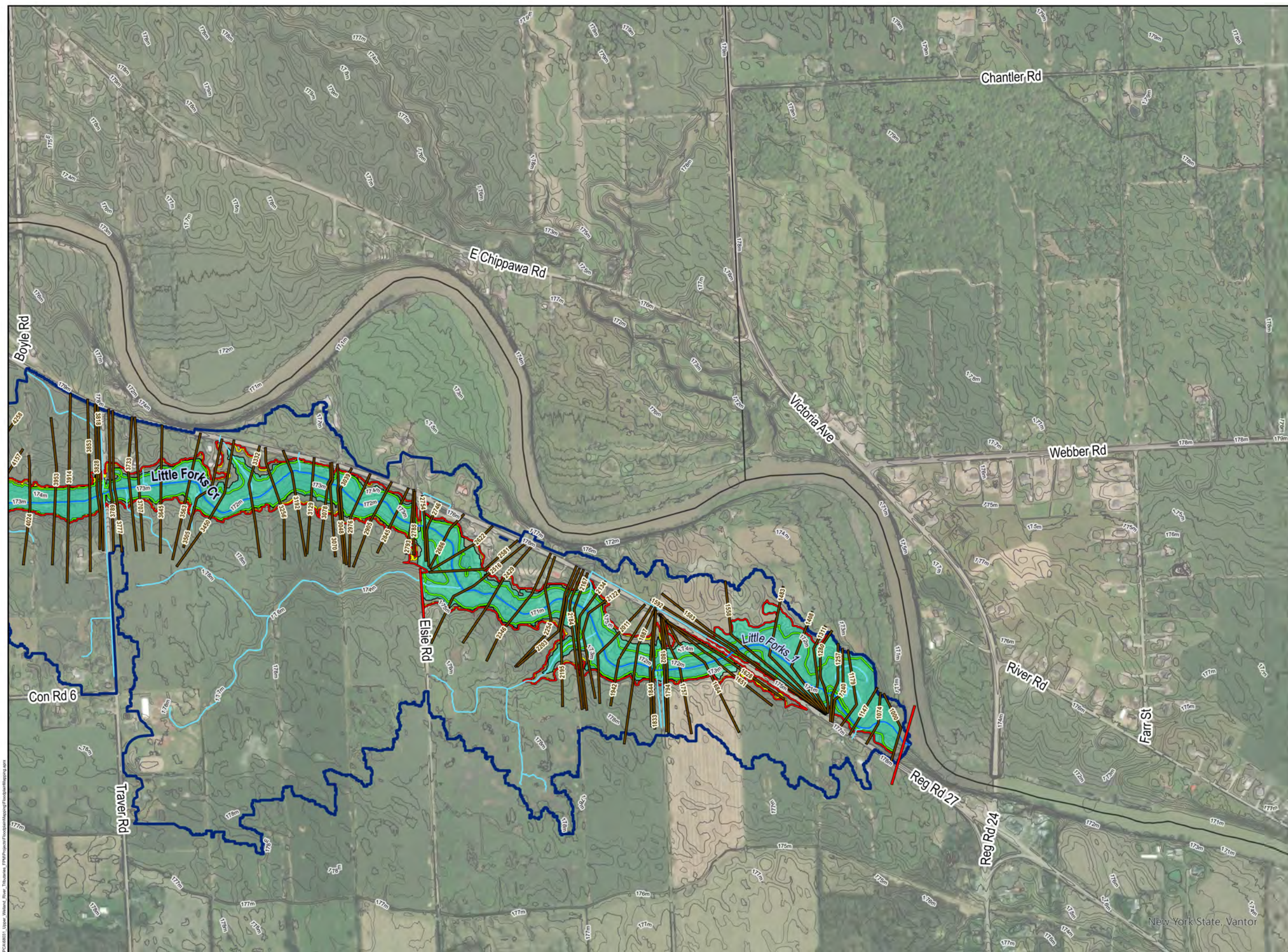
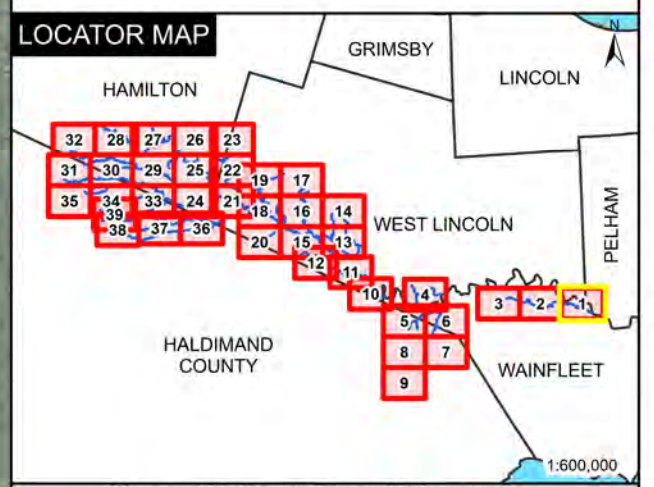


APPENDIX E – Climate Change Scenario Floodplain Mapping

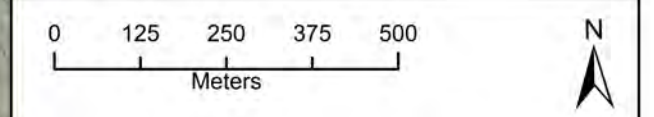


- Legend**
- Municipal Boundary
 - Watershed
 - Railway
 - HEC-RAS Reaches Mapped
 - Other Watercourses
 - Contour
 - Study Area Limit
 - Cross Section (**XS Name:**)
 - 50yr Floodlines
 - 50yr Floodlines (2D)
 - 100yr Floodlines
 - 100yr Floodplain (2D)
 - 200yr Floodlines
 - 200yr Floodlines (2D)
 - 350yr Floodlines
 - 350yr Floodlines (2D)
 - Spill Zone



Upper Welland River Tributaries
Floodplain Comparison Mapping
(1: Little Forks Cr)

Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.

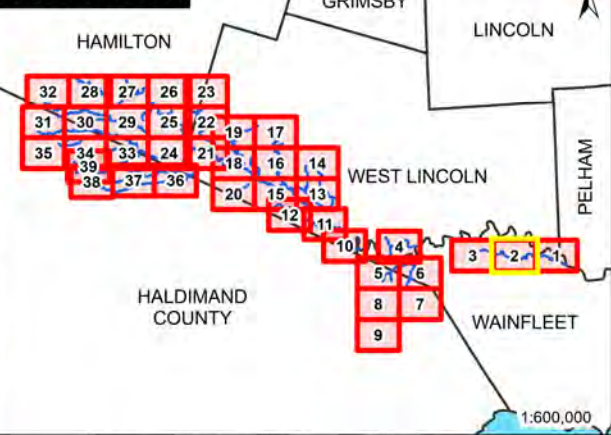


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This project was made possible in part by the Province of Ontario.

Legend

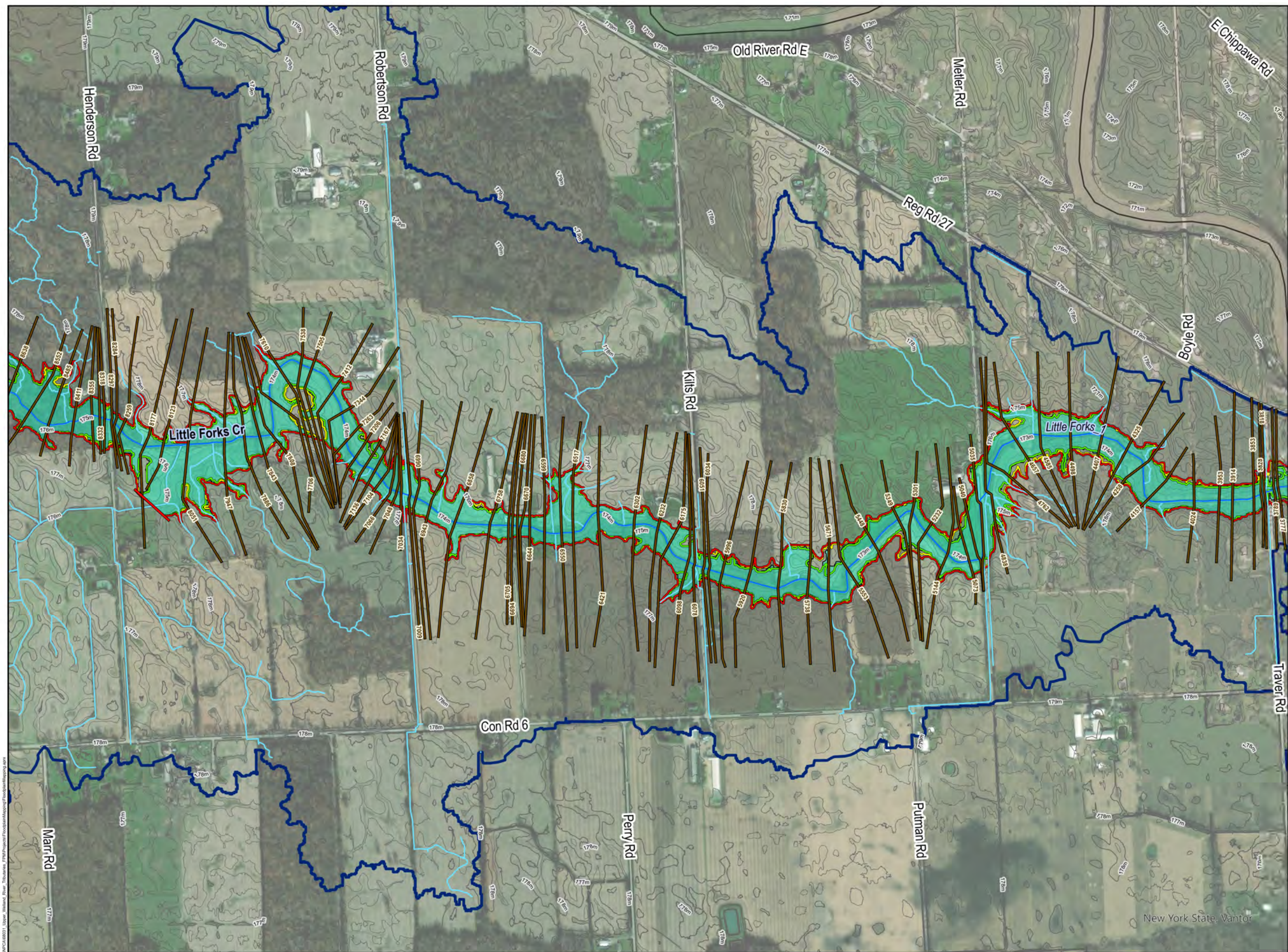
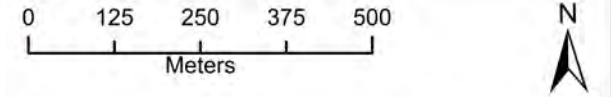
-  Municipal Boundary
-  Watershed
-  Railway
-  HEC-RAS Reaches Mapped
-  Other Watercourses
-  Contour
-  Study Area Limit
-  Cross Section (XS Name:)
-  50yr Floodlines
-  50yr Floodlines (2D)
-  100yr Floodlines
-  100yr Floodplain (2D)
-  200yr Floodlines
-  200yr Floodlines (2D)
-  350yr Floodlines
-  350yr Floodlines (2D)
-  Spill Zone

LOCATOR MAP

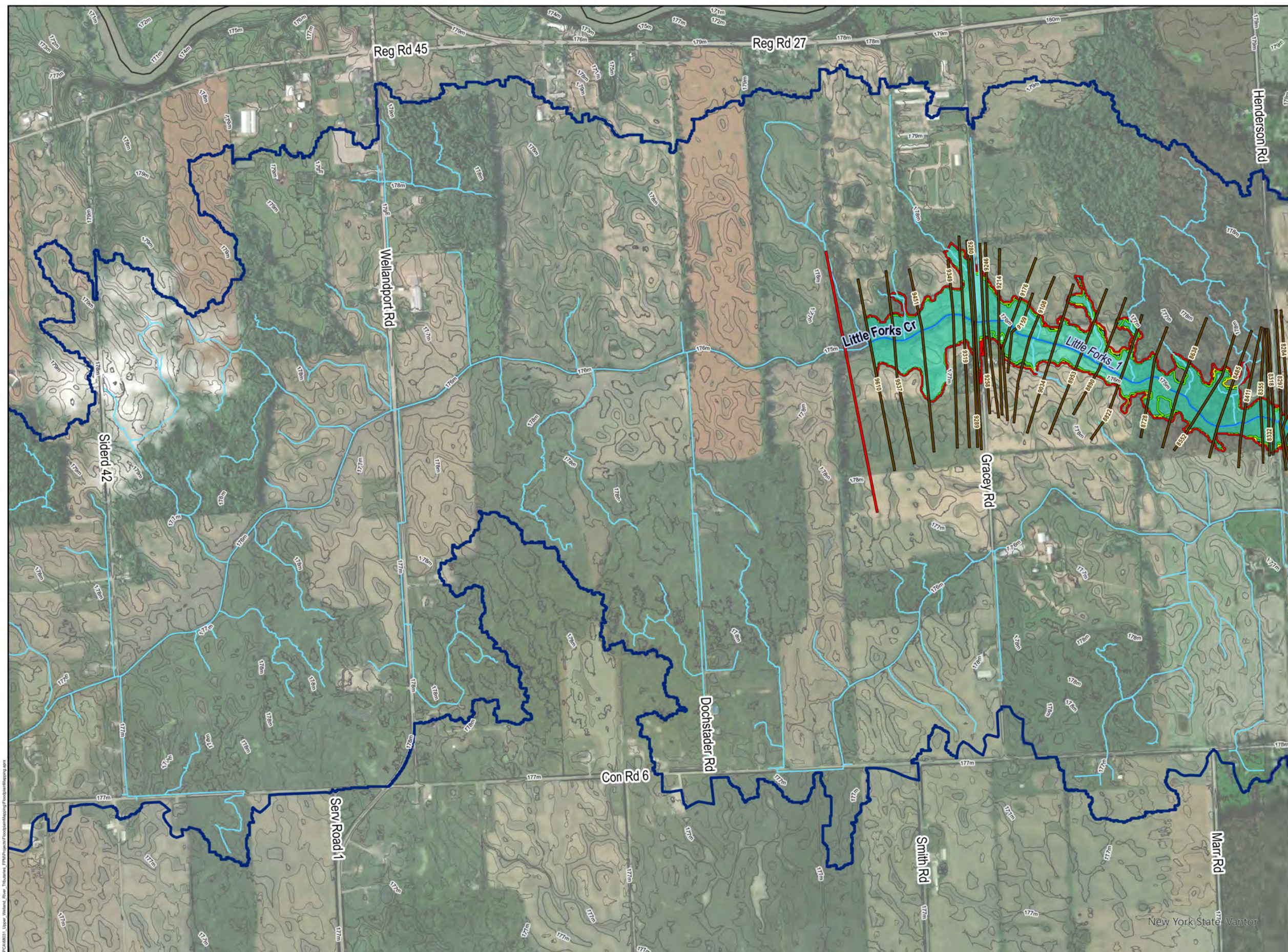


**Upper Welland River Tributaries
Floodplain Comparison Mapping
(2: Little Forks Cr)**

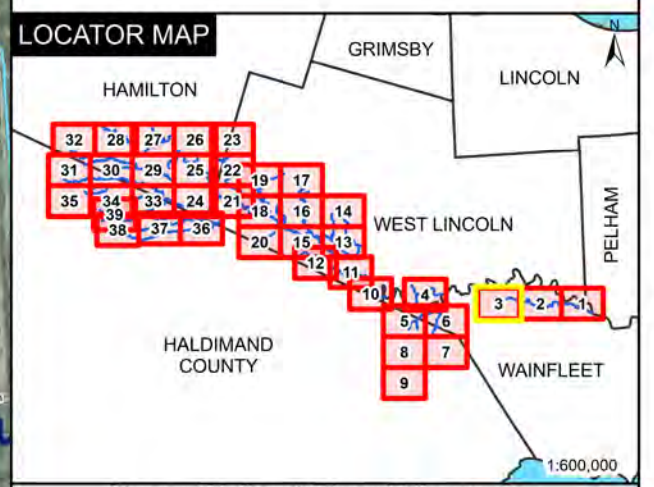
Date: 2026-09-22
 Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
 Data Source: LPRCA, OMNRF, LIO
 Created by: A.V.



This project is funded [in part] by the Government of Canada.
 This project was made possible in part by the Province of Ontario.

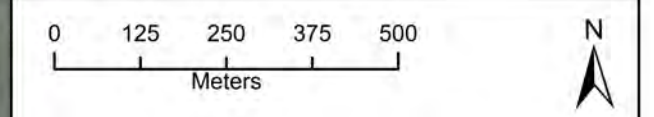


- Legend**
- Municipal Boundary
 - Watershed
 - Railway
 - HEC-RAS Reaches Mapped
 - Other Watercourses
 - Contour
 - Study Area Limit
 - Cross Section (**XS Name:**)
 - 50yr Floodlines
 - 50yr Floodlines (2D)
 - 100yr Floodlines
 - 100yr Floodplain (2D)
 - 200yr Floodlines
 - 200yr Floodlines (2D)
 - 350yr Floodlines
 - 350yr Floodlines (2D)
 - Spill Zone

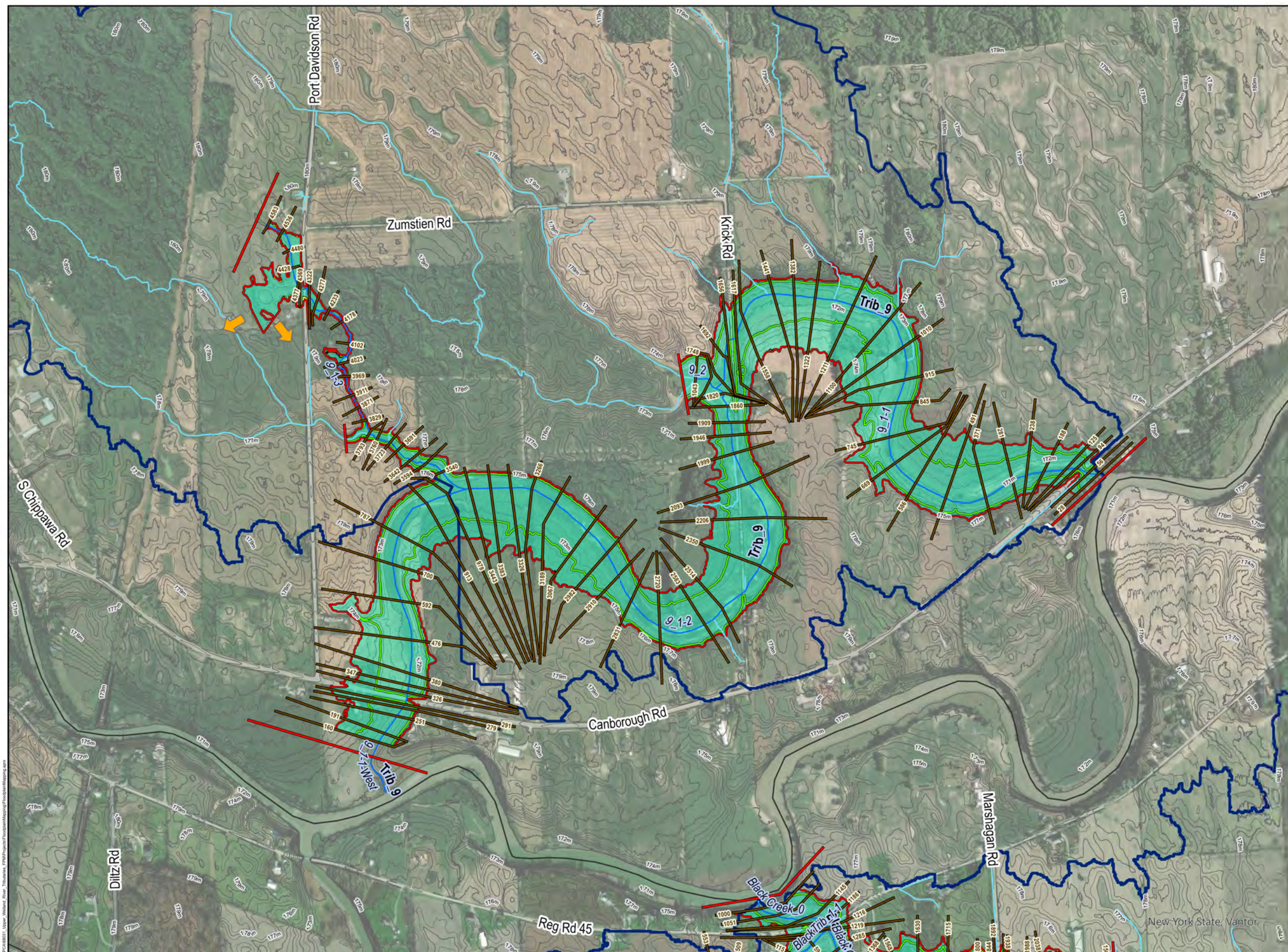


Upper Welland River Tributaries
Floodplain Comparison Mapping
(3: Little Forks Cr)

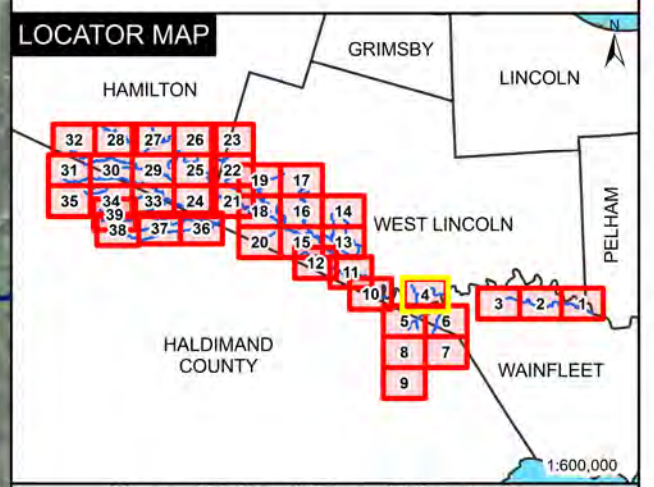
Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.



This project is funded [in part] by the Government of Canada.
This project was made possible in part by the Province of Ontario.

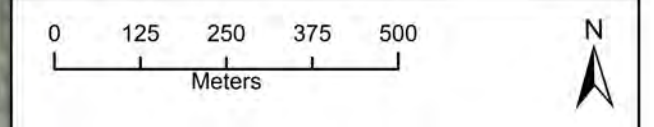


- Legend**
- Municipal Boundary
 - Watershed
 - Railway
 - HEC-RAS Reaches Mapped
 - Other Watercourses
 - Contour
 - Study Area Limit
 - Cross Section (**XS Name:**)
 - 50yr Floodlines
 - 50yr Floodlines (2D)
 - 100yr Floodlines
 - 100yr Floodplain (2D)
 - 200yr Floodlines
 - 200yr Floodlines (2D)
 - 350yr Floodlines
 - 350yr Floodlines (2D)
 - Spill Zone

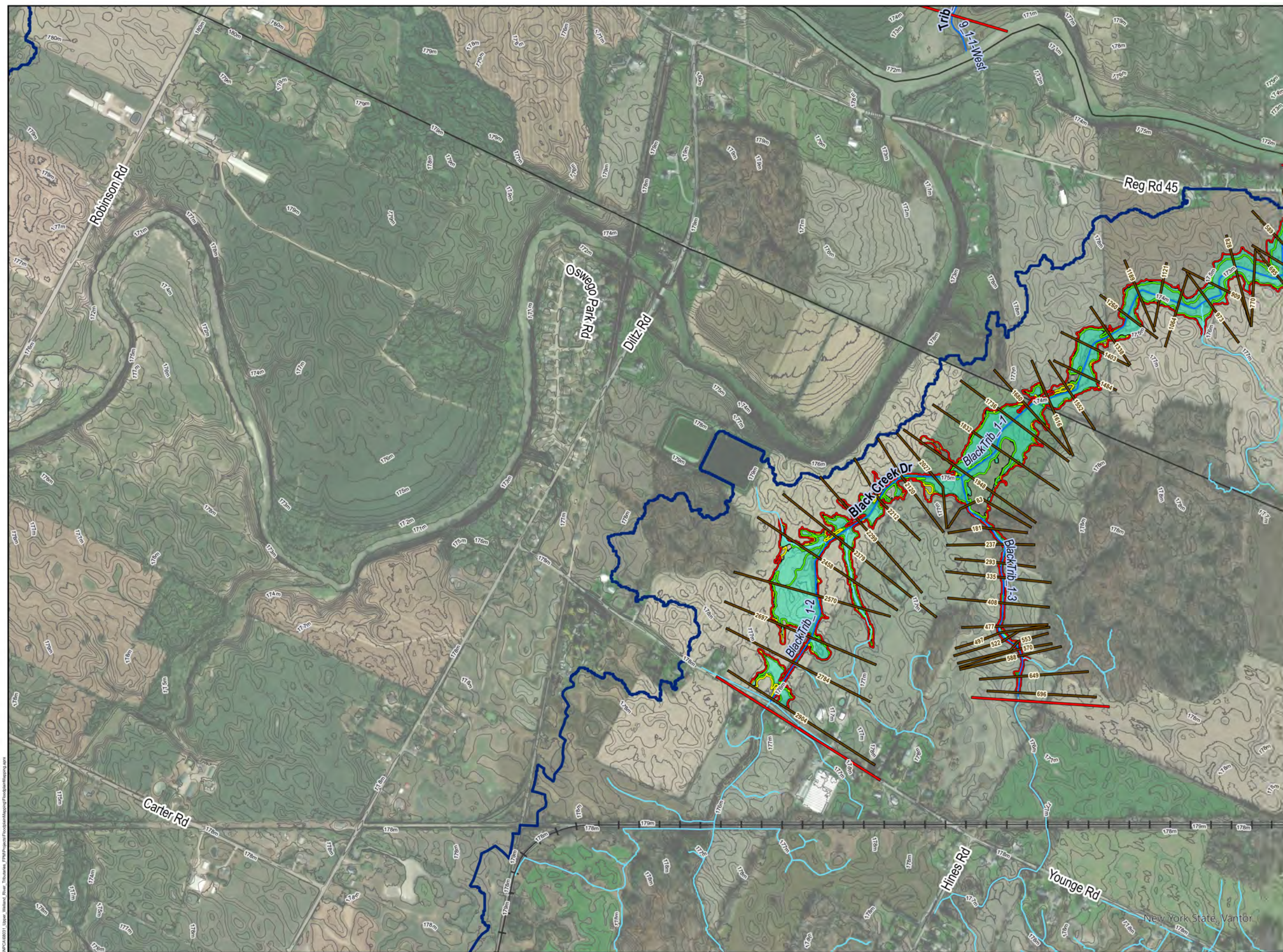


Upper Welland River Tributaries
Floodplain Comparison Mapping
(4: Trib 9)

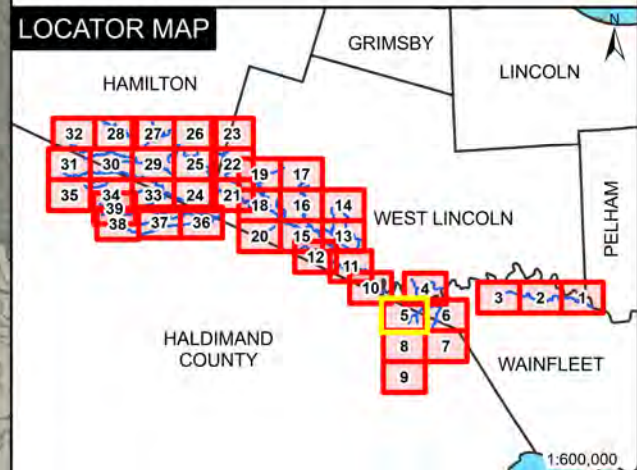
Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.



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This project was made possible in part by the Province of Ontario.

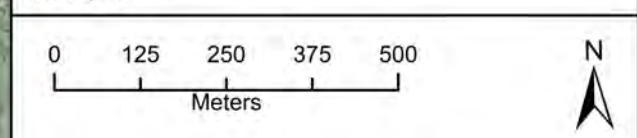


- Legend**
- Municipal Boundary
 - Watershed
 - Railway
 - HEC-RAS Reaches Mapped
 - Other Watercourses
 - Contour
 - Study Area Limit
 - Cross Section (XS Name:)
 - 50yr Floodlines
 - 50yr Floodlines (2D)
 - 100yr Floodlines
 - 100yr Floodplain (2D)
 - 200yr Floodlines
 - 200yr Floodlines (2D)
 - 350yr Floodlines
 - 350yr Floodlines (2D)
 - Spill Zone



Upper Welland River Tributaries
Floodplain Comparison Mapping
(5: Black Creek Dr)

Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.



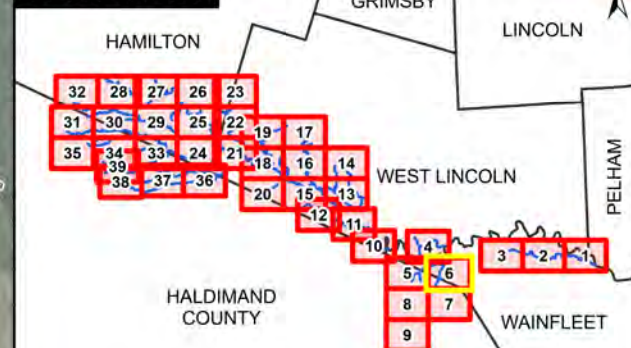
This project is funded [in part] by the Government of Canada.
This project was made possible in part by the Province of Ontario.



Legend

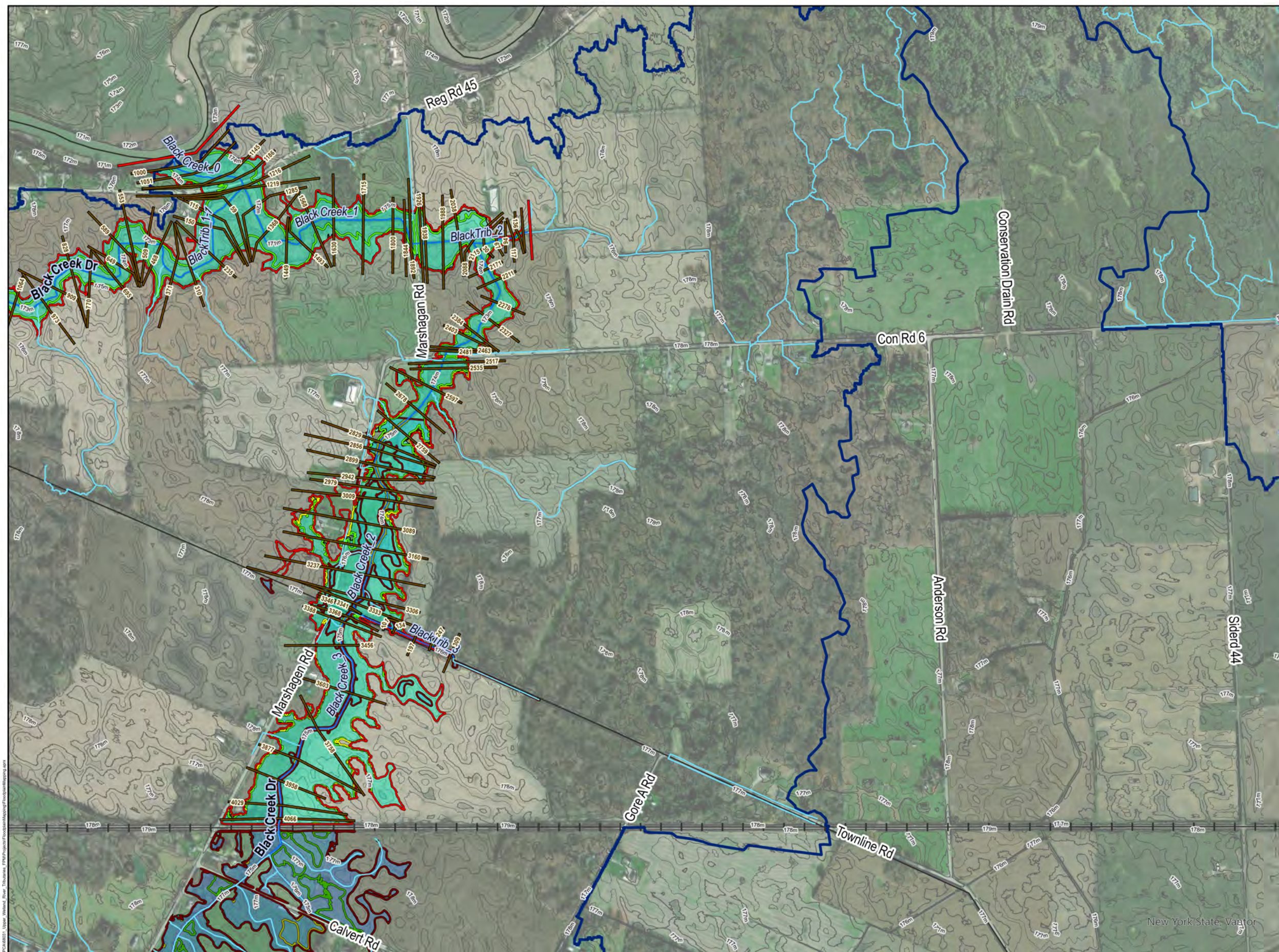
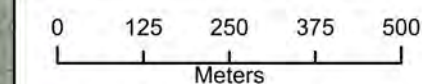
-  Municipal Boundary
-  Watershed
-  Railway
-  HEC-RAS Reaches Mapped
-  Other Watercourses
-  Contour
-  Study Area Limit
-  Cross Section (XS Name:)
-  50yr Floodlines
-  50yr Floodlines (2D)
-  100yr Floodlines
-  100yr Floodplain (2D)
-  200yr Floodlines
-  200yr Floodlines (2D)
-  350yr Floodlines
-  350yr Floodlines (2D)
-  Spill Zone

LOCATOR MAP

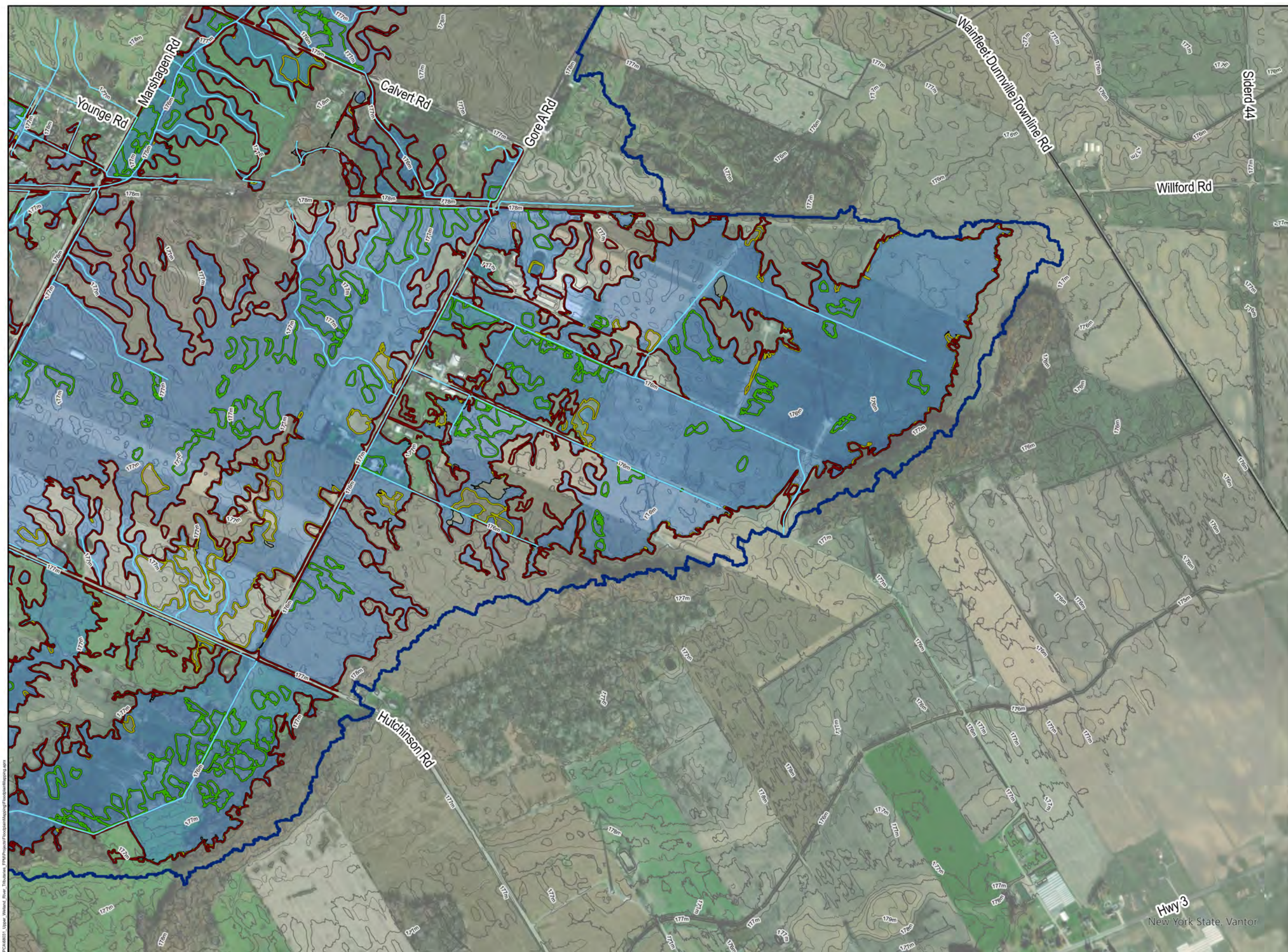


Upper Welland River Tributaries Floodplain Comparison Mapping (6: Black Creek Dr)

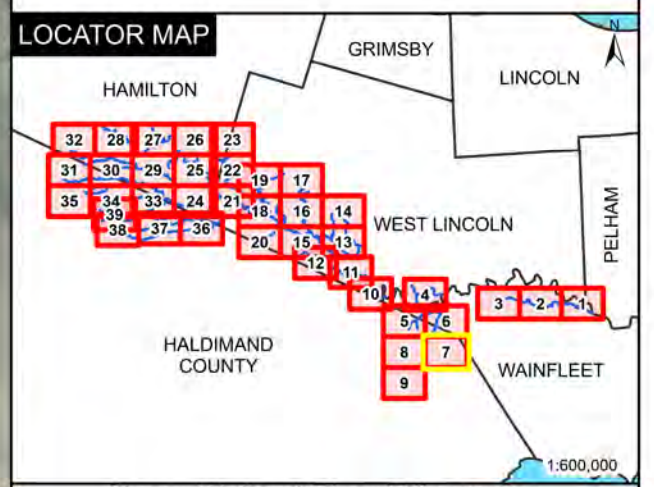
Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.



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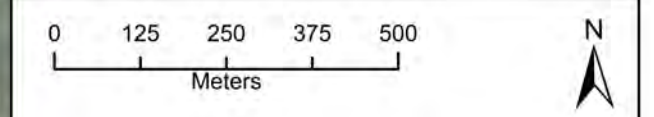


- Legend**
- Municipal Boundary
 - Watershed
 - Railway
 - HEC-RAS Reaches Mapped
 - Other Watercourses
 - Contour
 - Study Area Limit
 - Cross Section (XS Name:)
 - 50yr Floodlines
 - 50yr Floodlines (2D)
 - 100yr Floodlines
 - 100yr Floodplain (2D)
 - 200yr Floodlines
 - 200yr Floodlines (2D)
 - 350yr Floodlines
 - 350yr Floodlines (2D)
 - Spill Zone

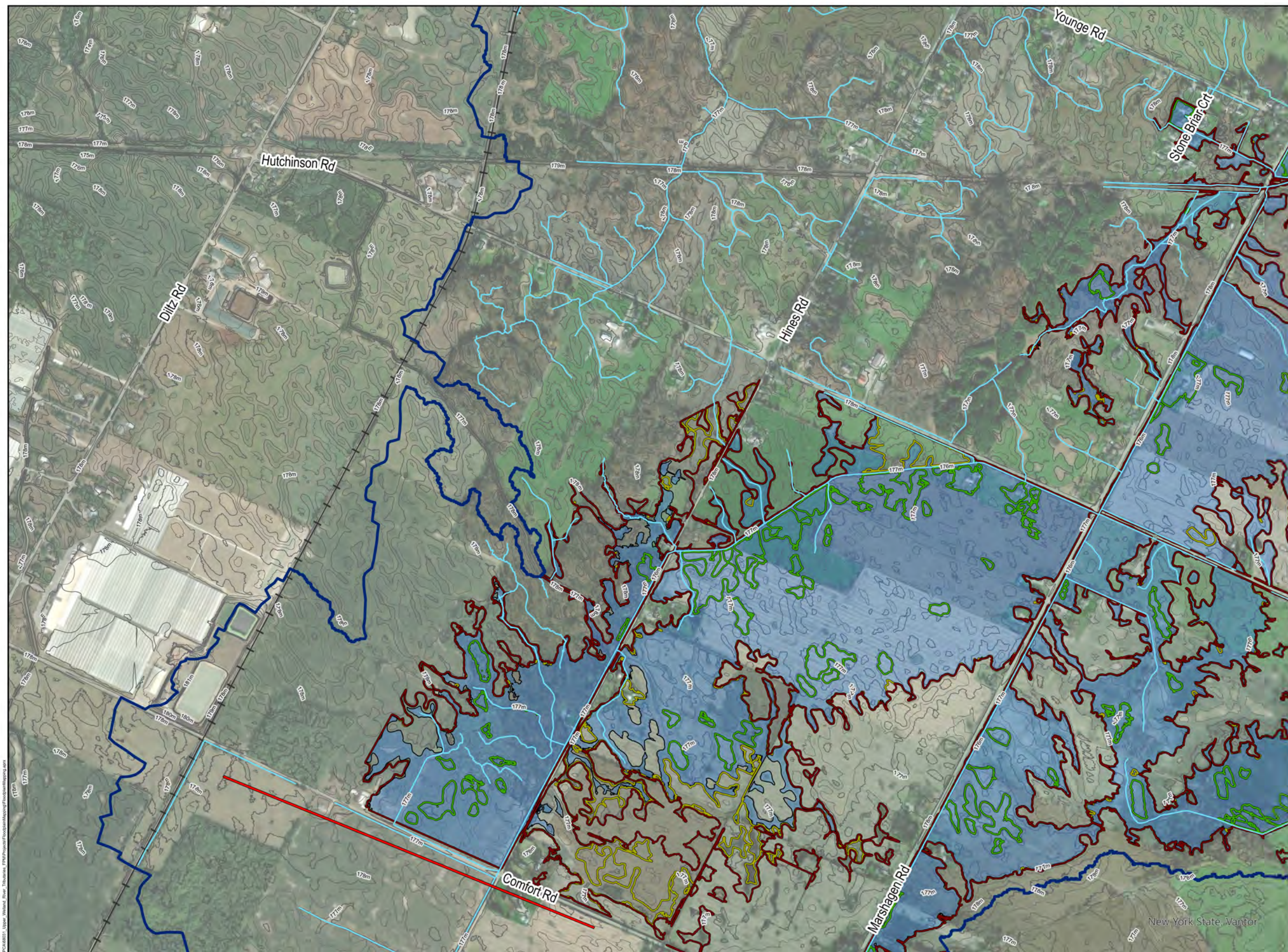


Upper Welland River Tributaries
Floodplain Comparison Mapping
(7: Black Creek Dr)

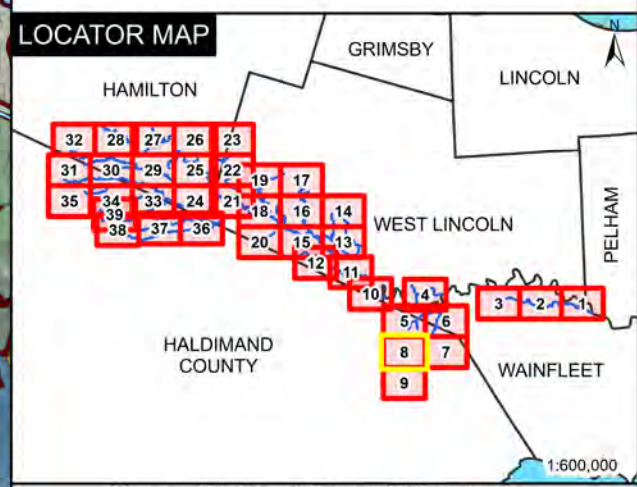
Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.



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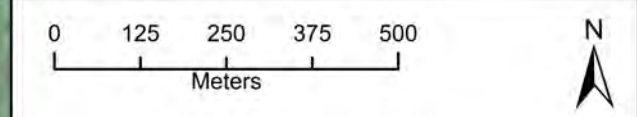


- Legend**
- Municipal Boundary
 - Watershed
 - Railway
 - HEC-RAS Reaches Mapped
 - Other Watercourses
 - Contour
 - Study Area Limit
 - Cross Section (XS Name:)
 - 50yr Floodlines
 - 50yr Floodlines (2D)
 - 100yr Floodlines
 - 100yr Floodplain (2D)
 - 200yr Floodlines
 - 200yr Floodlines (2D)
 - 350yr Floodlines
 - 350yr Floodlines (2D)
 - Spill Zone

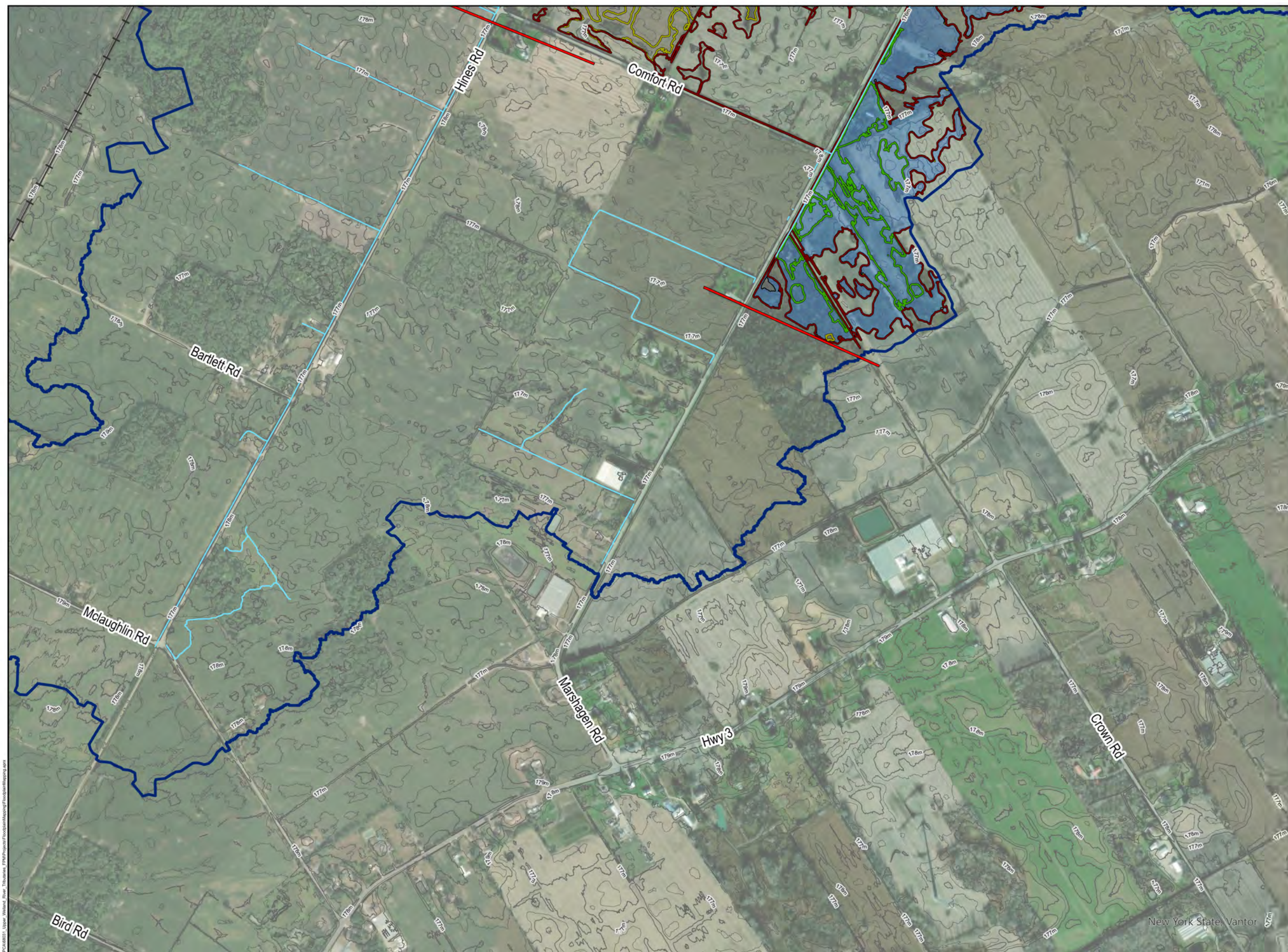


Upper Welland River Tributaries
Floodplain Comparison Mapping
(8: Black Creek Dr)

Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.

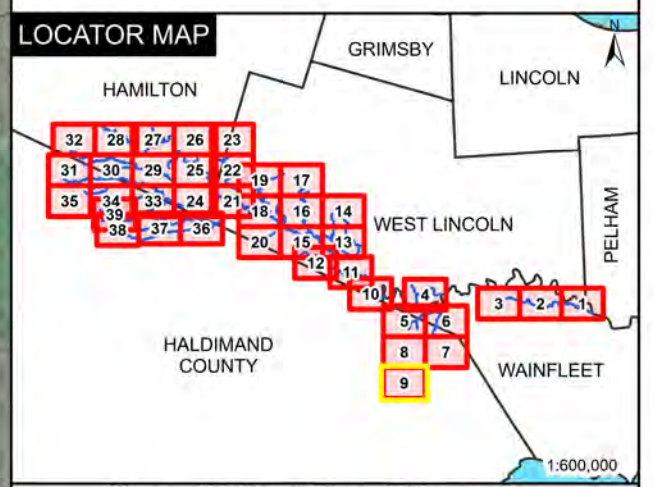


This project is funded [in part] by the Government of Canada.
This project was made possible in part by the Province of Ontario.



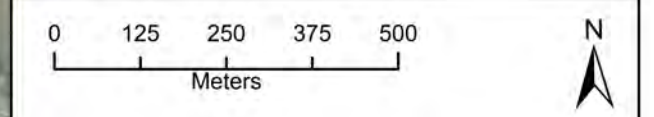
Legend

- Municipal Boundary
- Watershed
- Railway
- HEC-RAS Reaches Mapped
- Other Watercourses
- Contour
- Study Area Limit
- Cross Section (**XS Name:**)
- 50yr Floodlines
- 50yr Floodlines (2D)
- 100yr Floodlines
- 100yr Floodplain (2D)
- 200yr Floodlines
- 200yr Floodlines (2D)
- 350yr Floodlines
- 350yr Floodlines (2D)
- Spill Zone



**Upper Welland River Tributaries
Floodplain Comparison Mapping
(9: Black Creek Dr)**

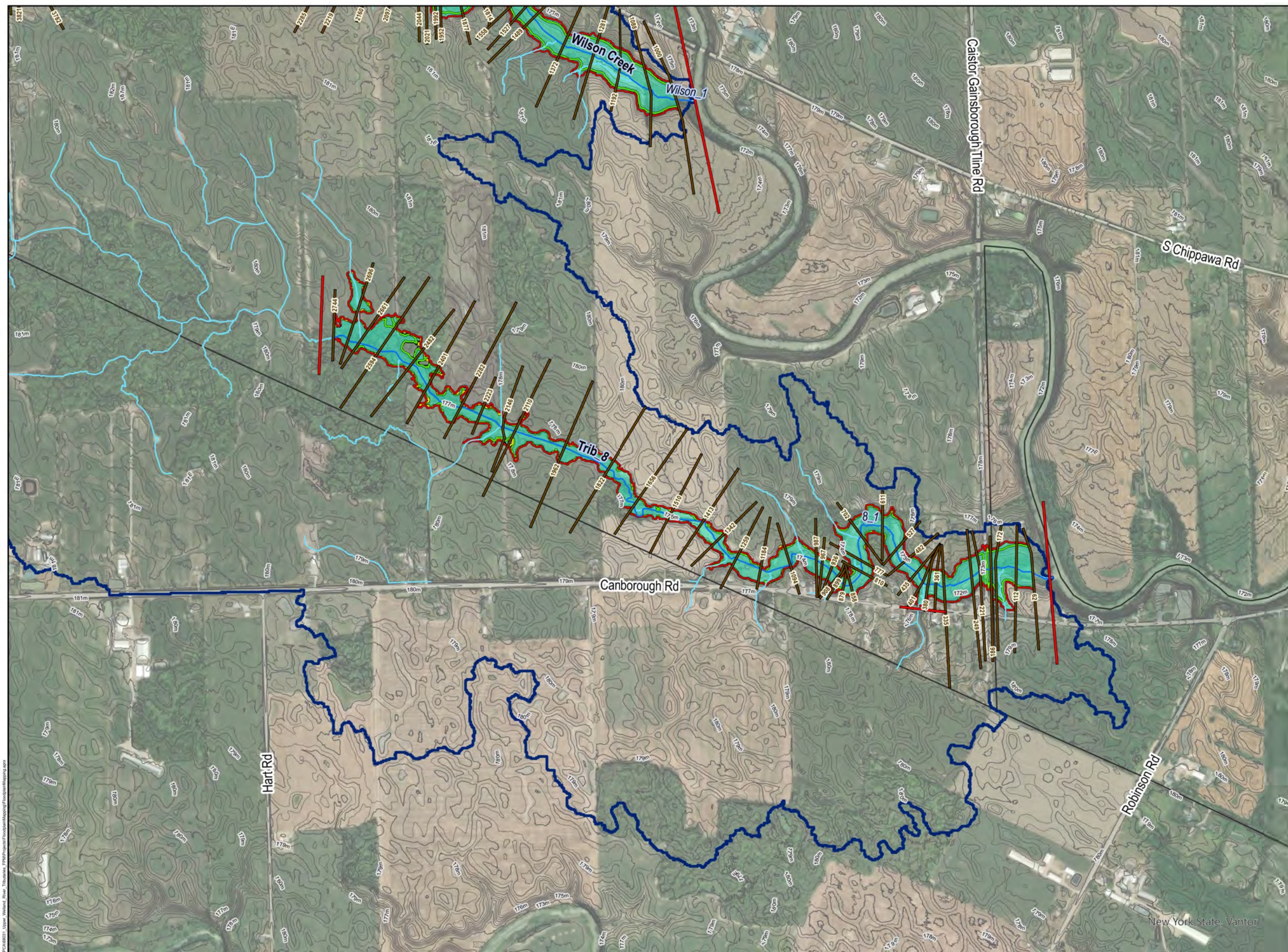
Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.



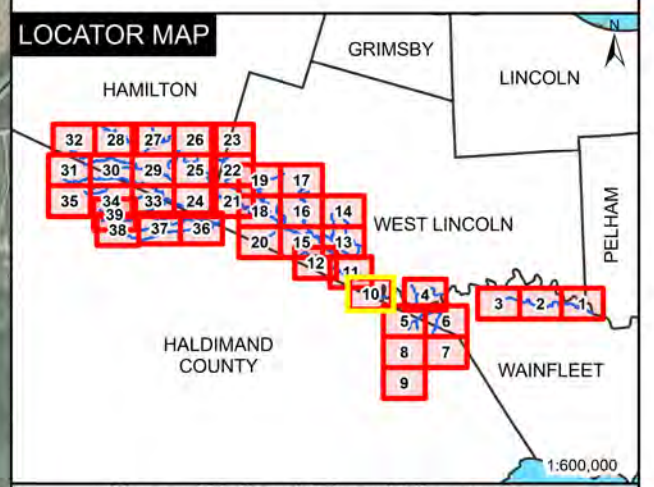
This project is funded [in part] by the Government of Canada.

This project was made possible in part by the Province of Ontario.



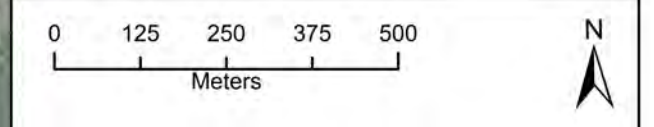


- Legend**
- Municipal Boundary
 - Watershed
 - Railway
 - HEC-RAS Reaches Mapped
 - Other Watercourses
 - Contour
 - Study Area Limit
 - Cross Section (**XS Name:**)
 - 50yr Floodlines
 - 50yr Floodlines (2D)
 - 100yr Floodlines
 - 100yr Floodplains (2D)
 - 200yr Floodlines
 - 200yr Floodlines (2D)
 - 350yr Floodlines
 - 350yr Floodlines (2D)
 - Spill Zone



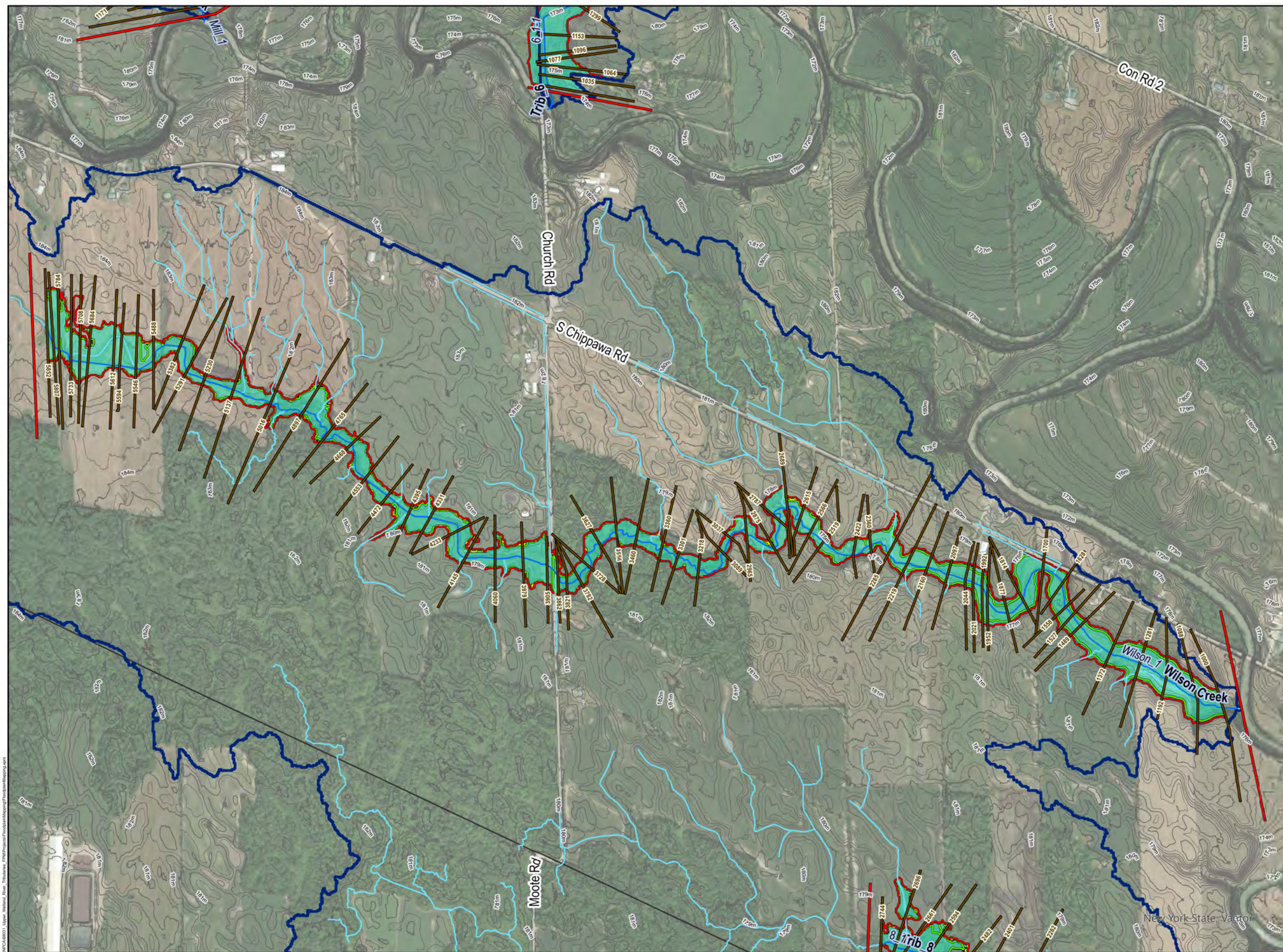
Upper Welland River Tributaries
Floodplain Comparison Mapping
(10: Trib 8)

Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.

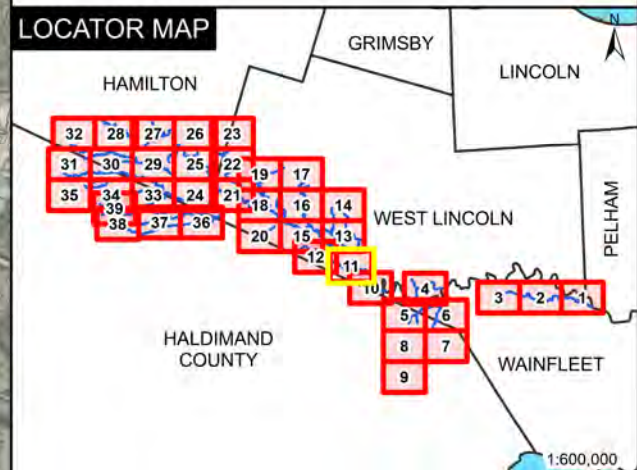


This project is funded [in part] by the Government of Canada.
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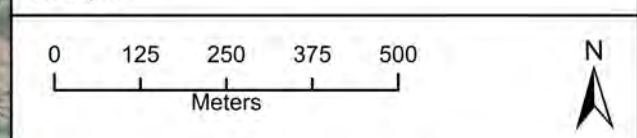


- Legend**
- Municipal Boundary
 - Watershed
 - Railway
 - HEC-RAS Reaches Mapped
 - Other Watercourses
 - Contour
 - Study Area Limit
 - Cross Section (**XS Name:**)
 - 50yr Floodlines
 - 50yr Floodlines (2D)
 - 100yr Floodlines
 - 100yr Floodplain (2D)
 - 200yr Floodlines
 - 200yr Floodlines (2D)
 - 350yr Floodlines
 - 350yr Floodlines (2D)
 - Spill Zone

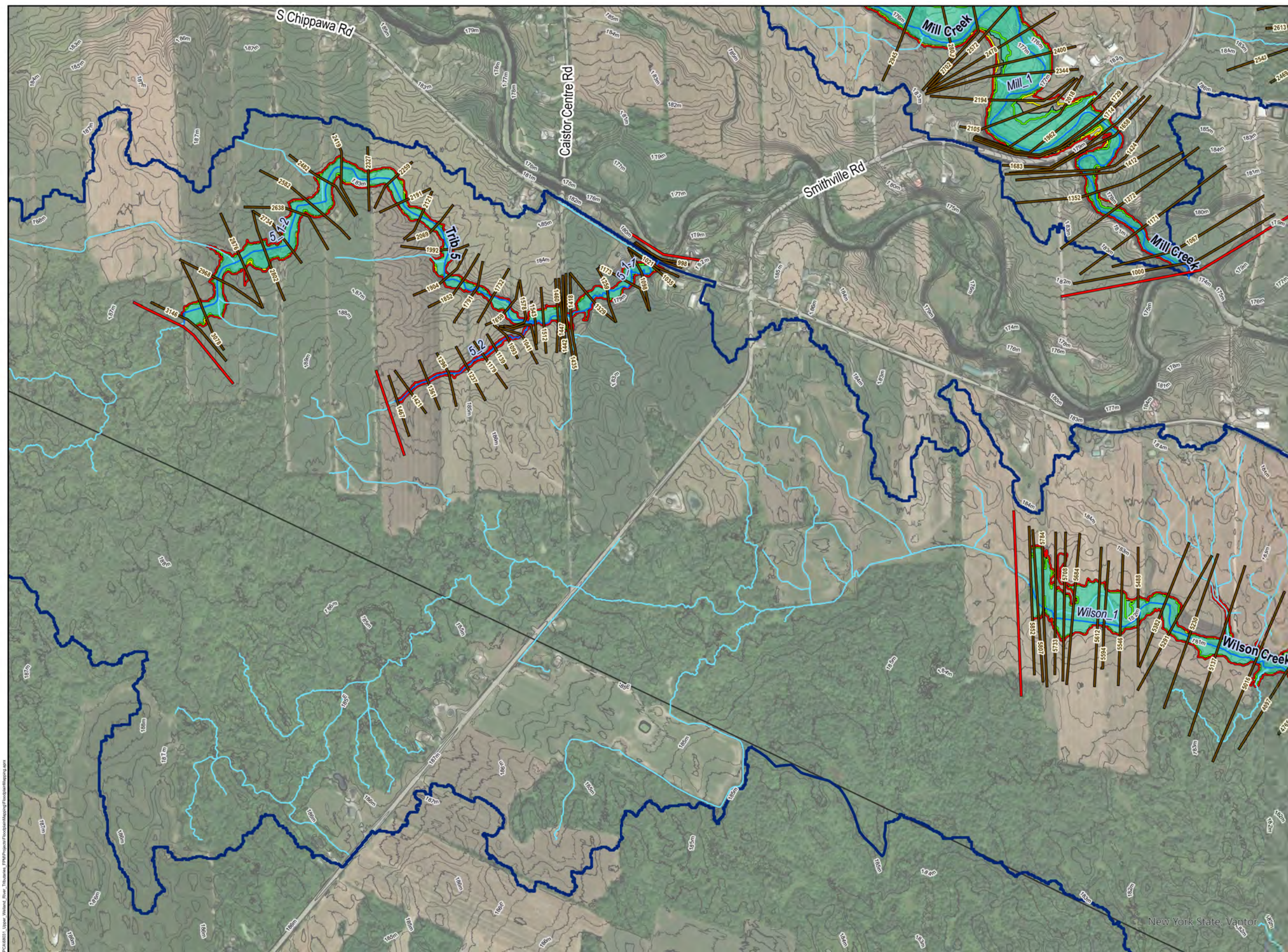


**Upper Welland River Tributaries
Floodplain Comparison Mapping
(11: Wilson Creek)**

Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.

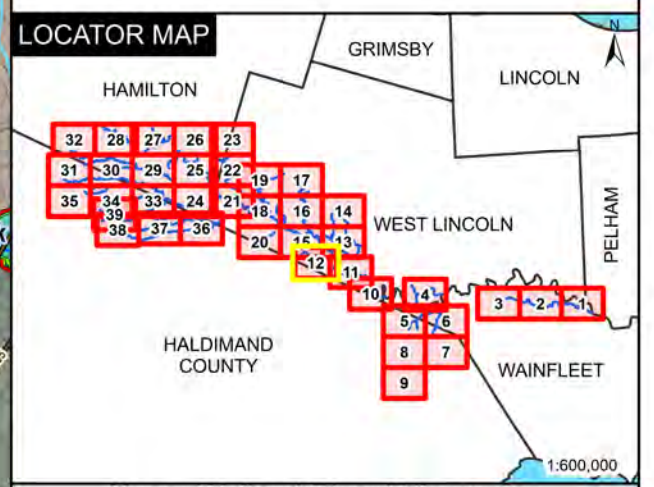


This project is funded [in part] by the Government of Canada.
This project was made possible in part by the Province of Ontario.



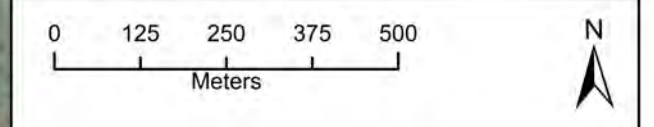
Legend

- Municipal Boundary
- Watershed
- Railway
- HEC-RAS Reaches Mapped
- Other Watercourses
- Contour
- Study Area Limit
- Cross Section (XS Name:)
- 50yr Floodlines
- 50yr Floodlines (2D)
- 100yr Floodlines
- 100yr Floodplain (2D)
- 200yr Floodlines
- 200yr Floodlines (2D)
- 350yr Floodlines
- 350yr Floodlines (2D)
- Spill Zone

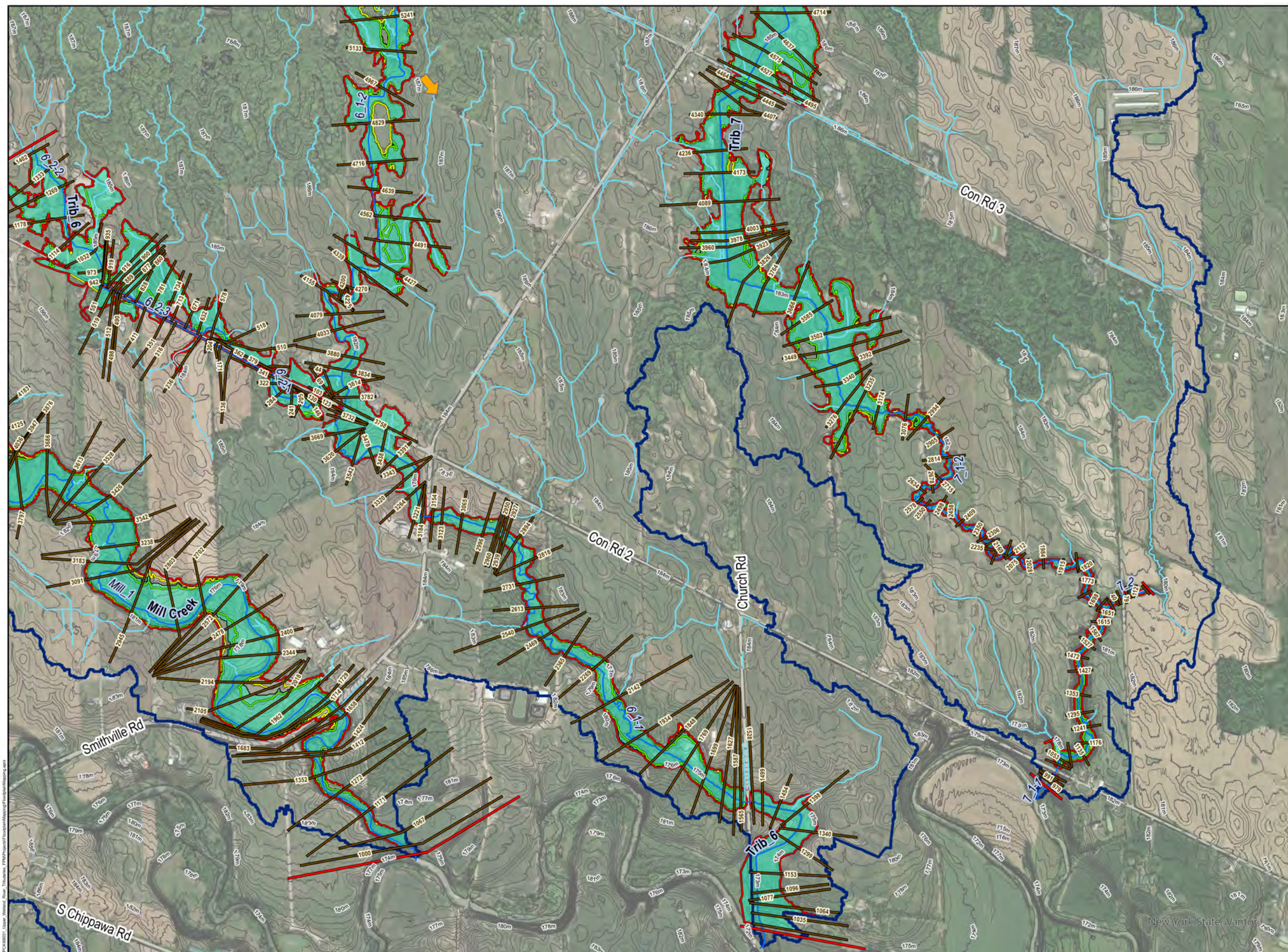


Upper Welland River Tributaries
Floodplain Comparison Mapping
(12: Trib 5, Wilson Creek)

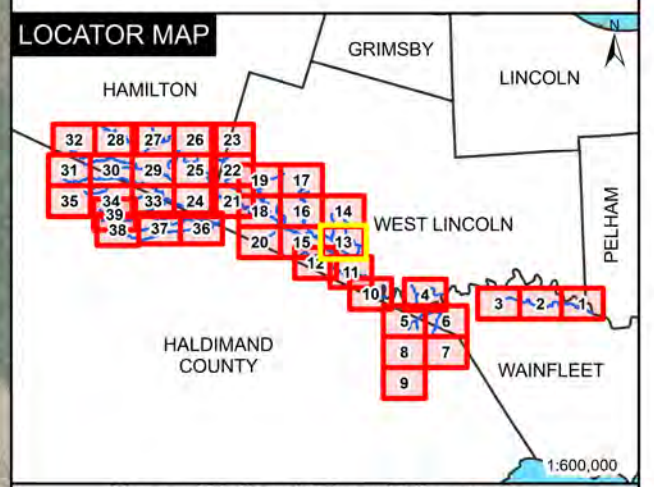
Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.



This project is funded [in part] by the Government of Canada.
This project was made possible in part by the Province of Ontario.

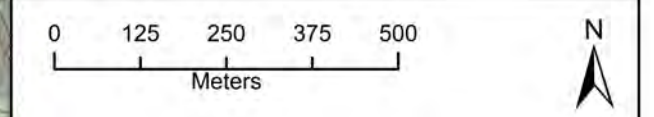


- Legend**
- Municipal Boundary
 - Watershed
 - Railway
 - HEC-RAS Reaches Mapped
 - Other Watercourses
 - Contour
 - Study Area Limit
 - Cross Section (XS Name:)
 - 50yr Floodlines
 - 50yr Floodlines (2D)
 - 100yr Floodlines
 - 100yr Floodplain (2D)
 - 200yr Floodlines
 - 200yr Floodlines (2D)
 - 350yr Floodlines
 - 350yr Floodlines (2D)
 - Spill Zone



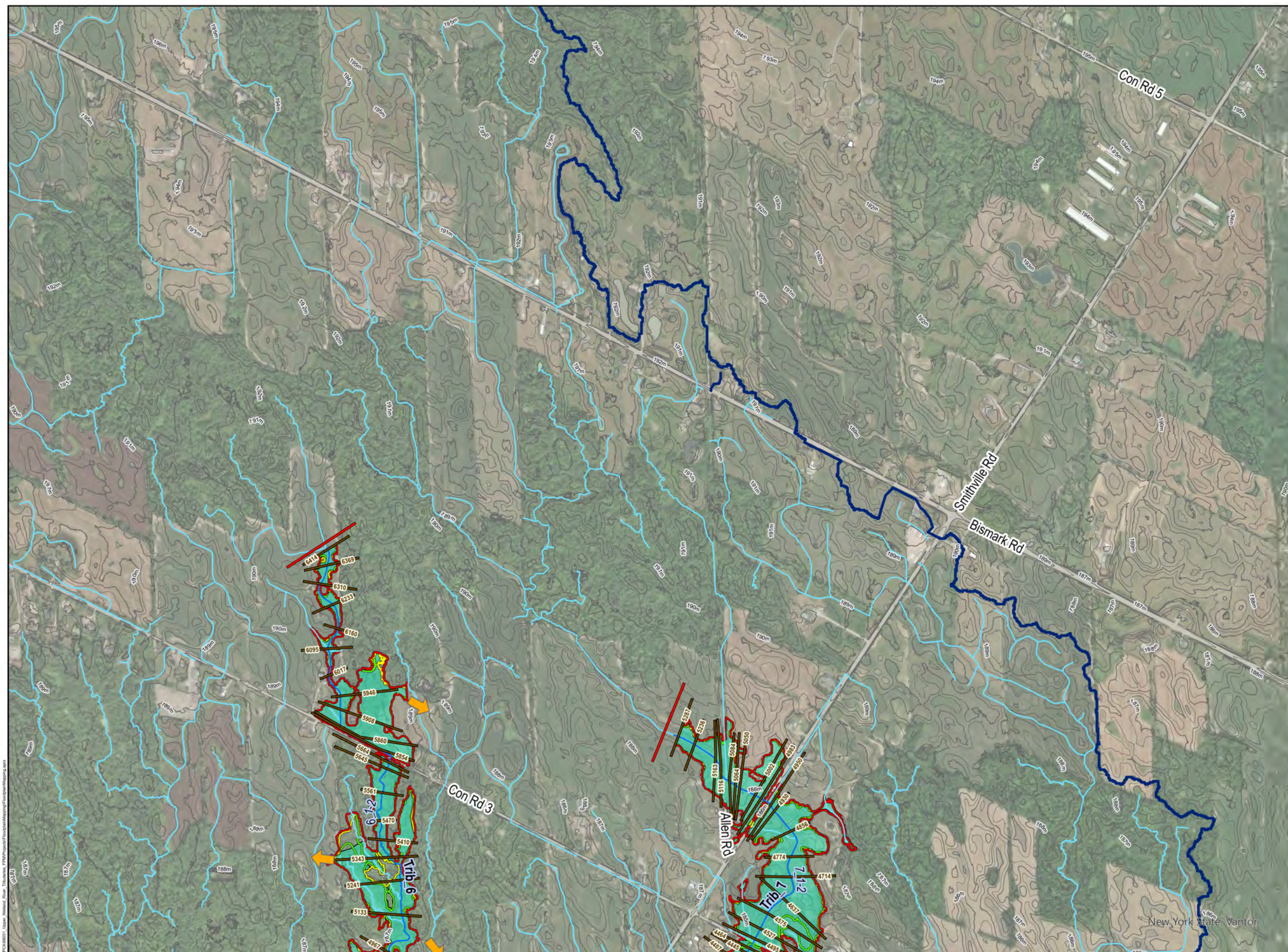
**Upper Welland River Tributaries
Floodplain Comparison Mapping
(13: Mill Creek, Trib 6, Trib 7)**

Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.

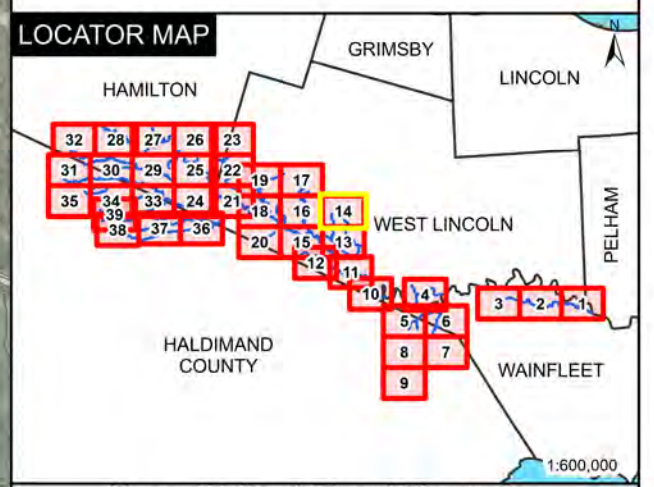


This project is funded [in part] by the Government of Canada.
This project was made possible in part by the Province of Ontario.



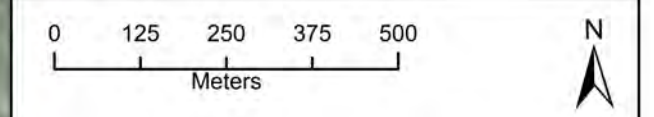


- Legend**
- Municipal Boundary
 - Watershed
 - Railway
 - HEC-RAS Reaches Mapped
 - Other Watercourses
 - Contour
 - Study Area Limit
 - Cross Section (**XS Name:**)
 - 50yr Floodlines
 - 50yr Floodlines (2D)
 - 100yr Floodlines
 - 100yr Floodplain (2D)
 - 200yr Floodlines
 - 200yr Floodlines (2D)
 - 350yr Floodlines
 - 350yr Floodlines (2D)
 - Spill Zone



**Upper Welland River Tributaries
Floodplain Comparison Mapping
(14: Trib 6, Trib 7)**

Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.



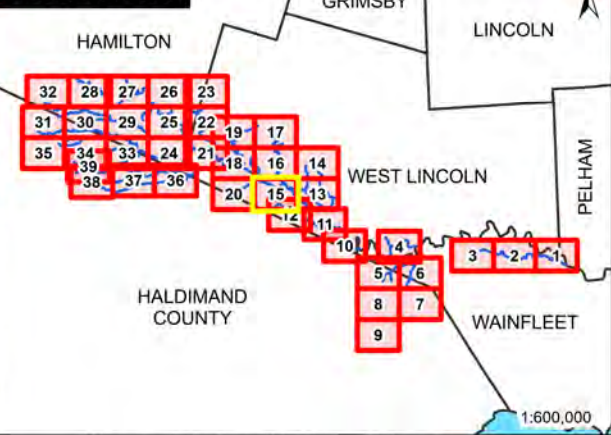
This project is funded [in part] by the Government of Canada.
This project was made possible in part by the Province of Ontario.



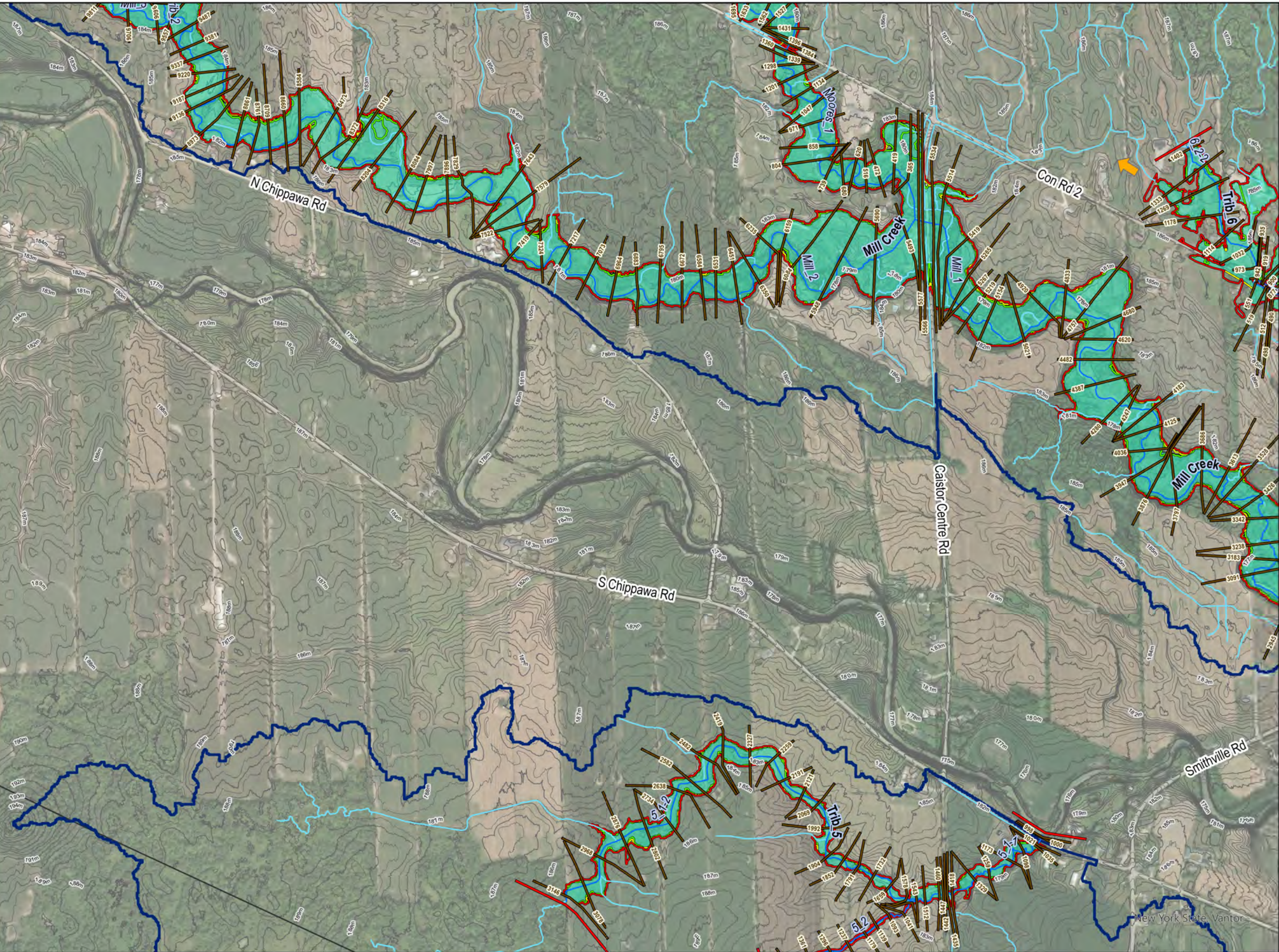
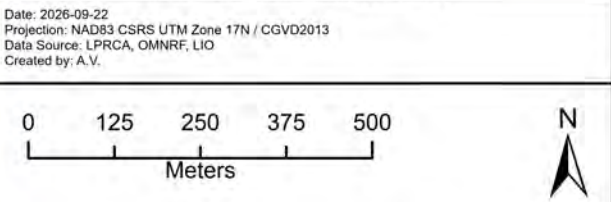
Legend

-  Municipal Boundary
-  Watershed
-  Railway
-  HEC-RAS Reaches Mapped
-  Other Watercourses
-  Contour
-  Study Area Limit
-  Cross Section (XS Name:)
-  50yr Floodlines
-  50yr Floodlines (2D)
-  100yr Floodlines
-  100yr Floodplain (2D)
-  200yr Floodlines
-  200yr Floodlines (2D)
-  350yr Floodlines
-  350yr Floodlines (2D)
-  Spill Zone

LOCATOR MAP



**Upper Welland River Tributaries
Floodplain Comparison Mapping
(15: Mill Creek, Trib 6)**

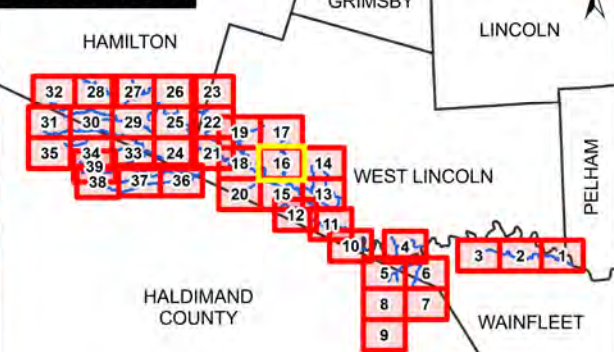


This project is funded [in part] by the Government of Canada.
This project was made possible in part by the Province of Ontario.

Legend

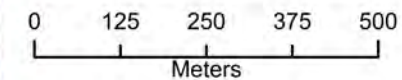
-  Municipal Boundary
-  Watershed
-  Railway
-  HEC-RAS Reaches Mapped
-  Other Watercourses
-  Contour
-  Study Area Limit
-  Cross Section (XS Name:)
-  50yr Floodlines
-  50yr Floodlines (2D)
-  100yr Floodlines
-  100yr Floodplain (2D)
-  200yr Floodlines
-  200yr Floodlines (2D)
-  350yr Floodlines
-  350yr Floodlines (2D)
-  Spill Zone

LOCATOR MAP



**Upper Welland River Tributaries
Floodplain Comparison Mapping
(16: Mill Creek)**

Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.



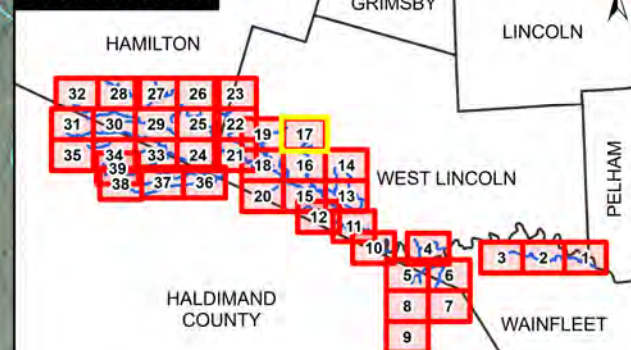
This project is funded [in part] by the Government of Canada.
This project was made possible in part by the Province of Ontario.



Legend

-  Municipal Boundary
-  Watershed
-  Railway
-  HEC-RAS Reaches Mapped
-  Other Watercourses
-  Contour
-  Study Area Limit
-  Cross Section (XS Name:)
-  50yr Floodlines
-  50yr Floodlines (2D)
-  100yr Floodlines
-  100yr Floodplain (2D)
-  200yr Floodlines
-  200yr Floodlines (2D)
-  350yr Floodlines
-  350yr Floodlines (2D)
-  Spill Zone

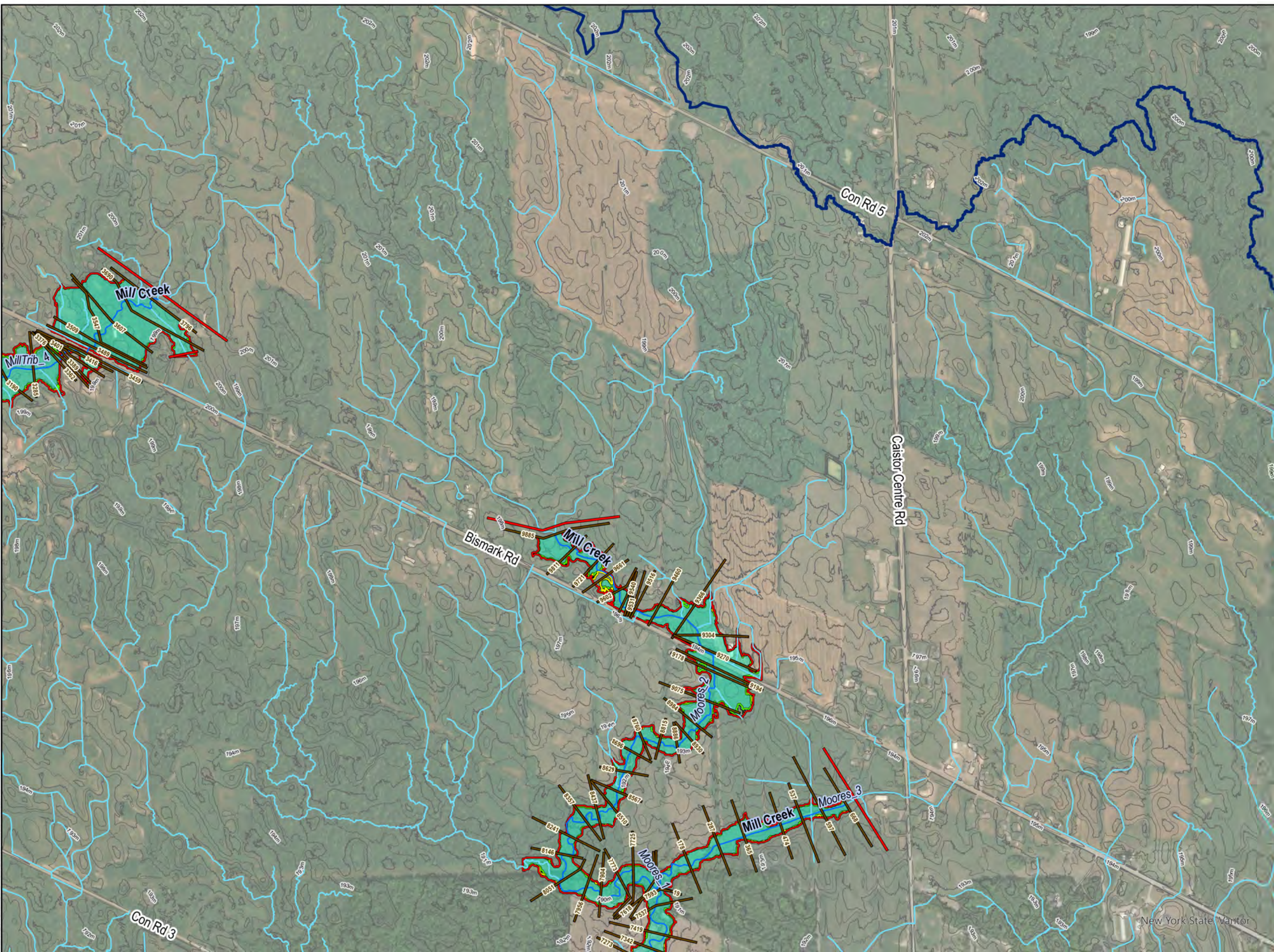
LOCATOR MAP



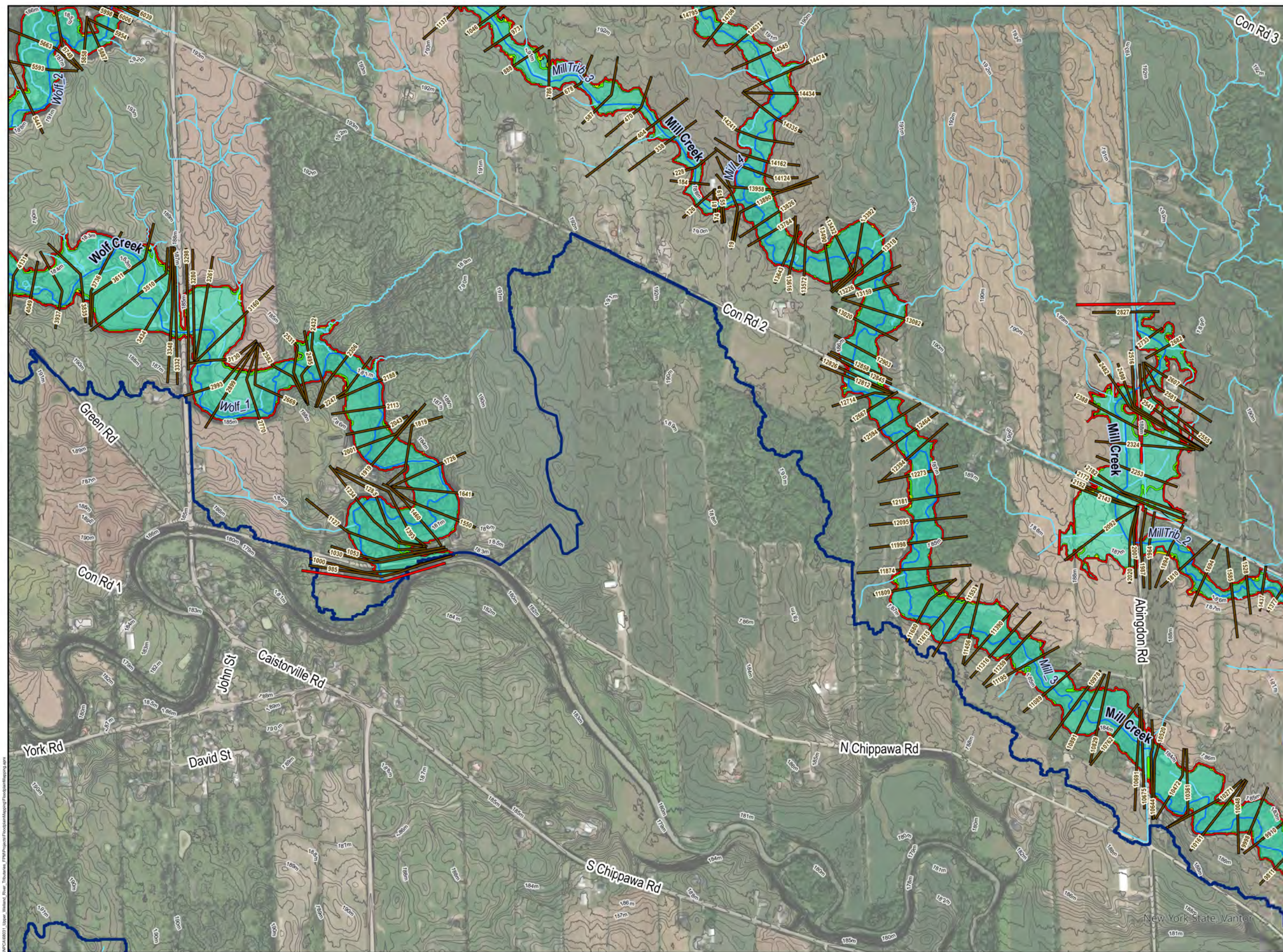
Upper Welland River Tributaries Floodplain Comparison Mapping (17: Mill Creek)

Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.

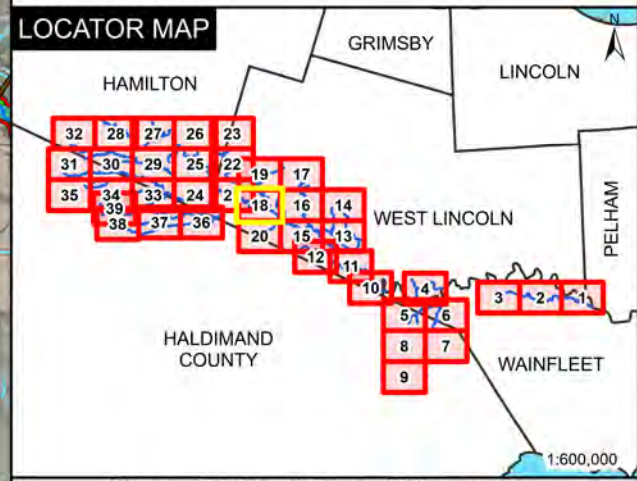
0 125 250 375 500
Meters



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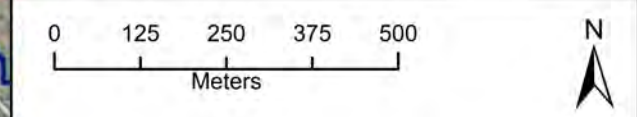


- Legend**
- Municipal Boundary
 - Watershed
 - Railway
 - HEC-RAS Reaches Mapped
 - Other Watercourses
 - Contour
 - Study Area Limit
 - Cross Section (**XS Name:**)
 - 50yr Floodlines
 - 50yr Floodlines (2D)
 - 100yr Floodlines
 - 100yr Floodplain (2D)
 - 200yr Floodlines
 - 200yr Floodlines (2D)
 - 350yr Floodlines
 - 350yr Floodlines (2D)
 - Spill Zone

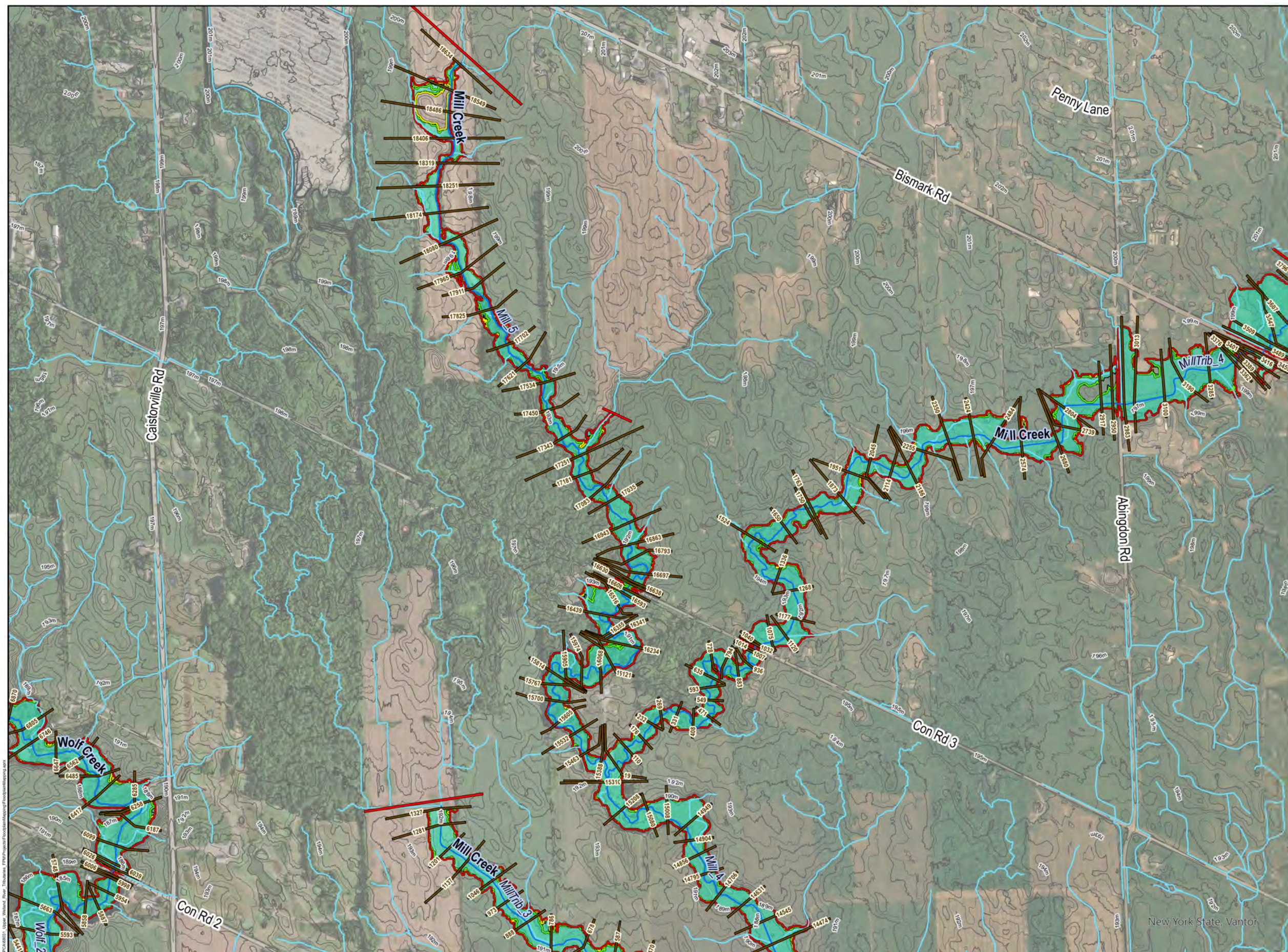


Upper Welland River Tributaries
Floodplain Comparison Mapping
(18: Mill Creek)

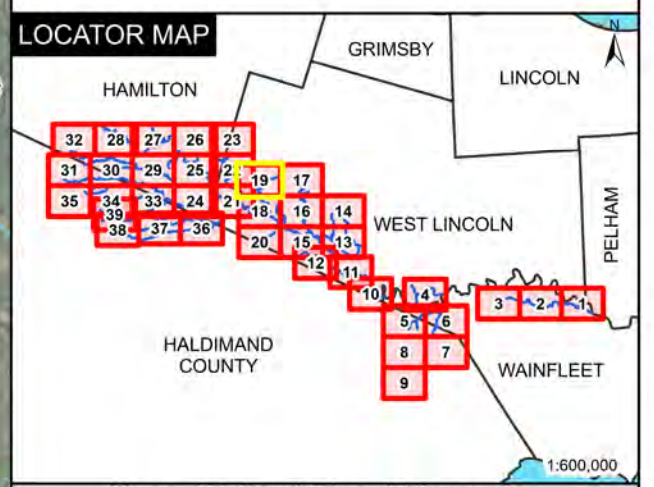
Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.



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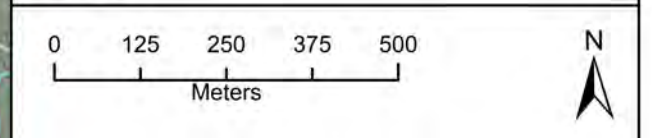


- Legend**
- Municipal Boundary
 - Watershed
 - Railway
 - HEC-RAS Reaches Mapped
 - Other Watercourses
 - Contour
 - Study Area Limit
 - Cross Section (XS Name:)
 - 50yr Floodlines
 - 50yr Floodlines (2D)
 - 100yr Floodlines
 - 100yr Floodplain (2D)
 - 200yr Floodlines
 - 200yr Floodlines (2D)
 - 350yr Floodlines
 - 350yr Floodlines (2D)
 - Spill Zone



Upper Welland River Tributaries
Floodplain Comparison Mapping
(19: Mill Creek)

Date: 2026-09-22
Projection: NAD83 CSRS UTM Zone 17N / CGVD2013
Data Source: LPRCA, OMNRF, LIO
Created by: A.V.



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