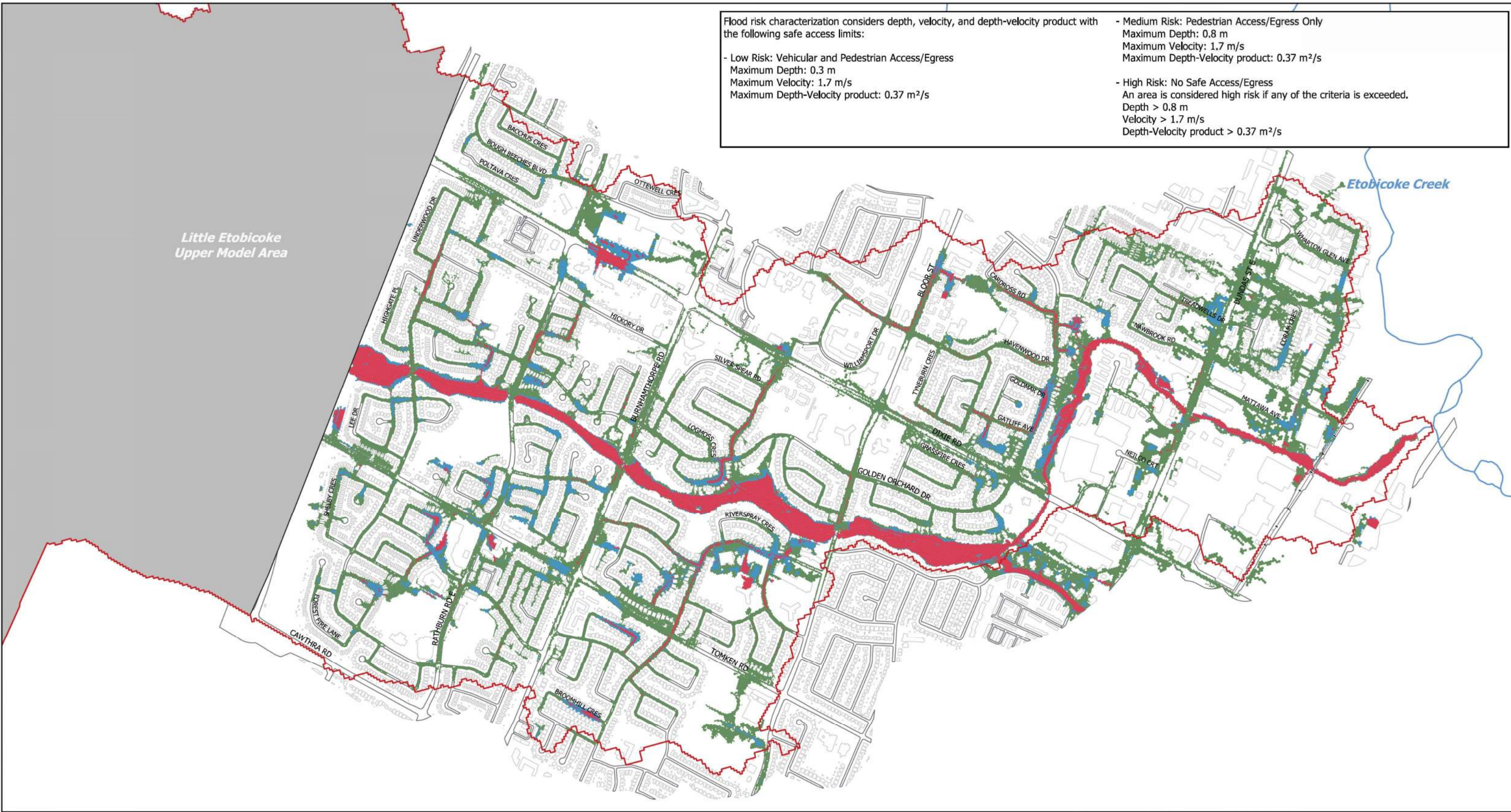


Flood risk characterization considers depth, velocity, and depth-velocity product with the following safe access limits:

- 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

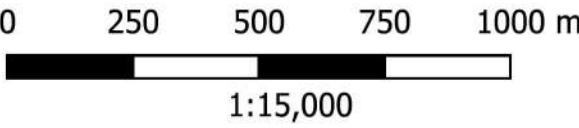
Little Etobicoke
Upper Model Area



Run Date: June 28, 2018
Figure Date: July 9, 2018

This drawing must be used in conjunction with the attached report, Little Etobicoke Creek Phase 2 Modelling for Flood Characterization and Analysis - Flood Evaluation Study, (July 2018) and is subject to the same limitations and conditions stated in the report.

- Little Etobicoke Catchment
- Upper Model Area
- 2D Model Results Risk
 - Low
 - Medium
 - High
- Railway
- Watercourse
- Roads
- Buildings



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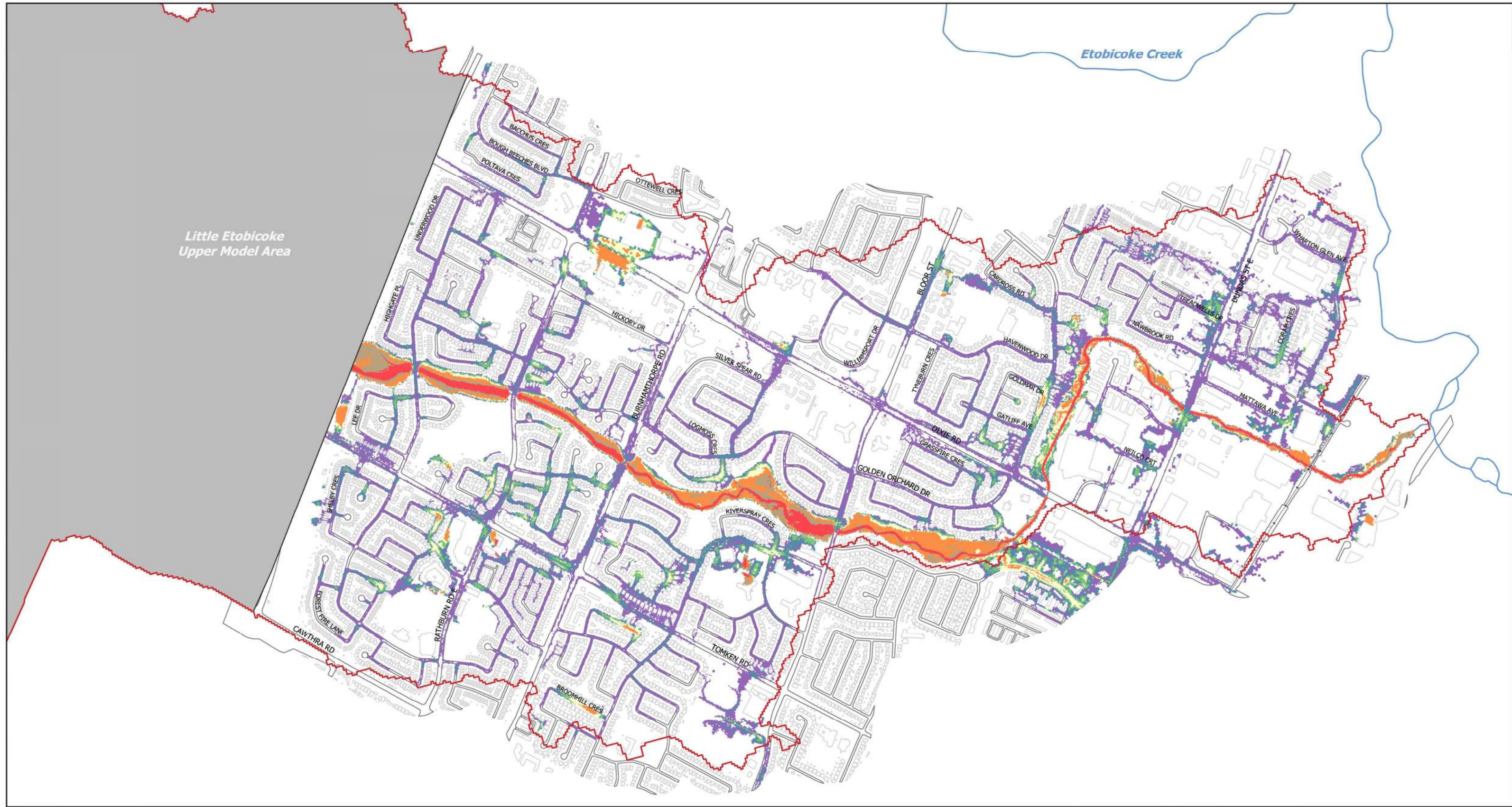
Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Lower Model Results
July 8, 2013 - Risk

Disclaimer: The information contained herein may be compiled from numerous third party materials that are subject to periodic change without prior notification. While every effort has been made by Matrix Solutions Inc. to ensure the accuracy of the information presented at the time of publication, Matrix Solutions Inc. assumes no liability for any errors, omissions, or inaccuracies in the third party material.

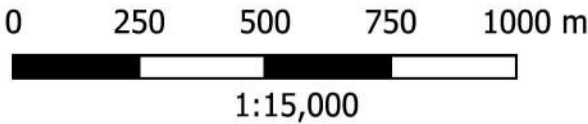
A. MacKay
K. Hofbauer
Map 15.4



Run Date: July 7, 2018
Figure Date: July 9, 2018

This drawing must be used in conjunction with the attached report, Little Etobicoke Creek Phase 2 Modelling for Flood Characterization and Analysis - Flood Evaluation Study, (July 2018) and is subject to the same limitations and conditions stated in the report.

- | | |
|----------------------------|-------------|
| Little Etobicoke Catchment | 0.80 - 1.50 |
| Upper Model Area | 1.50 - 2.00 |
| 2D Model Results | > 2.00 |
| Maximum Depth (m) | Railway |
| <= 0.10 | Watercourse |
| 0.10 - 0.30 | Roads |
| 0.30 - 0.50 | Buildings |
| 0.50 - 0.80 | |



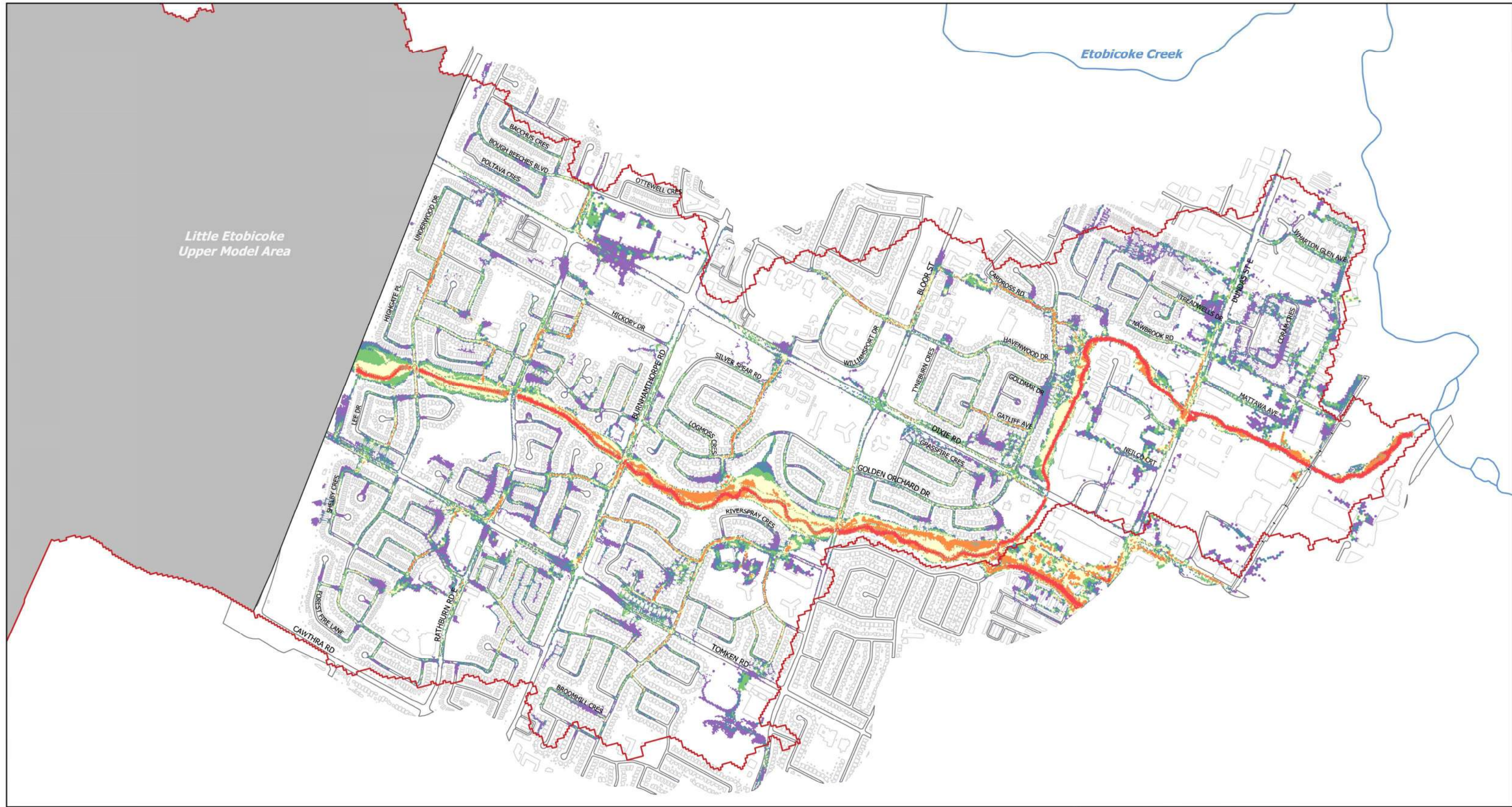
Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Lower Model Results
Regional Storm - Depth

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A. MacKay
K. Hofbauer
Map 16.1



Run Date: July 7, 2018
Figure Date: July 9, 2018

This drawing must be used in conjunction with the attached report, Little Etobicoke Creek Phase 2 Modelling for Flood Characterization and Analysis - Flood Evaluation Study, (July 2018) and is subject to the same limitations and conditions stated in the report.

2D Model Results
Maximum Velocity (m/s)

	<= 0.10
	0.10 - 0.25
	0.25 - 0.50
	0.50 - 1.00
	1.00 - 1.70
	1.70 - 2.00
	> 2.00

Railway
 Watercourse
 Roads
 Buildings

Little Etobicoke Catchment
 Upper Model Area

0 250 500 750 1000 m

1:15,000

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ENVIRONMENT & ENGINEERING

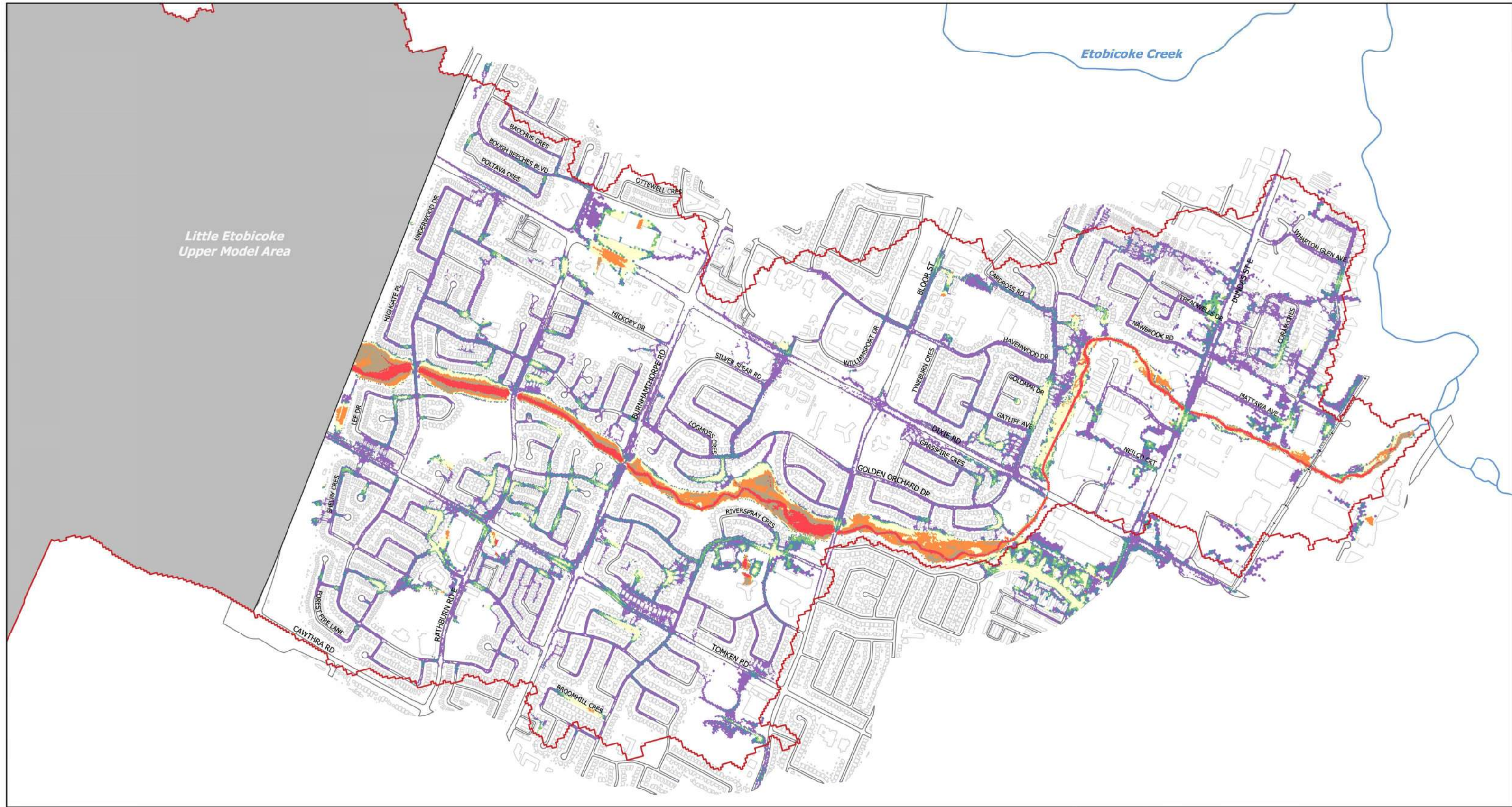
Little Etobicoke Creek Phase 2
Flood Evaluation Study

PCSWMM Lower Model Results
Regional Storm - Velocity

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A. MacKay
K. Hofbauer
Map 16.2

Project #24603



Run Date: July 7, 2018
Figure Date: July 9, 2018

This drawing must be used in conjunction with the attached report, Little Etobicoke Creek Phase 2 Modelling for Flood Characterization and Analysis - Flood Evaluation Study, (July 2018) and is subject to the same limitations and conditions stated in the report.

Little Etobicoke Catchment

Upper Model Area

2D Model Results

Maximum Depth x Velocity (m²/s)

<= 0.10

0.10 - 0.25

0.25 - 0.37

0.37 - 1.00

1.00 - 1.50

1.50 - 2.00

> 2.00

Railway

Watercourse

Roads

Buildings

0

250

500

750

1000 m

1:15,000



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Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Lower Model Results
Regional Storm - Depth x Velocity

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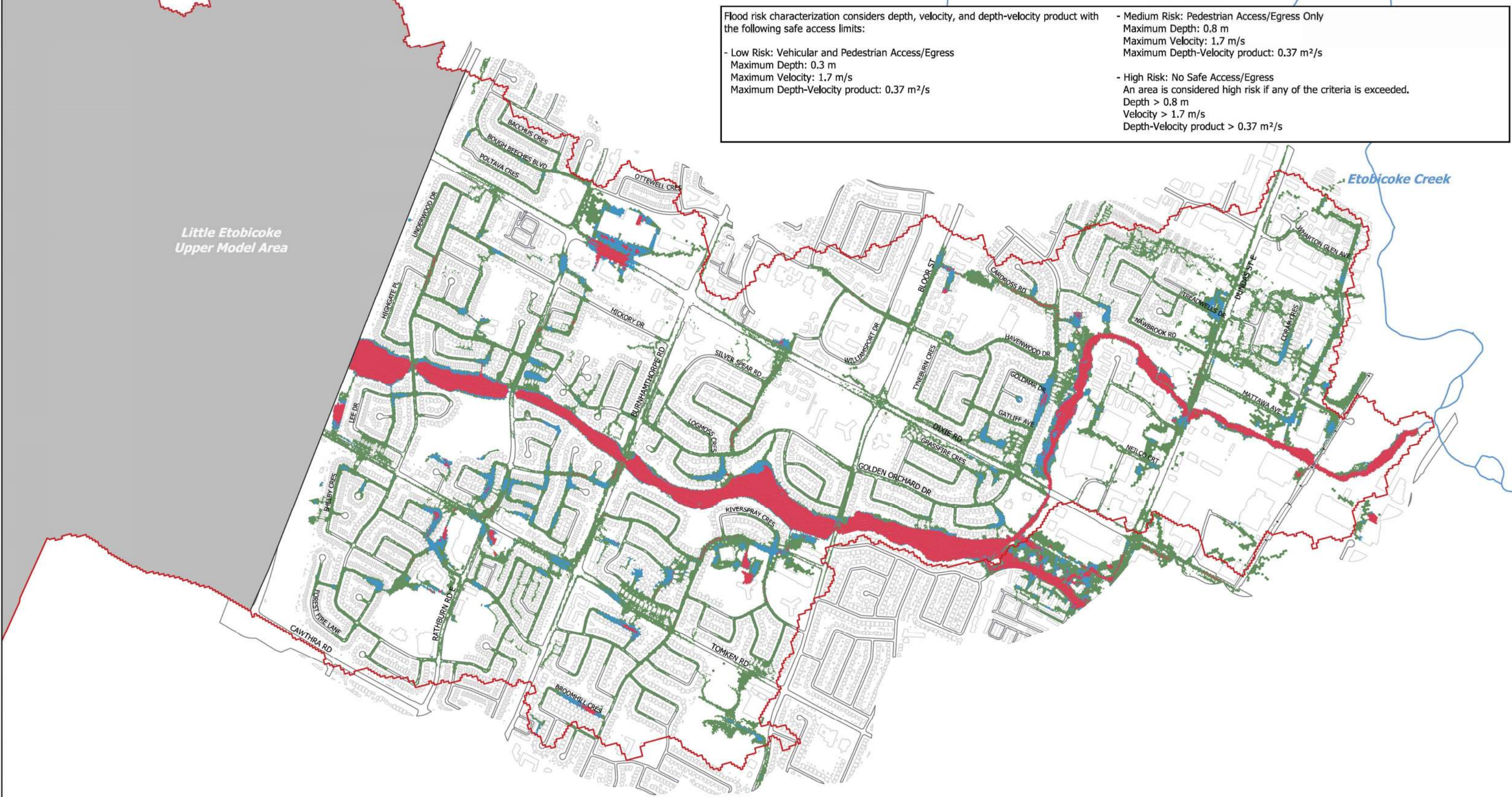
A. MacKay
K. Hofbauer

Map 16.3

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
- 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

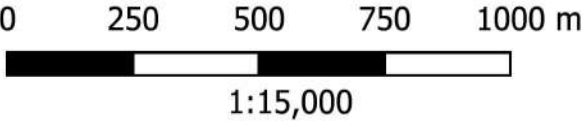
Little Etobicoke
Upper Model Area



Run Date: July 7, 2018
Figure Date: July 9, 2018

This drawing must be used in conjunction with the attached report, Little Etobicoke Creek Phase 2 Modelling for Flood Characterization and Analysis - Flood Evaluation Study, (July 2018) and is subject to the same limitations and conditions stated in the report.

- | | |
|----------------------------|-------------|
| Little Etobicoke Catchment | Railway |
| Upper Model Area | Watercourse |
| 2D Model Results | Roads |
| Risk | Buildings |
| Low | |
| Medium | |
| High | |



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Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Lower Model Results
Regional Storm - Risk

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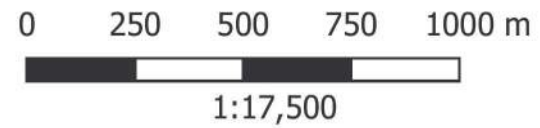
A. MacKay
K. Hofbauer
Map 16.4



Run Date: August 9, 2018
Figure Date: September 20, 2018

This drawing must be used in conjunction with the attached report, Progress Report #2 - Modelling for Flood Characterization and Analysis, (September 2018) and is subject to the same limitations and conditions stated in the report.

- | | |
|----------------------------|-------------|
| Little Etobicoke Catchment | 0.50 - 0.80 |
| Lower Model Area | 0.80 - 1.50 |
| 2D Model Results | 1.50 - 2.00 |
| Maximum Depth (m) | > 2.00 |
| ≤ 0.10 | Watercourse |
| 0.10 - 0.30 | Roads |
| 0.30 - 0.50 | Buildings |



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Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Upper Model Results
100 Year (Climate Change) - Depth

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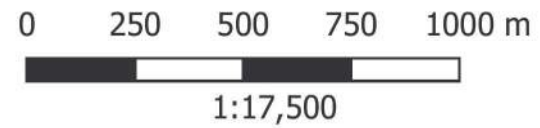
A. MacKay
K. Hofbauer
Map CC-6.1



Run Date: August 9, 2018
Figure Date: September 20, 2018

This drawing must be used in conjunction with the attached report, Progress Report #2 - Modelling for Flood Characterization and Analysis, (September 2018) and is subject to the same limitations and conditions stated in the report.

- | | |
|----------------------------|-------------|
| Little Etobicoke Catchment | 0.50 - 1.00 |
| Lower Model Area | 1.00 - 1.70 |
| 2D Model Results | |
| Maximum Velocity (m/s) | |
| 0.00 - 0.00 | 1.70 - 2.00 |
| <= 0.10 | > 2.00 |
| 0.10 - 0.25 | Watercourse |
| 0.25 - 0.50 | Roads |
| | Buildings |



Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Upper Model Results
100 Year (Climate Change) - Velocity

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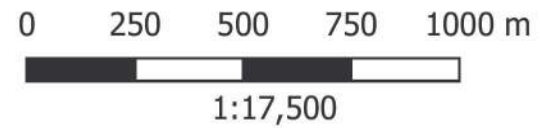
A. MacKay
K. Hofbauer
Map CC-6.2



Run Date: August 9, 2018
Figure Date: September 20, 2018

This drawing must be used in conjunction with the attached report, Progress Report #2 - Modelling for Flood Characterization and Analysis, (September 2018) and is subject to the same limitations and conditions stated in the report.

- | | |
|--|-------------|
| Little Etobicoke Catchment | 0.37 - 1.00 |
| Lower Model Area | 1.00 - 1.50 |
| 2D Model Results | |
| Maximum Depth x Velocity (m ² /s) | |
| <= 0.10 | 1.50 - 2.00 |
| 0.10 - 0.25 | > 2.00 |
| 0.25 - 0.37 | Watercourse |
| | Roads |
| | Buildings |



Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Upper Model Results
100 Year (Climate Change) - Depth x Velocity

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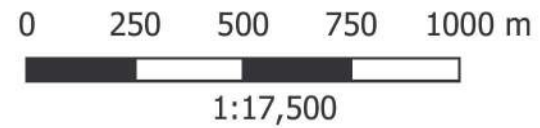
A. MacKay
K. Hofbauer
Map CC-6.3



Run Date: August 9, 2018
Figure Date: September 20, 2018

This drawing must be used in conjunction with the attached report, Progress Report #2 - Modelling for Flood Characterization and Analysis, (September 2018) and is subject to the same limitations and conditions stated in the report.

- Little Etobicoke Catchment
- Lower Model Area
- 2D Model Results Risk
 - Low
 - Medium
 - High
- Watercourse
- Roads
- Buildings



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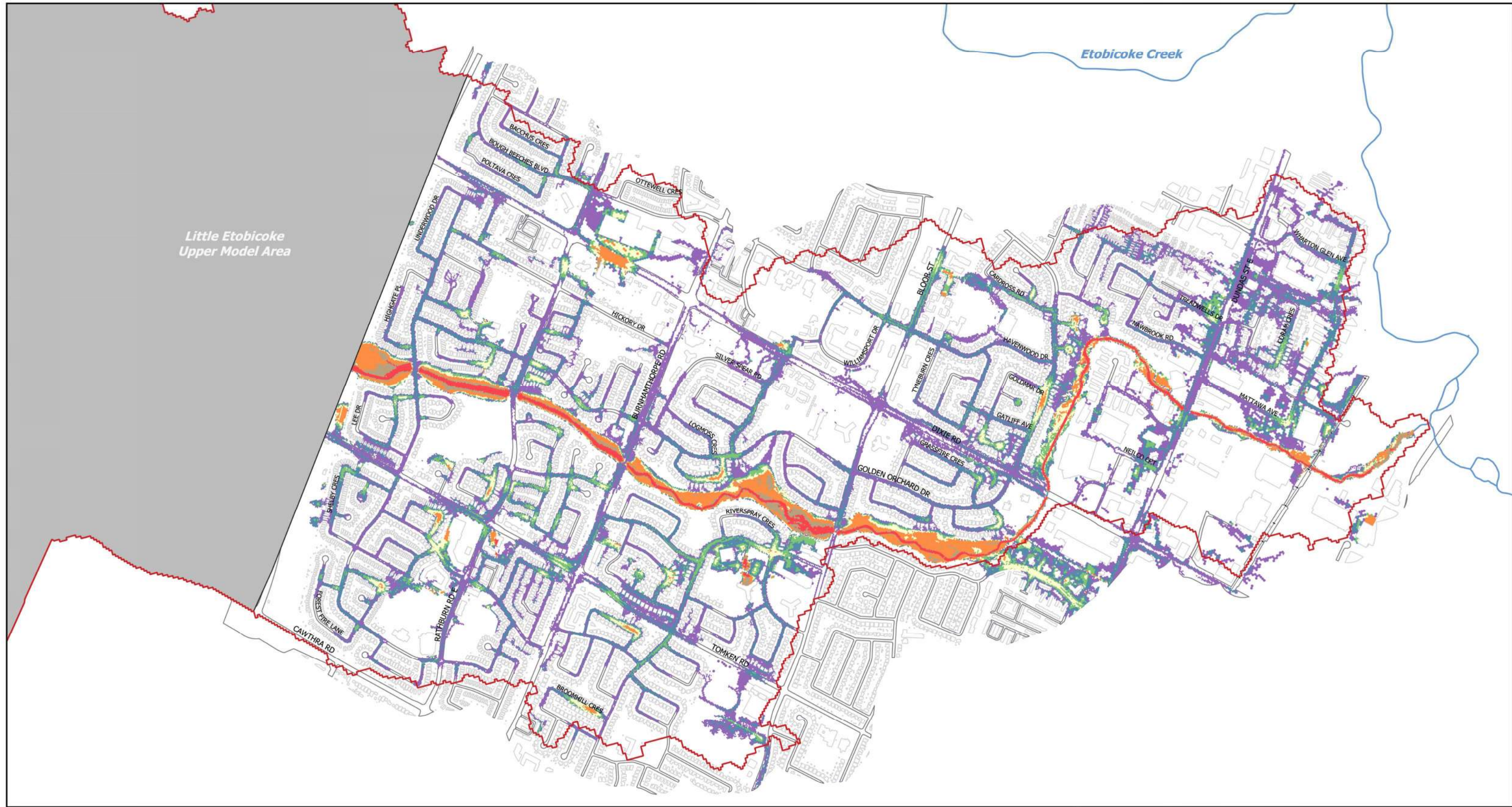
Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Upper Model Results
100 Year (Climate Change) - Risk

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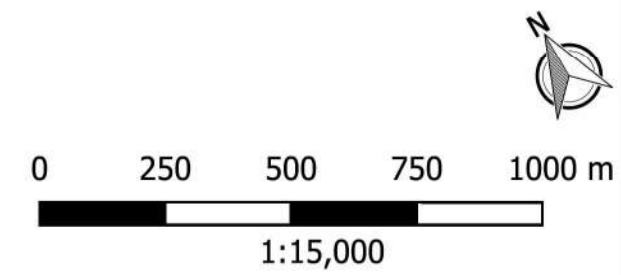
A. MacKay
K. Hofbauer
Map CC-6.4



Run Date: August 13, 2018
Figure Date: September 20, 2018

- | | |
|----------------------------|-------------|
| Little Etobicoke Catchment | 0.80 - 1.50 |
| Upper Model Area | 1.50 - 2.00 |
| 2D Model Results | > 2.00 |
| Maximum Depth (m) | Railway |
| ≤ 0.10 | Watercourse |
| 0.10 - 0.30 | Roads |
| 0.30 - 0.50 | Buildings |
| 0.50 - 0.80 | |

This drawing must be used in conjunction with the attached report, Progress Report #2 - Modelling for Flood Characterization and Analysis, (September 2018) and is subject to the same limitations and conditions stated in the report.



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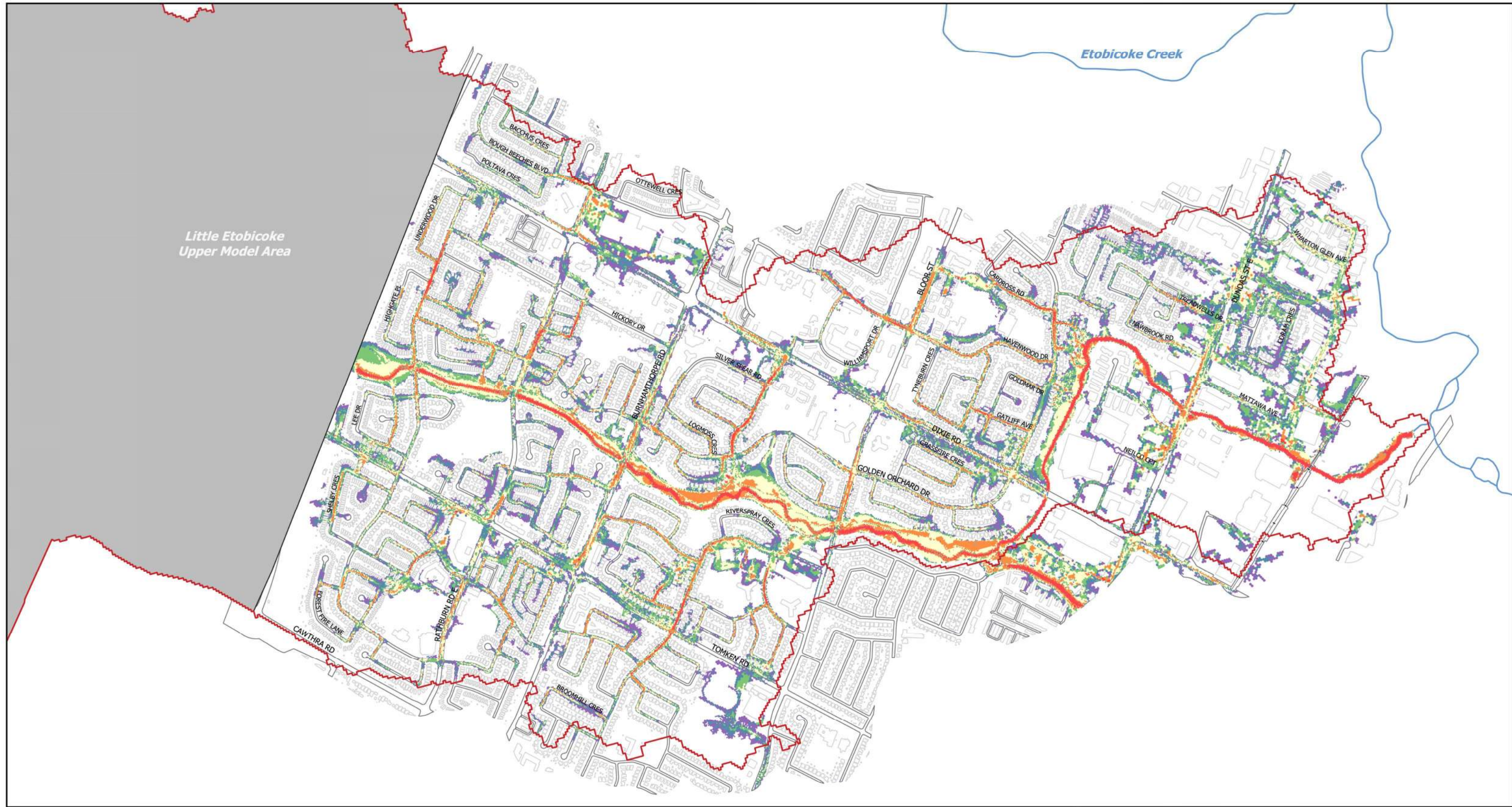
Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Lower Model Results
100 Year (Climate Change) - Depth

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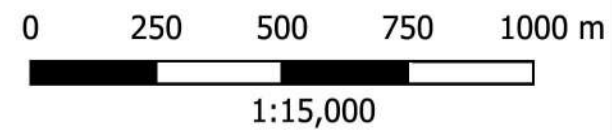
A. MacKay
K. Hofbauer
Map CC-14.1



Run Date: August 13, 2018
Figure Date: September 20, 2018

- | | |
|-------------------------------|-------------|
| Little Etobicoke Catchment | 1.00 - 1.70 |
| Upper Model Area | 1.70 - 2.00 |
| 2D Model Results | > 2.00 |
| Maximum Velocity (m/s) | Railway |
| <= 0.10 | Watercourse |
| 0.10 - 0.25 | Roads |
| 0.25 - 0.50 | Buildings |
| 0.50 - 1.00 | |

This drawing must be used in conjunction with the attached report, Progress Report #2 - Modelling for Flood Characterization and Analysis, (September 2018) and is subject to the same limitations and conditions stated in the report.



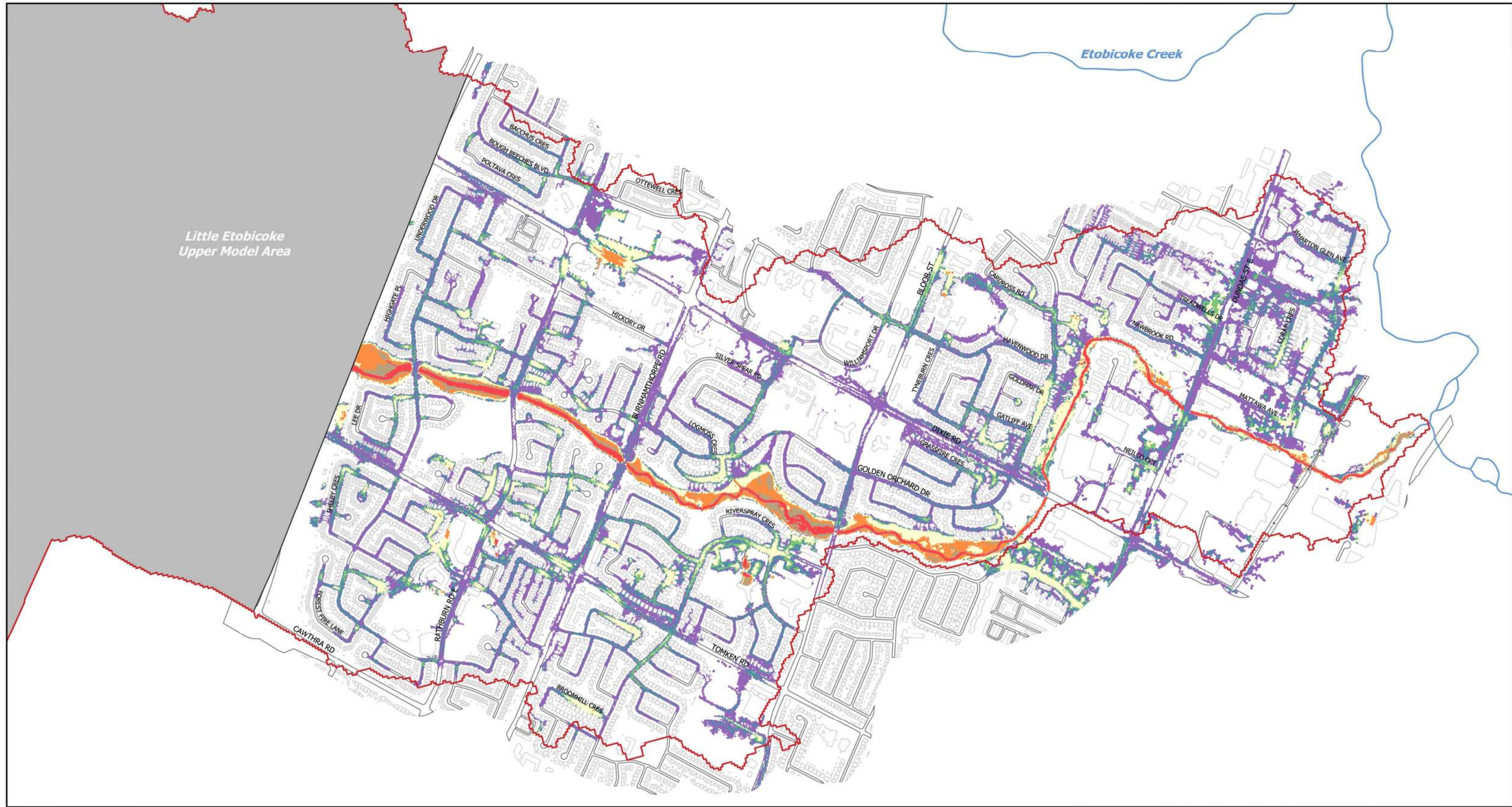
Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Lower Model Results
100 Year (Climate Change) - Velocity

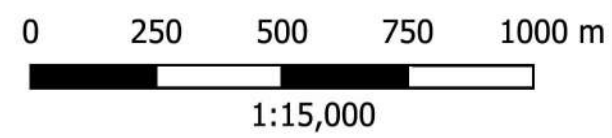
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A. MacKay
K. Hofbauer
Map CC-14.2



Run Date: August 13, 2018
Figure Date: September 20, 2018

- | | |
|--|-------------|
| Little Etobicoke Catchment | 1.00 - 1.50 |
| Upper Model Area | 1.50 - 2.00 |
| 2D Model Results | |
| Maximum Depth x Velocity (m ² /s) | |
| ≤ 0.10 | > 2.00 |
| 0.10 - 0.25 | Railway |
| 0.25 - 0.37 | Watercourse |
| 0.37 - 1.00 | Roads |
| | Buildings |



Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Lower Model Results
100 Year (Climate Change) - Depth x Velocity

This drawing must be used in conjunction with the attached report, Progress Report #2 - Modelling for Flood Characterization and Analysis, (September 2018) and is subject to the same limitations and conditions stated in the report.

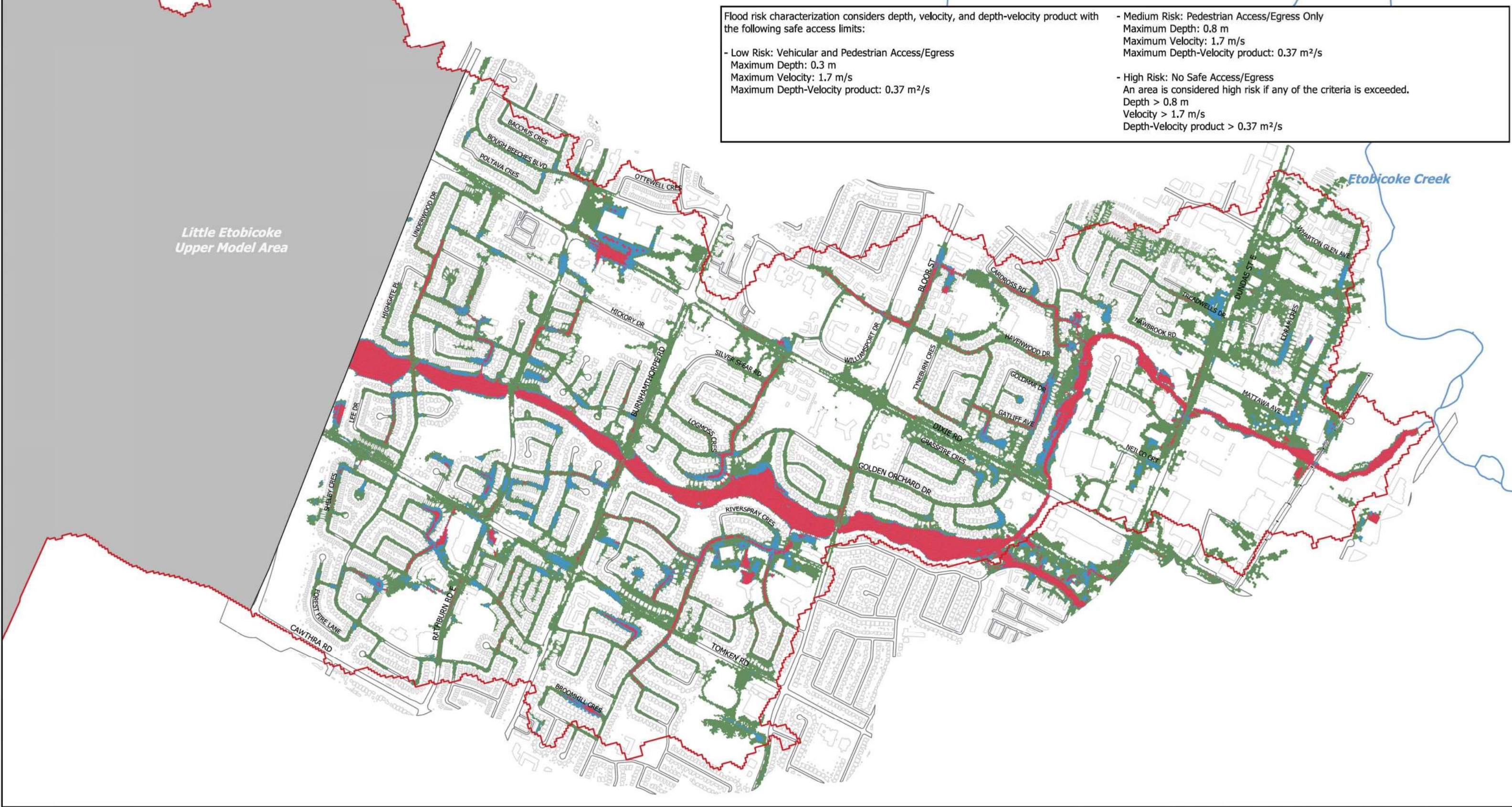
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A. MacKay
K. Hofbauer
Map CC-14,3

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
- 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

Little Etobicoke
Upper Model Area



Run Date: August 13, 2018
Figure Date: September 20, 2018

Little Etobicoke Catchment

Upper Model Area

Low

Medium

High

Railway

Watercourse

Roads

Buildings

This drawing must be used in conjunction with the attached report, Progress Report #2 - Modelling for Flood Characterization and Analysis, (September 2018) and is subject to the same limitations and conditions stated in the report.

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ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Lower Model Results
100 Year (Climate Change) - Risk

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A. MacKay
K. Hofbauer

Map CC-14.4

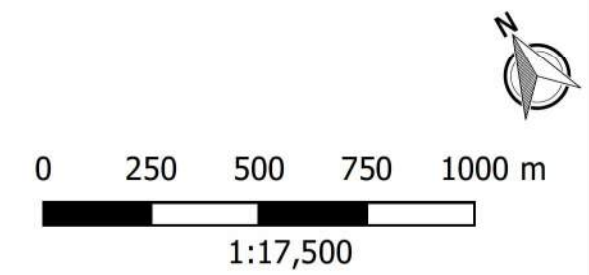
T:\24603 - Little EtobicokeCr_Flood\531105 Analysis\GIS\Phase 2



Run Date: August 9, 2018
Figure Date: September 20, 2018

This drawing must be used in conjunction with the attached report, Progress Report #2 - Modelling for Flood Characterization and Analysis, (September 2018) and is subject to the same limitations and conditions stated in the report.

- | | |
|---|---|
| Little Etobicoke Catchment | 0.50 - 0.80 |
| Lower Model Area | 0.80 - 1.50 |
| 2D Model Results | |
| Maximum Depth (m) | |
| <= 0.10 | 1.50 - 2.00 |
| 0.10 - 0.30 | > 2.00 |
| 0.30 - 0.50 | Watercourse |
| | Roads |
| | Buildings |



Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Upper Model Results
100 Year (Minor Modified) - Depth

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A. MacKay
K. Hofbauer
Map MM-6.1

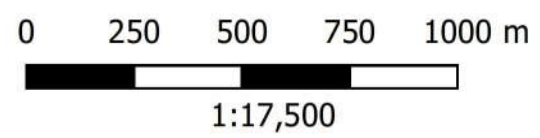


Run Date: August 9, 2018
Figure Date: September 20, 2018

This drawing must be used in conjunction with the attached report, Progress Report #2 - Modelling for Flood Characterization and Analysis, (September 2018) and is subject to the same limitations and conditions stated in the report.

T:\24603 - Little EtobicokeCr_Flood\531\05 Analysis\GIS\Phase 2

- | | |
|----------------------------|-------------|
| Little Etobicoke Catchment | 0.50 - 1.00 |
| Lower Model Area | 1.00 - 1.70 |
| 2D Model Results | |
| Maximum Velocity (m/s) | |
| 0.00 - 0.00 | 1.70 - 2.00 |
| <= 0.10 | > 2.00 |
| 0.10 - 0.25 | Watercourse |
| 0.25 - 0.50 | Roads |
| | Buildings |



Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Upper Model Results
100 Year (Minor Modified) - Velocity

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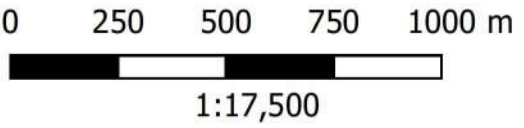
A. MacKay
K. Hofbauer
Map MM-6.2



Run Date: August 9, 2018
Figure Date: September 20, 2018

This drawing must be used in conjunction with the attached report, Progress Report #2 - Modelling for Flood Characterization and Analysis, (September 2018) and is subject to the same limitations and conditions stated in the report.

- | | |
|---|---|
| Little Etobicoke Catchment | 0.37 - 1.00 |
| Lower Model Area | 1.00 - 1.50 |
| 2D Model Results | |
| Maximum Depth x Velocity (m ² /s) | |
| <= 0.10 | 1.50 - 2.00 |
| 0.10 - 0.25 | > 2.00 |
| 0.25 - 0.37 | Watercourse |
| | Roads |
| | Buildings |



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ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Upper Model Results
100 Year (Minor Modified) - Depth x Velocity

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A. MacKay
K. Hofbauer
Map MM-6.3



Run Date: August 9, 2018
Figure Date: September 20, 2018

This drawing must be used in conjunction with the attached report, Progress Report #2 - Modelling for Flood Characterization and Analysis, (September 2018) and is subject to the same limitations and conditions stated in the report.

T:\24603 - Little EtobicokeCr_Flood\531105 Analysis\GIS\Phase 2

- Little Etobicoke Catchment
- Lower Model Area
- 2D Model Results Risk
 - Low
 - Medium
 - High
- Watercourse
- Roads
- Buildings

0 250 500 750 1000 m
1:17,500

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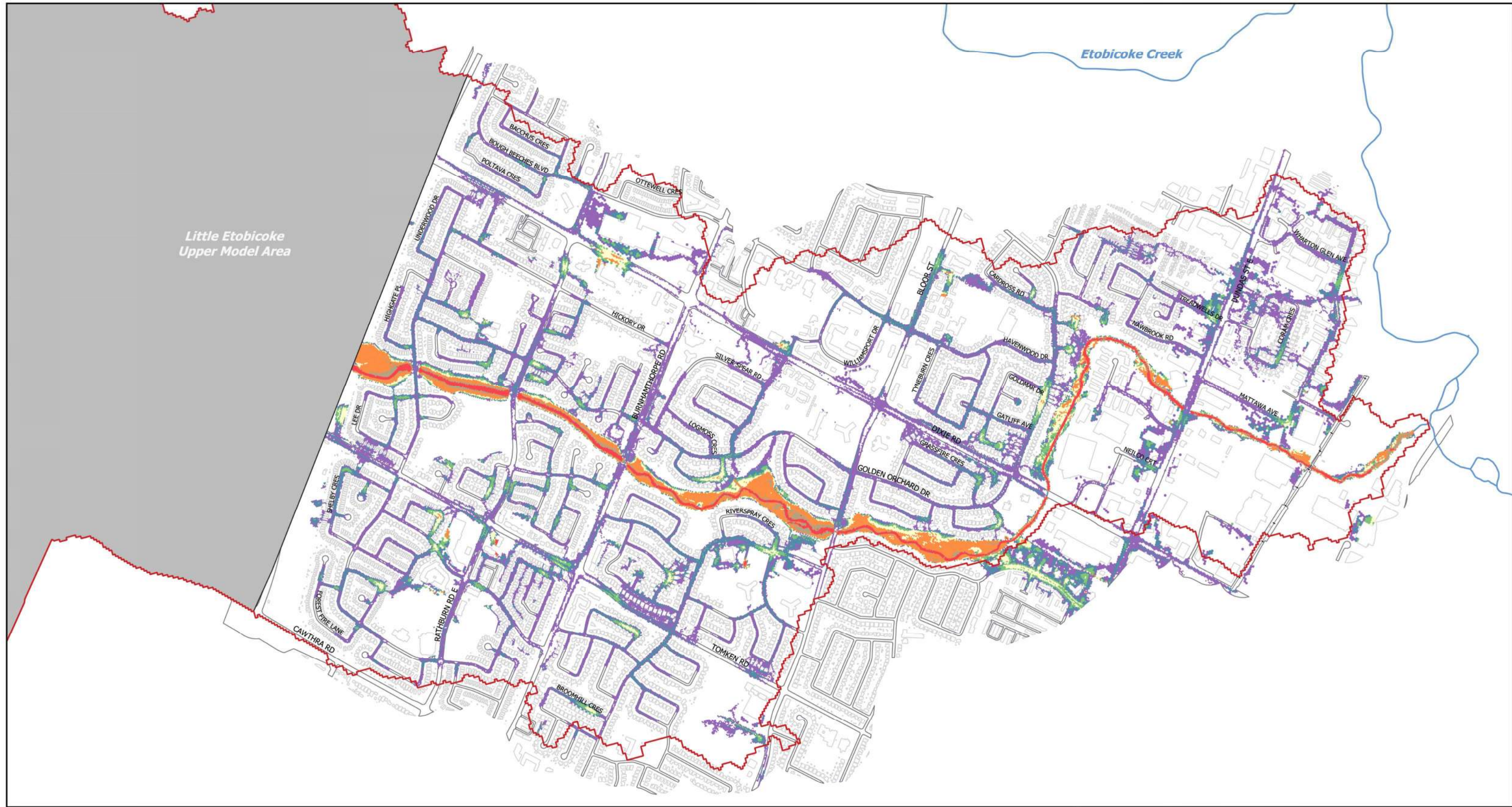
Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Upper Model Results
100 Year (Minor Modified) - Risk

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A. MacKay
K. Hofbauer
Map MM-6.4



Run Date: August 13, 2018
Figure Date: September 20, 2018

This drawing must be used in conjunction with the attached report, Progress Report #2 - Modelling for Flood Characterization and Analysis, (September 2018) and is subject to the same limitations and conditions stated in the report.

T:\24603 - Little EtobicokeCr_Flood\531105 Analysis\GIS\Phase 2

Little Etobicoke Catchment

Upper Model Area

2D Model Results

Maximum Depth (m)

<= 0.10

0.10 - 0.30

0.30 - 0.50

0.50 - 0.80

0.80 - 1.50

1.50 - 2.00

> 2.00

Railway

Watercourse

Roads

Buildings

0

250

500

750

1000 m

1:15,000



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ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2

Flood Evaluation Study

PCSWMM Lower Model Results

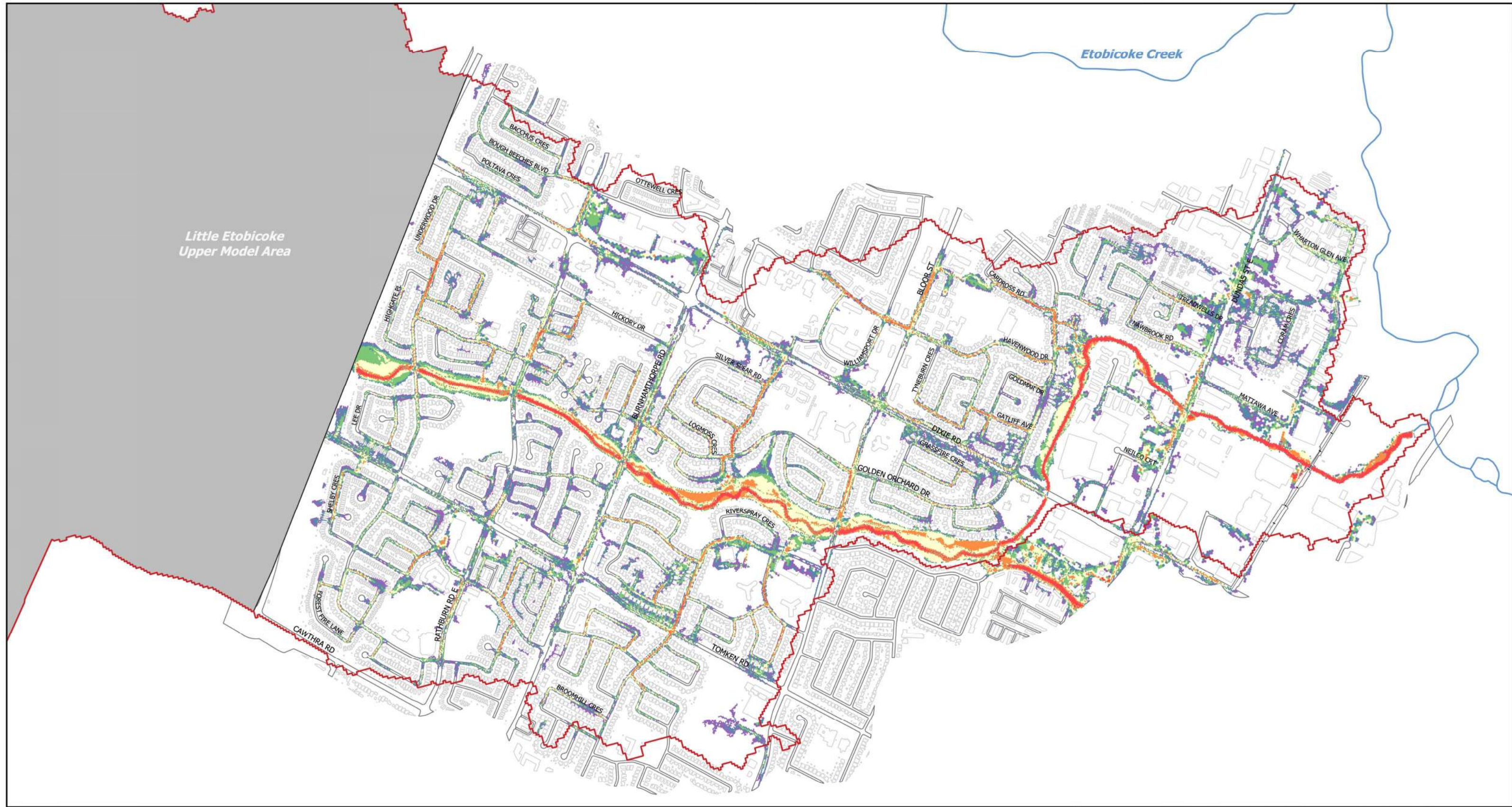
100 Year (Minor Modified) - Depth

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A. MacKay
K. Hofbauer

MM-14.1

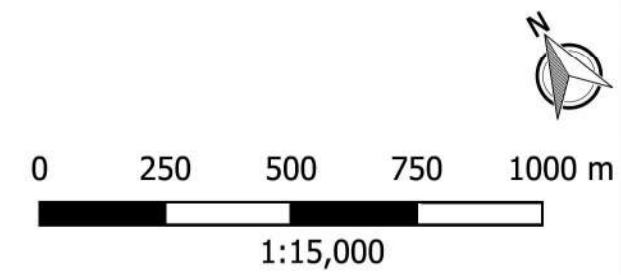
Project #24603



Run Date: August 13, 2018
Figure Date: September 20, 2018

- | | |
|-------------------------------|-------------|
| Little Etobicoke Catchment | 1.00 - 1.70 |
| Upper Model Area | 1.70 - 2.00 |
| 2D Model Results | > 2.00 |
| Maximum Velocity (m/s) | Railway |
| <= 0.10 | Watercourse |
| 0.10 - 0.25 | Roads |
| 0.25 - 0.50 | Buildings |
| 0.50 - 1.00 | |

This drawing must be used in conjunction with the attached report, Progress Report #2 - Modelling for Flood Characterization and Analysis, (September 2018) and is subject to the same limitations and conditions stated in the report.



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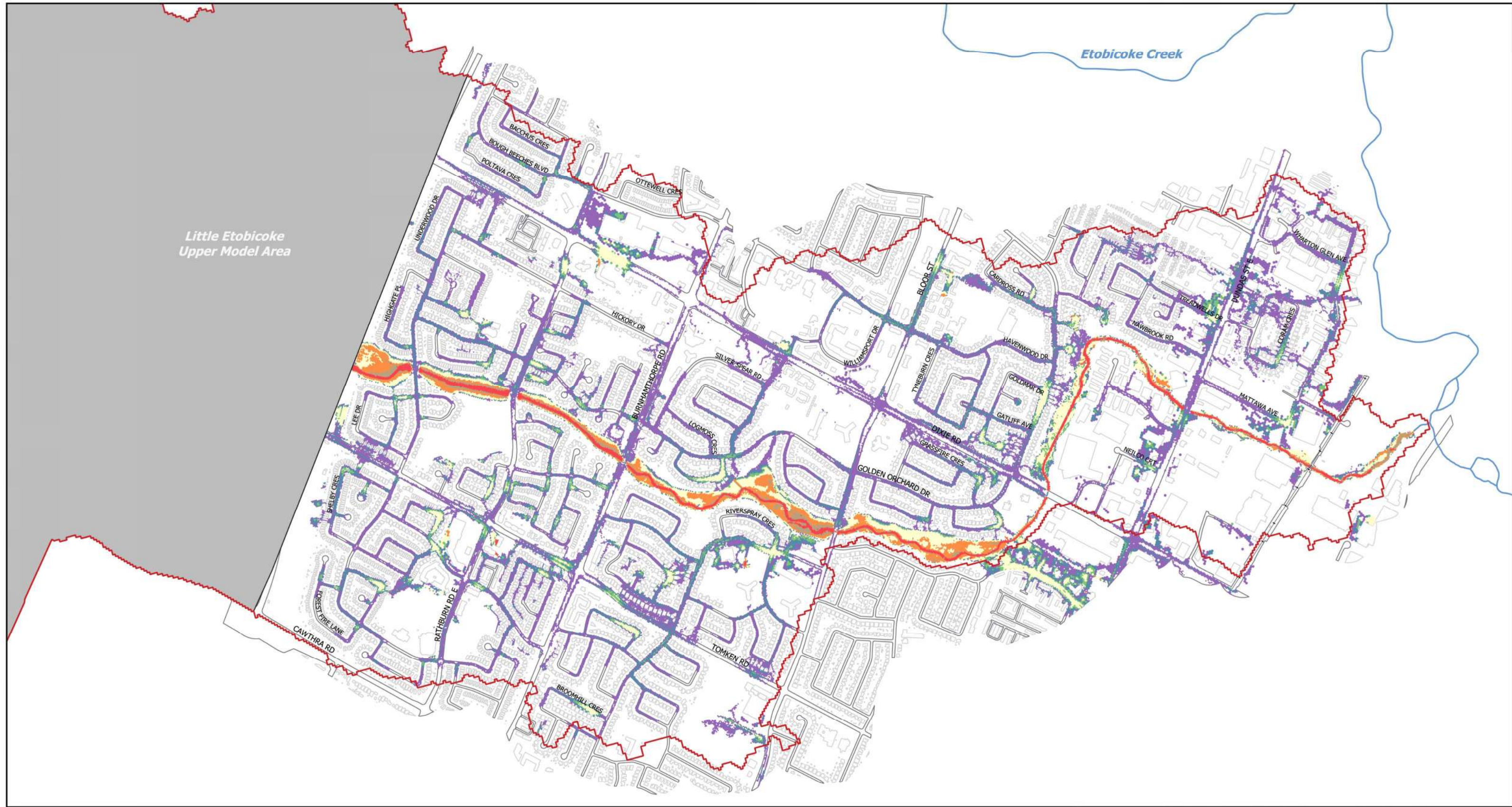
Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Lower Model Results
100 Year (Minor Modified) - Velocity

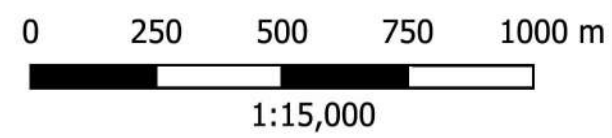
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A. MacKay
K. Hofbauer
MM-14.2



Run Date: August 13, 2018
Figure Date: September 20, 2018

- | | |
|--|-------------|
| Little Etobicoke Catchment | 1.00 - 1.50 |
| Upper Model Area | 1.50 - 2.00 |
| 2D Model Results | |
| Maximum Depth x Velocity (m ² /s) | |
| ≤ 0.10 | > 2.00 |
| 0.10 - 0.25 | Railway |
| 0.25 - 0.37 | Watercourse |
| 0.37 - 1.00 | Roads |
| | Buildings |



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Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Lower Model Results
100 Year (Minor Modified) - Depth x Velocity

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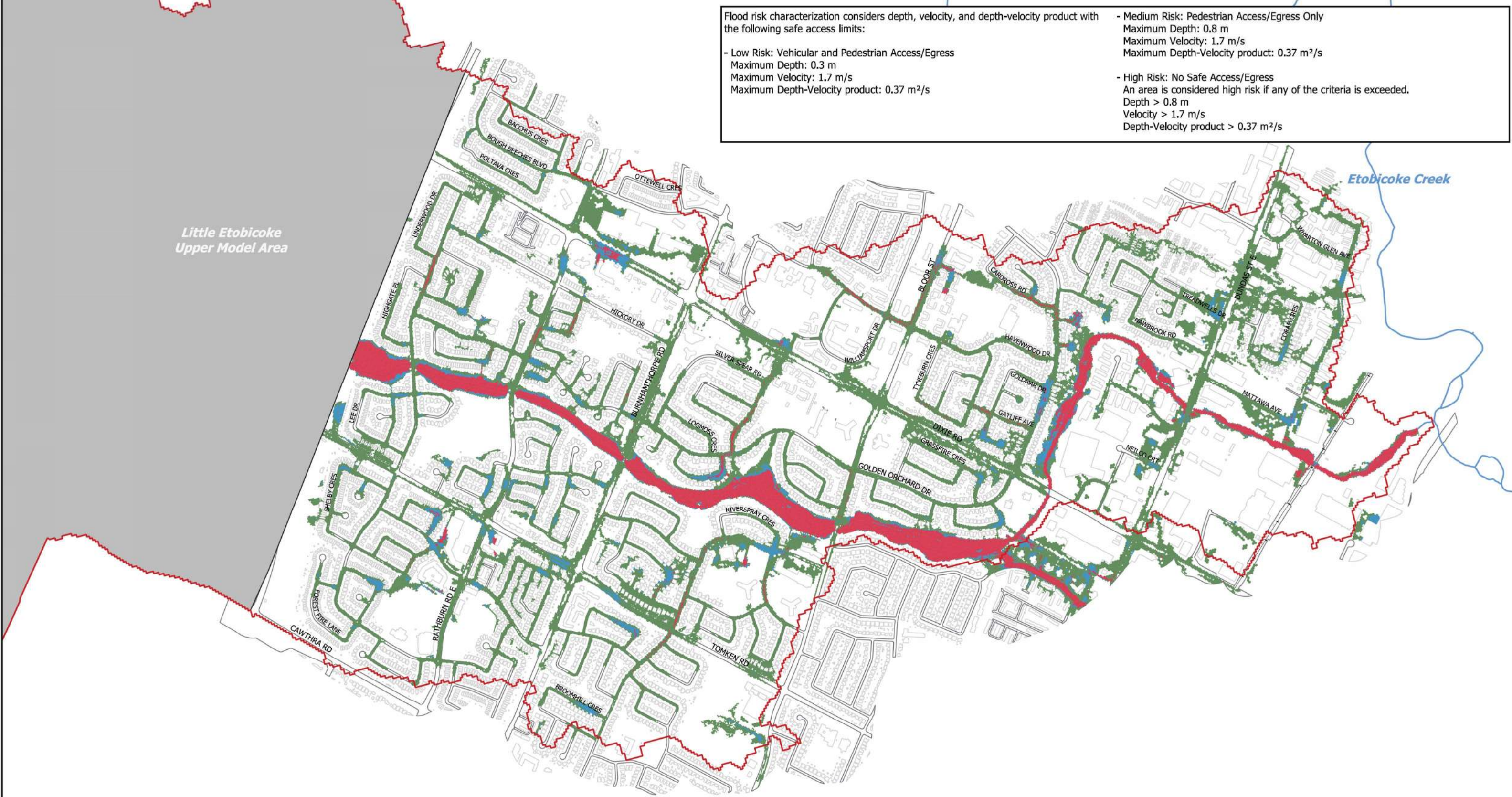
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A. MacKay
K. Hofbauer
MM-14.3

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
- 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

Little Etobicoke
Upper Model Area



Run Date: August 13, 2018
Figure Date: September 20, 2018

Little Etobicoke Catchment

Upper Model Area

Low

Medium

High

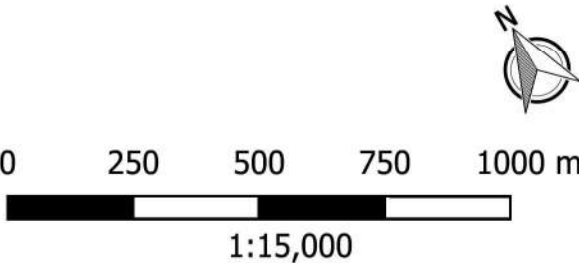
Railway

Watercourse

Roads

Buildings

This drawing must be used in conjunction with the attached report, Progress Report #2 - Modelling for Flood Characterization and Analysis, (September 2018) and is subject to the same limitations and conditions stated in the report.



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Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

PCSWMM Lower Model Results
100 Year (Minor Modified) - Risk

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A. MacKay
K. Hofbauer

MM-14.4

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