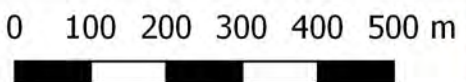
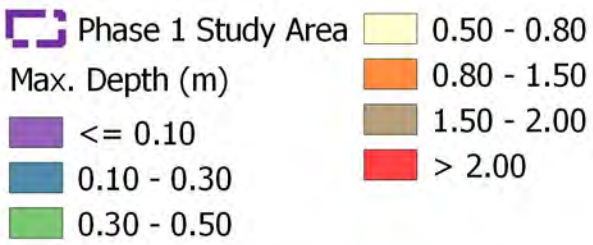
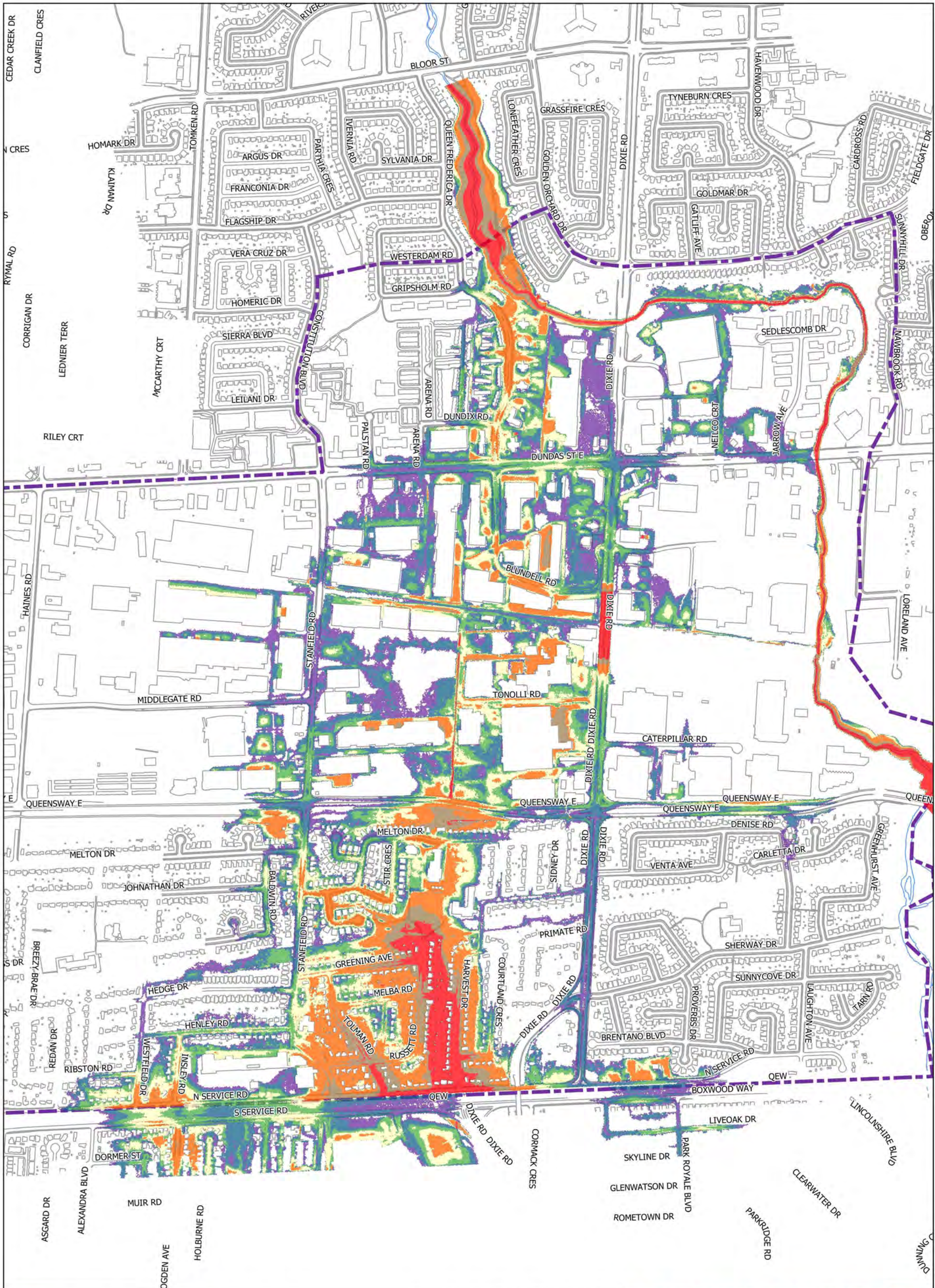


APPENDIX B
Flood Hazard and Risk Mapping



1:10,000



Run Date: August 14, 2017
Figure Date: August 17, 2017



Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results

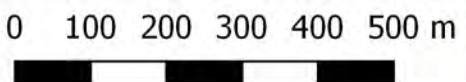
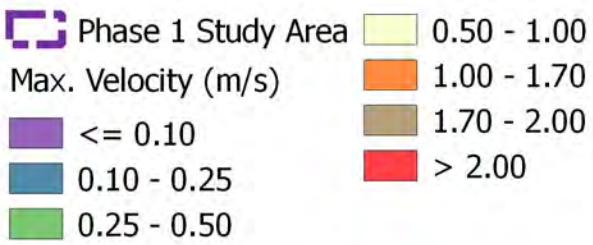
Project #24603

Regional Storm - Steady State
Depth

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K Molnar
K Hofbauer

Map 1.1



1:10,000



Run Date: August 14, 2017
Figure Date: August 17, 2017

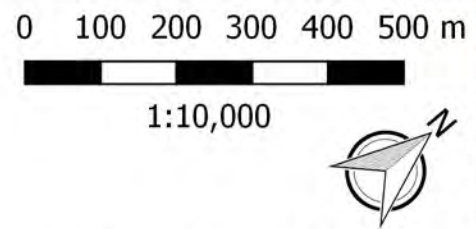
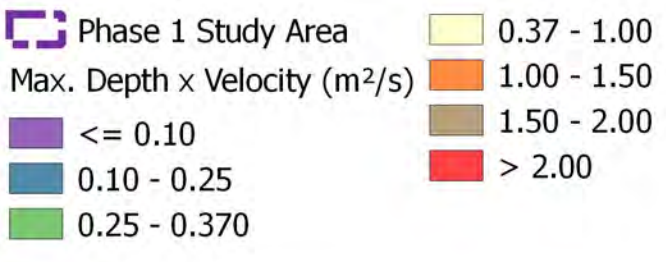


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

Regional Storm - Steady State
Velocity

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K. Molnar
K. Hofbauer
Map 1.2



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ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

**Regional Storm - Steady State
Depth x Velocity Product**

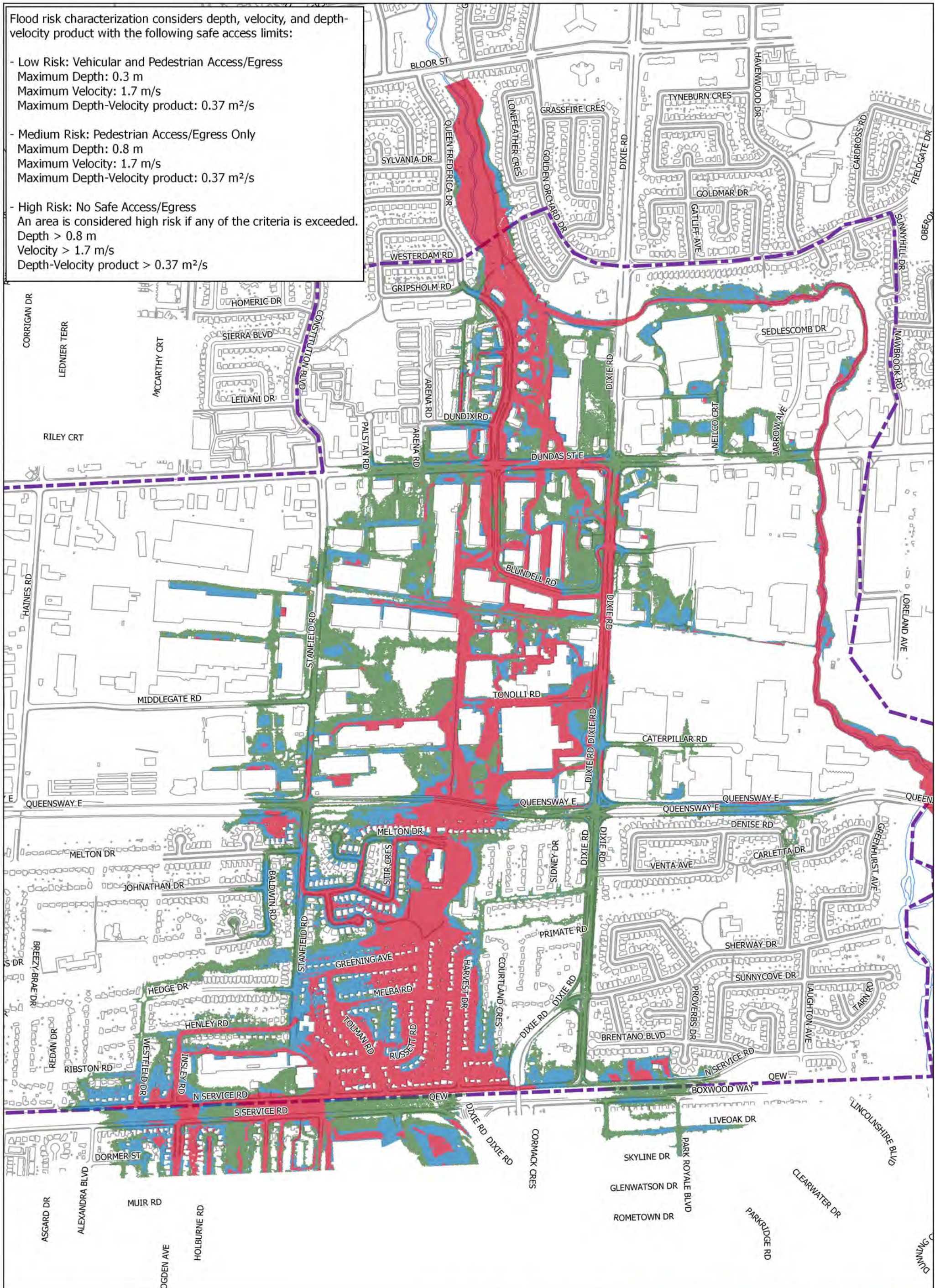
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K. Molnar
K. Hofbauer
Map 1.3

Run Date: August 14, 2017
Figure Date: August 17, 2017

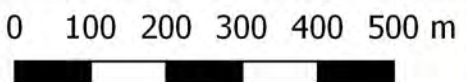
Flood risk characterization considers depth, velocity, and depth-velocity product with the following safe access limits:

- Low Risk: Vehicular and Pedestrian Access/Egress
Maximum Depth: 0.3 m
Maximum Velocity: 1.7 m/s
Maximum Depth-Velocity product: 0.37 m²/s
- Medium Risk: Pedestrian Access/Egress Only
Maximum Depth: 0.8 m
Maximum Velocity: 1.7 m/s
Maximum Depth-Velocity product: 0.37 m²/s
- High Risk: No Safe Access/Egress
An area is considered high risk if any of the criteria is exceeded.
Depth > 0.8 m
Velocity > 1.7 m/s
Depth-Velocity product > 0.37 m²/s



Phase 1 Study Area

- Risk
- Low (Vehicular and Pedestrian Access/Egress)
 - Medium (Pedestrian Access/Egress Only)
 - High (No Safe Access/Egress)



1:10,000



Run Date: August 14, 2017
Figure Date: August 17, 2017

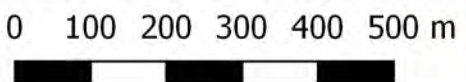
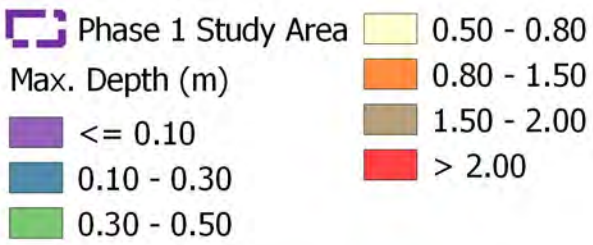
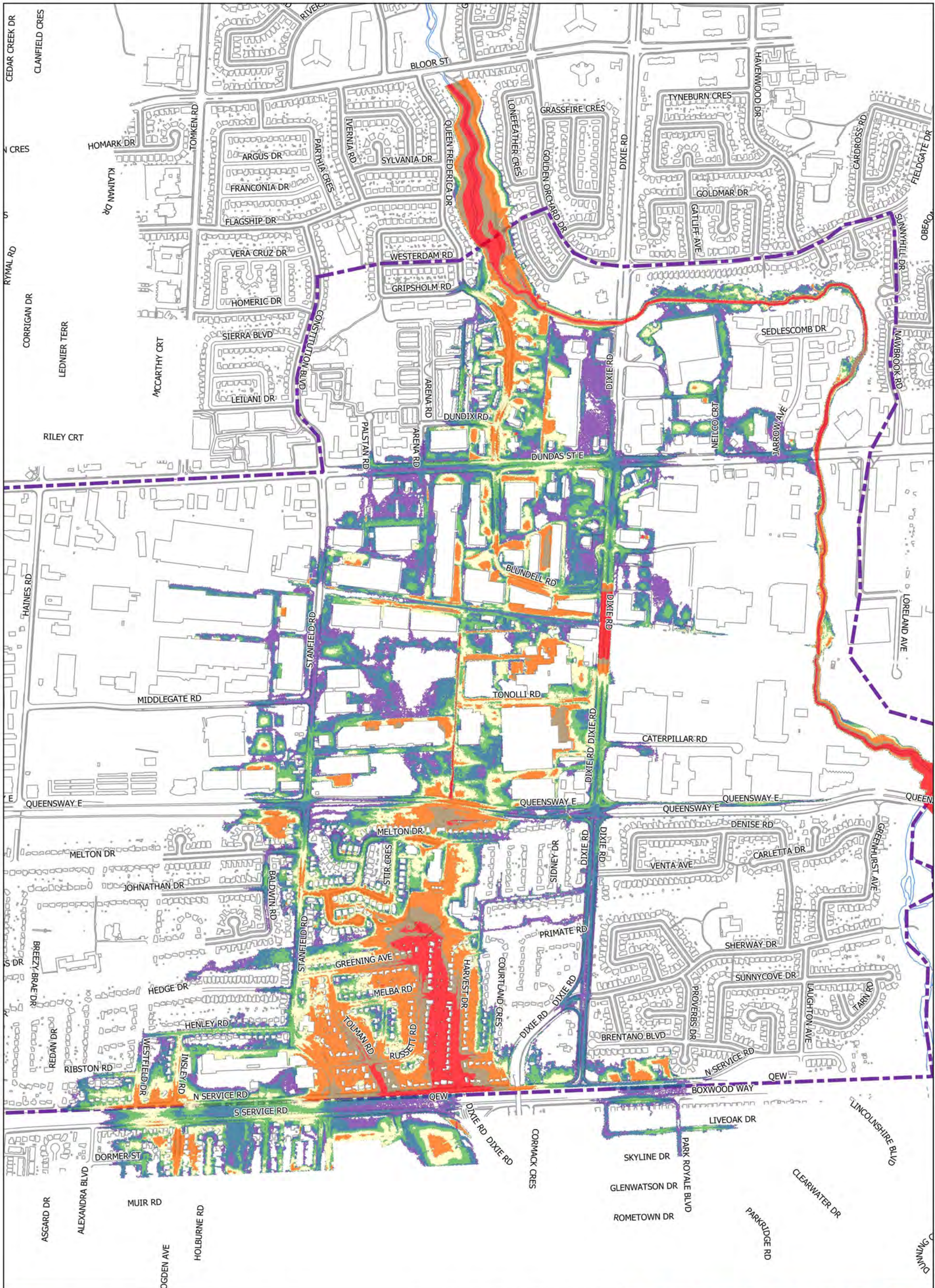


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

Regional Storm - Steady State
Flood Risk

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K Molnar
K Hofbauer
Map 1.4



1:10,000



Run Date: August 14, 2017
Figure Date: August 17, 2017

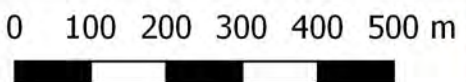
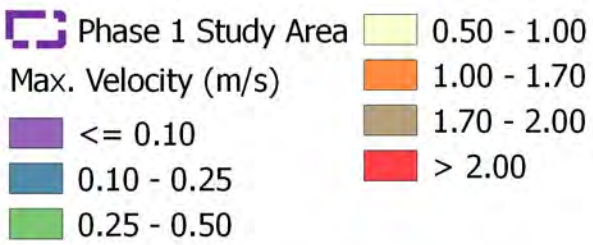


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

Regional Storm - Unsteady State
Depth

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K Molnar
K Hofbauer
Map 2.1



1:10,000



Run Date: August 14, 2017
Figure Date: August 17, 2017

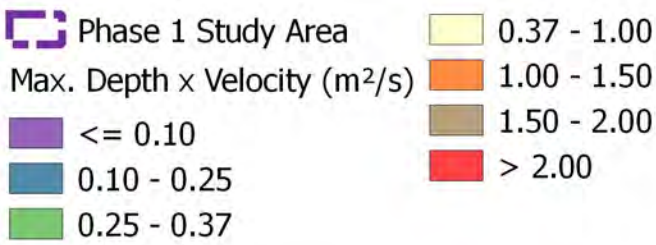


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

Regional Storm - Unsteady State
Velocity

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K. Molnar
K. Hofbauer
Map 2.2



1:10,000



Run Date: August 14, 2017
Figure Date: August 17, 2017



Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

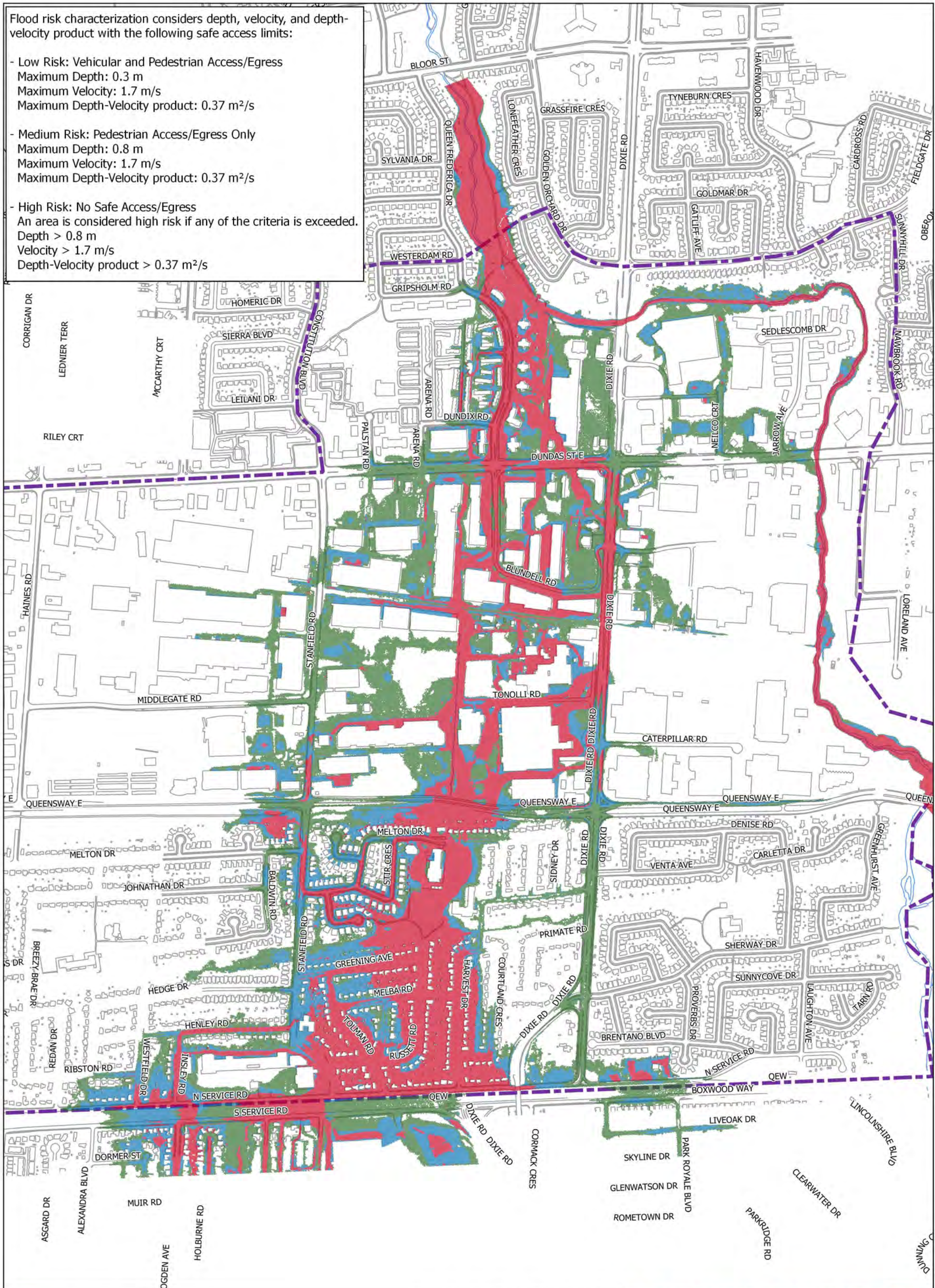
**Regional Storm - Unsteady State
Depth x Velocity Product**

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K Molnar
K Hofbauer
Map 2.3

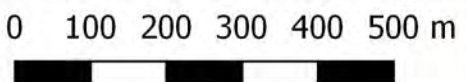
Flood risk characterization considers depth, velocity, and depth-velocity product with the following safe access limits:

- Low Risk: Vehicular and Pedestrian Access/Egress
Maximum Depth: 0.3 m
Maximum Velocity: 1.7 m/s
Maximum Depth-Velocity product: 0.37 m²/s
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Maximum Depth: 0.8 m
Maximum Velocity: 1.7 m/s
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- High Risk: No Safe Access/Egress
An area is considered high risk if any of the criteria is exceeded.
Depth > 0.8 m
Velocity > 1.7 m/s
Depth-Velocity product > 0.37 m²/s



Phase 1 Study Area

- Risk
- Low (Vehicular and Pedestrian Access/Egress)
 - Medium (Pedestrian Access/Egress Only)
 - High (No Safe Access/Egress)



1:10,000



Run Date: August 14, 2017
Figure Date: August 17, 2017

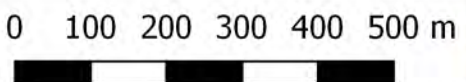
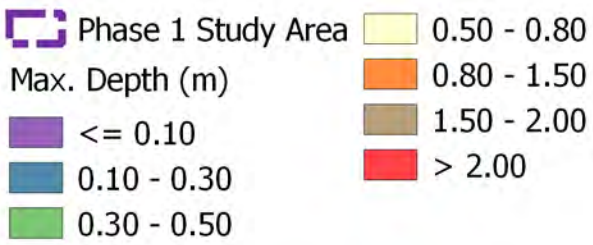
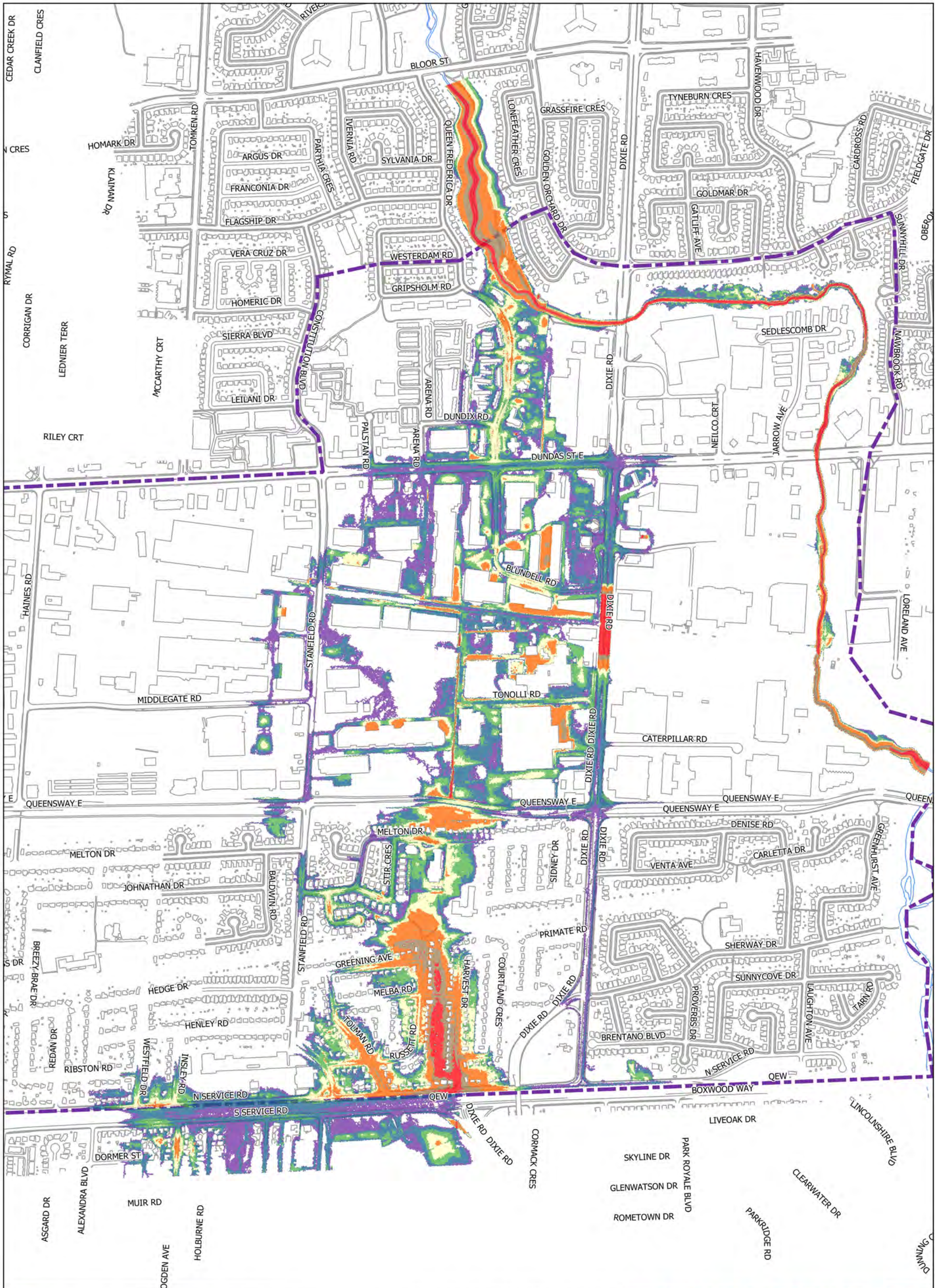


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

Regional Storm - Unsteady State
Flood Risk

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K. Molnar
K. Hofbauer
Map 2.4



1:10,000



Run Date: October 1, 2017
Figure Date: October 2, 2017

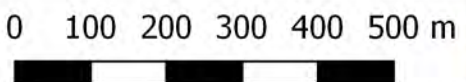
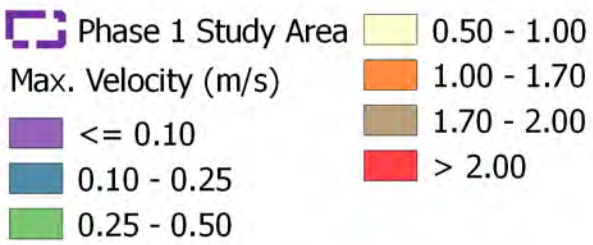
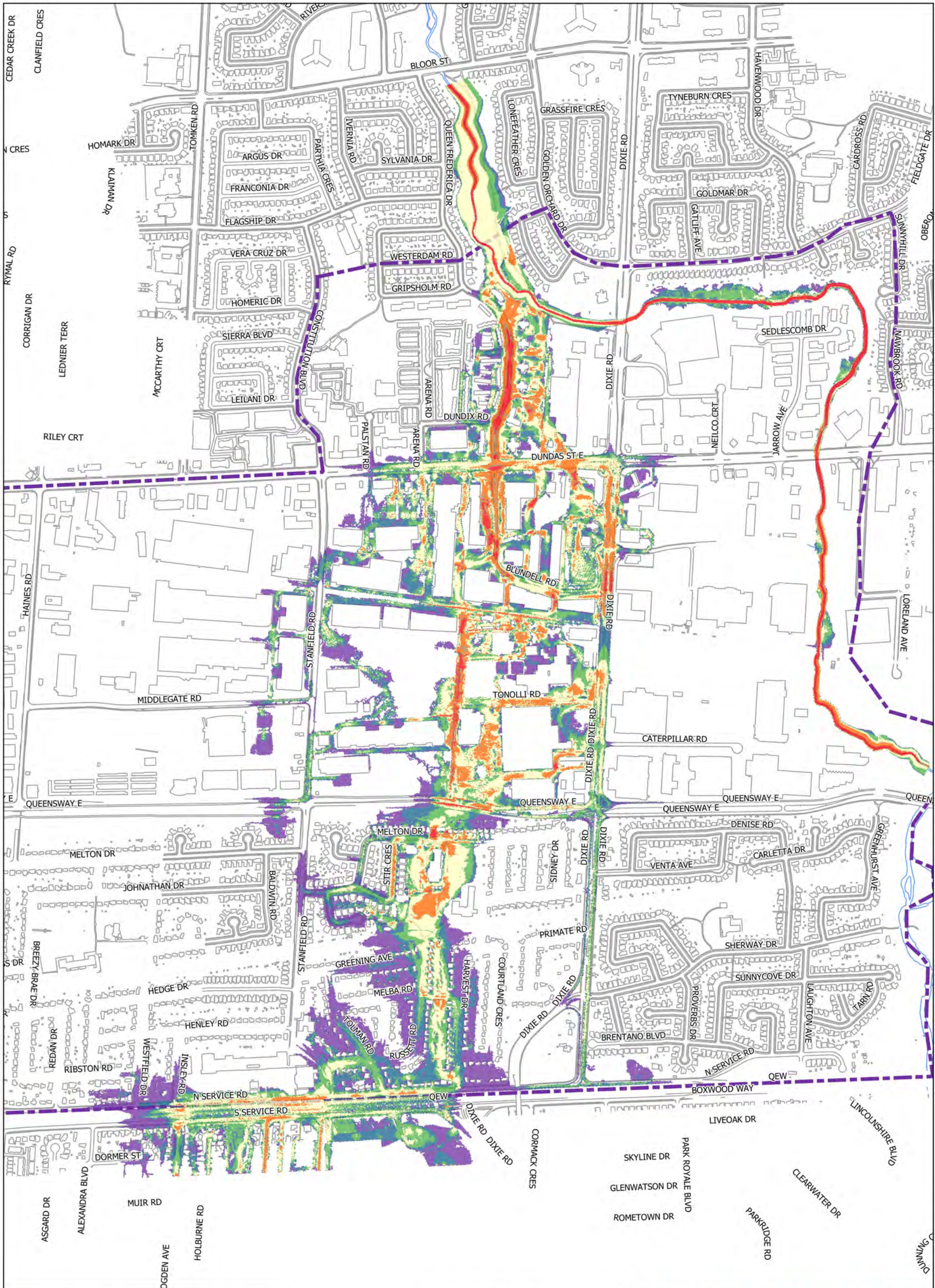


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

100-year 24-hour Chicago - Unsteady State
Depth

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K. Molnar
K. Hofbauer
Map 3.1



1:10,000



Run Date: October 1, 2017
Figure Date: October 2, 2017

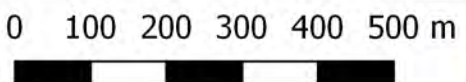
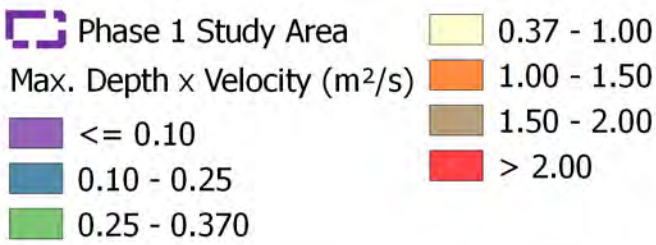
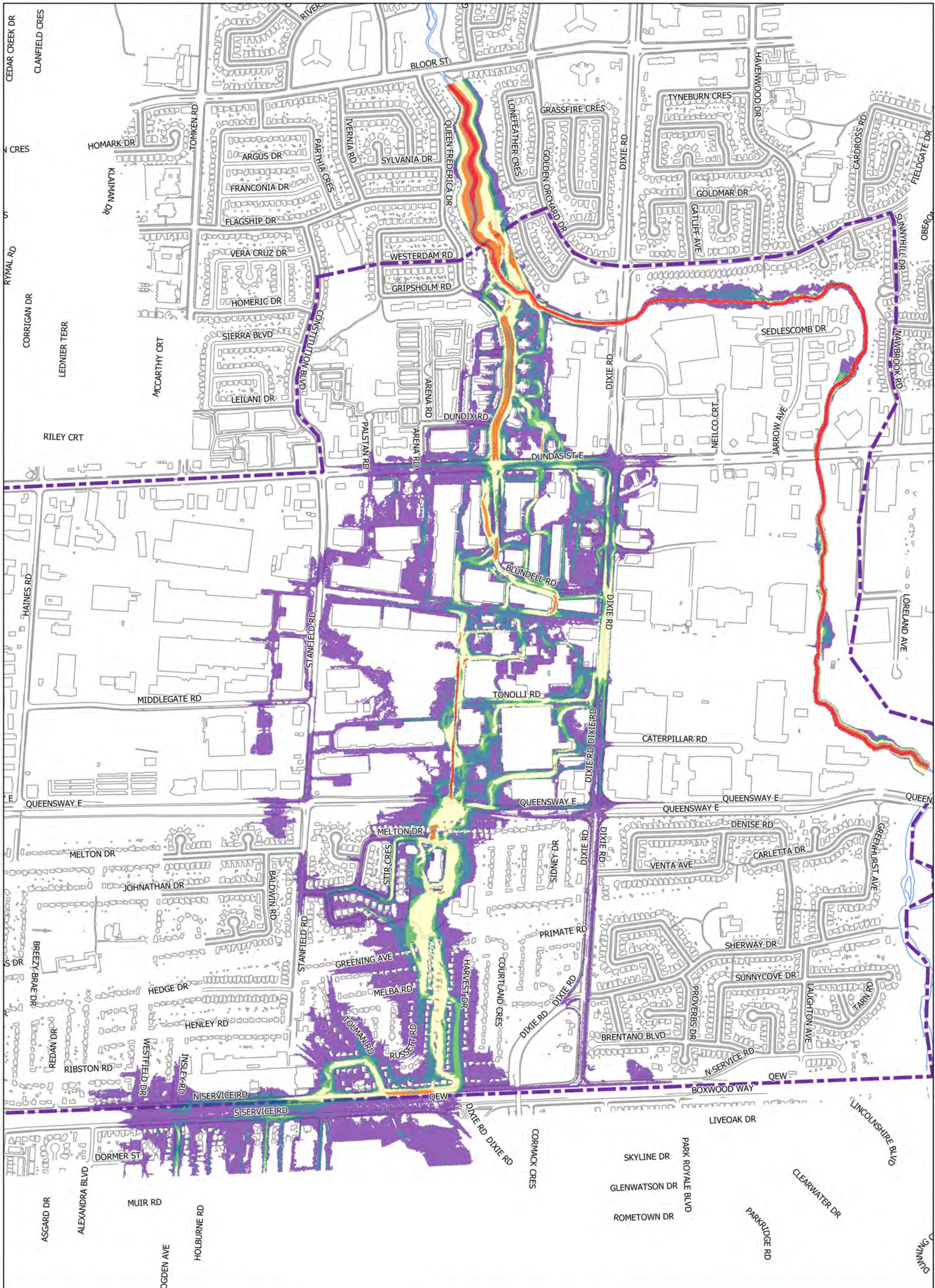


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

100-year 24-hour Chicago - Unsteady State Velocity

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K Molnar
K Hofbauer
Map 3.2



1:10,000



Run Date: October 1, 2017
Figure Date: October 2, 2017



Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

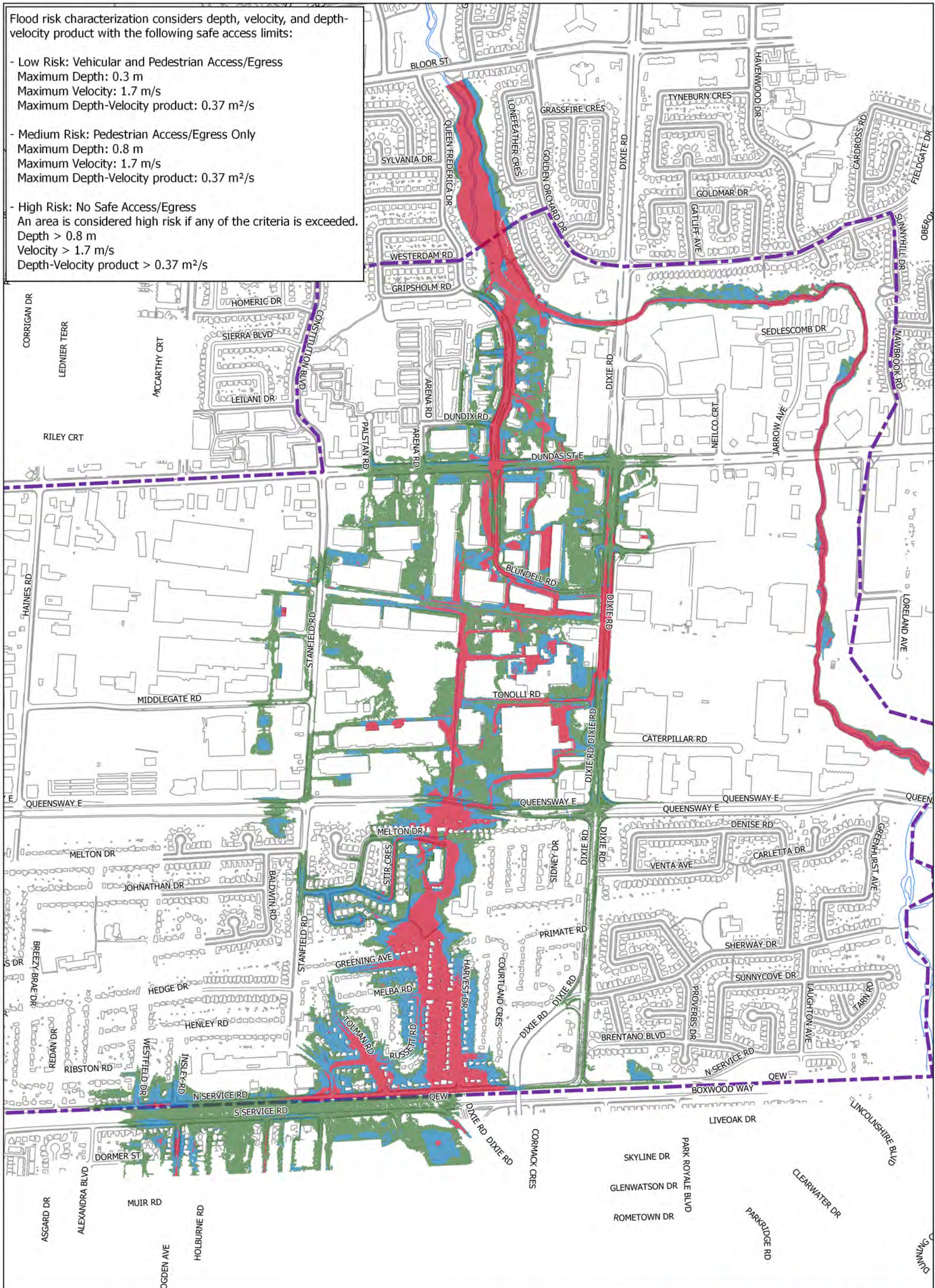
100-year 24-hour Chicago - Unsteady State
Depth x Velocity Product

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K Molnar
K Hofbauer
Map 3.3

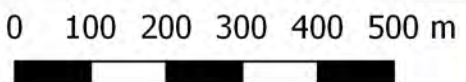
Flood risk characterization considers depth, velocity, and depth-velocity product with the following safe access limits:

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Maximum Velocity: 1.7 m/s
Maximum Depth-Velocity product: 0.37 m²/s
- Medium Risk: Pedestrian Access/Egress Only
Maximum Depth: 0.8 m
Maximum Velocity: 1.7 m/s
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- High Risk: No Safe Access/Egress
An area is considered high risk if any of the criteria is exceeded.
Depth > 0.8 m
Velocity > 1.7 m/s
Depth-Velocity product > 0.37 m²/s



Phase 1 Study Area

- Risk
- Low (Vehicular and Pedestrian Access/Egress)
 - Medium (Pedestrian Access/Egress Only)
 - High (No Safe Access/Egress)



1:10,000



Run Date: October 1, 2017
Figure Date: October 2, 2017

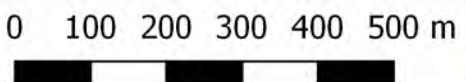
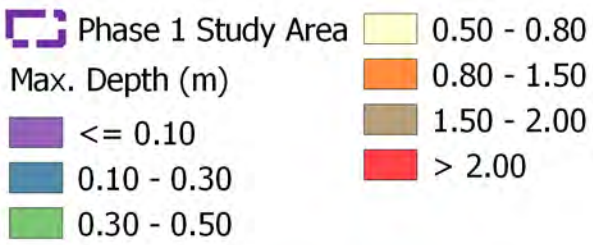
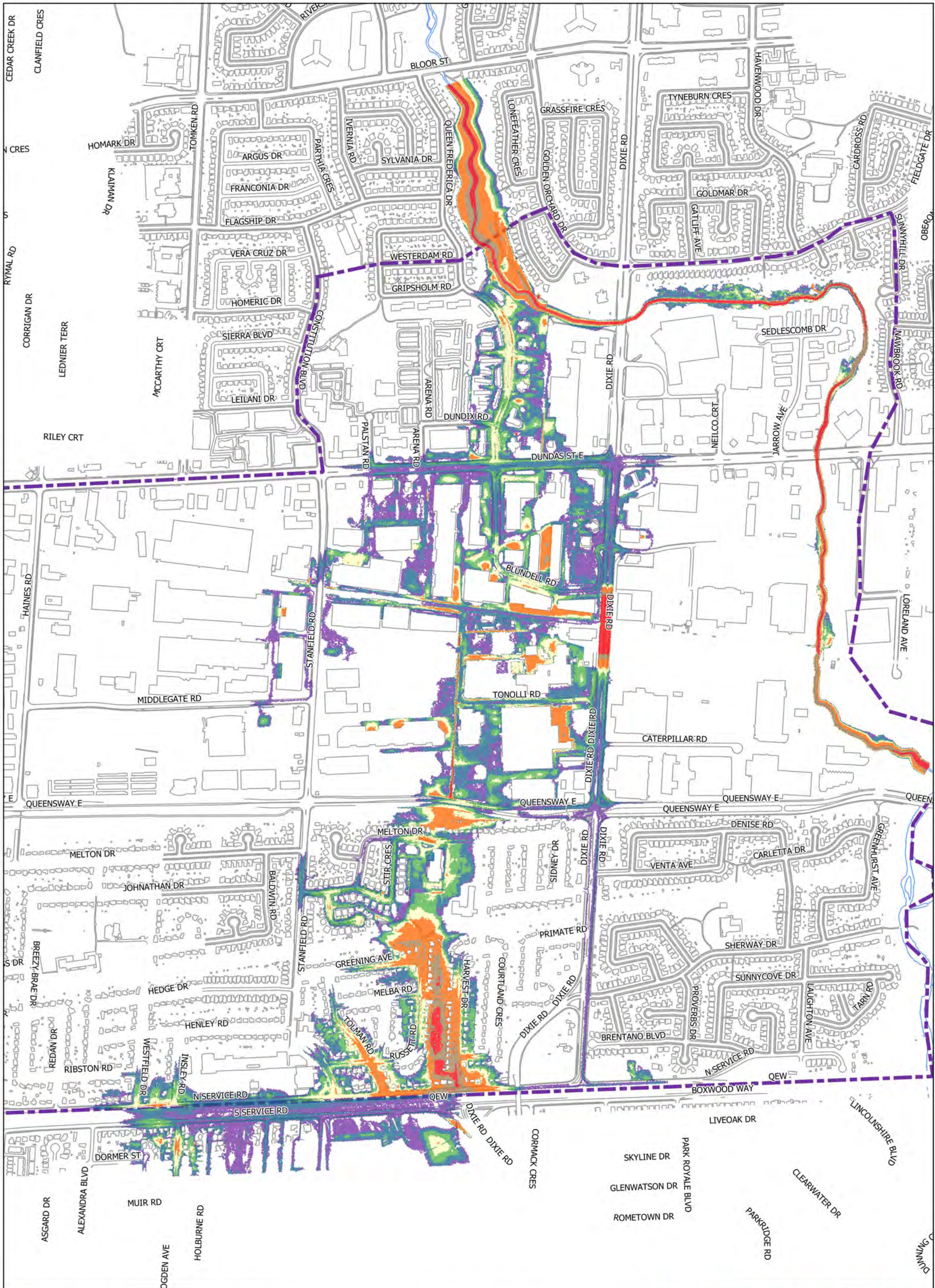


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

100-year 24-hour Chicago - Unsteady State
Flood Risk

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K Molnar
K Hofbauer
Map 3.4



1:10,000



Run Date: September 29, 2017
Figure Date: October 2, 2017

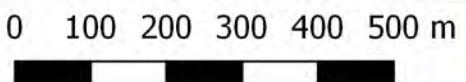
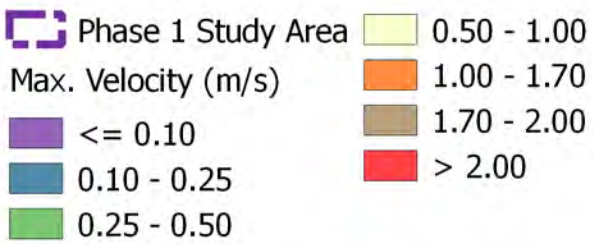
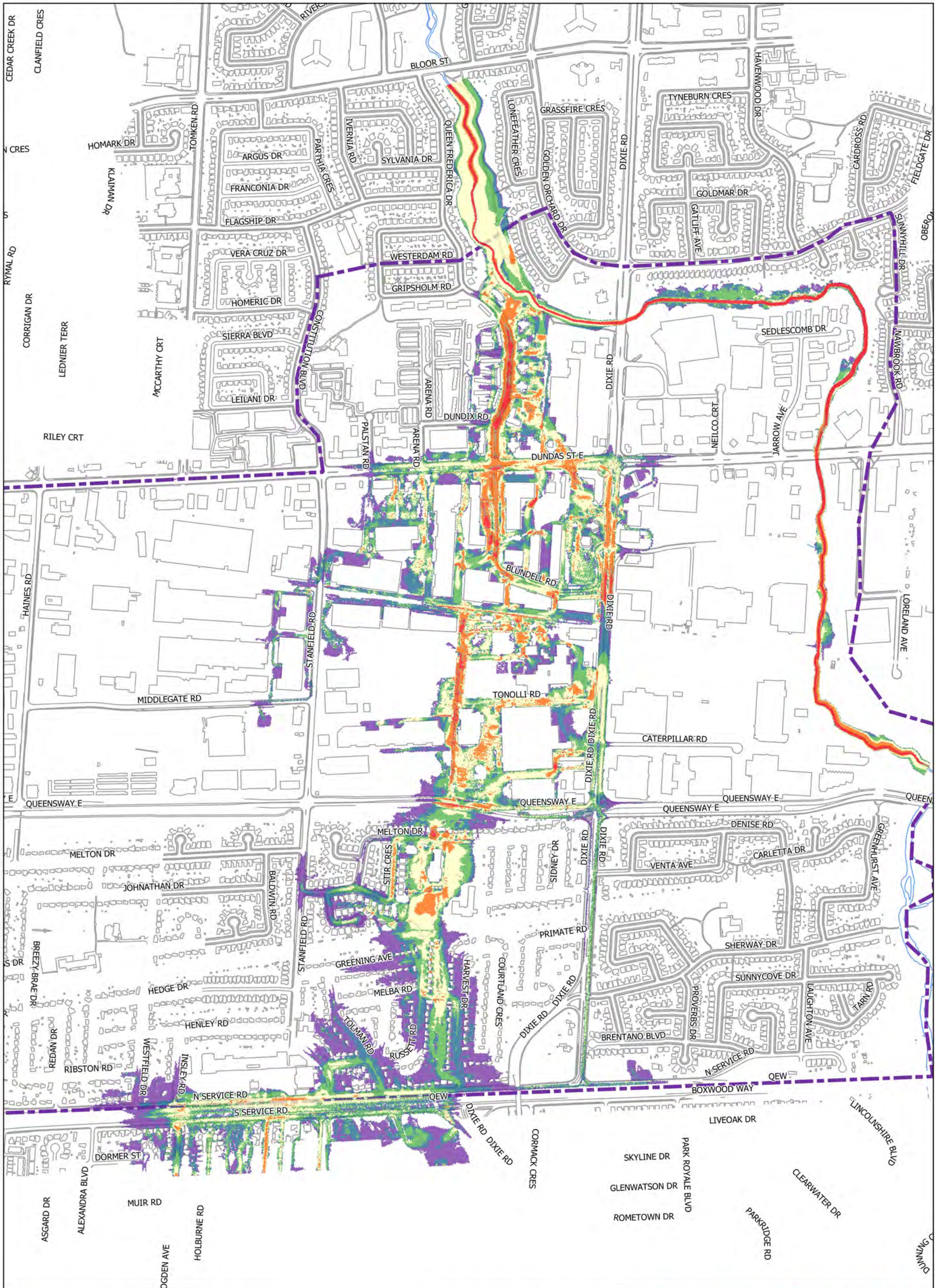


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

50-year 24-hour Chicago - Unsteady State
Depth

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K. Molnar
K. Hofbauer
Map 4.1



1:10,000



Run Date: September 29, 2017
Figure Date: October 2, 2017

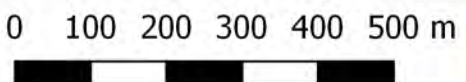
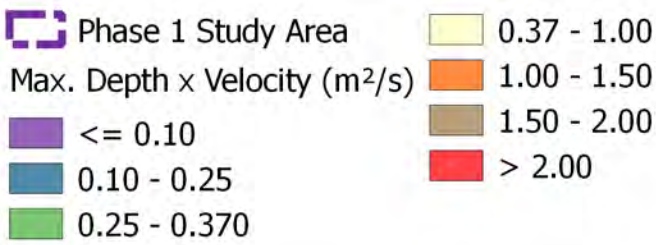
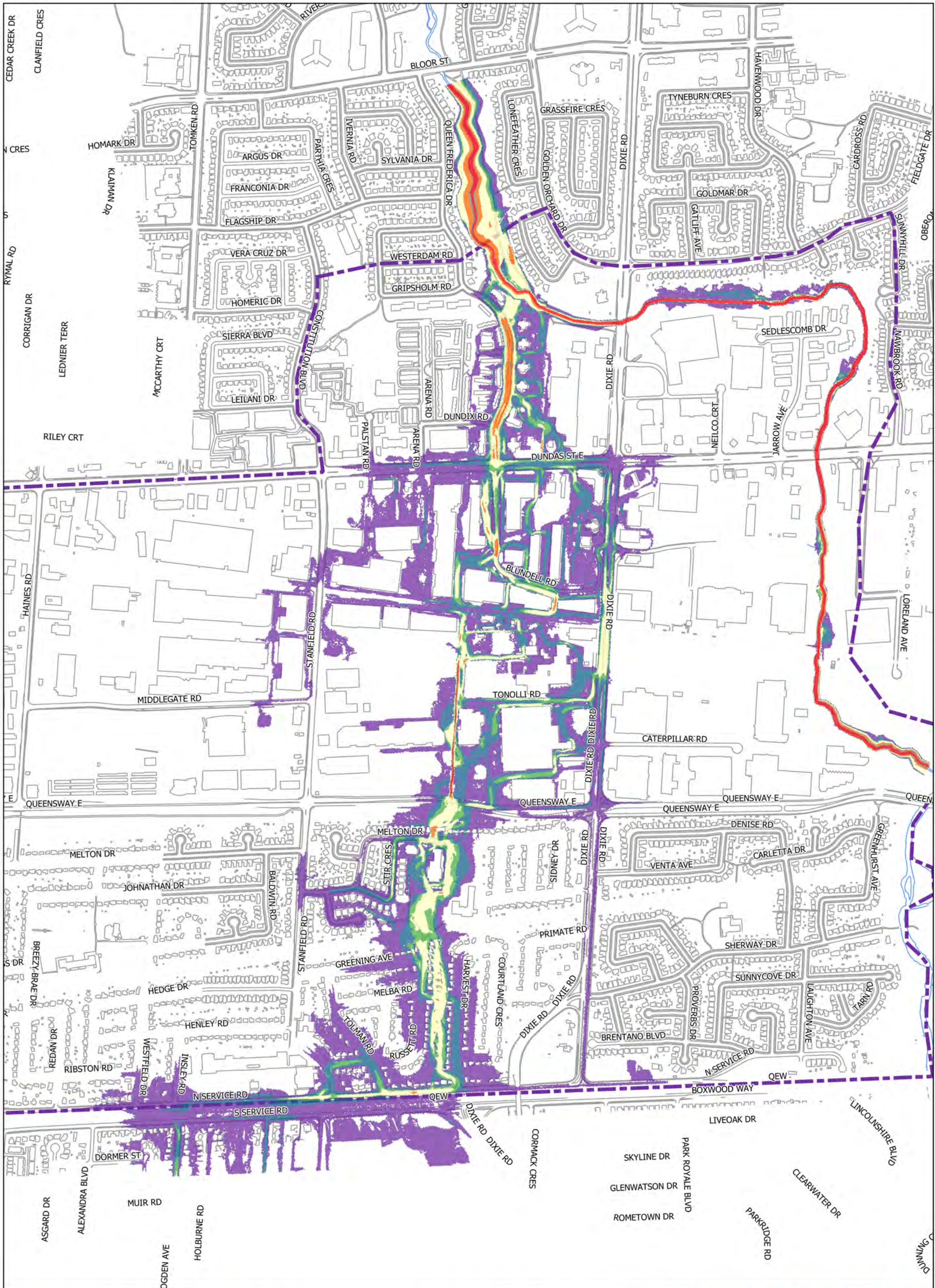


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

50-year 24-hour Chicago - Unsteady State Velocity

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K Molnar
K Hofbauer
Map 4.2



1:10,000



Run Date: September 29, 2017
Figure Date: October 2, 2017



Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

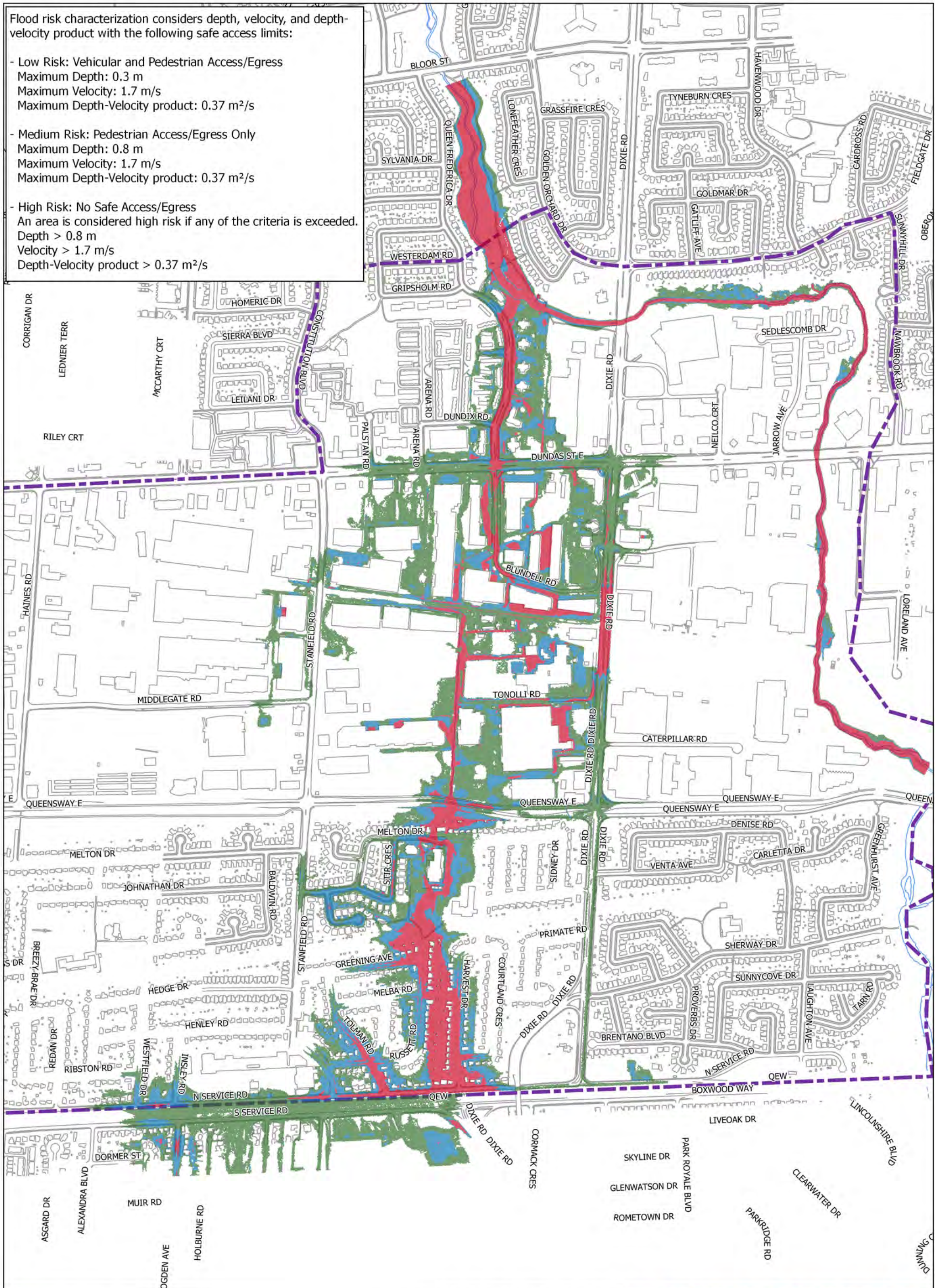
50-year 24-hour Chicago - Unsteady State
Depth x Velocity Product

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K Molnar
K Hofbauer
Map 4.3

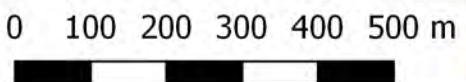
Flood risk characterization considers depth, velocity, and depth-velocity product with the following safe access limits:

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Maximum Velocity: 1.7 m/s
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Maximum Depth: 0.8 m
Maximum Velocity: 1.7 m/s
Maximum Depth-Velocity product: 0.37 m²/s
- High Risk: No Safe Access/Egress
An area is considered high risk if any of the criteria is exceeded.
Depth > 0.8 m
Velocity > 1.7 m/s
Depth-Velocity product > 0.37 m²/s



Phase 1 Study Area

- Risk**
- Low (Vehicular and Pedestrian Access/Egress)
 - Medium (Pedestrian Access/Egress Only)
 - High (No Safe Access/Egress)



1:10,000



Run Date: September 29, 2017
Figure Date: October 2, 2017

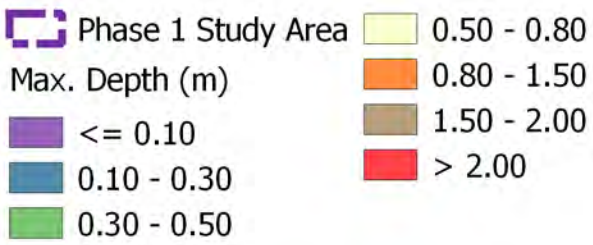
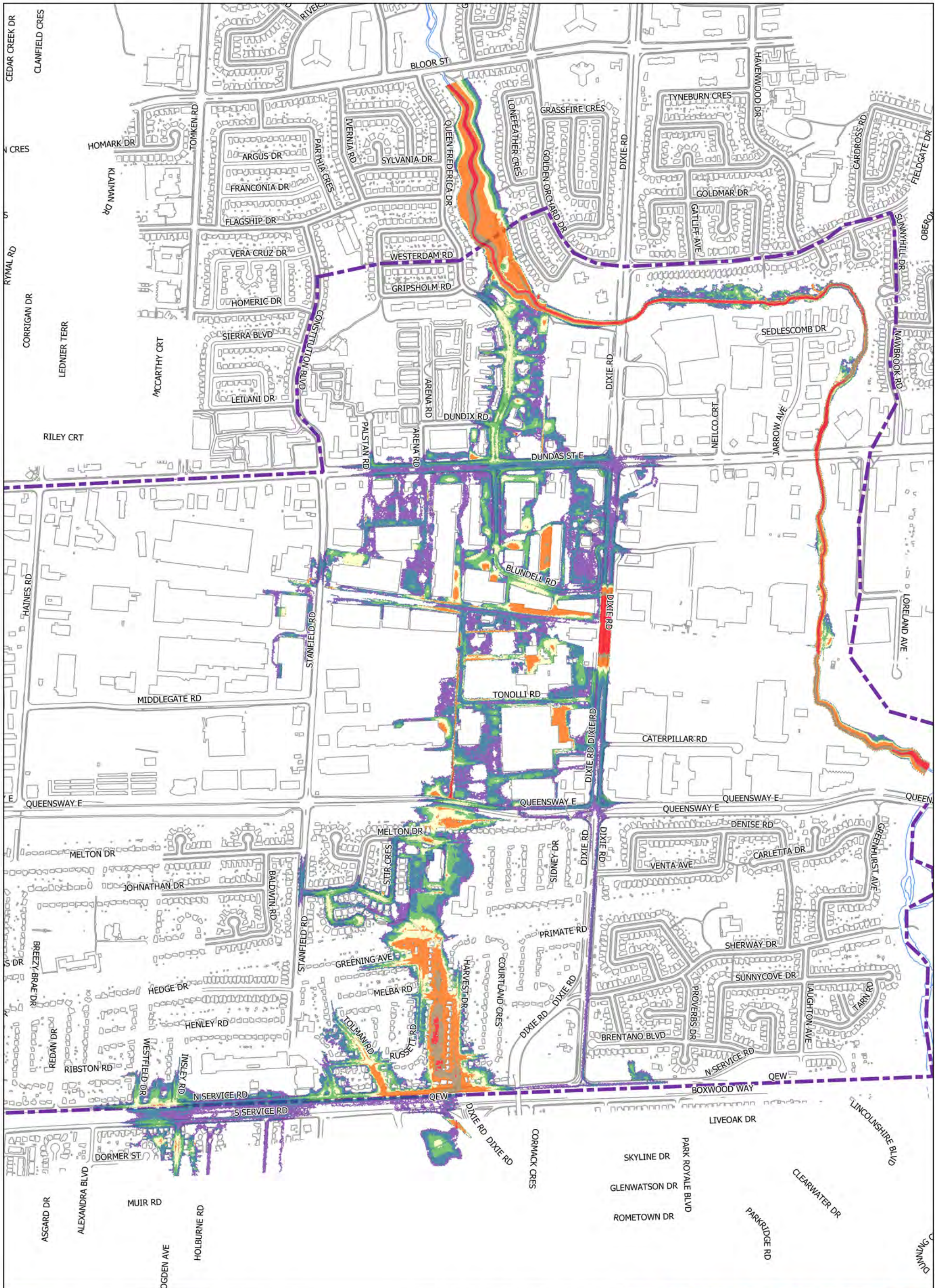


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

**50-year 24-hour Chicago - Unsteady State
Flood Risk**

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K Molnar
K Hofbauer
Map 4.4



1:10,000



Run Date: October 3, 2017
Figure Date: October 12, 2017

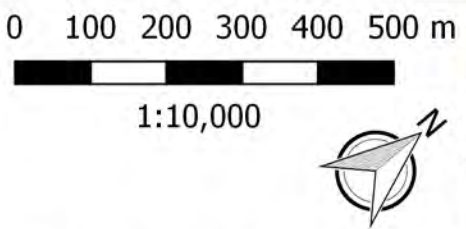
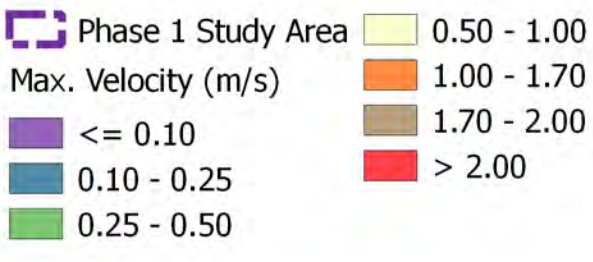


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

25-year 24-hour Chicago - Unsteady State
Depth

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K Molnar
K Hofbauer
Map 5.1



Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

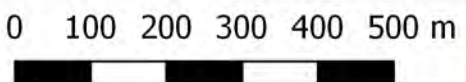
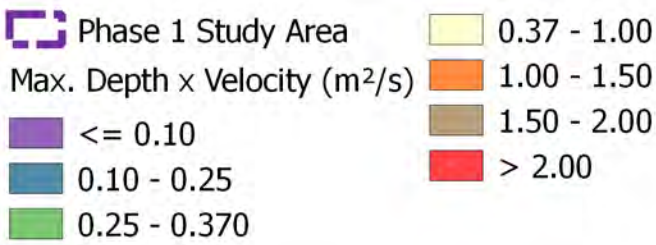
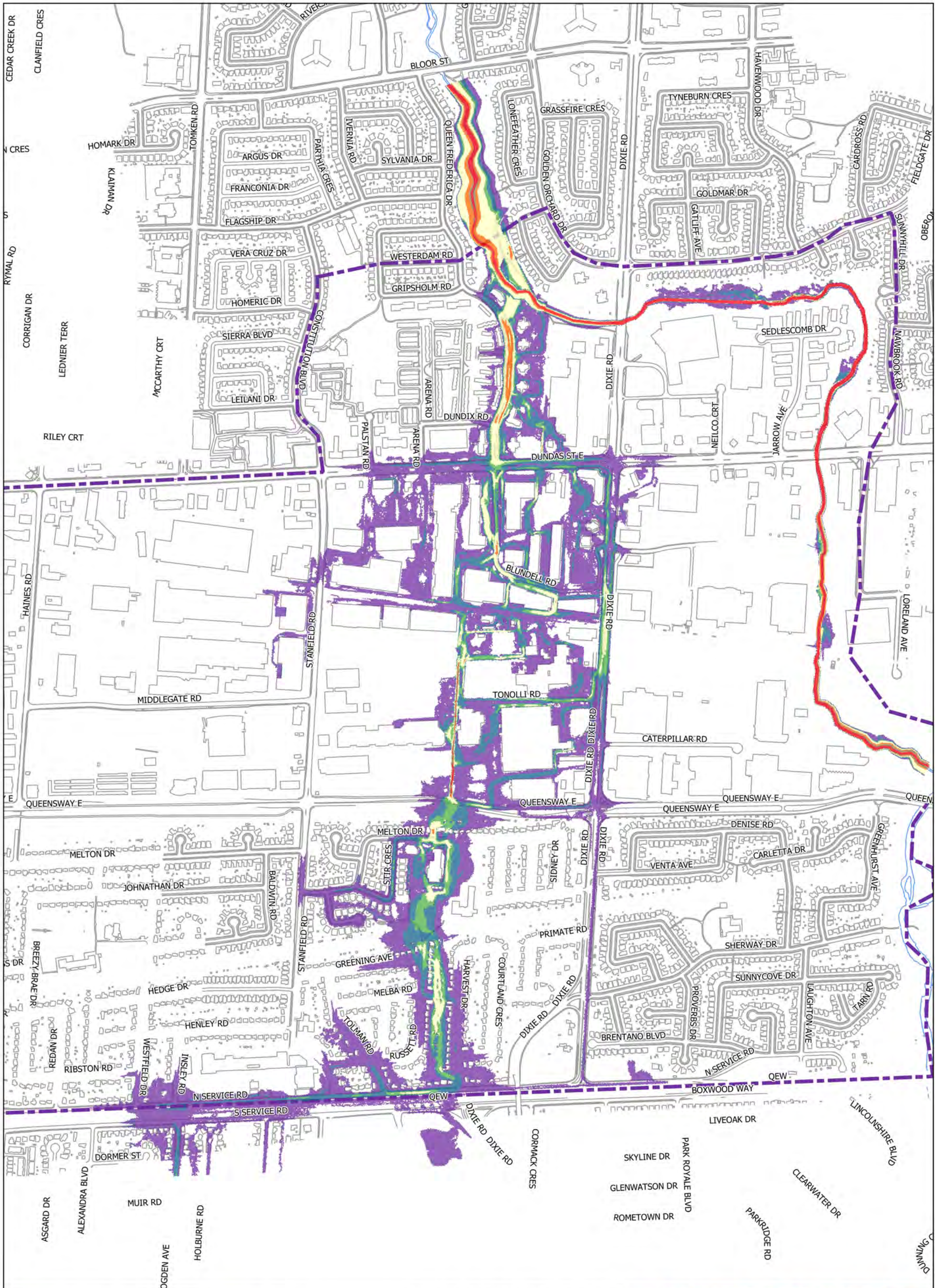
Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results Project #24603

25-year 24-hour Chicago - Unsteady State Velocity

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K Molnar
K Hofbauer
Map 5.2

Run Date: October 3, 2017
Figure Date: October 12, 2017



1:10,000



Run Date: October 3, 2017
Figure Date: October 12, 2017



Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

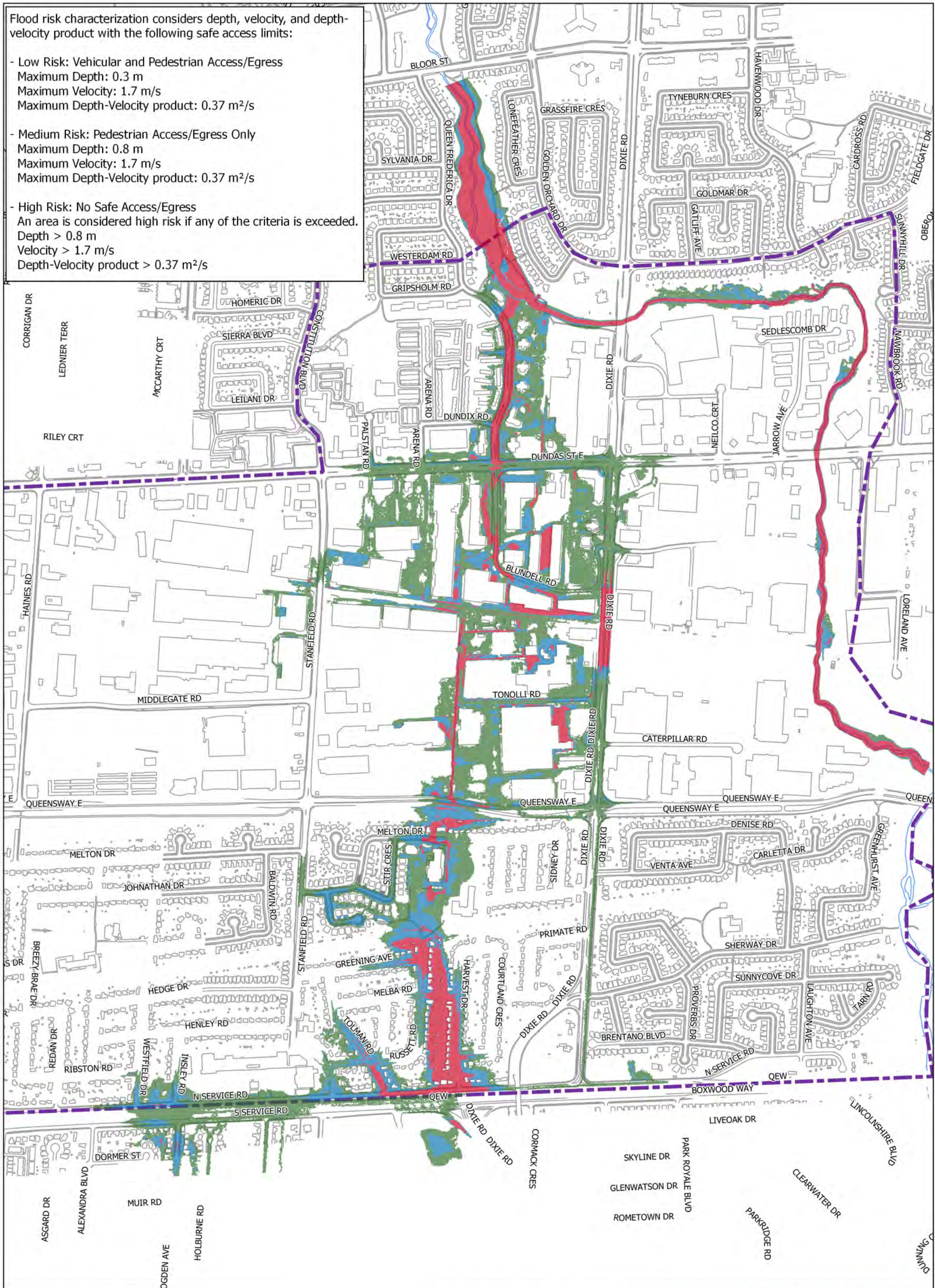
25-year 24-hour Chicago - Unsteady State
Depth x Velocity Product

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K Molnar
K Hofbauer
Map 5.3

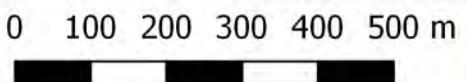
Flood risk characterization considers depth, velocity, and depth-velocity product with the following safe access limits:

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Maximum Velocity: 1.7 m/s
Maximum Depth-Velocity product: 0.37 m²/s
- Medium Risk: Pedestrian Access/Egress Only
Maximum Depth: 0.8 m
Maximum Velocity: 1.7 m/s
Maximum Depth-Velocity product: 0.37 m²/s
- High Risk: No Safe Access/Egress
An area is considered high risk if any of the criteria is exceeded.
Depth > 0.8 m
Velocity > 1.7 m/s
Depth-Velocity product > 0.37 m²/s



Phase 1 Study Area

- Risk
- Low (Vehicular and Pedestrian Access/Egress)
 - Medium (Pedestrian Access/Egress Only)
 - High (No Safe Access/Egress)



1:10,000



Run Date: October 3, 2017
Figure Date: October 12, 2017

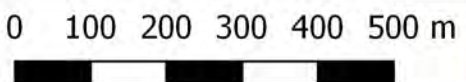
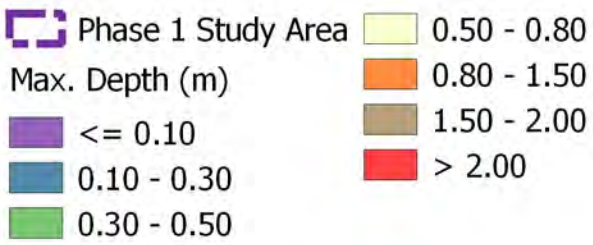
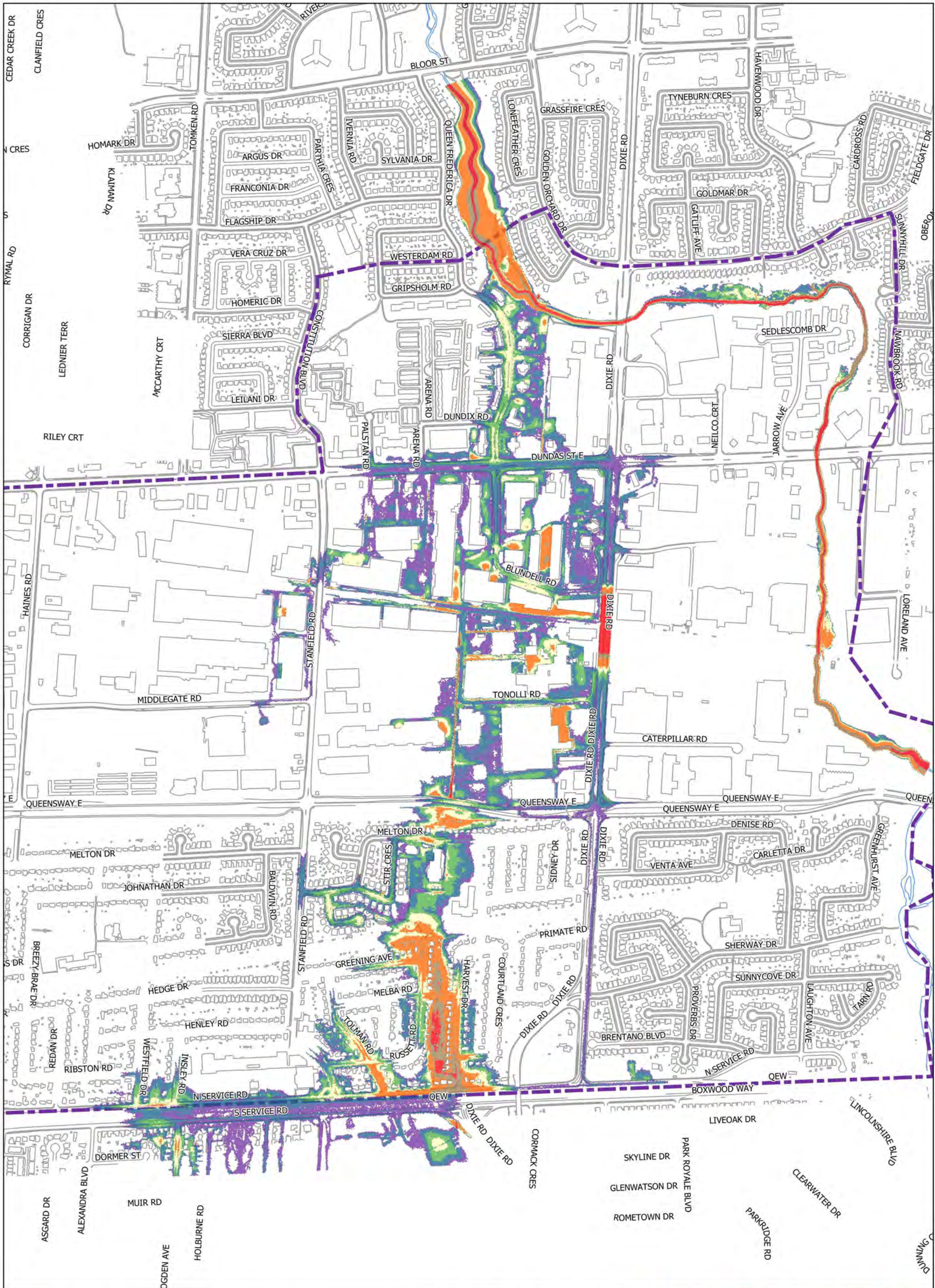


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

25-year 24-hour Chicago - Unsteady State
Flood Risk

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K Molnar
K Hofbauer
Map 5.4



1:10,000



Run Date: September 11, 2017
 Figure Date: September 20, 2017

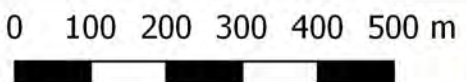
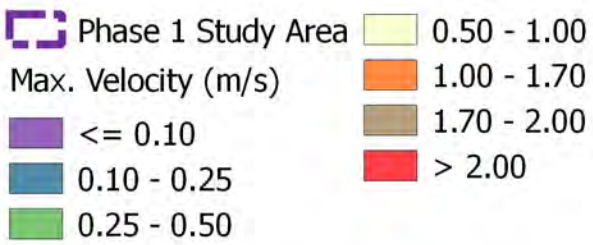


Little Etobicoke Creek Flood Evaluation Study
 Phase 1: MIKE FLOOD Results
 Project #24603

100-year 12-hour AES - Unsteady State
 Depth

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K Molnar
 K Hofbauer
 Map 6.1



1:10,000



Run Date: September 11, 2017
Figure Date: September 20, 2017

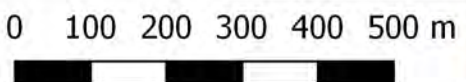
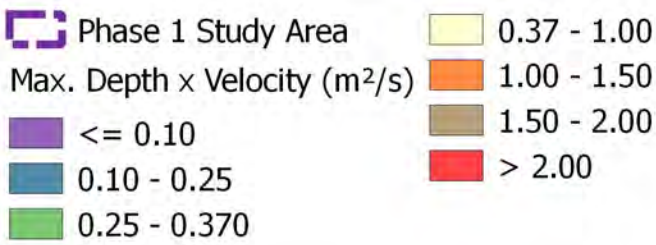
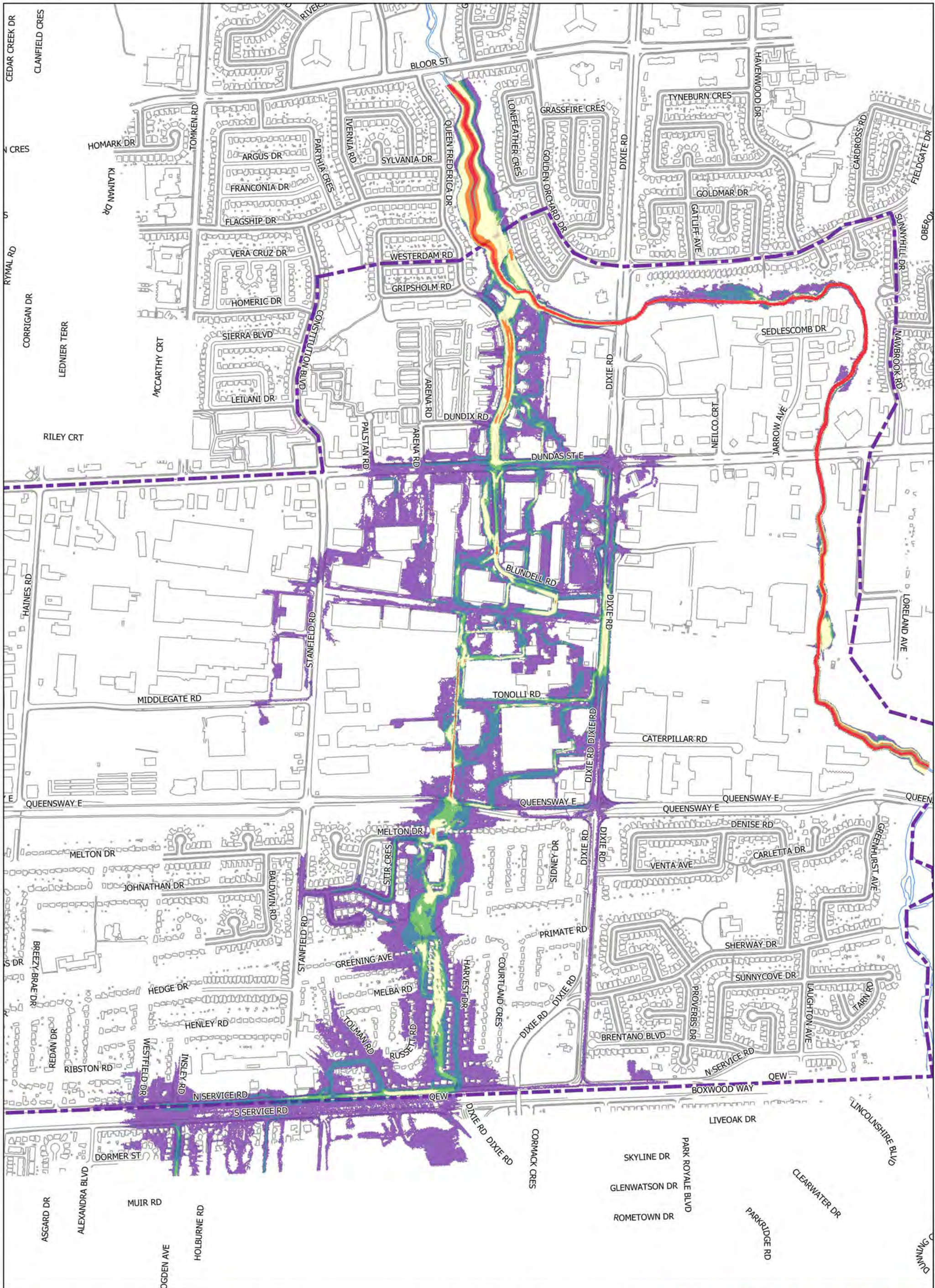


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

100-year 12-hour AES - Unsteady State
Velocity

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K Molnar
K Hofbauer
Map 6.2



1:10,000



Run Date: September 11, 2017
Figure Date: September 20, 2017



Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

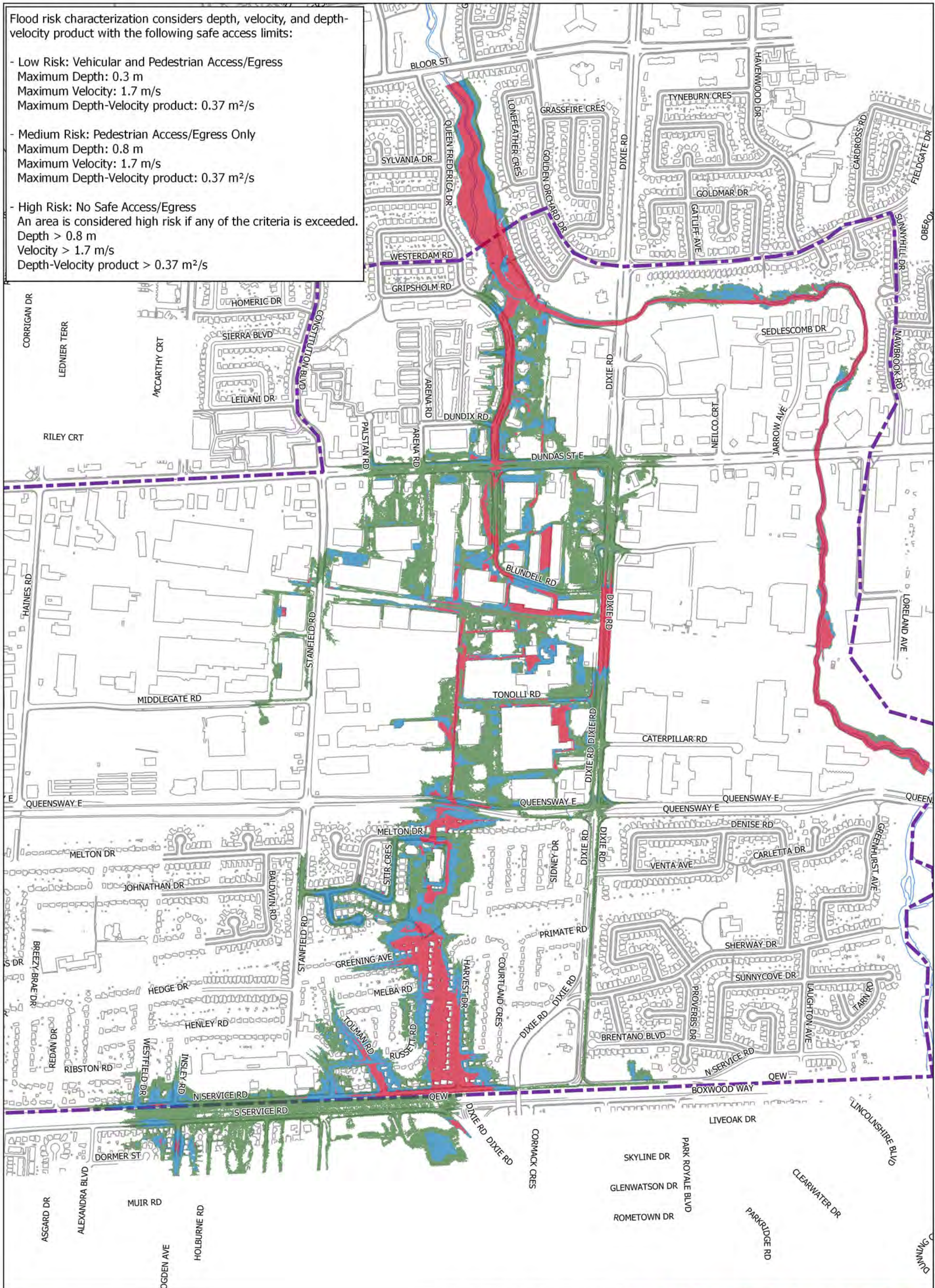
100-year 12-hour AES - Unsteady State
Depth x Velocity Product

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K Molnar
K Hofbauer
Map 6.3

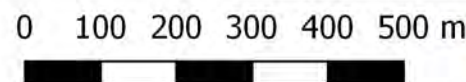
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An area is considered high risk if any of the criteria is exceeded.
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Phase 1 Study Area

- Risk
- Low (Vehicular and Pedestrian Access/Egress)
 - Medium (Pedestrian Access/Egress Only)
 - High (No Safe Access/Egress)



1:10,000



Run Date: September 11, 2017
Figure Date: September 20, 2017

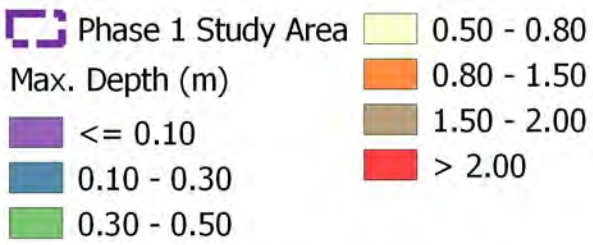
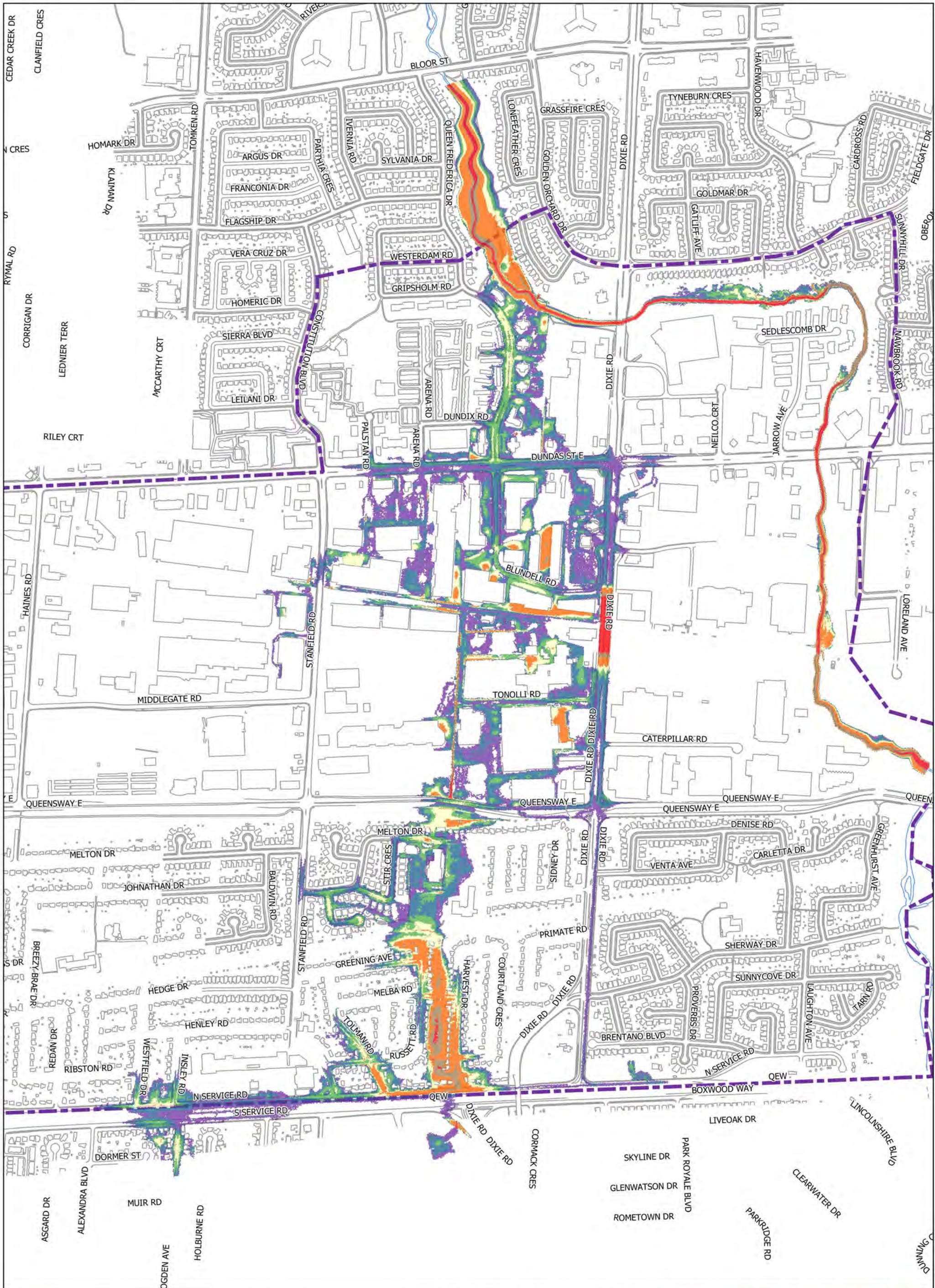


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

100-year 12-hour AES - Unsteady State
Flood Risk

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K Molnar
K Hofbauer
Map 6.4



1:10,000



Run Date: September 11, 2017
Figure Date: September 20, 2017

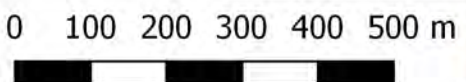
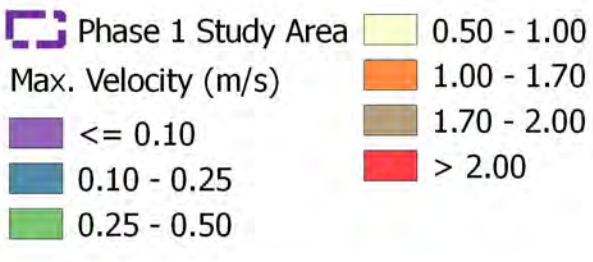


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

50-year 12-hour AES - Unsteady State
Depth

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K. Molnar
K. Hofbauer
Map 7.1



1:10,000



Run Date: September 11, 2017
Figure Date: September 20, 2017

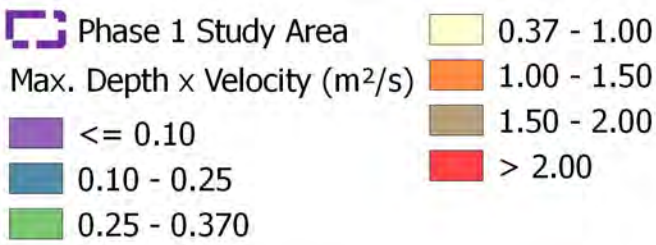
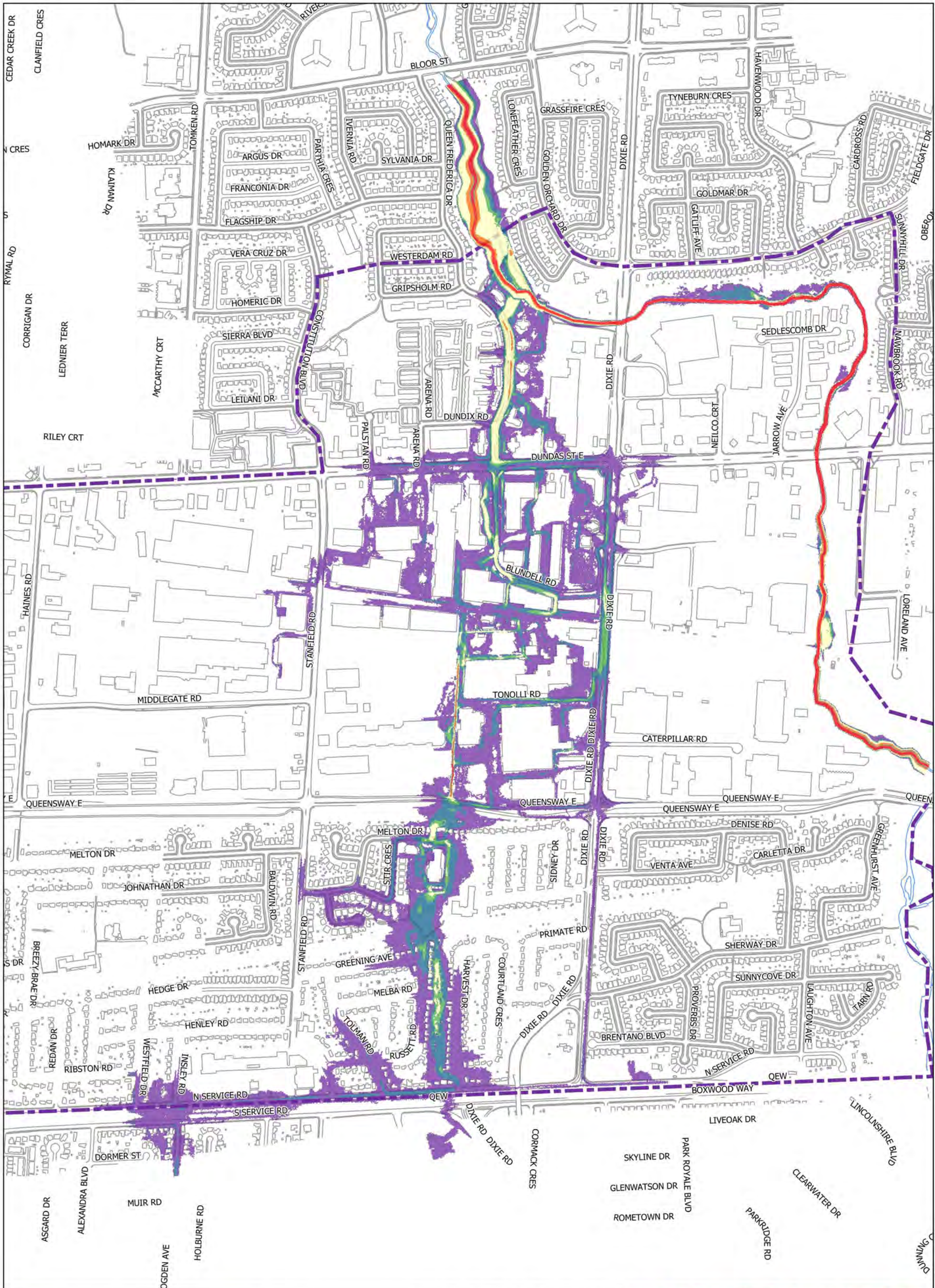


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

50-year 12-hour AES - Unsteady State
Velocity

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K. Molnar
K. Hofbauer
Map 7.2



1:10,000



Run Date: September 11, 2017
Figure Date: September 20, 2017



Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

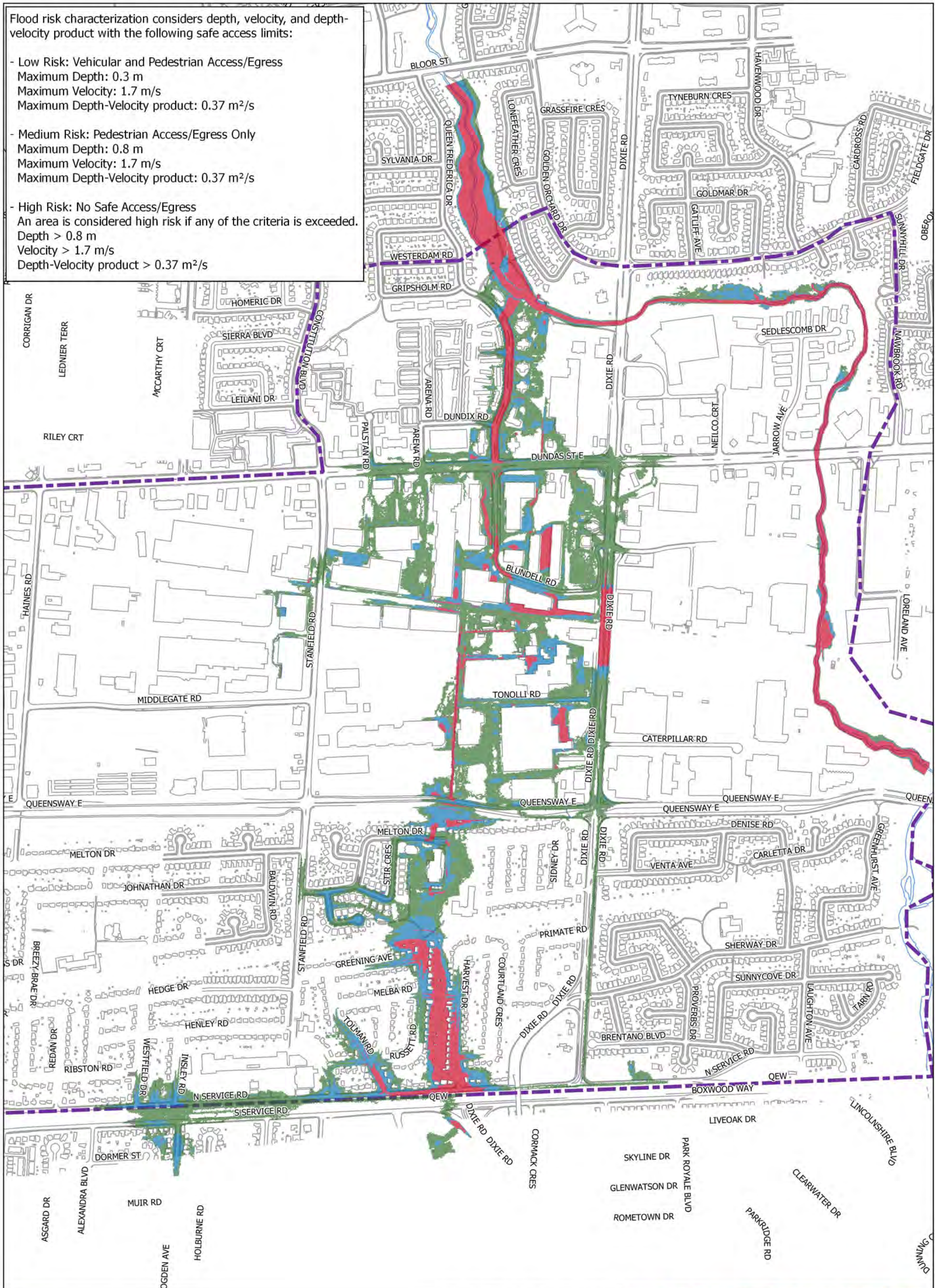
50-year 12-hour AES - Unsteady State
Depth x Velocity Product

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K Molnar
K Hofbauer
Map 7.3

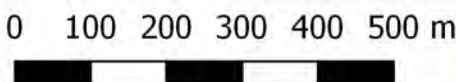
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Depth-Velocity product > 0.37 m²/s



Phase 1 Study Area

- Risk
- Low (Vehicular and Pedestrian Access/Egress)
 - Medium (Pedestrian Access/Egress Only)
 - High (No Safe Access/Egress)



1:10,000



Run Date: September 11, 2017
Figure Date: September 20, 2017

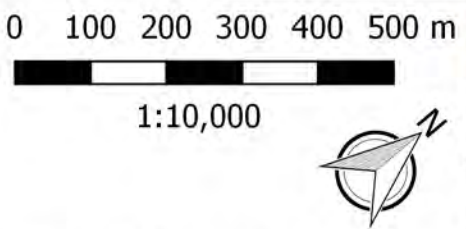
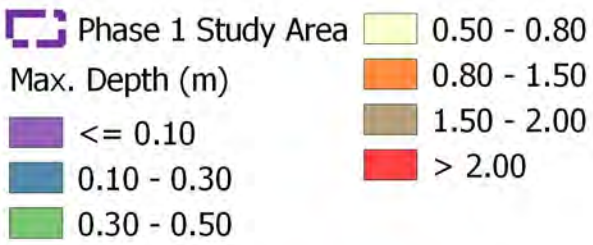
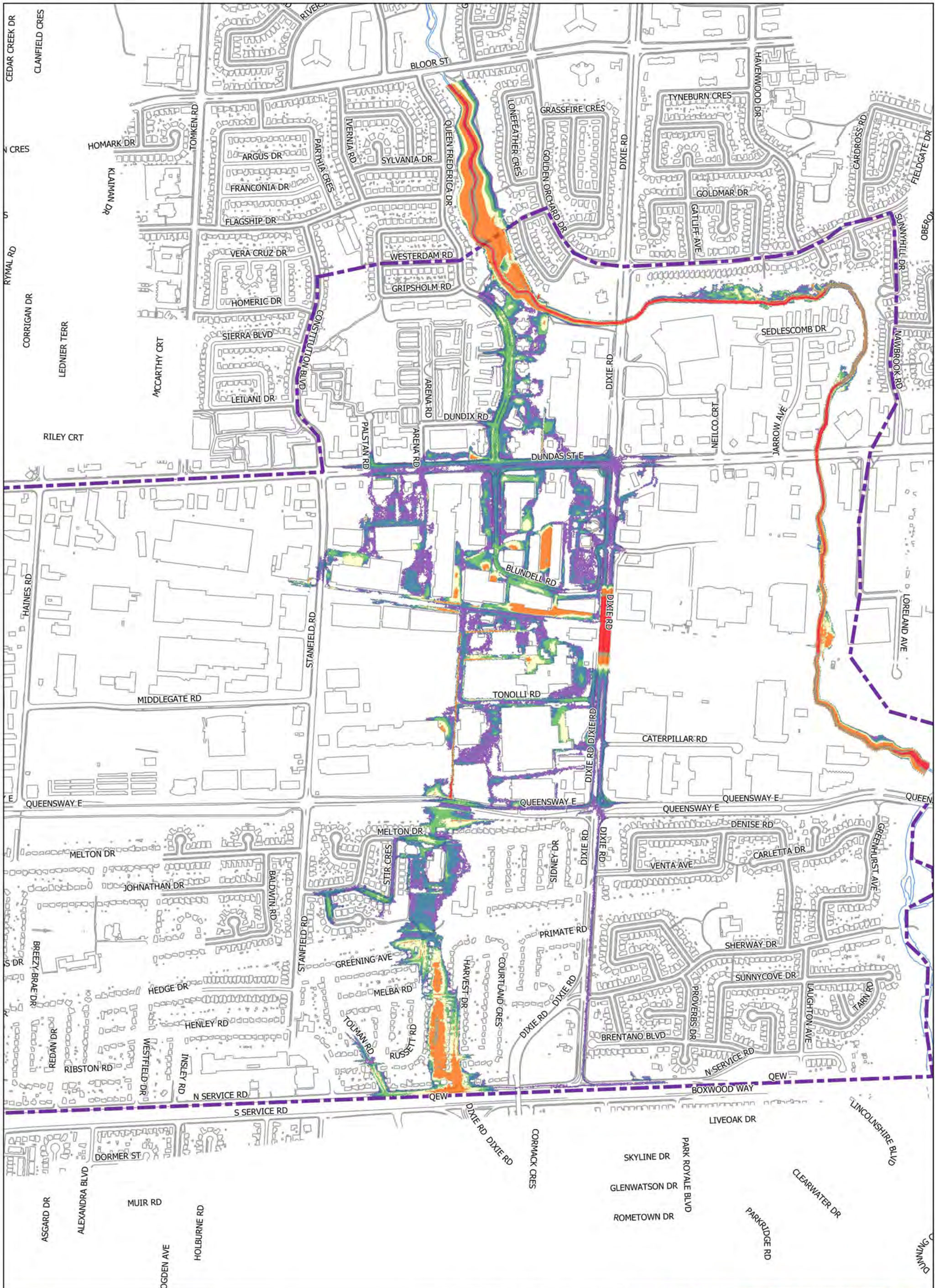


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

50-year 12-hour AES - Unsteady State
Flood Risk

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K. Molnar
K. Hofbauer
Map 7.4



Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

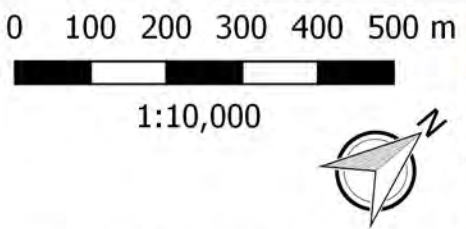
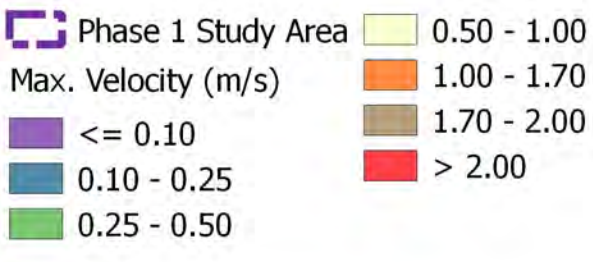
Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results Project #24603

**25-year 12-hour AES - Unsteady State
Depth**

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K. Molnar
K. Hofbauer
Map 8.1

Run Date: September 4, 2017
Figure Date: September 19, 2017



Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

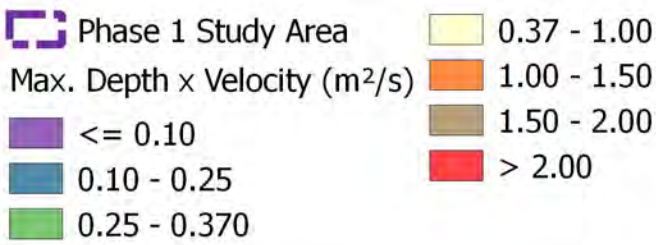
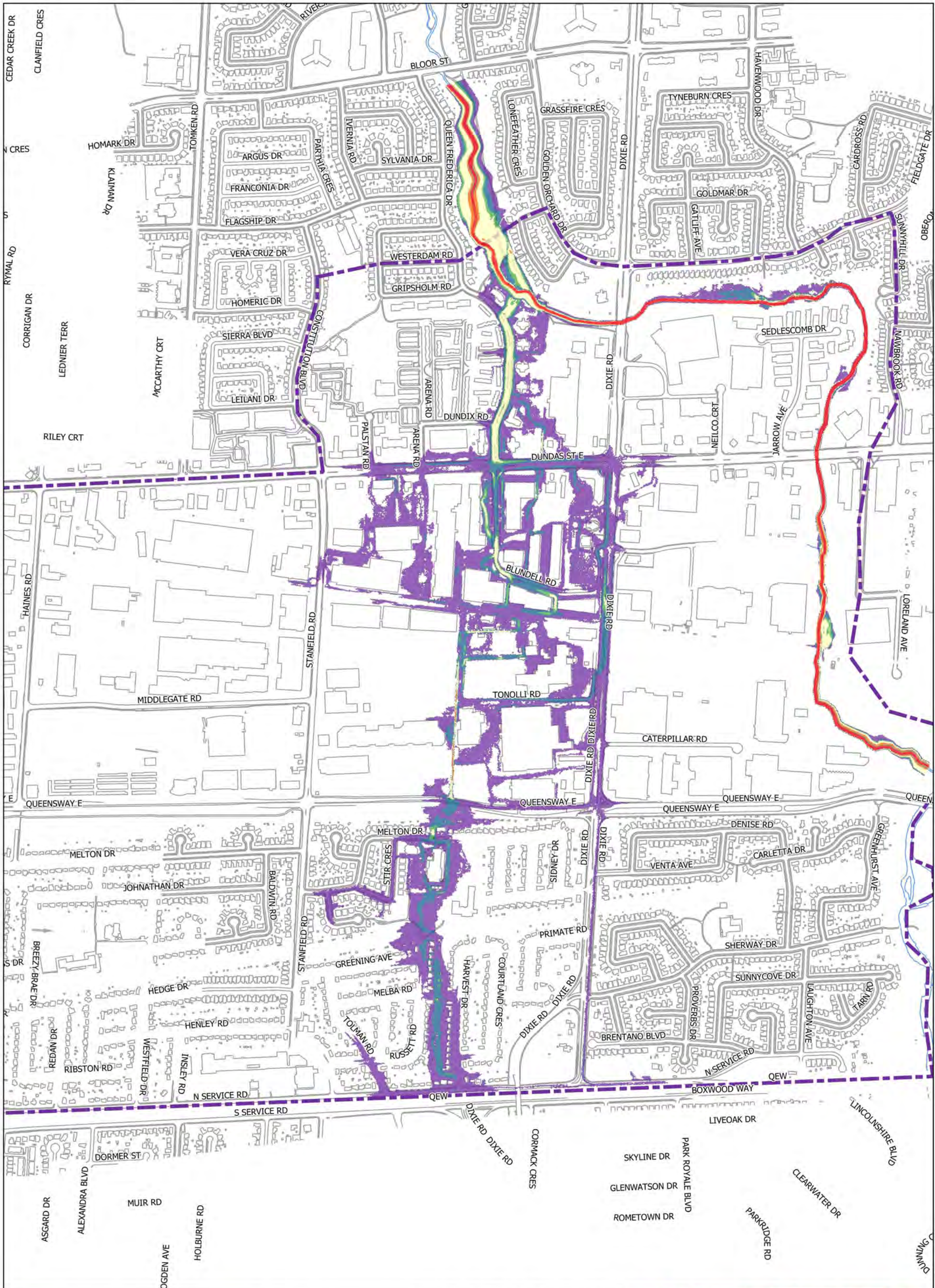
Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

25-year 12-hour AES - Unsteady State
Velocity

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K Molnar
K Hofbauer

Map 8.2



1:10,000



Run Date: September 4, 2017
Figure Date: September 19, 2017



Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

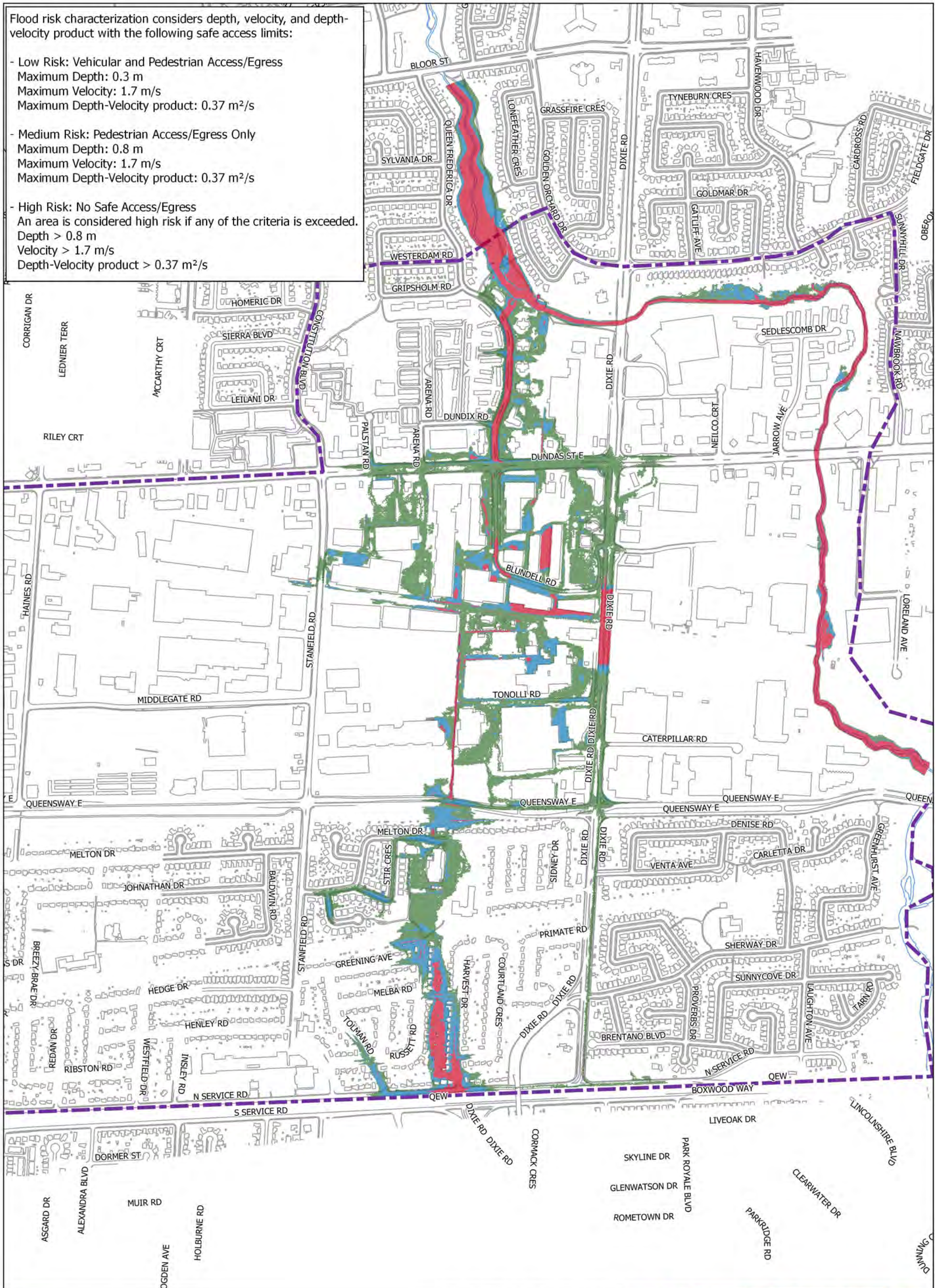
25-year 12-hour AES - Unsteady State
Depth x Velocity Product

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K. Molnar
K. Hofbauer
Map 8.3

Flood risk characterization considers depth, velocity, and depth-velocity product with the following safe access limits:

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Velocity > 1.7 m/s
Depth-Velocity product > 0.37 m²/s



Phase 1 Study Area

- Risk
- Low (Vehicular and Pedestrian Access/Egress)
 - Medium (Pedestrian Access/Egress Only)
 - High (No Safe Access/Egress)

0 100 200 300 400 500 m



1:10,000



Run Date: September 4, 2017
Figure Date: September 19, 2017



Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results

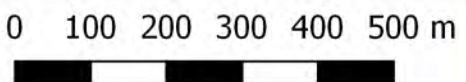
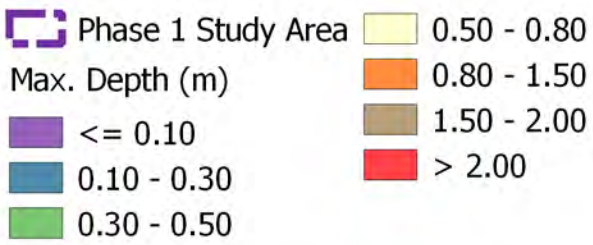
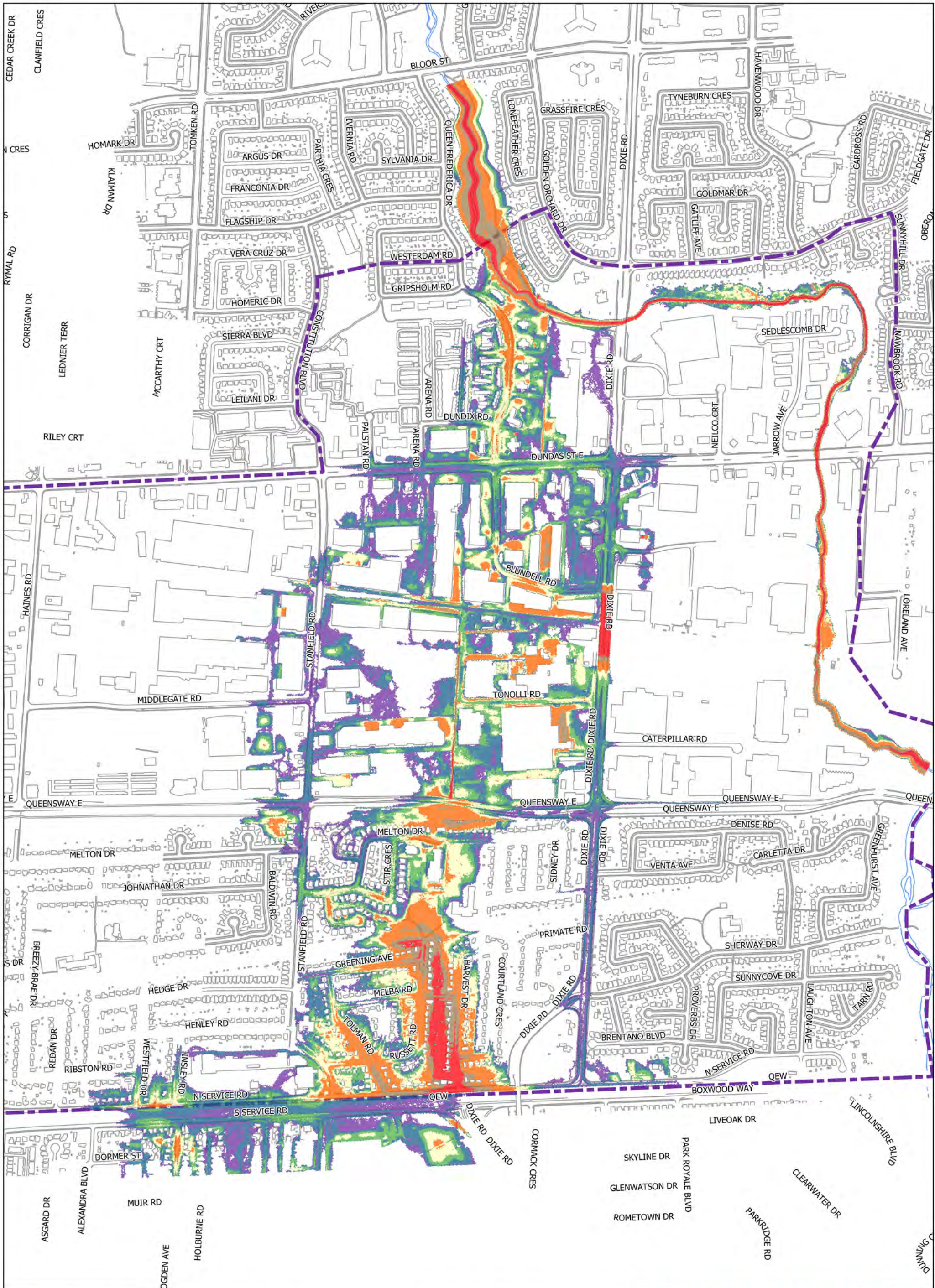
Project #24603

25-year 12-hour AES - Unsteady State
Flood Risk

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K Molnar
K Hofbauer

Map 8.4



1:10,000



Run Date: September 17, 2017
Figure Date: October 10, 2017

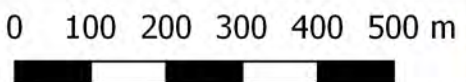
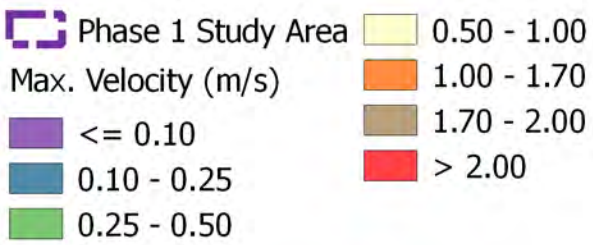
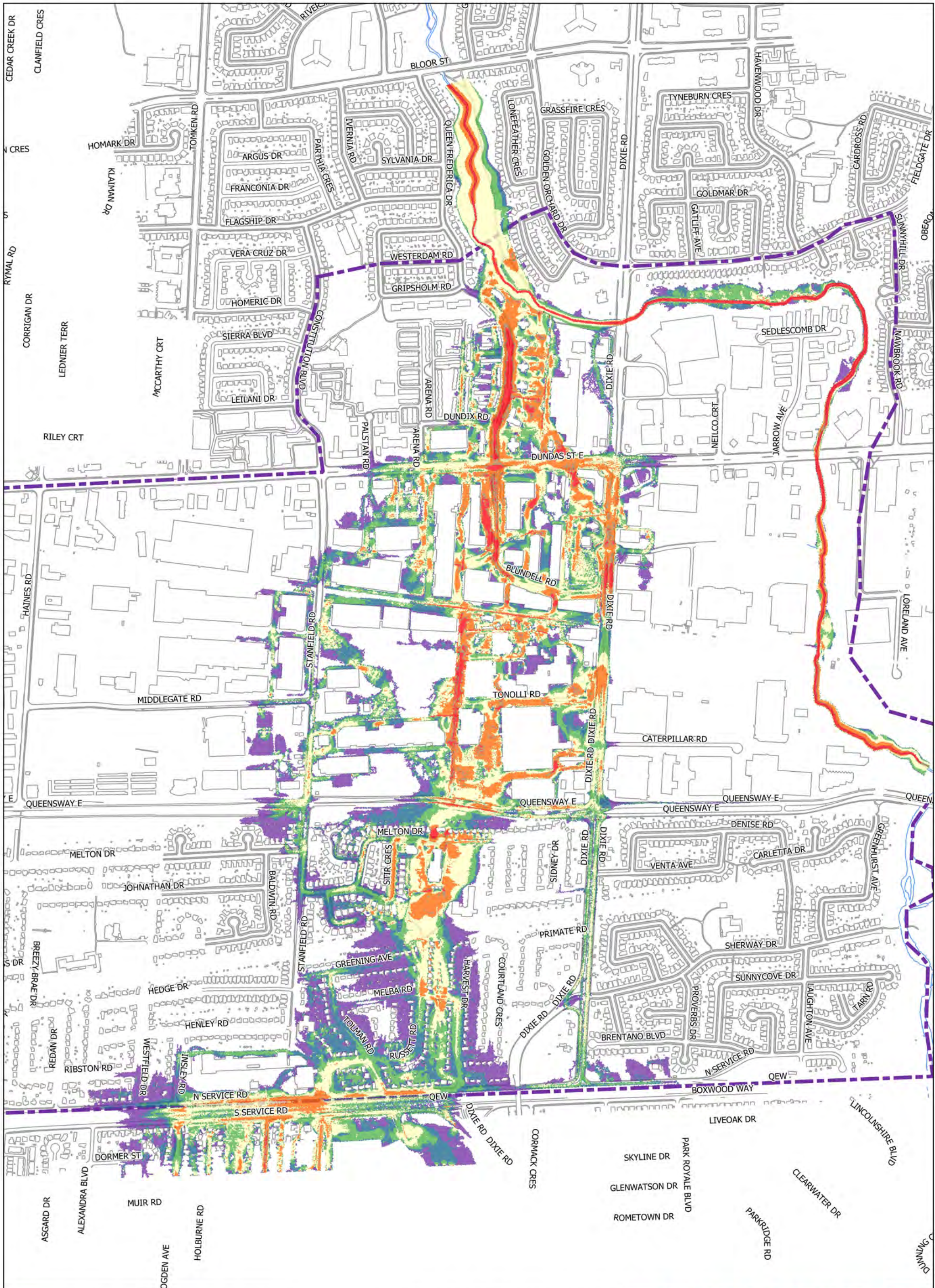


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

July 8, 2013 Storm Event
Depth

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K Molnar
K Hofbauer
Map 9.1



1:10,000



Run Date: September 17, 2017
Figure Date: October 10, 2017

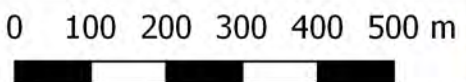
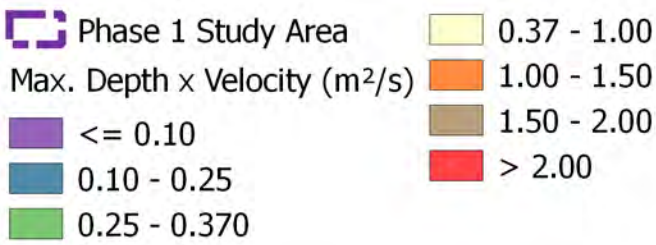
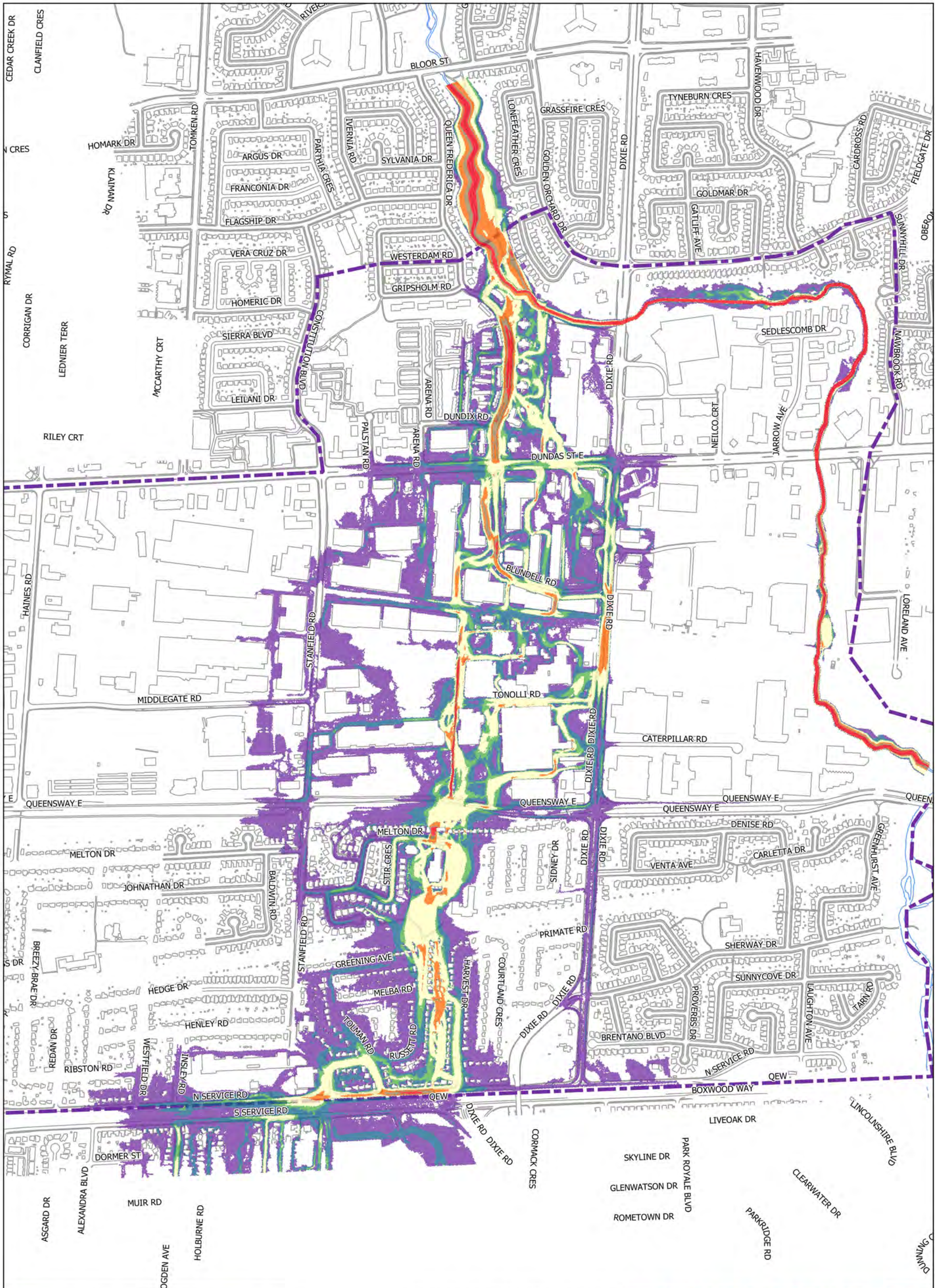


Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results
Project #24603

July 8, 2013 Storm Event
Velocity

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K Molnar
K Hofbauer
Map 9.2



1:10,000



Run Date: September 17, 2017
Figure Date: October 10, 2017



Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results

Project #24603

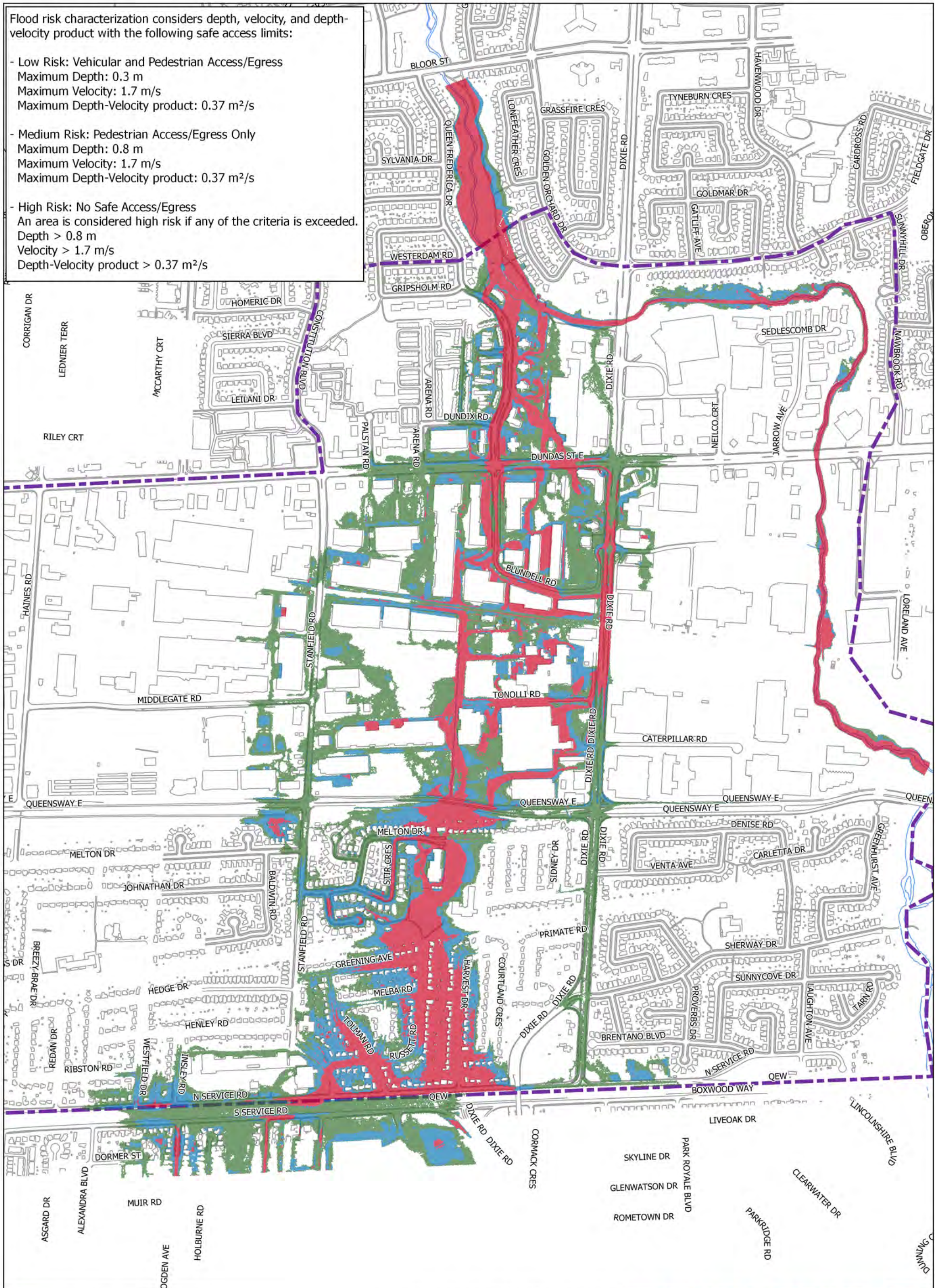
July 8, 2013 Storm Event
Depth x Velocity Product

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K Molnar
K Hofbauer
Map 9.3

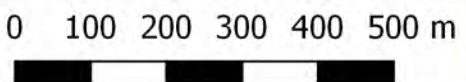
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Velocity > 1.7 m/s
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Phase 1 Study Area

- Risk
- Low (Vehicular and Pedestrian Access/Egress)
 - Medium (Pedestrian Access/Egress Only)
 - High (No Safe Access/Egress)



1:10,000



Run Date: September 17, 2017
Figure Date: October 10, 2017



Little Etobicoke Creek Flood Evaluation Study
Phase 1: MIKE FLOOD Results

Project #24603

July 8, 2013 Storm Event
Flood Risk

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K Molnar
K Hofbauer

Map 9.4