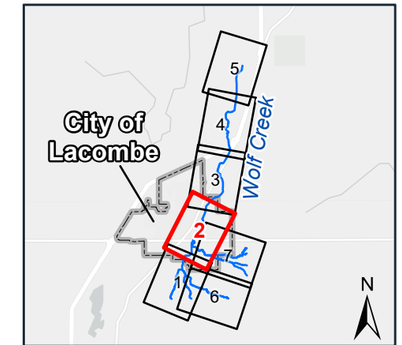
350-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 1 OF 7

BARR

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

350-YEAR FLOOD INUNDATION EXTENT

350-YEAR FLOOD EXTENT
350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

Alberta
Canada

DISCHARGE
Unnamed Tributary 3 = 6.64 m^3/s
Unnamed Tributary 4 = 3.37 m^3/s
Wolf Creek u/s of RS 13,880 = 2.52 m^3/s
Wolf Creek RS 13,880 to 13,700 = 5.89 m^3/s
Wolf Creek RS 13,700 to 12,220 = 6.93 m^3/s
Wolf Creek RS 12,220 to 11,767 = 13.56 m^3/s
Wolf Creek d/s of RS 11,767 = 15.97 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

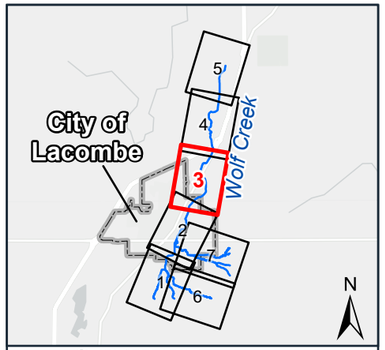
350-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 2 OF 7

BARR

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

350-YEAR FLOOD INUNDATION EXTENT

350-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek u/s of RS 9,805 = 15.97 m^3/s
Wolf Creek d/s of RS 9,805 = 27.38 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

350-Year Open Water Flood Inundation Map

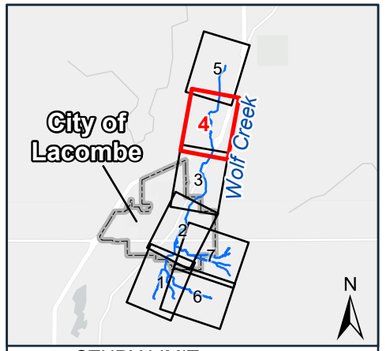
Lacombe Flood Study

SHEET 3 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 350-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

350-YEAR FLOOD INUNDATION EXTENT

350-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek u/s of RS 5,303 = 27.38 m^3/s
Wolf Creek d/s of RS 5,303 = 36.21 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

350-Year Open Water Flood Inundation Map

Lacombe Flood Study

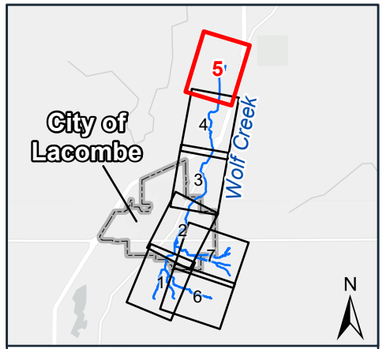
SHEET 4 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 350-Year Flood Inundation Map User: EMA

SHEET 4 ↑



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

350-YEAR FLOOD INUNDATION EXTENT

350-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek = 36.21 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

350-Year Open Water Flood Inundation Map

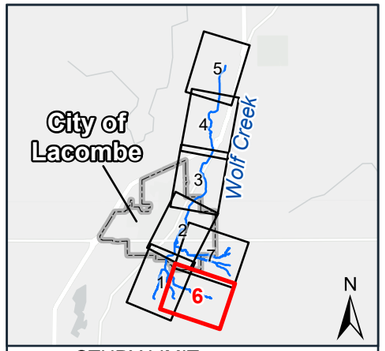
Lacombe Flood Study

SHEET 5 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 350-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

350-YEAR FLOOD INUNDATION EXTENT

350-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 2 = 2.02 m^3/s
Unnamed Tributary 3 = 2.02 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

350-Year Open Water Flood Inundation Map

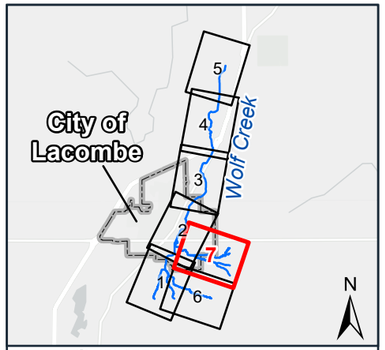
Lacombe Flood Study

SHEET 6 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 350-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

350-YEAR FLOOD INUNDATION EXTENT

350-YEAR FLOOD EXTENT
350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

Alberta
Canada

DISCHARGE
Unnamed Tributary 4 u/s of RS 1,740 = 1.69 m^3/s
Unnamed Tributary 4 d/s of RS 1,740 = 3.37 m^3/s
Unnamed Tributary 5 = 1.69 m^3/s
Unnamed Tributary 6 = 1.26 m^3/s
Wolf Creek u/s of RS 16,250 = 1.26 m^3/s
Wolf Creek RS 16,250 to 13,880 = 2.52 m^3/s
Wolf Creek RS 13,880 to 13,700 = 5.89 m^3/s
Wolf Creek d/s of RS 13,700 = 6.93 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

350-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 7 OF 7

BARR

DRAFT

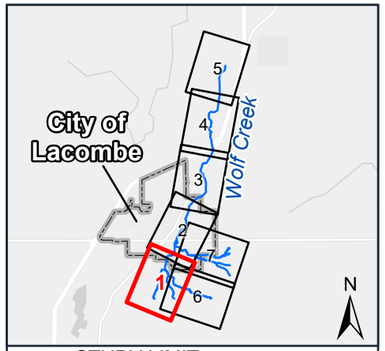
Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 350-Year Flood Inundation Map User: EMA

500-Year Flood Inundation Extent

DRAFT

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

500-YEAR FLOOD INUNDATION EXTENT

500-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 1 = 1.71 m^3/s
Unnamed Tributary 2 = 2.28 m^3/s
Unnamed Tributary 3 u/s of RS 2,380 = 2.28 m^3/s
Unnamed Tributary 3 RS 2,380 to 1,957 = 4.56 m^3/s
Unnamed Tributary 3 RS 1,957 = 6.27 m^3/s
Unnamed Tributary 3 d/s of RS 1,500 = 7.48 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

500-Year Open Water Flood Inundation Map

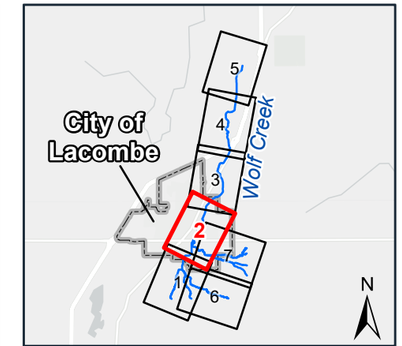
Lacombe Flood Study

SHEET 1 OF 7

BARR

Barr Footer: ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\b10113\43_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 500-Year Flood Inundation Map User: EMA

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

500-YEAR FLOOD INUNDATION EXTENT

500-YEAR FLOOD EXTENT
500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

Alberta
Canada

DISCHARGE
Unnamed Tributary 3 = 7.48 m^3/s
Unnamed Tributary 4 = 3.80 m^3/s
Wolf Creek u/s of RS 13,880 = 2.84 m^3/s
Wolf Creek RS 13,880 to 13,700 = 6.64 m^3/s
Wolf Creek RS 13,700 to 12,220 = 7.81 m^3/s
Wolf Creek RS 12,220 to 11,767 = 15.28 m^3/s
Wolf Creek d/s of RS 11,767 = 18.00 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

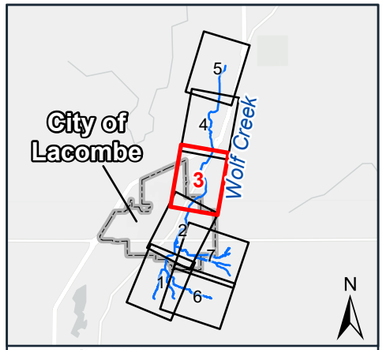
500-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 2 OF 7

BARR

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

500-YEAR FLOOD INUNDATION EXTENT

500-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek u/s of RS 9,805 = 18.00 m^3/s
Wolf Creek d/s of RS 9,805 = 31.01 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

500-Year Open Water Flood Inundation Map

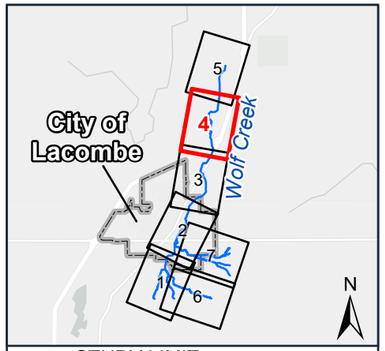
Lacombe Flood Study

SHEET 3 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 500-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

500-YEAR FLOOD INUNDATION EXTENT

500-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek u/s of RS 5,303 = 31.01 m^3/s
Wolf Creek d/s of RS 5,303 = 41.12 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

500-Year Open Water Flood Inundation Map

Lacombe Flood Study

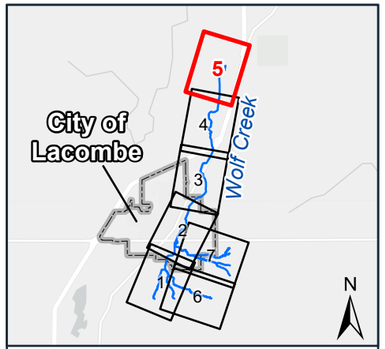
SHEET 4 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 500-Year Flood Inundation Map User: EMA

SHEET 4 ↑



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

500-YEAR FLOOD INUNDATION EXTENT

500-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek = 41.12 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

500-Year Open Water Flood Inundation Map

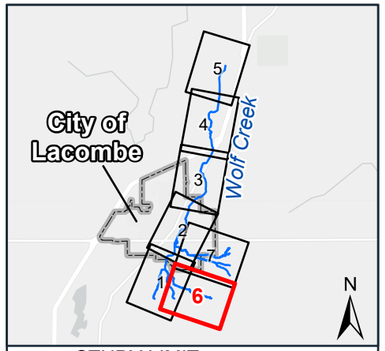
Lacombe Flood Study

SHEET 5 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 500-Year Flood Inundation Map User: EMA



- STUDY LIMIT
- FLOW DIRECTION
- BRIDGE
- CULVERT
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- LOCAL ROAD
- RAILWAY
- STREAM CENTERLINE
- 2D MODEL PROFILE STATION
- CITY OF LACOMBE BOUNDARY

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Unnamed Tributary 2 = 2.28 m^3/s
Unnamed Tributary 3 = 2.28 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

500-Year Open Water Flood Inundation Map

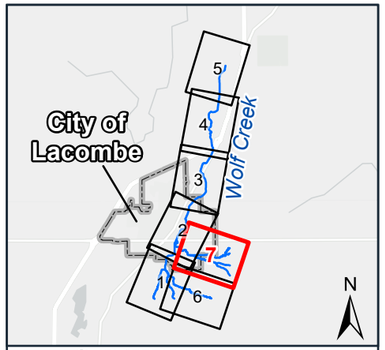
Lacombe Flood Study

SHEET 6 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 500-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

500-YEAR FLOOD INUNDATION EXTENT

500-YEAR FLOOD EXTENT
500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

Alberta
Canada

DISCHARGE
Unnamed Tributary 4 u/s of RS 1,740 = 1.90 m^3/s
Unnamed Tributary 4 d/s of RS 1,740 = 3.80 m^3/s
Unnamed Tributary 5 = 1.90 m^3/s
Unnamed Tributary 6 = 1.42 m^3/s
Wolf Creek u/s of RS 16,250 = 1.42 m^3/s
Wolf Creek RS 16,250 to 13,880 = 2.84 m^3/s
Wolf Creek RS 13,880 to 13,700 = 6.64 m^3/s
Wolf Creek d/s of RS 13,700 = 7.81 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

500-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 7 OF 7

BARR

DRAFT

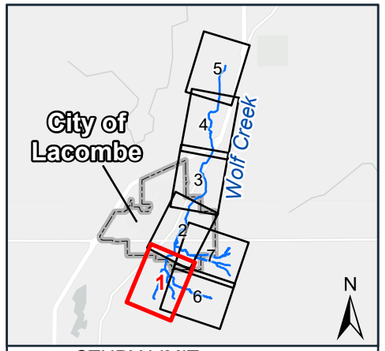
Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 500-Year Flood Inundation Map User: EMA

750-Year Flood Inundation Extent

DRAFT

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

750-YEAR FLOOD INUNDATION EXTENT

750-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 1 = 1.95 m^3/s
Unnamed Tributary 2 = 2.59 m^3/s
Unnamed Tributary 3 u/s of RS 2,380 = 2.59 m^3/s
Unnamed Tributary 3 RS 2,380 to 1,957 = 5.18 m^3/s
Unnamed Tributary 3 RS 1,957 = 7.13 m^3/s
Unnamed Tributary 3 d/s of RS 1,500 = 8.52 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

750-Year Open Water Flood Inundation Map

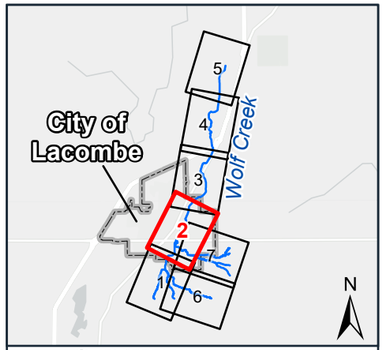
Lacombe Flood Study

SHEET 1 OF 7

BARR

Barr Footer: ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\b10113\43_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 750-Year Flood Inundation Map User: EMA

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

750-YEAR FLOOD INUNDATION EXTENT

750-YEAR FLOOD EXTENT
750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

Alberta
Canada

DISCHARGE
Unnamed Tributary 3 = 8.52 m^3/s
Unnamed Tributary 4 = 4.33 m^3/s
Wolf Creek u/s of RS 13,880 = 3.24 m^3/s
Wolf Creek RS 13,880 to 13,700 = 7.57 m^3/s
Wolf Creek RS 13,700 to 12,220 = 8.89 m^3/s
Wolf Creek RS 12,220 to 11,767 = 17.41 m^3/s
Wolf Creek d/s of RS 11,767 = 20.51 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

750-Year Open Water Flood Inundation Map

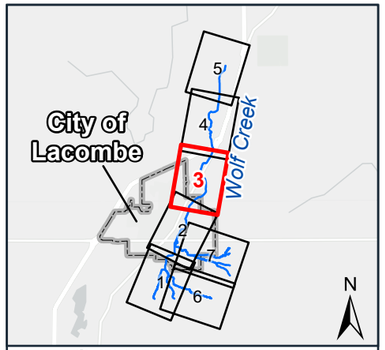
Lacombe Flood Study

SHEET 2 OF 7

BARR

Classification: Public

Barr Footer: ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 750-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

750-YEAR FLOOD INUNDATION EXTENT

750-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek u/s of RS 9,805 = 20.51 m^3/s
Wolf Creek d/s of RS 9,805 = 35.53 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

750-Year Open Water Flood Inundation Map

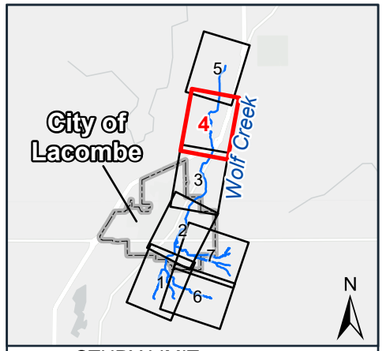
Lacombe Flood Study

SHEET 3 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 750-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

750-YEAR FLOOD INUNDATION EXTENT

750-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek u/s of RS 5,303 = 35.53 m^3/s
Wolf Creek d/s of RS 5,303 = 47.26 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

750-Year Open Water Flood Inundation Map

Lacombe Flood Study

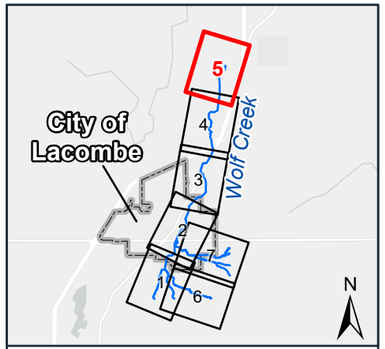
SHEET 4 OF 7

BARR

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 750-Year Flood Inundation Map User: EMA

Classification: Public

SHEET 4 ↑



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

750-YEAR FLOOD INUNDATION EXTENT

750-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek = 47.26 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

750-Year Open Water Flood Inundation Map

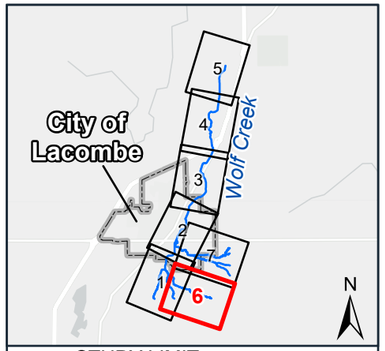
Lacombe Flood Study

SHEET 5 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 750-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

750-YEAR FLOOD INUNDATION EXTENT

750-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 2 = 2.59 m^3/s
Unnamed Tributary 3 = 2.59 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

750-Year Open Water Flood Inundation Map

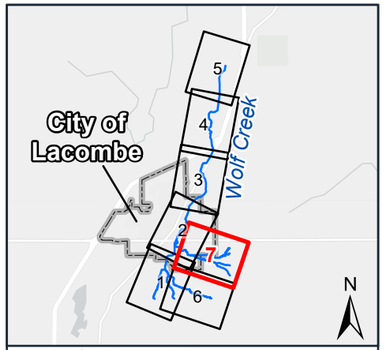
Lacombe Flood Study

SHEET 6 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 750-Year Flood Inundation Map User: EMA



- STUDY LIMIT
- FLOW DIRECTION
- BRIDGE
- CULVERT
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- LOCAL ROAD
- RAILWAY
- STREAM CENTERLINE
- 2D MODEL PROFILE STATION
- CITY OF LACOMBE BOUNDARY

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

Alberta

Canada

DISCHARGE

Unnamed Tributary 4 u/s of RS 1,740 = 2.17 m^3/s
Unnamed Tributary 4 d/s of RS 1,740 = 4.33 m^3/s
Unnamed Tributary 5 = 2.17 m^3/s
Unnamed Tributary 6 = 1.62 m^3/s
Wolf Creek u/s of RS 16,250 = 1.62 m^3/s
Wolf Creek RS 16,250 to 13,880 = 3.24 m^3/s
Wolf Creek RS 13,880 to 13,700 = 7.57 m^3/s
Wolf Creek d/s of RS 13,700 = 8.89 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

750-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 7 OF 7

BARR

DRAFT

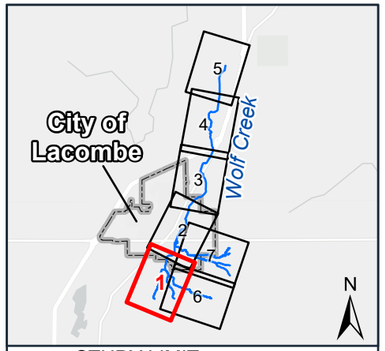
Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 750-Year Flood Inundation Map User: EMA

1,000-Year Flood Inundation Extent

DRAFT

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

1000-YEAR FLOOD INUNDATION EXTENT

1000-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 1 = 2.10 m^3/s
Unnamed Tributary 2 = 2.79 m^3/s
Unnamed Tributary 3 u/s of RS 2,380 = 2.79 m^3/s
Unnamed Tributary 3 RS 2,380 to 1,957 = 5.58 m^3/s
Unnamed Tributary 3 RS 1,957 = 7.68 m^3/s
Unnamed Tributary 3 d/s of RS 1,500 = 9.18 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

1000-Year Open Water Flood Inundation Map

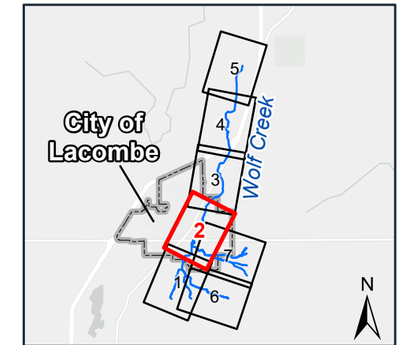
Lacombe Flood Study

SHEET 1 OF 7

BARR

Barr Footer: ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\b10113\43_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 1000-Year Flood Inundation Map User: EMA

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

1000-YEAR FLOOD INUNDATION EXTENT

1000-YEAR FLOOD EXTENT
1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

Alberta
Canada

DISCHARGE
Unnamed Tributary 3 = 9.18 m^3/s
Unnamed Tributary 4 = 4.67 m^3/s
Wolf Creek u/s of RS 13,880 = 3.48 m^3/s
Wolf Creek RS 13,880 to 13,700 = 8.15 m^3/s
Wolf Creek RS 13,700 to 12,220 = 9.58 m^3/s
Wolf Creek RS 12,220 to 11,767 = 18.76 m^3/s
Wolf Creek d/s of RS 11,767 = 22.09 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

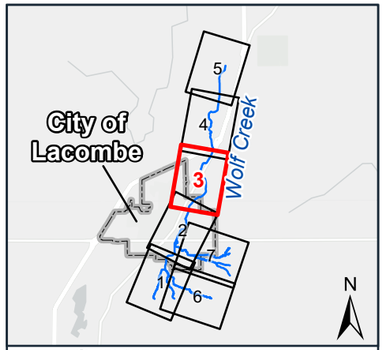
1000-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 2 OF 7

BARR

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

1000-YEAR FLOOD INUNDATION EXTENT

1000-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek u/s of RS 9,805 = 22.09 m^3/s
Wolf Creek d/s of RS 9,805 = 38.40 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

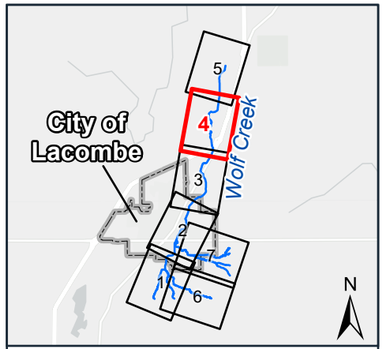
1000-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 3 OF 7

BARR

Classification: Public



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

1000-YEAR FLOOD INUNDATION EXTENT

1000-YEAR FLOOD EXTENT

Alberta

Canada

DISCHARGE
Wolf Creek u/s of RS 5,303 = 38.40 m^3/s
Wolf Creek d/s of RS 5,303 = 51.15 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

1000-Year Open Water Flood Inundation Map

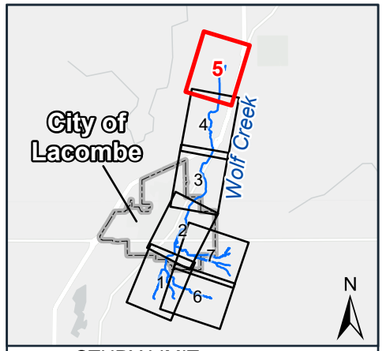
Lacombe Flood Study

SHEET 4 OF 7

BARR

Classification: Public

SHEET 4 ↑



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
CITY OF LACOMBE BOUNDARY

1000-YEAR FLOOD INUNDATION EXTENT

1000-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Wolf Creek = 51.15 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

1000-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 5 OF 7

BARR

Classification: Public

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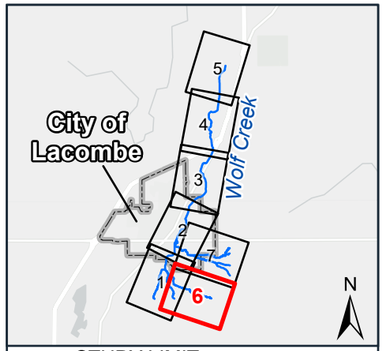


STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

1000-YEAR FLOOD INUNDATION EXTENT

1000-YEAR FLOOD EXTENT

Alberta
Canada

DISCHARGE
Unnamed Tributary 2 = 2.79 m^3/s
Unnamed Tributary 3 = 2.79 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

1000-Year Open Water Flood Inundation Map

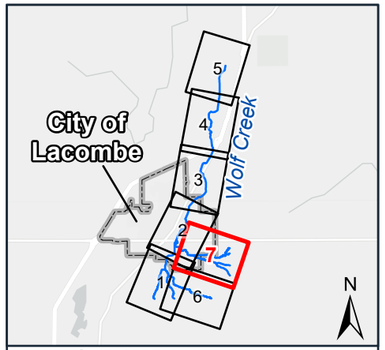
Lacombe Flood Study

SHEET 6 OF 7

BARR

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 1000-Year Flood Inundation Map User: EMA



STUDY LIMIT
FLOW DIRECTION
BRIDGE
CULVERT
PRIMARY HIGHWAY
SECONDARY HIGHWAY
LOCAL ROAD
RAILWAY
STREAM CENTERLINE
2D MODEL PROFILE STATION
CITY OF LACOMBE BOUNDARY

1000-YEAR FLOOD INUNDATION EXTENT

1000-YEAR FLOOD EXTENT
1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

Alberta
Canada

DISCHARGE
Unnamed Tributary 4 u/s of RS 1,740 = 2.33 m^3/s
Unnamed Tributary 4 d/s of RS 1,740 = 4.67 m^3/s
Unnamed Tributary 5 = 2.33 m^3/s
Unnamed Tributary 6 = 1.74 m^3/s
Wolf Creek u/s of RS 16,250 = 1.74 m^3/s
Wolf Creek RS 16,250 to 13,880 = 3.48 m^3/s
Wolf Creek RS 13,880 to 13,700 = 8.15 m^3/s
Wolf Creek d/s of RS 13,700 = 9.58 m^3/s

0 100 200 300
Metres
Scale: 1:10,000

N

1000-Year Open Water Flood Inundation Map

Lacombe Flood Study

SHEET 7 OF 7

BARR

DRAFT

Classification: Public

Barr Footer ArcGISPro 3.3.2, 2025-03-19 11:28 File: I:\Client\Alberta_AEP\Work_Orders\61011343_Lacombe_Flood_Study\Maps\Final_Inundation_Maps\Lacombe Inundation Maps.aprx Layout: 1000-Year Flood Inundation Map User: EMA