Run Date: June 26, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
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
- Watercourse
- Roads
- Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
2 Year - Depth

A. MacKay
K. Hofbauer

Map 1.1

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

Run Date: June 26, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
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

Watercourse
Roads
Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
2 Year - Velocity

A. MacKay
K. Hofbauer

Map 1.2

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

Run Date: June 26, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
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
- Watercourse
- Roads
- Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
2 Year - Depth x Velocity

A. MacKay
K. Hofbauer

Map 1.3

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

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

Run Date: June 26, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
2 Year - Risk

A. MacKay
K. Hofbauer

Map 1.4

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

Run Date: June 26, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
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

Watercourse
Roads
Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
5 Year - Depth

A. MacKay
K. Hofbauer

Map 2.1

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

Run Date: June 26, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
Maximum Velocity (m/s)

- 0.00 - 0.00
- <= 0.10
- 0.10 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 1.70
- 1.70 - 2.00
- > 2.00
- Watercourse
- Roads
- Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
5 Year - Velocity

A. MacKay
K. Hofbauer

Map 2.2

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

Run Date: June 26, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
Maximum Depth x Velocity (m^2/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
- Watercourse
- Roads
- Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
5 Year - Depth x Velocity

A. MacKay
K. Hofbauer

Map 2.3

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

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

Run Date: June 26, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
5 Year - Risk

A. MacKay
K. Hofbauer

Map 2.4

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

Run Date: June 26, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
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
- Watercourse
- Roads
- Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
10 Year - Depth

A. MacKay
K. Hofbauer

Map 3.1

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

Run Date: June 26, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
Maximum Velocity (m/s)

0.00 - 0.00
<= 0.10
0.10 - 0.25
0.25 - 0.50
0.50 - 1.00
1.00 - 1.70
1.70 - 2.00
> 2.00
Watercourse
Roads
Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
10 Year - Velocity

A. MacKay
K. Hofbauer

Map 3.2

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

Run Date: June 26, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
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
- Watercourse
- Roads
- Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
10 Year - Depth x Velocity

A. MacKay
K. Hofbauer

Map 3.3

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

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

Run Date: June 26, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
10 Year - Risk

A. MacKay
K. Hofbauer

Map 3.4

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

Run Date: July 27, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
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
- Watercourse
- Roads
- Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
25 Year - Depth

A. MacKay
K. Hofbauer

Map 4.1

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

Run Date: July 27, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
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

Watercourse
Roads
Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
25 Year - Velocity

A. MacKay
K. Hofbauer

Map 4.2

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

Run Date: July 27, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
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
- Watercourse
- Roads
- Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
25 Year - Depth x Velocity

A. MacKay
K. Hofbauer

Map 4.3

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

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

Run Date: July 27, 2018
Figure Date: September 20, 2018

Little Etobicoke Catchment
Lower Model Area

2D Model Results
Risk
Low
Medium
High

Watercourse
Roads
Buildings

N

0 250 500 750 1000 m

1:17,500

This drawing must be used in conjuction 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.

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
25 Year - Risk

A. MacKay
K. Hofbauer

Map 4.4

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

Run Date: June 14, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
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
- Watercourse
- Roads
- Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
50 Year - Depth

A. MacKay
K. Hofbauer

Map 5.1

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

Run Date: June 14, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
Maximum Velocity (m/s)

- 0.00 - 0.00
- <= 0.10
- 0.10 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 1.70
- 1.70 - 2.00
- > 2.00
- Watercourse
- Roads
- Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
50 Year - Velocity

A. MacKay
K. Hofbauer

Map 5.2

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

Run Date: June 14, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
Maximum Depth x Velocity (m^2/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
- Watercourse
- Roads
- Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
50 Year - Depth x Velocity

A. MacKay
K. Hofbauer

Map 5.3

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

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 m^2/s
- Medium Risk: Pedestrian Access/Egress Only
  Maximum Depth: 0.8 m
  Maximum Velocity: 1.7 m/s
  Maximum Depth-Velocity product: 0.37 m^2/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 m^2/s

Run Date: June 14, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
Watercourse
Roads
Buildings

2D Model Results
Risk
Low
Medium
High

N

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
50 Year - Risk

A. MacKay
K. Hofbauer

Map 5.4

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

Run Date: June 5, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
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
- Watercourse
- Roads
- Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
100 Year - Depth

A. MacKay
K. Hofbauer

Map 6.1

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

Run Date: June 5, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
Maximum Velocity (m/s)

- 0.00 - 0.00
- <= 0.10
- 0.10 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 1.70
- 1.70 - 2.00
- > 2.00
- Watercourse
- Roads
- Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
100 Year - Velocity

A. MacKay
K. Hofbauer

Map 6.2

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

Run Date: June 5, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
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
- Watercourse
- Roads
- Buildings

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
100 Year - Depth x Velocity

A. MacKay
K. Hofbauer

Map 6.3

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

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

Run Date: June 5, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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

N

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 - Risk

A. MacKay
K. Hofbauer

Map 6.4

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

Run Date: June 24, 2018
Figure Date: July 9, 2018

This drawing must be used in conjuction 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.

- Lower Model Area
- Reported Flooding
- Little Etobicoke Catchment

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
- Watercourse
- Roads
- Buildings

N

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
July 8, 2013 - Depth

A. MacKay
K. Hofbauer

Map 7.1

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

Run Date: June 24, 2018
Figure Date: July 9, 2018

This drawing must be used in conjuction 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.

- Lower Model Area
- Little Etobicoke Catchment

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
- Watercourse
- Roads
- Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
July 8, 2013 - Velocity

A. MacKay
K. Hofbauer

Map 7.2

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

Run Date: June 24, 2018
Figure Date: July 9, 2018

This drawing must be used in conjuction 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.

- Lower Model Area
- Little Etobicoke Catchment

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
- Watercourse
- Roads
- Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
July 8, 2013 - Depth x Velocity

A. MacKay
K. Hofbauer

Map 7.3

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

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 m^2/s

- Medium Risk: Pedestrian Access/Egress Only
  Maximum Depth: 0.8 m
  Maximum Velocity: 1.7 m/s
  Maximum Depth-Velocity product: 0.37 m^2/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 m^2/s

Run Date: June 24, 2018
Figure Date: July 9, 2018

This drawing must be used in conjuction 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.

Lower Model Area
Little Etobicoke Catchment

2D Model Results
Risk
Low
Medium
High

Watercourse
Roads
Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
July 8, 2013 - Risk

A. MacKay
K. Hofbauer

Map 7.4

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

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

This drawing must be used in conjuction 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
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

Watercourse
Roads
Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
Regional Storm - Depth

A. MacKay
K. Hofbauer

Map 8.1

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

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

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Little Etobicoke Catchment
Lower Model Area

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
- Watercourse
- Roads
- Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
Regional Storm - Velocity

A. MacKay
K. Hofbauer

Map 8.2

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

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

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Little Etobicoke Catchment
Lower 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
- Watercourse
- Roads
- Buildings

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
Regional Storm - Depth x Velocity

A. MacKay
K. Hofbauer

Map 8.3

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

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  Maximum Depth-Velocity product: 0.37 m²/s

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  Maximum Depth: 0.8 m
  Maximum Velocity: 1.7 m/s
  Maximum Depth-Velocity product: 0.37 m²/s

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

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

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Little Etobicoke Catchment
Lower Model Area

2D Model Results
Risk
Low
Medium
High

Watercourse
Roads
Buildings

N

0 250 500 750 1000 m

1:17,500

Matrix Solutions Inc.
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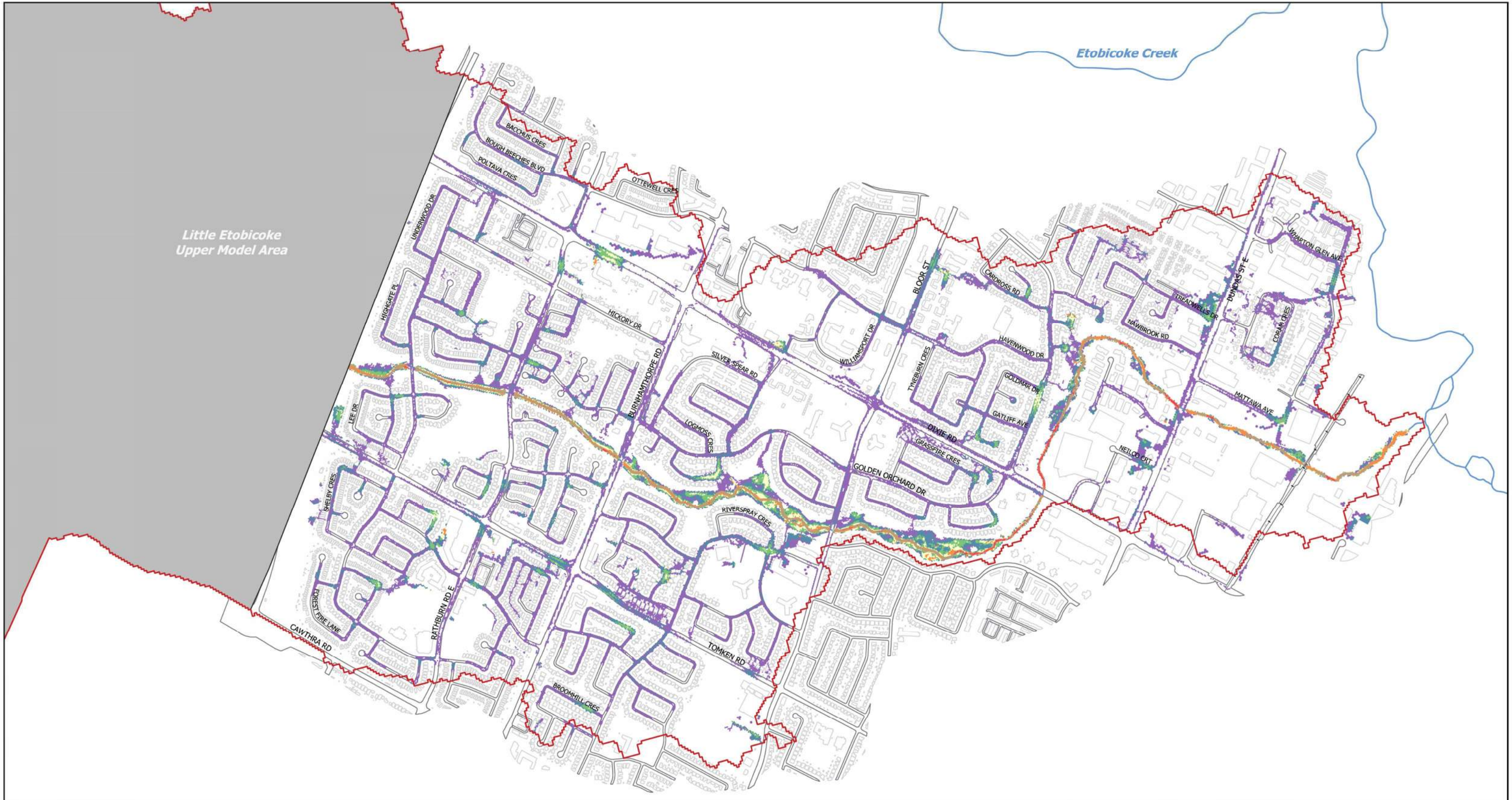
Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Upper Model Results
Regional Storm - Risk

A. MacKay
K. Hofbauer

Map 8.4

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



Run Date: June 27, 2018
Figure Date: September 20, 2018

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- 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

N

0 250 500 750 1000 m

1:15,000

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
2 Year - Depth

A. MacKay
K. Hofbauer

Map 9.1

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

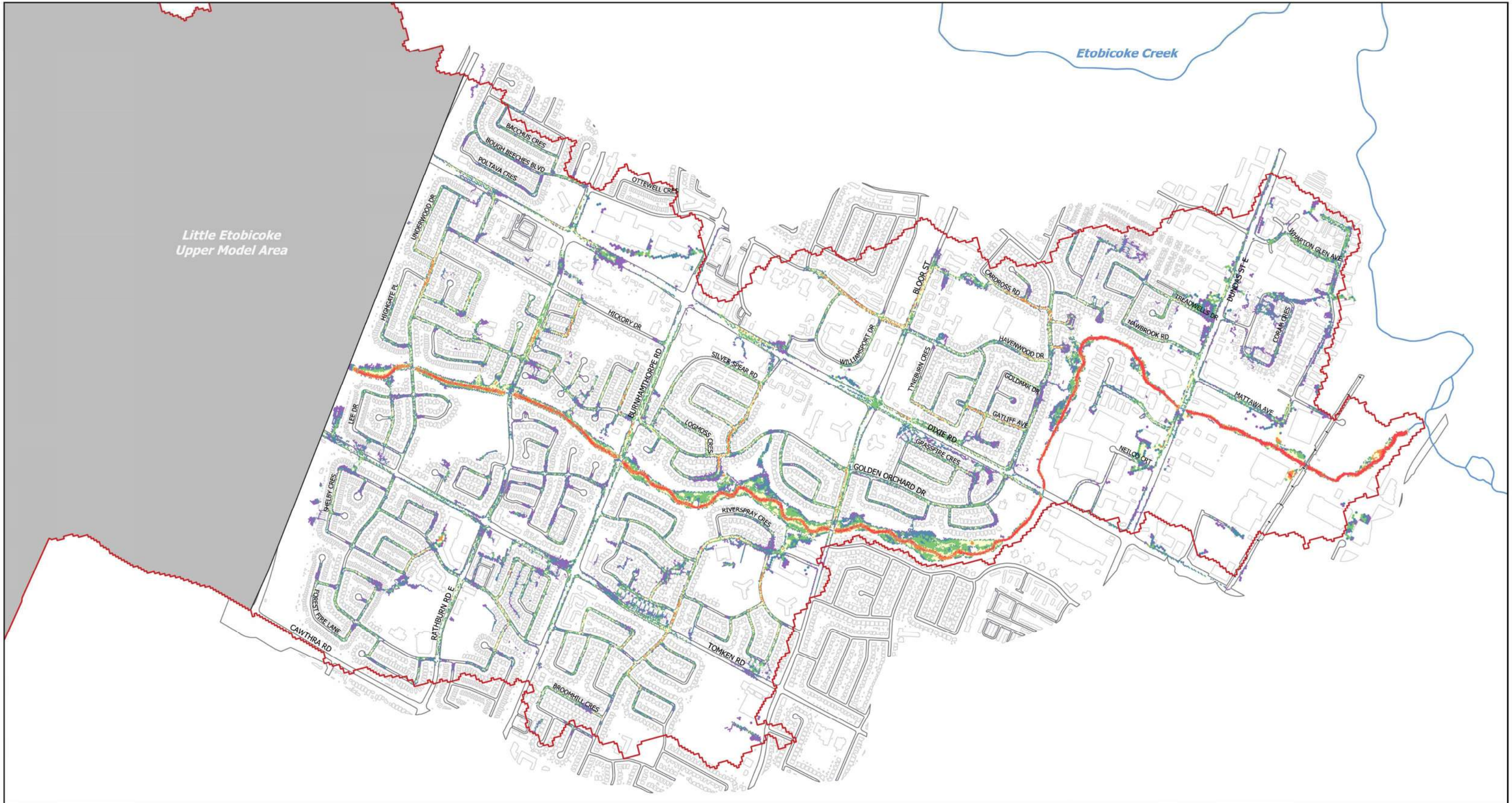

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Figure Date: September 20, 2018

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- Little Etobicoke Catchment
- Upper Model Area

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

N

0 250 500 750 1000 m

1:15,000

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
2 Year - Velocity

A. MacKay
K. Hofbauer

Map 9.2

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

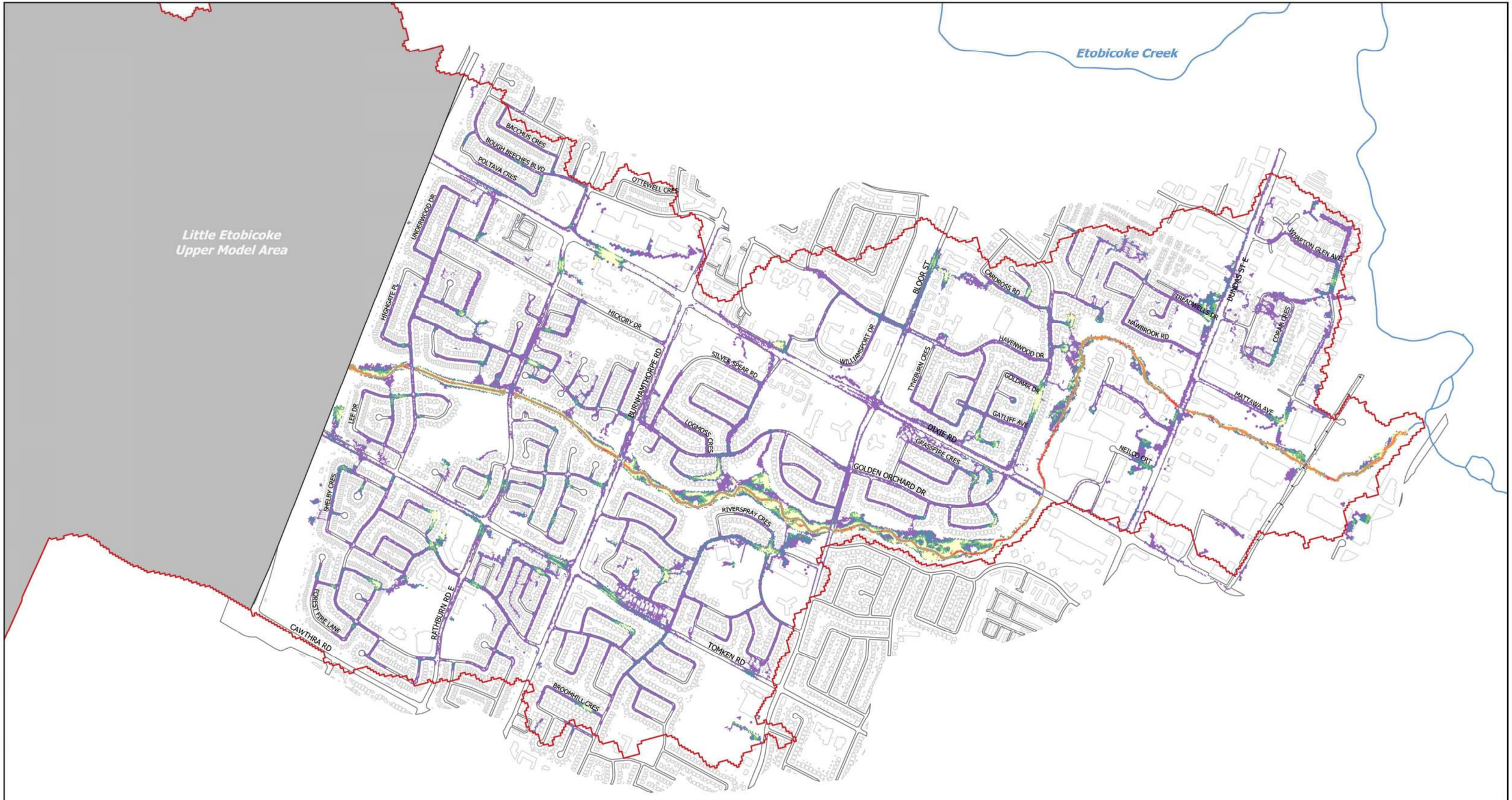

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Figure Date: September 20, 2018

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- 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

N

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
2 Year - Depth x Velocity

A. MacKay
K. Hofbauer

Map 9.3

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

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

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  Maximum Depth-Velocity product: 0.37 m²/s

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  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

Etobicoke Creek

BACCHUS CRES
BOUGH BEECHES BLVD
POLTAVA CRES
OTTEWELL CRES
UNDERWOOD DR
HIGHGATE PL
HICKORY DR
BURNHAMTHORPE RD
SILVER SPEAR RD
LOGMOSS CRES
LEE DR
SHELBY CRES
FOREST FIRE LANE
CAWTHRA RD
RATHBURN RD E
TOMKEN RD
BROOMHILL CRES
GOLDEN ORCHARD DR
RIVERSPRAY CRES
GRASSFIRE CRES
DIXIE RD
WILLIANSPORT DR
TIVERBURN CRES
BLOOR ST
CARDROSS RD
HAVENWOOD DR
GOLDMAR DR
GATLIFF AVE
NEILOR CRT
TREADWELLS DR
NAWBROOK RD
DUNDAS ST E
CORAM CRES
WHARTON GLEN AVE
MATTAWA AVE

Run Date: June 27, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
Upper Model Area

2D Model Results
Risk
Low
Medium
High

Railway
Watercourse
Roads
Buildings

N

0 250 500 750 1000 m

1:15,000

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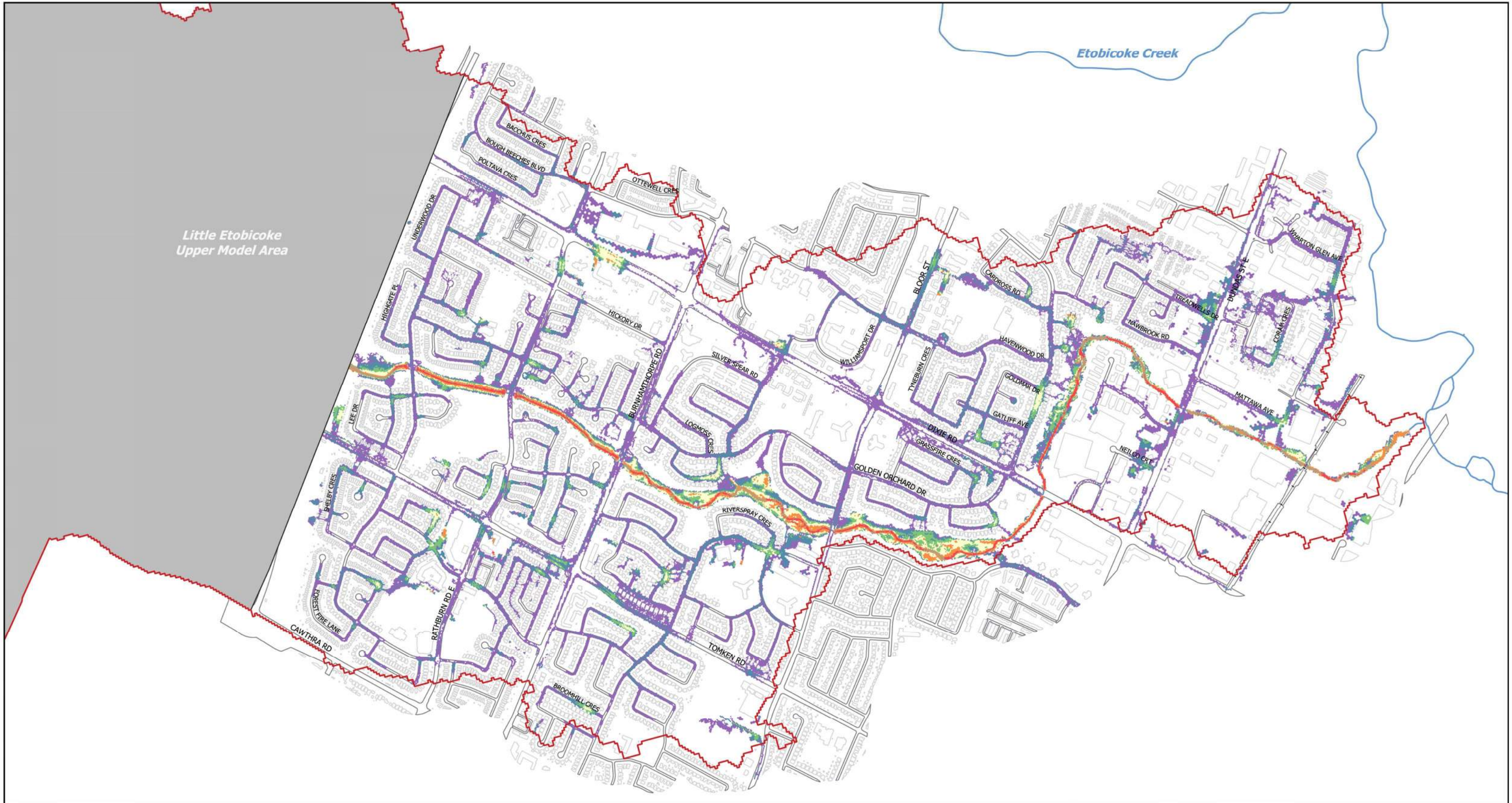
Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
2 Year - Risk

A. MacKay
K. Hofbauer

Map 9.4

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



Run Date: June 27, 2018
Figure Date: September 20, 2018

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- 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

N

0 250 500 750 1000 m

1:15,000

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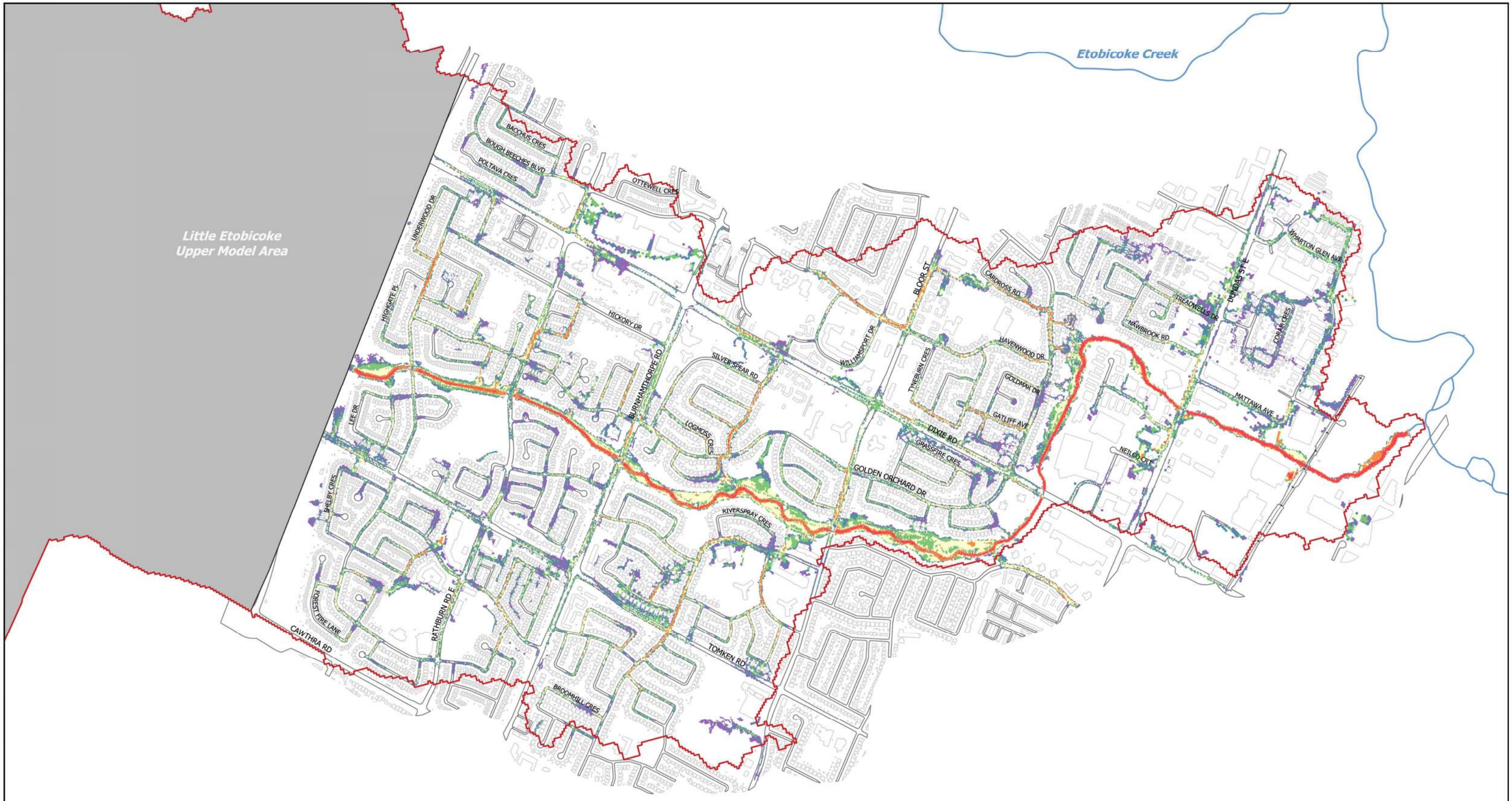
Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
5 Year - Depth

A. MacKay
K. Hofbauer

Map 10.1

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



Run Date: June 27, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
- Upper Model Area

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

N

0 250 500 750 1000 m

1:15,000

Matrix Solutions Inc.
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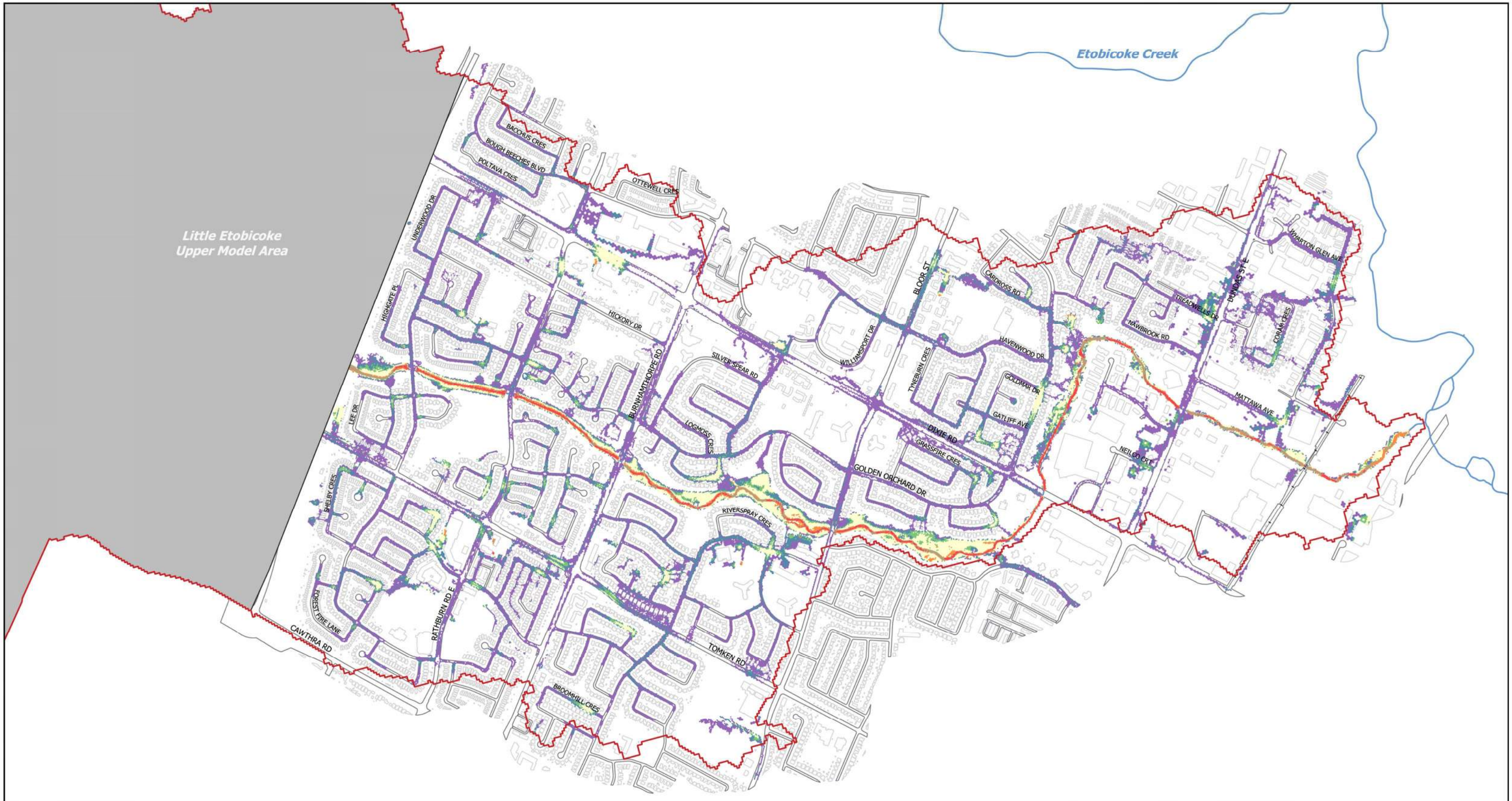
Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
5 Year - Velocity

A. MacKay
K. Hofbauer

Map 10.2

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



Run Date: June 27, 2018
Figure Date: September 20, 2018

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- Little Etobicoke Catchment
- Upper Model Area

2D Model Results
Maximum Depth x Velocity (m^2/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

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
5 Year - Depth x Velocity

A. MacKay
K. Hofbauer

Map 10.3

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

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

Etobicoke Creek

BACCHUS CRES
BOUGH BEECHES BLVD
POLTAVA CRES
OTTEWELL CRES
UNDERWOOD DR
HIGHGATE PL
HICKORY DR
BURNHAMTHORPE RD
SILVER SPEAR RD
LOGMOSS CRES
LEE DR
SHELBY CRES
FOREST FIRE LANE
CAWTHRA RD
RATHBURN RD E
WILLIANSPORT DR
BLOOR ST
TIVERBURN CRES
CARDROSS RD
HAVENWOOD DR
GOLDMAR DR
GATLIFF AVE
DIXIE RD
GRASSFIRE CRES
GOLDEN ORCHARD DR
RIVERSPRAY CRES
TOMKEN RD
BROOMHILL CRES
TREADMILLS DR
DUNDAS ST E
NAWBROOK RD
CORAM CRES
WHARTON GLEN AVE
MATTAWA AVE
NEILCO CRT

Run Date: June 27, 2018
Figure Date: September 20, 2018

Little Etobicoke Catchment
Upper Model Area

2D Model Results
Risk
Low
Medium
High

Railway
Watercourse
Roads
Buildings

N

0 250 500 750 1000 m

1:15,000

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Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
5 Year - Risk

A. MacKay
K. Hofbauer

Map 10.4

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

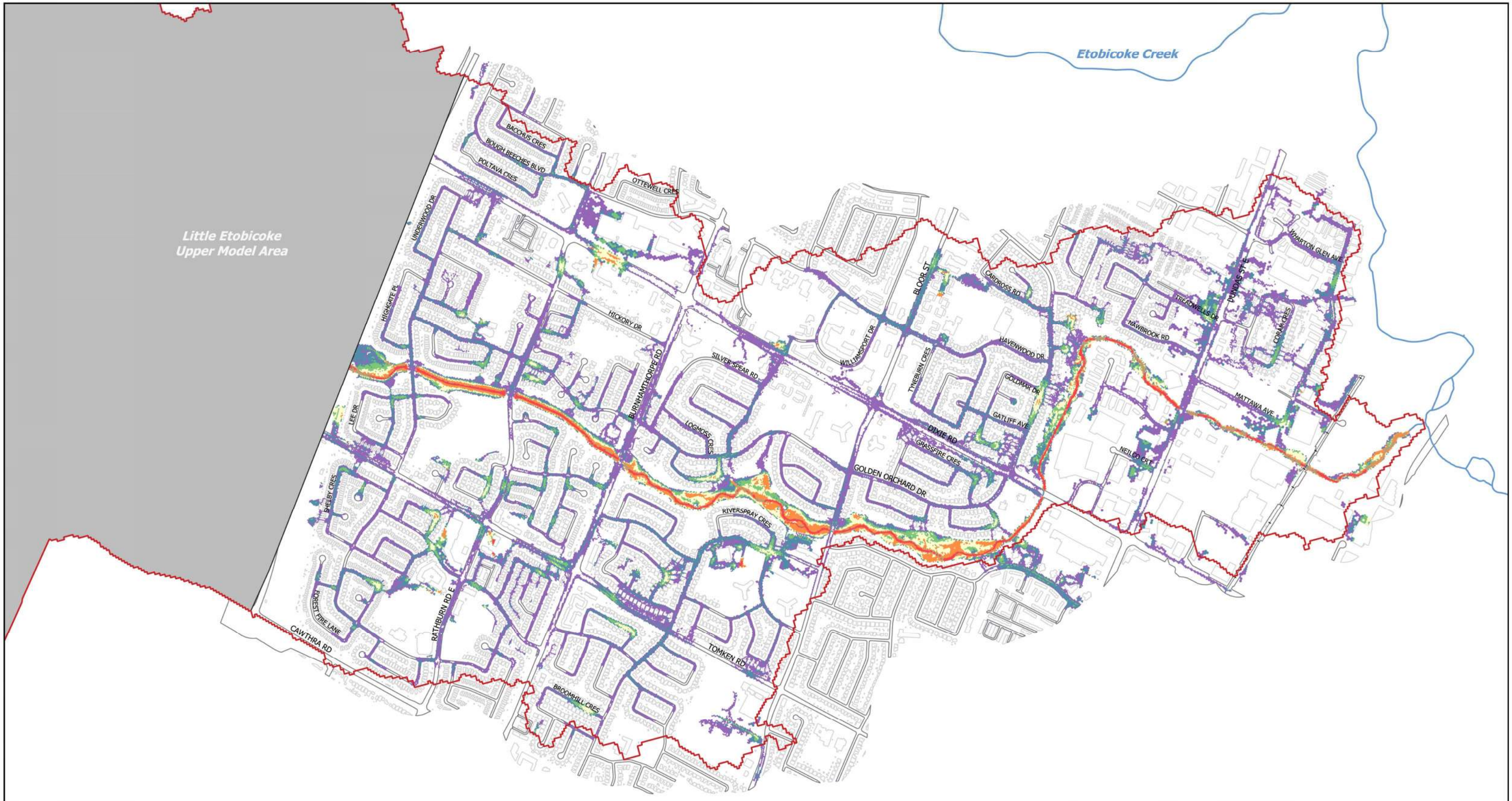

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Figure Date: September 20, 2018

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- 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

N

0 250 500 750 1000 m

1:15,000

Matrix Solutions Inc.
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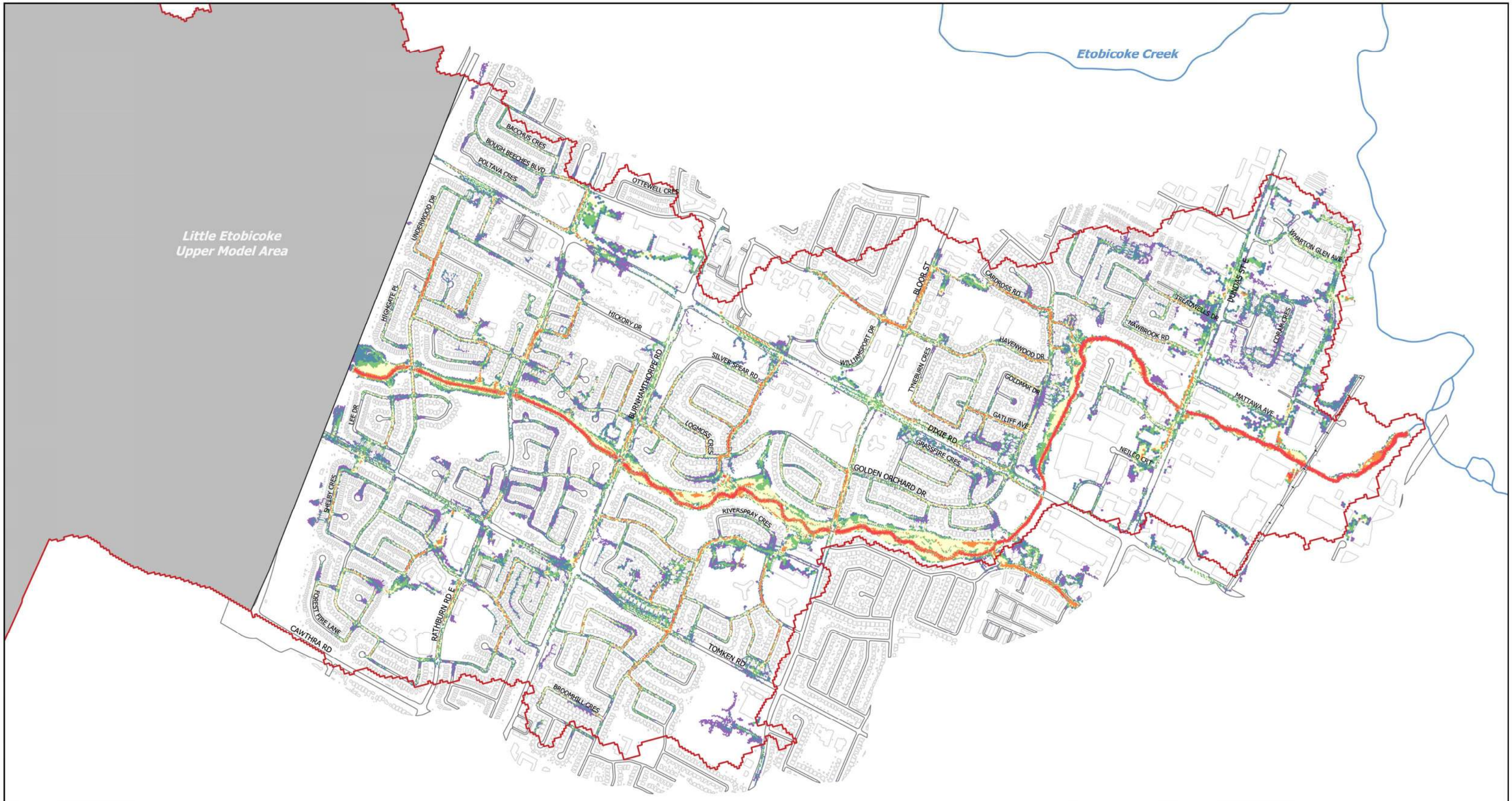
Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
10 Year - Depth

A. MacKay
K. Hofbauer

Map 11.1

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



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- Little Etobicoke Catchment
- Upper Model Area

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

N

0 250 500 750 1000 m

1:15,000

Matrix Solutions Inc.
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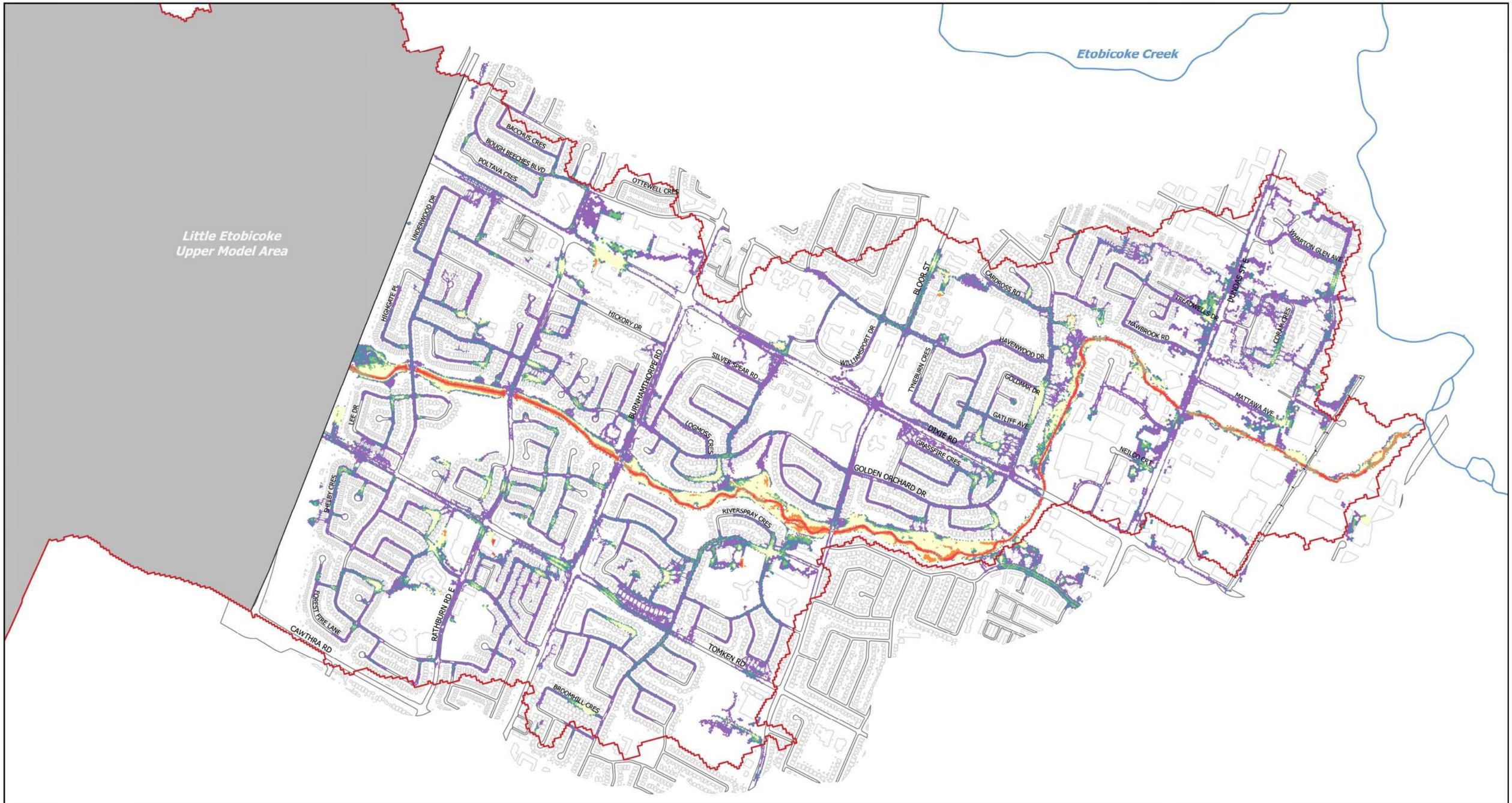
Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
10 Year - Velocity

A. MacKay
K. Hofbauer

Map 11.2

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



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- 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

N

0 250 500 750 1000 m

1:15,000

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
10 Year - Depth x Velocity

A. MacKay
K. Hofbauer

Map 11.3

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

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  Maximum Velocity: 1.7 m/s
  Maximum Depth-Velocity product: 0.37 m²/s

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  Depth > 0.8 m
  Velocity > 1.7 m/s
  Depth-Velocity product > 0.37 m²/s

Little Etobicoke Upper Model Area

Etobicoke Creek

BACCHUS CRES
BOUGH BEECHES BLVD
POLTAVA CRES
OTTEWELL CRES
UNDERWOOD DR
HIGHGATE PL
HICKORY DR
BURNHAMTHORPE RD
SILVER SPEAR RD
LOGMOSS CRES
LEE DR
SHELBY CRES
WILLIAMSPORT DR
BLOOR ST
TWEEDBURN CRES
CARDROSS RD
HAVENWOOD DR
GOLDMAR DR
GATLIFFE AVE
DIXIE RD
GRASSFIRE CRES
GOLDEN ORCHARD DR
RIVERSPRAY CRES
NEILCO CRT
TREADWELLS DR
NAWBROOK RD
PONDAS ST
CORAM CRES
WHARTON GLEN AVE
MATTAWA AVE
FOREST FIRE LANE
RATHBURN RD E
CAWTHRA RD
TOMKEN RD
BROOMHILL CRES

Run Date: June 27, 2018
Figure Date: September 20, 2018

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Little Etobicoke Catchment
Upper Model Area

2D Model Results
Risk
Low
Medium
High

Railway
Watercourse
Roads
Buildings

N

0 250 500 750 1000 m

1:15,000

Matrix Solutions Inc.
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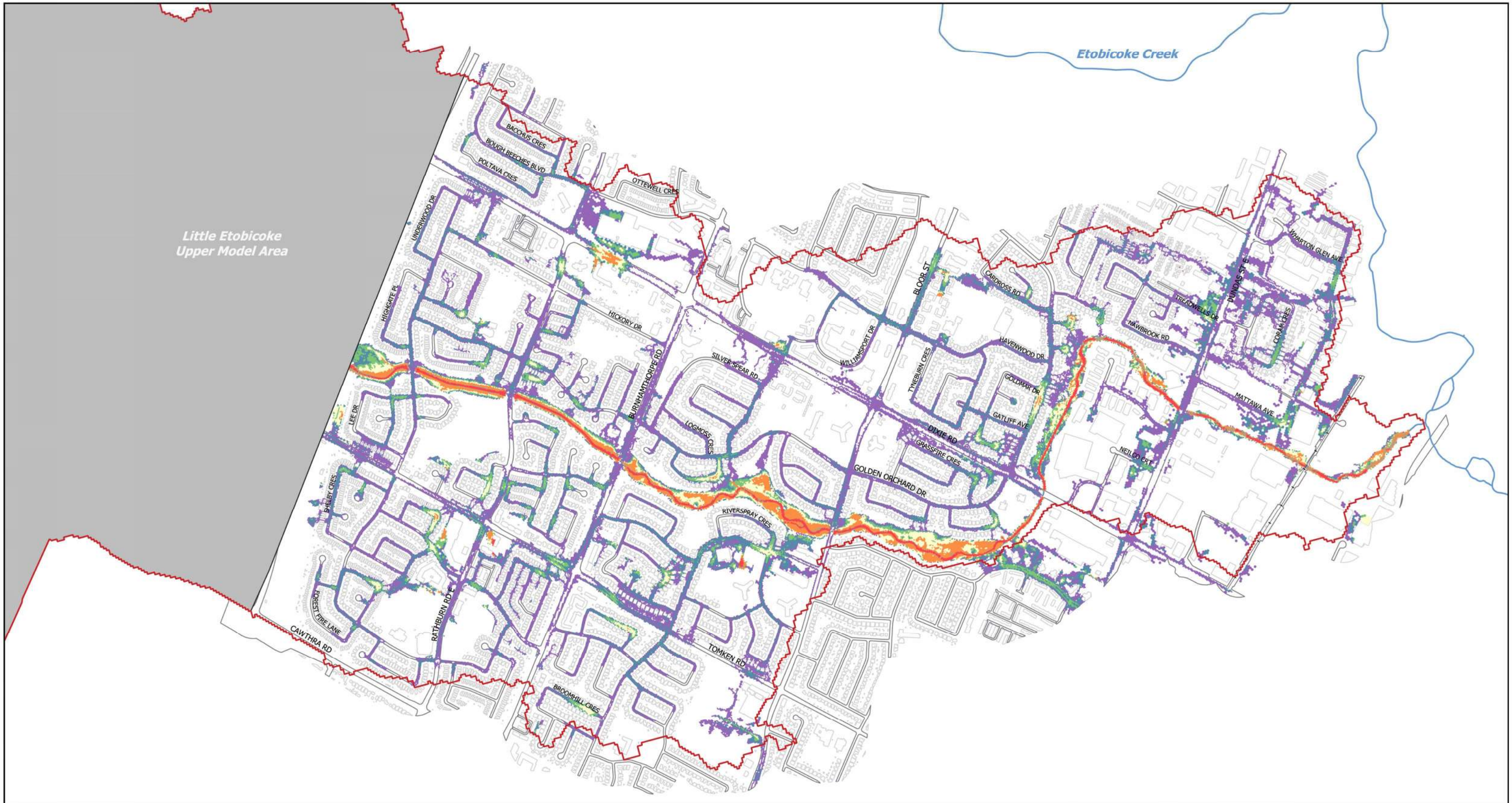
Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
10 Year - Risk

A. MacKay
K. Hofbauer

Map 11.4

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



Run Date: July 23, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
- 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

N

0 250 500 750 1000 m

1:15,000

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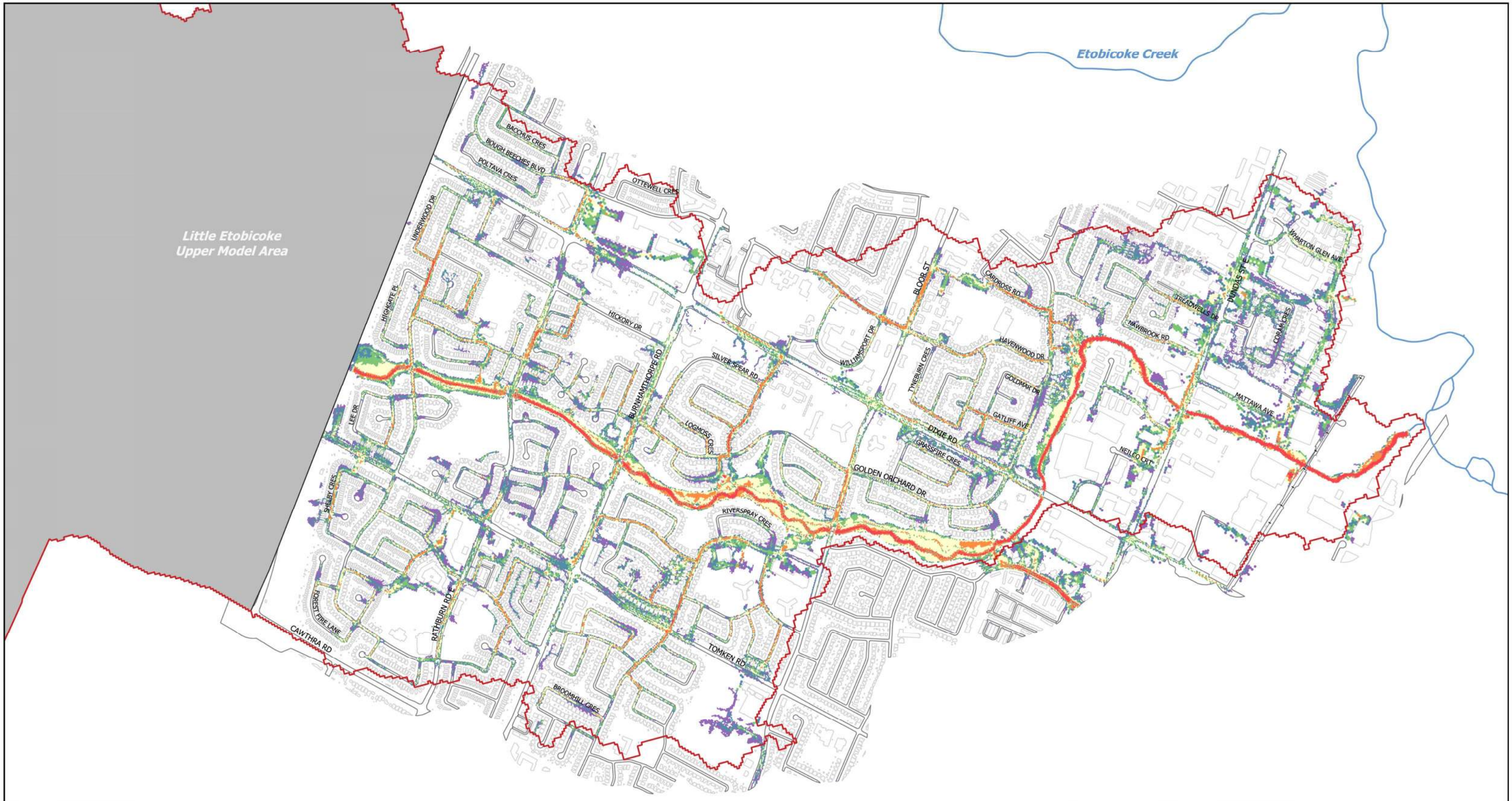
Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
25 Year - Depth

A. MacKay
K. Hofbauer

Map 12.1

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



Run Date: July 23, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
- Upper Model Area

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

N

0 250 500 750 1000 m

1:15,000

Matrix Solutions Inc.
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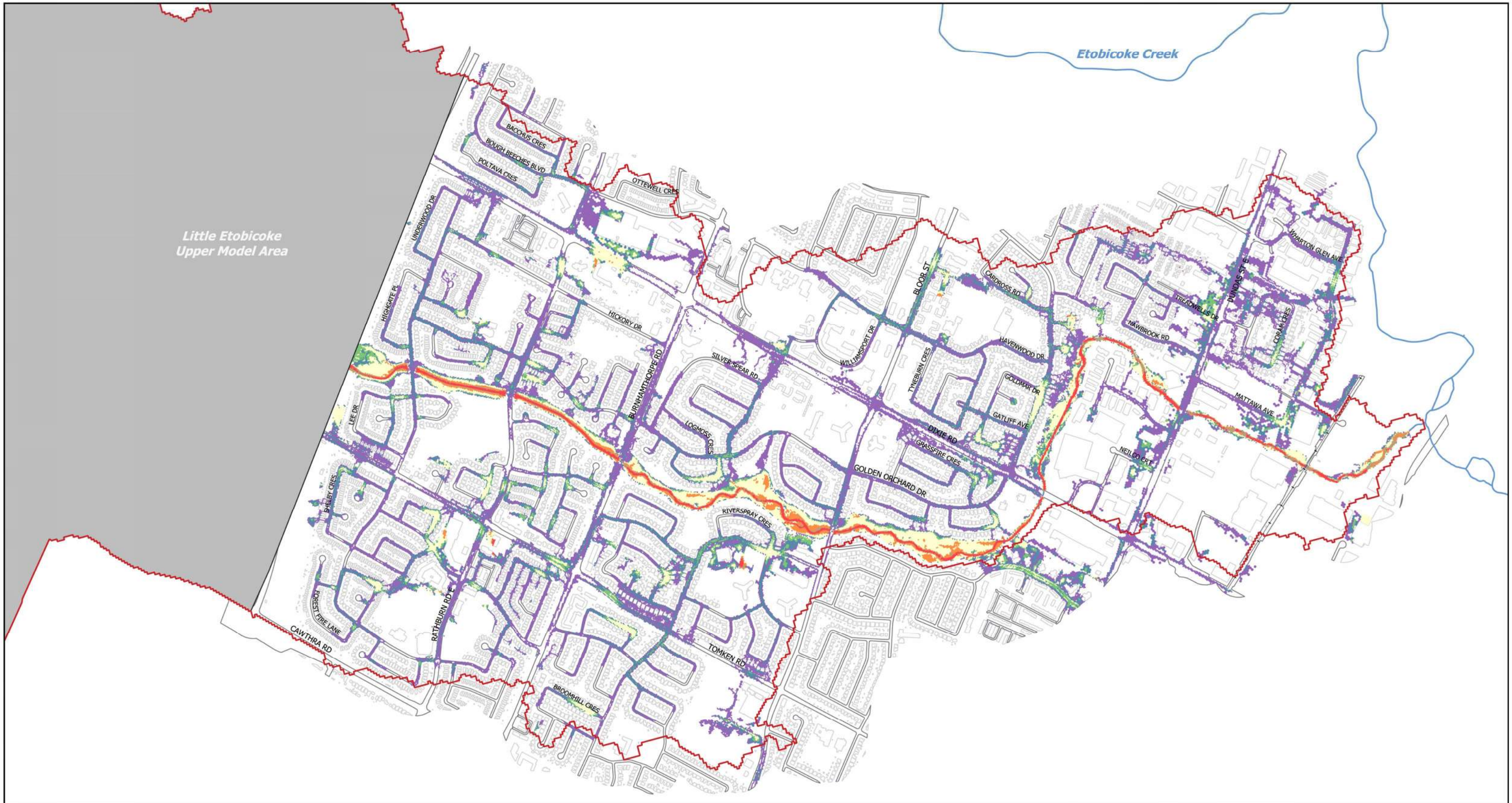
Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
25 Year - Velocity

A. MacKay
K. Hofbauer

Map 12.2

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



Run Date: July 23, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
- 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

N

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
25 Year - Depth x Velocity

A. MacKay
K. Hofbauer

Map 12.3

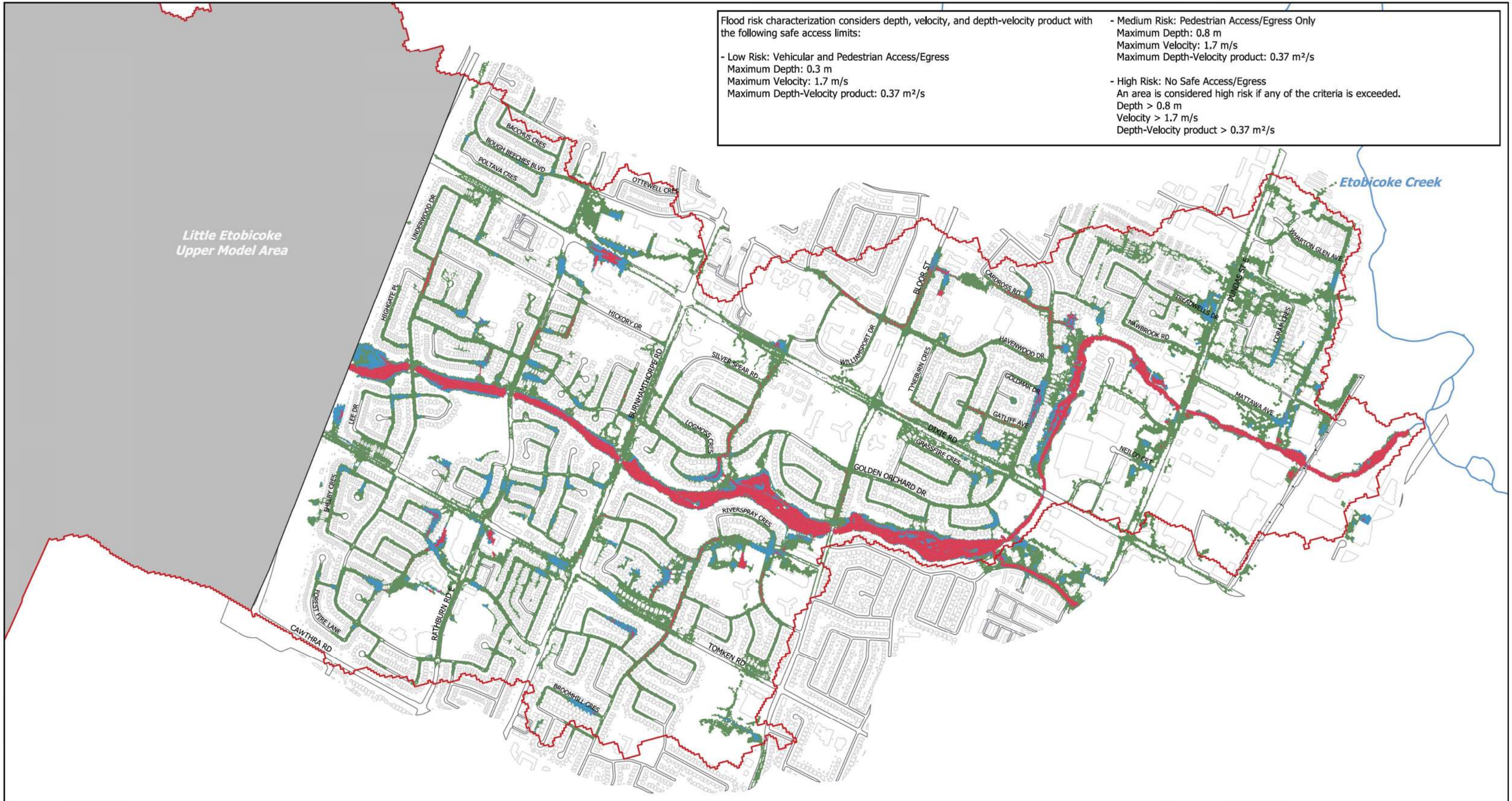
T:\24603 - Little EtobicokeCr_Flood\531\05 Analysis\GIS\Phase 2

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



Run Date: July 23, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
Upper Model Area

2D Model Results
Risk
Low
Medium
High

Railway
Watercourse
Roads
Buildings

N

0 250 500 750 1000 m

1:15,000

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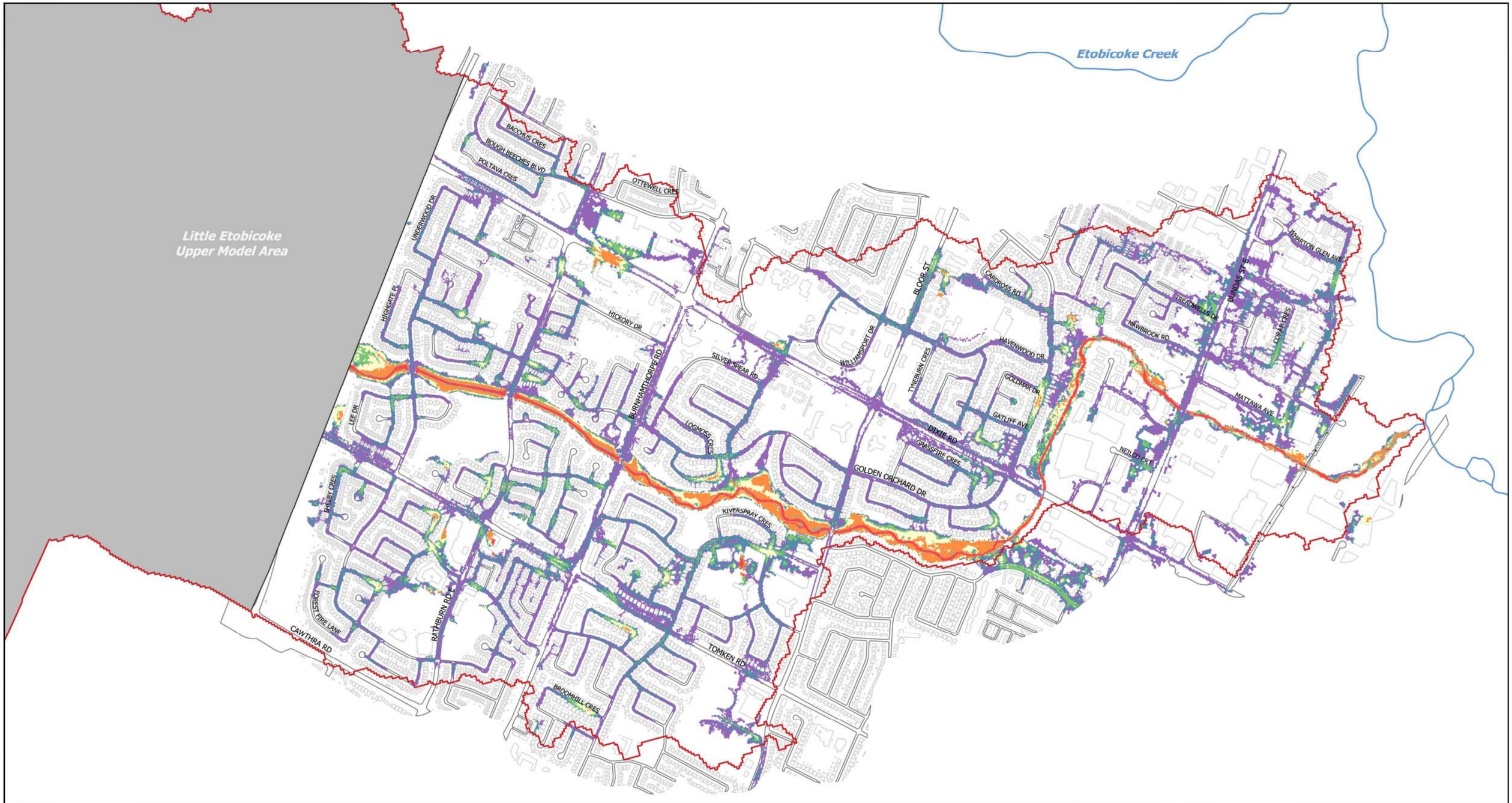
Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
25 Year - Risk

A. MacKay
K. Hofbauer

Map 12.4

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



Run Date: June 27, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
- 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

N

0 250 500 750 1000 m

1:15,000

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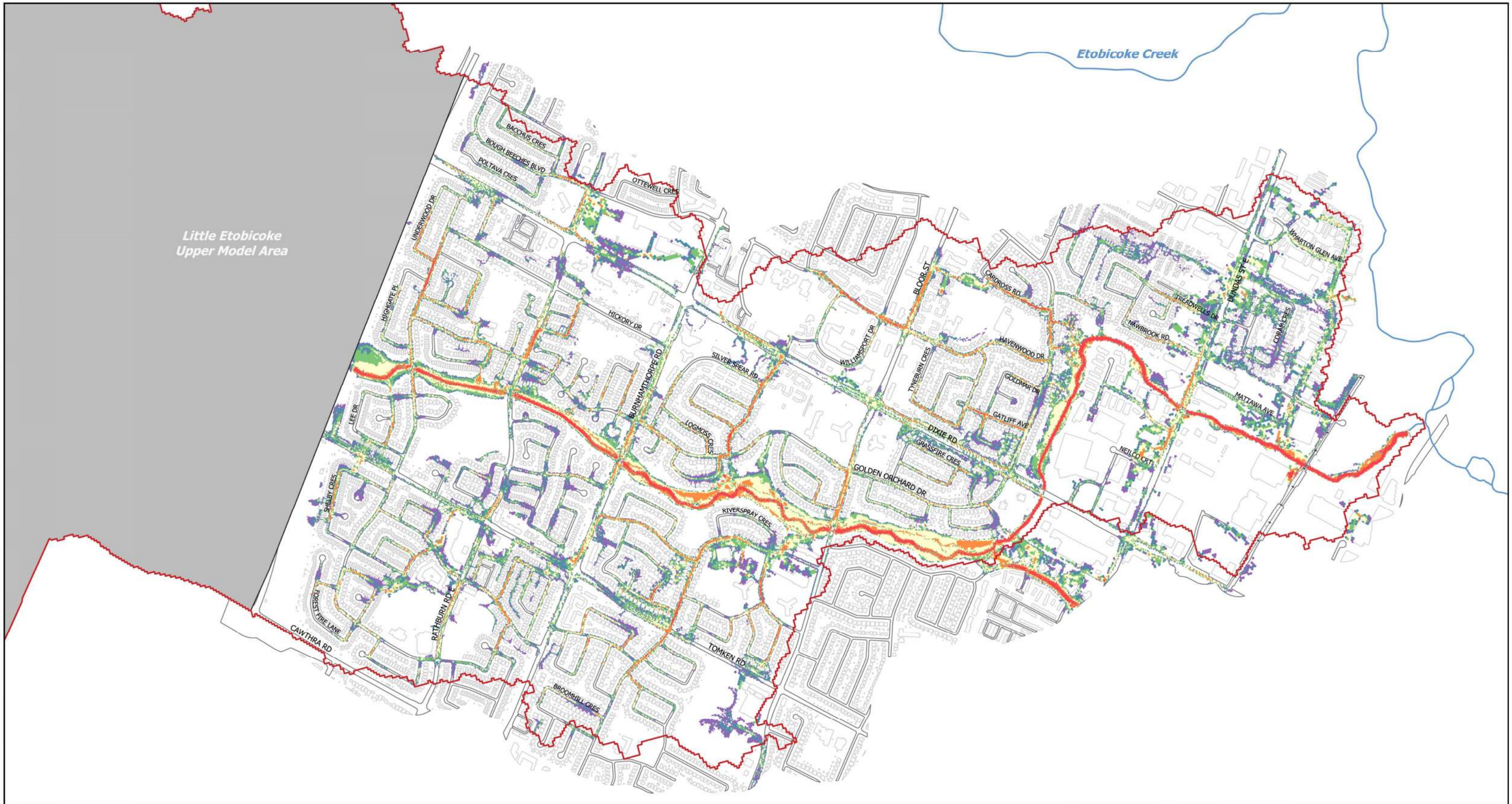
Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
50 Year - Depth

A. MacKay
K. Hofbauer

Map 13.1

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



Run Date: June 27, 2018
Figure Date: September 20, 2018

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- Little Etobicoke Catchment
- Upper Model Area

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

N

0 250 500 750 1000 m

1:15,000

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
50 Year - Velocity

A. MacKay
K. Hofbauer

Map 13.2

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

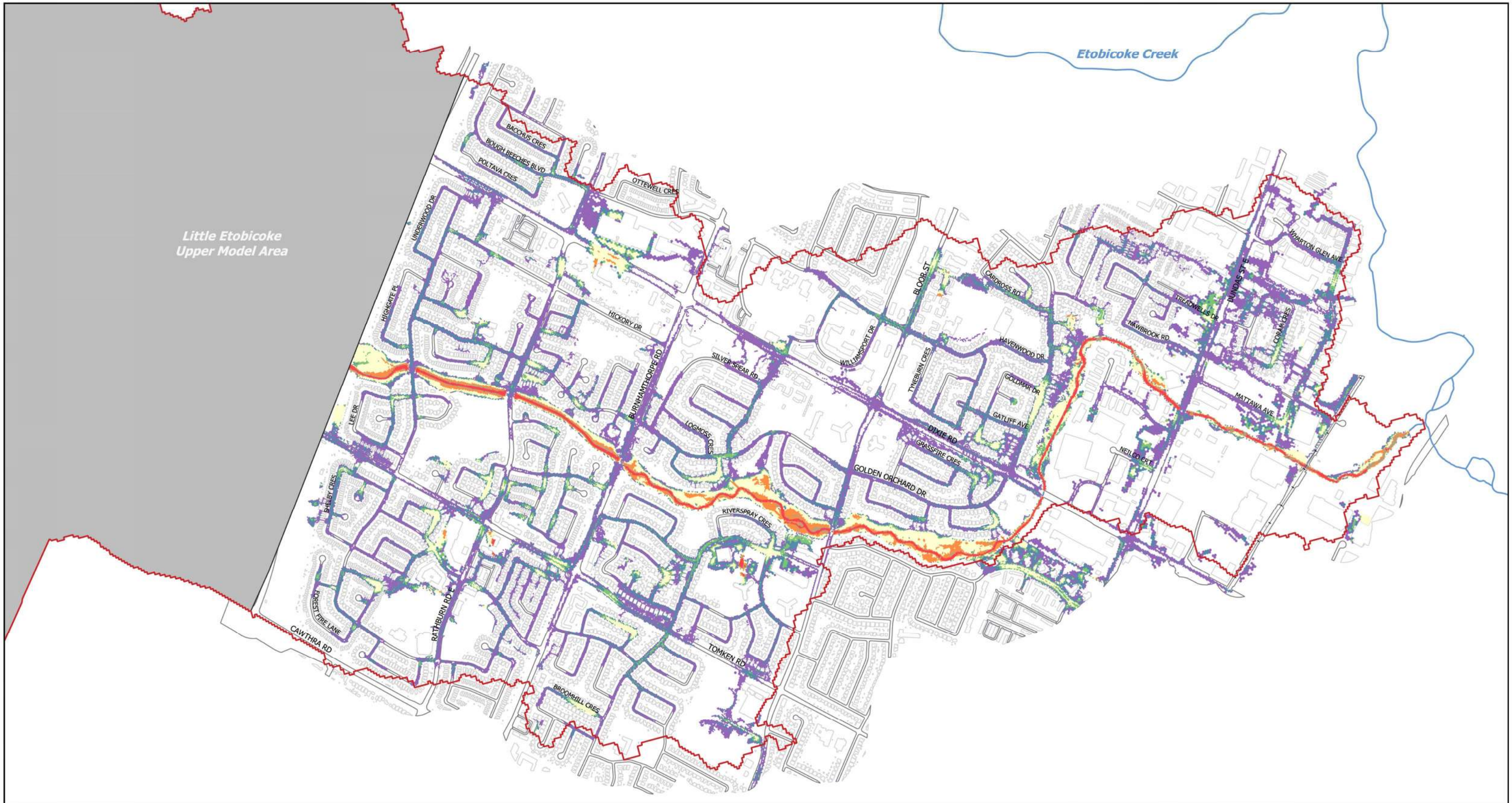

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Figure Date: September 20, 2018

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- 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

N

0 250 500 750 1000 m

1:15,000

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
50 Year - Depth x Velocity

A. MacKay
K. Hofbauer

Map 13.3

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

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

Little Etobicoke Upper Model Area

Etobicoke Creek

BACCHUS CRES
BOUGH BEECHES BLVD
POLTAVA CRES
OTTEWELL CRES
UNDERWOOD DR
HIGHGATE PL
HICKORY DR
BURNHAMTHORPE RD
SILVER SPEAR RD
LOGMOSS CRES
LEE DR
SHELBY CRES
FOREST FIRE LANE
CAWTHRA RD
RATHBURN RD
BROOMHILL CRES
TOMKEN RD
RIVERSPRAY CRES
GOLDEN ORCHARD DR
DIXIE RD
GRASSFIRE CRES
WILLIAMSPORT DR
TWEEDBURN CRES
BLOOR ST
CARDROSS RD
HAVENWOOD DR
GOLDMAR DR
GATLIFFE AVE
NEILCO CRT
TREADWELLS DR
NAWBROOK RD
DUNDAS ST E
CORAM CRES
WHARTON GLEN AVE
MATTAWA AVE

Run Date: June 27, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
Upper Model Area

2D Model Results
Risk
Low
Medium
High

Railway
Watercourse
Roads
Buildings

N

0 250 500 750 1000 m

1:15,000

Matrix Solutions Inc.
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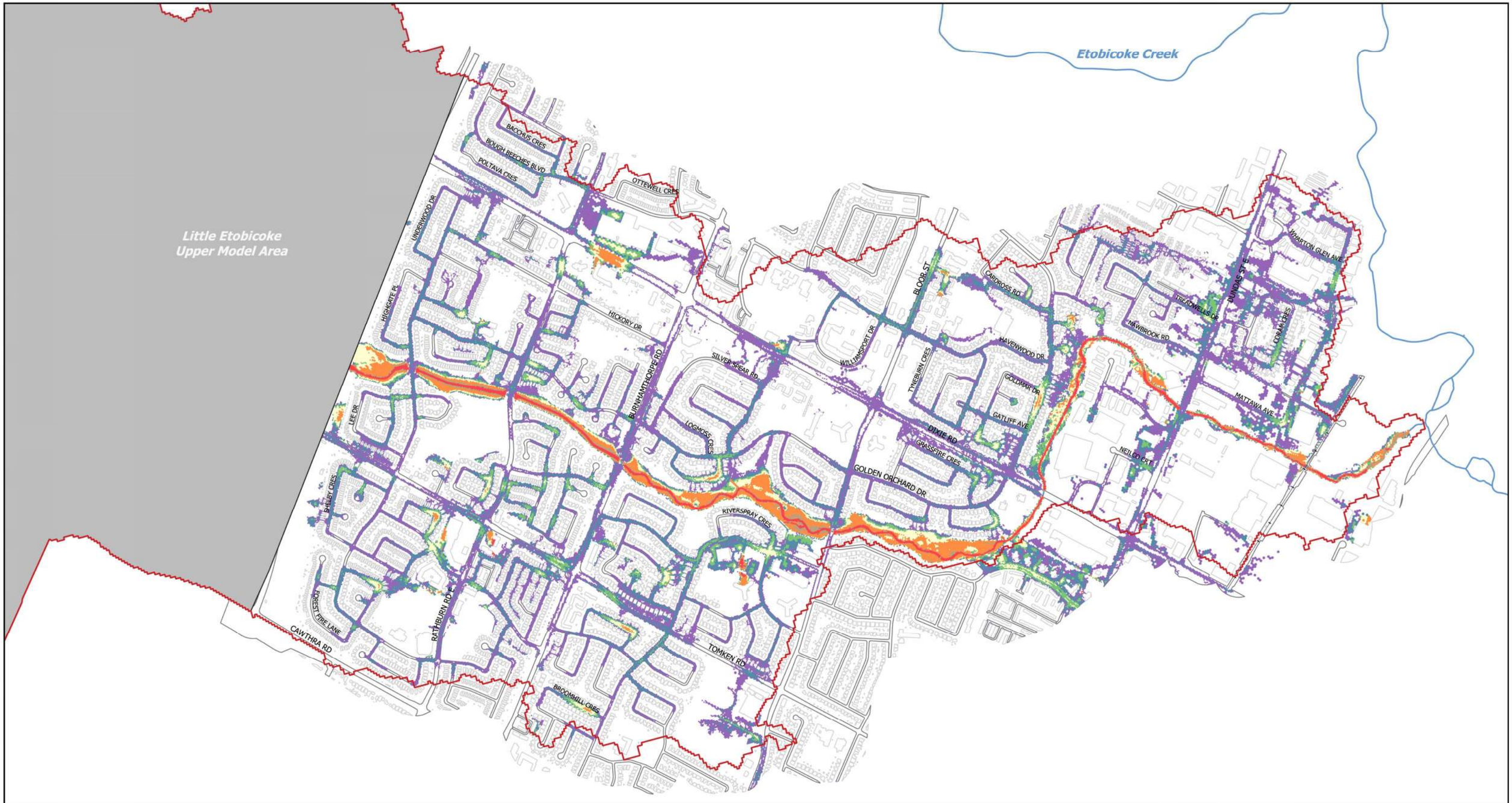
Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
50 Year - Risk

A. MacKay
K. Hofbauer

Map 13.4

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



Run Date: June 14, 2018
Figure Date: September 20, 2018

This drawing must be used in conjuction 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
- 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

N

0 250 500 750 1000 m

1:15,000

Matrix Solutions Inc.
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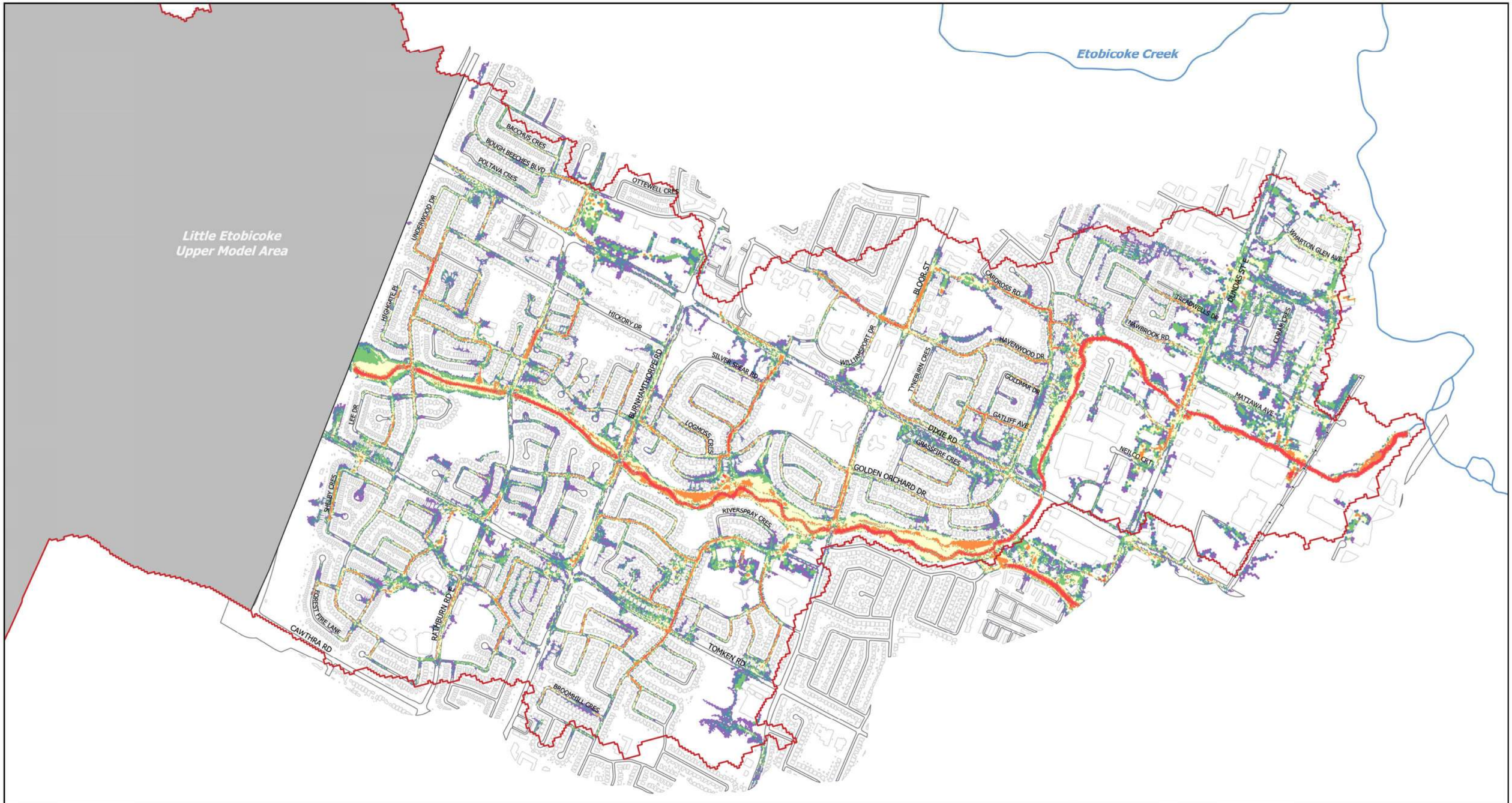
Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
100 Year - Depth

A. MacKay
K. Hofbauer

Map 14.1

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



Run Date: June 14, 2018
Figure Date: September 20, 2018

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- Little Etobicoke Catchment
- Upper Model Area

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

N

0 250 500 750 1000 m

1:15,000

Matrix Solutions Inc.
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Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
100 Year - Velocity

A. MacKay
K. Hofbauer

Map 14.2

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

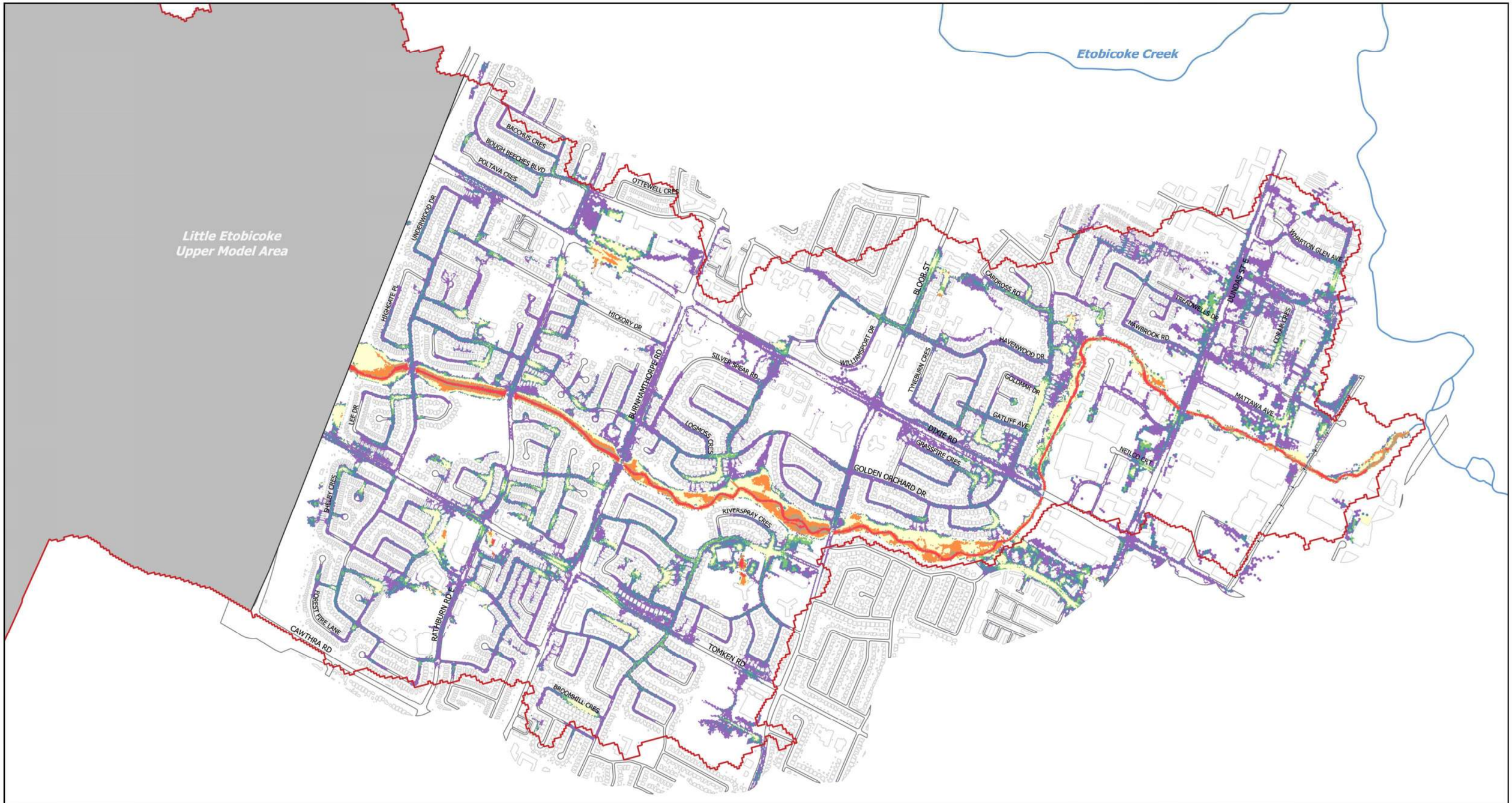

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Figure Date: September 20, 2018

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- 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

N

0 250 500 750 1000 m

1:15,000

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
100 Year - Depth x Velocity

A. MacKay
K. Hofbauer

Map 14.3

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

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

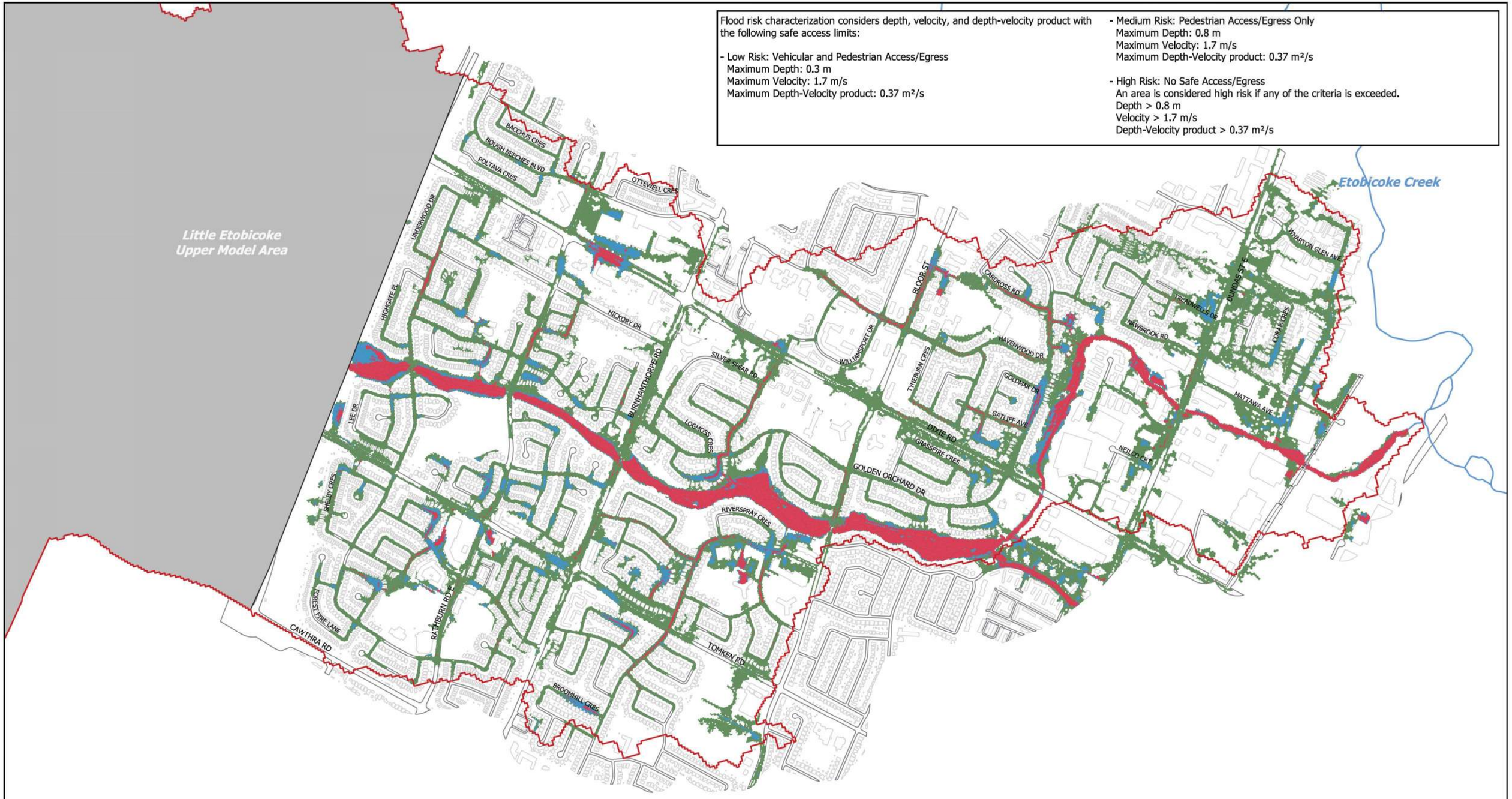

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Figure Date: September 20, 2018

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Little Etobicoke Catchment
Upper Model Area

2D Model Results
Risk
Low
Medium
High

Railway
Watercourse
Roads
Buildings

0 250 500 750 1000 m
1:15,000

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

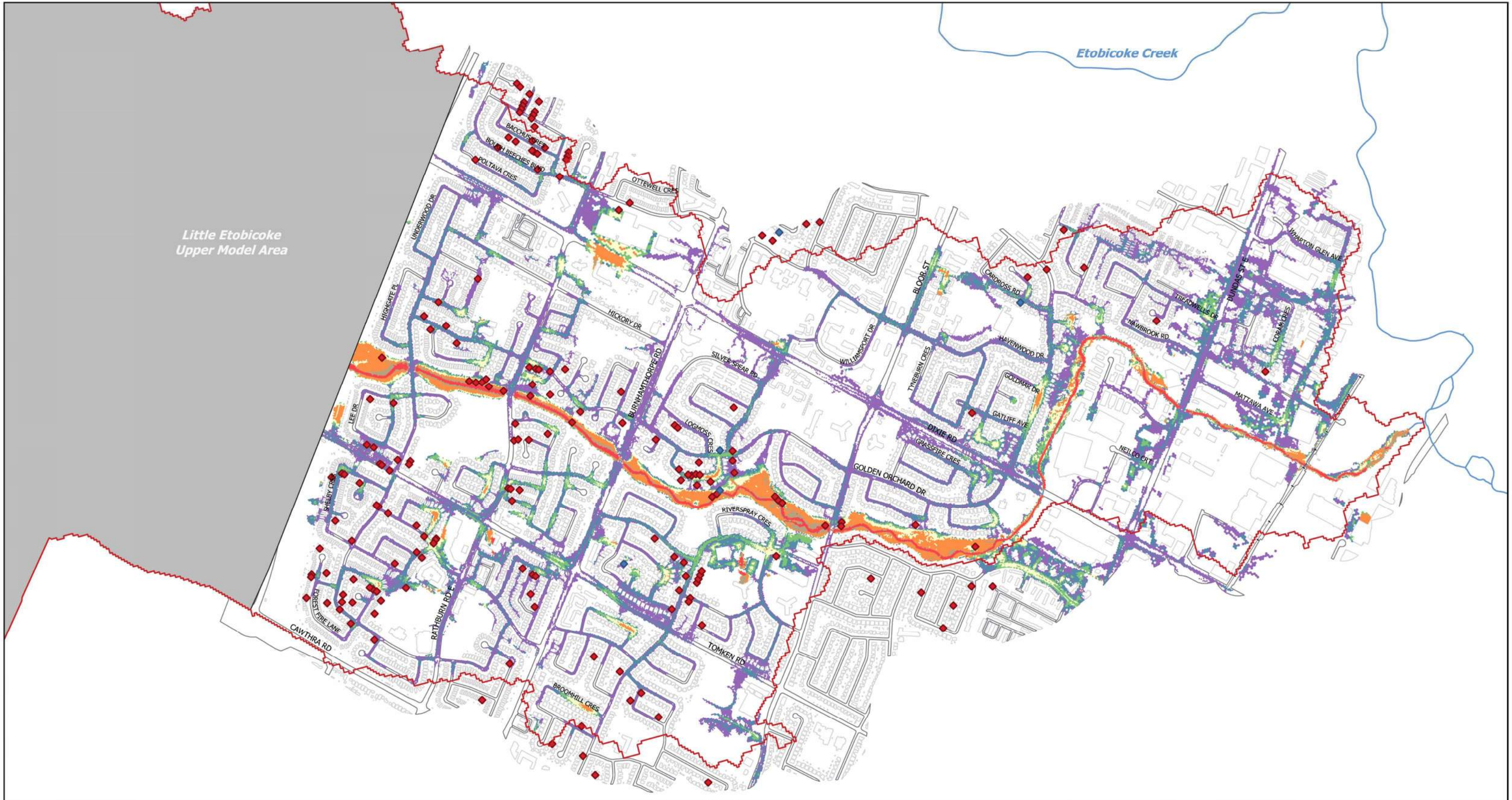
Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
100 Year - Risk

A. MacKay
K. Hofbauer

Map 14.4

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



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

- Little Etobicoke Catchment
- Reported Sewer Blockage
- Reported Flooding
- 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

N

0 250 500 750 1000 m

1:15,000

This drawing must be used in conjuction 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.

Matrix Solutions Inc.
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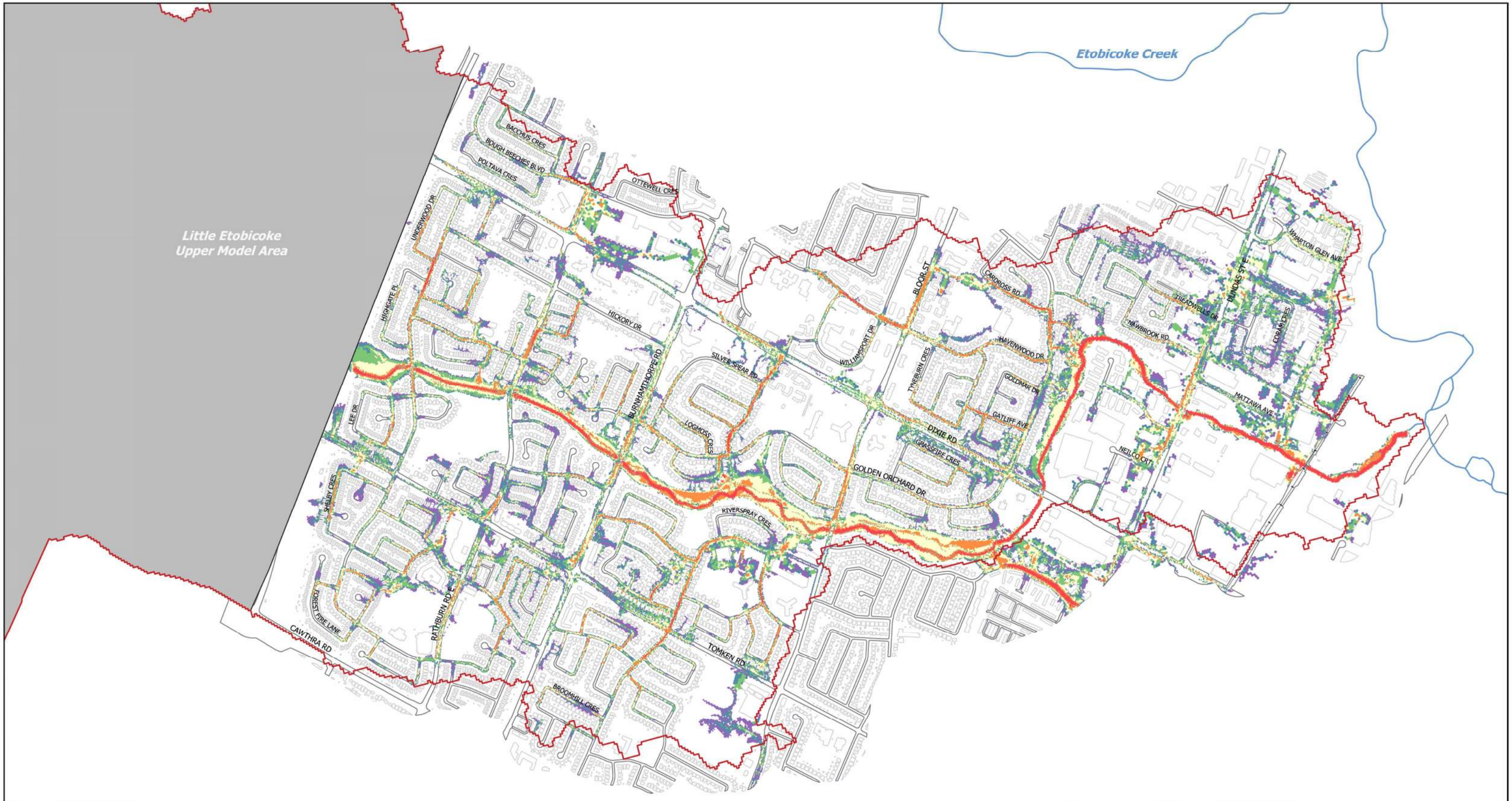
Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
July 8, 2013 - Depth

A. MacKay
K. Hofbauer

Map 15.1

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



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

This drawing must be used in conjuction 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 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

N

0 250 500 750 1000 m

1:15,000

Matrix Solutions Inc.
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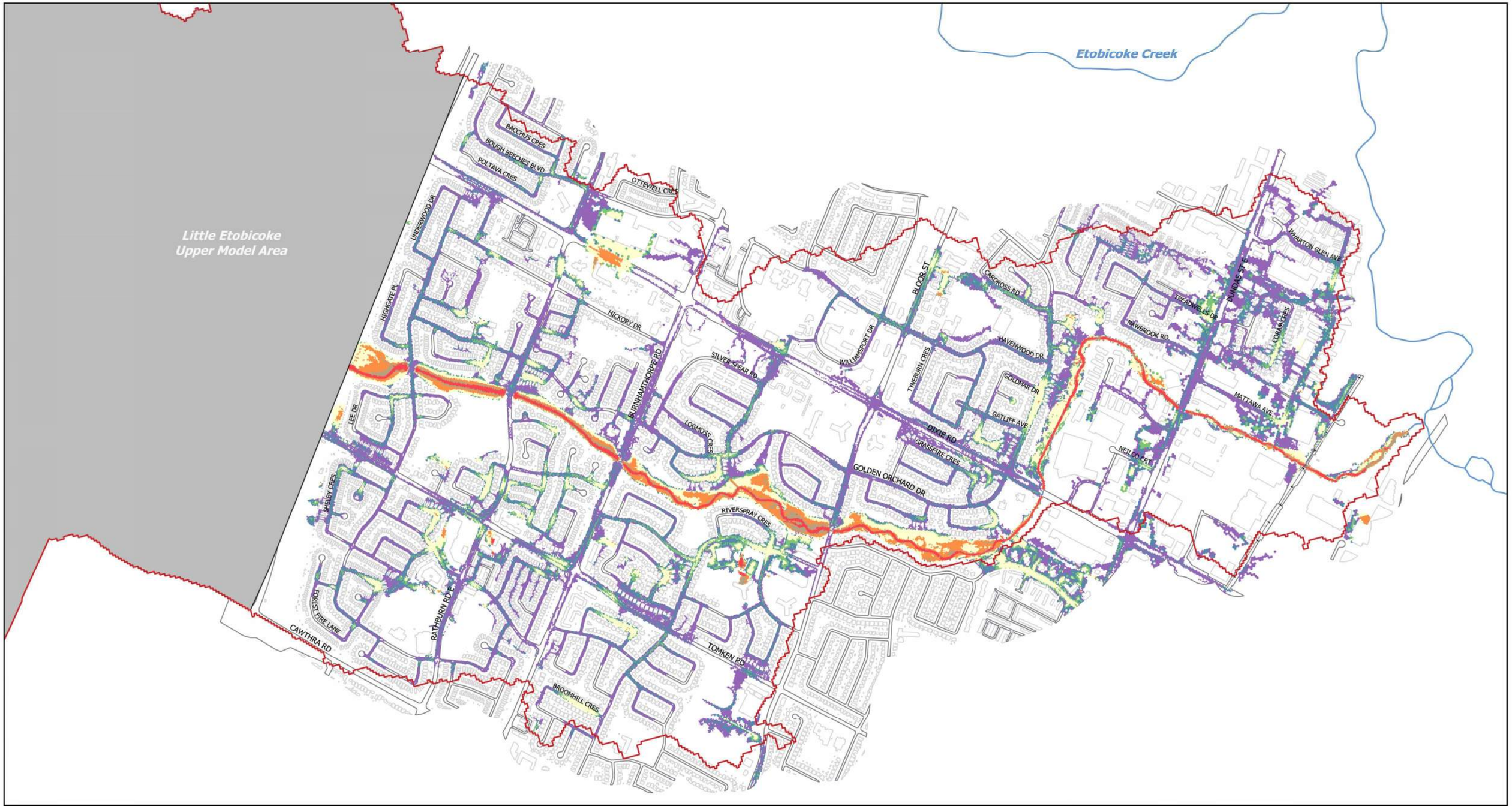
Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
July 8, 2013 - Velocity

A. MacKay
K. Hofbauer

Map 15.2

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



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

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- Little Etobicoke Catchment
- Upper Model Area

2D Model Results
Maximum Depth x Velocity (m^2/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

N

0 250 500 750 1000 m

1:15,000

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Little Etobicoke Creek Phase 2
Flood Evaluation Study
Project #24603

PCSWMM Lower Model Results
July 8, 2013 - Depth x Velocity

A. MacKay
K. Hofbauer

Map 15.3

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