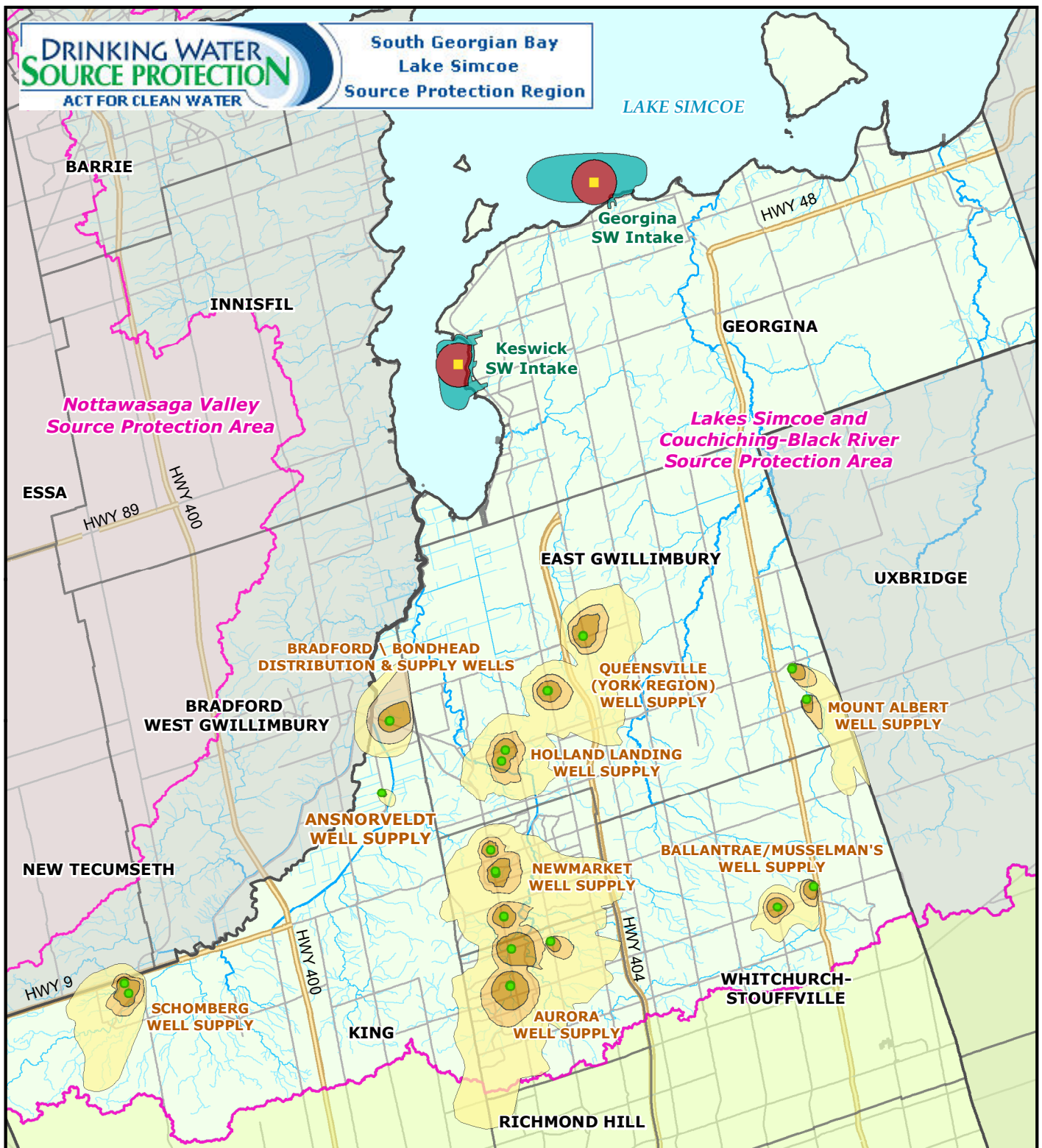




- Municipal Surface Water Intakes
- IPZ-1 (1000m on water or 120m inland)
- IPZ-2 (2 hr time of travel)
- Municipal Supply Well in Regional Municipality of York
- WHPA-A (100m)
- WHPA-B (2 years time of travel)
- WHPA-C (5 years time of travel)
- WHPA-C1 (10 years time of travel)
- WHPA-D (25 years time of travel)

Drinking Water System Vulnerable Areas in Regional Municipality of York

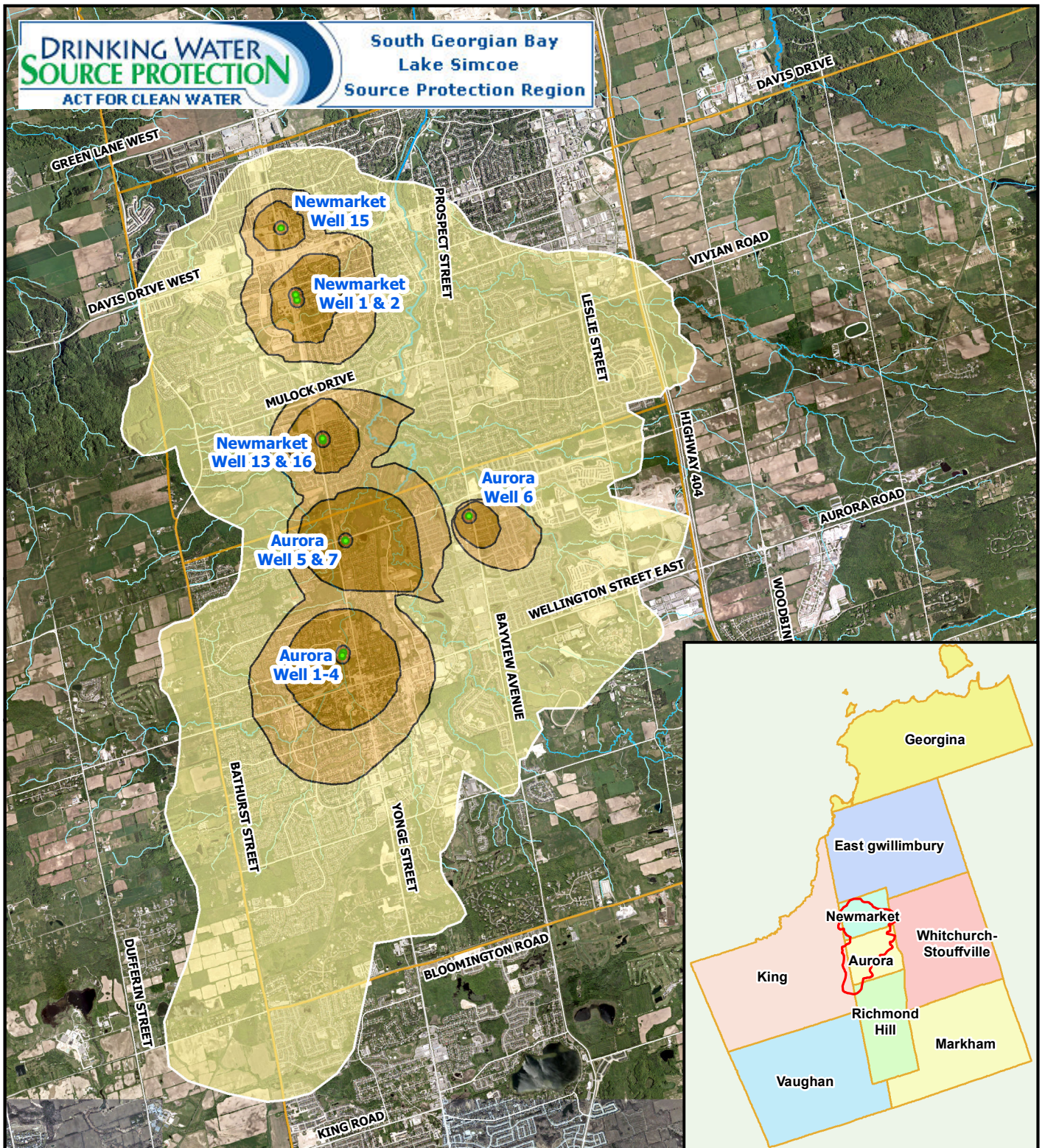
Created by: LSRCA
Date: 2019-09-18



Scale: 1:250,000
0 2.5 5km
UTM Zone 17N, NAD83



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Wellhead Protection Areas

- WHPA-A
- WHPA-B

- WHPA-C
- WHPA-D

- Municipal Supply Wells



**Golder
Associates**



York Region

**Wellhead Protection Areas
in Aurora and Newmarket**

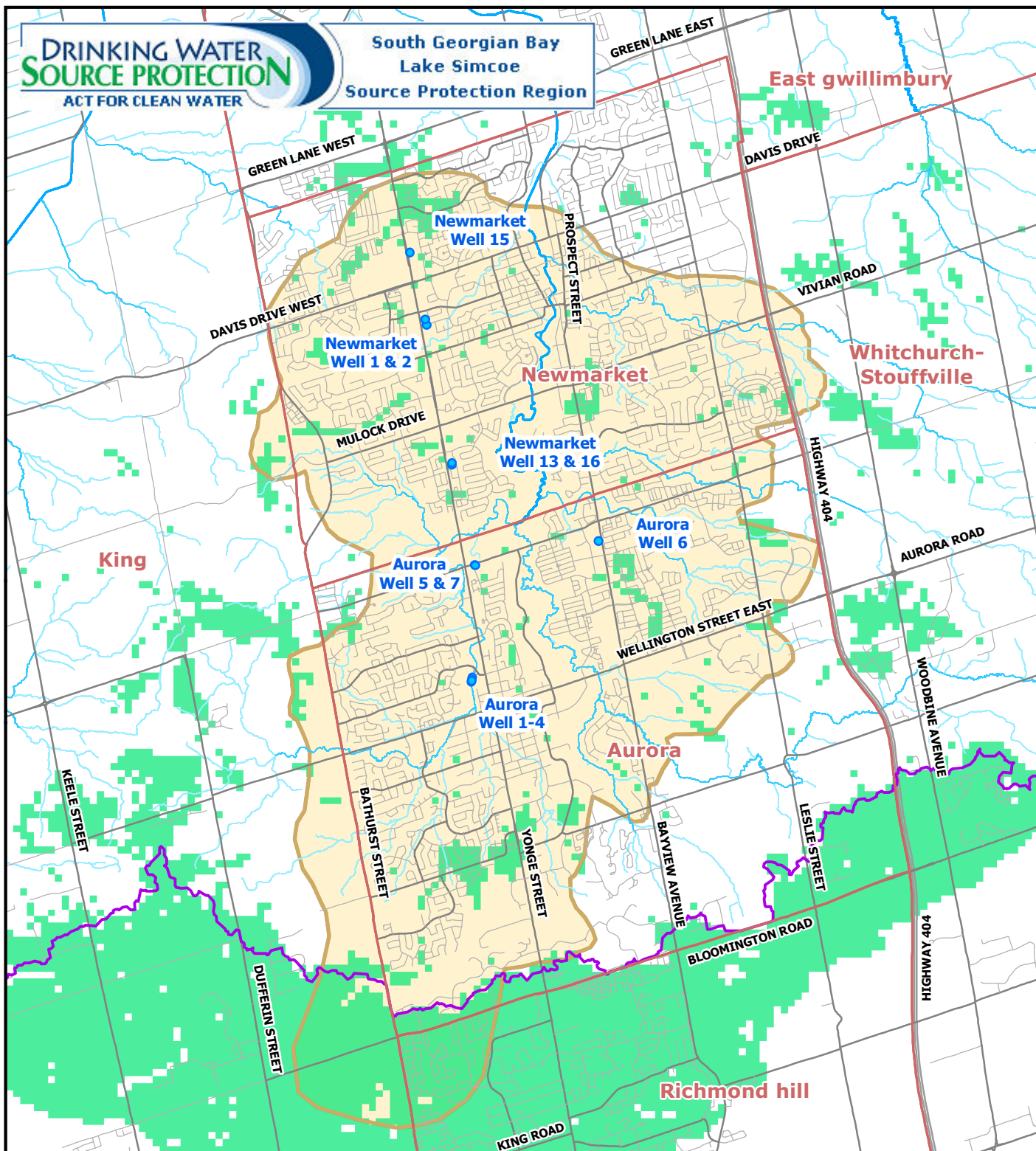
Created by: LSRCA
Date: 2019-09-18



Scale: 1:80,000
0 1 2km
UTM Zone 17N, NAD83



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Intrinsic Vulnerability

Low (>25 years)

Medium (5-25 years)

High (0-5 years)

● Municipal Supply Wells

WHPA-D (25 yr time-of-travel)

SWP Watershed Area



**Golder
Associates**

York Region

WWAT Intrinsic Vulnerability values for the Aurora and Newmarket wells

Created by: LSRCA

Date: 2019-09-18



Scale: 1:80,000

0 1 2km

UTM Zone 17N, NAD83

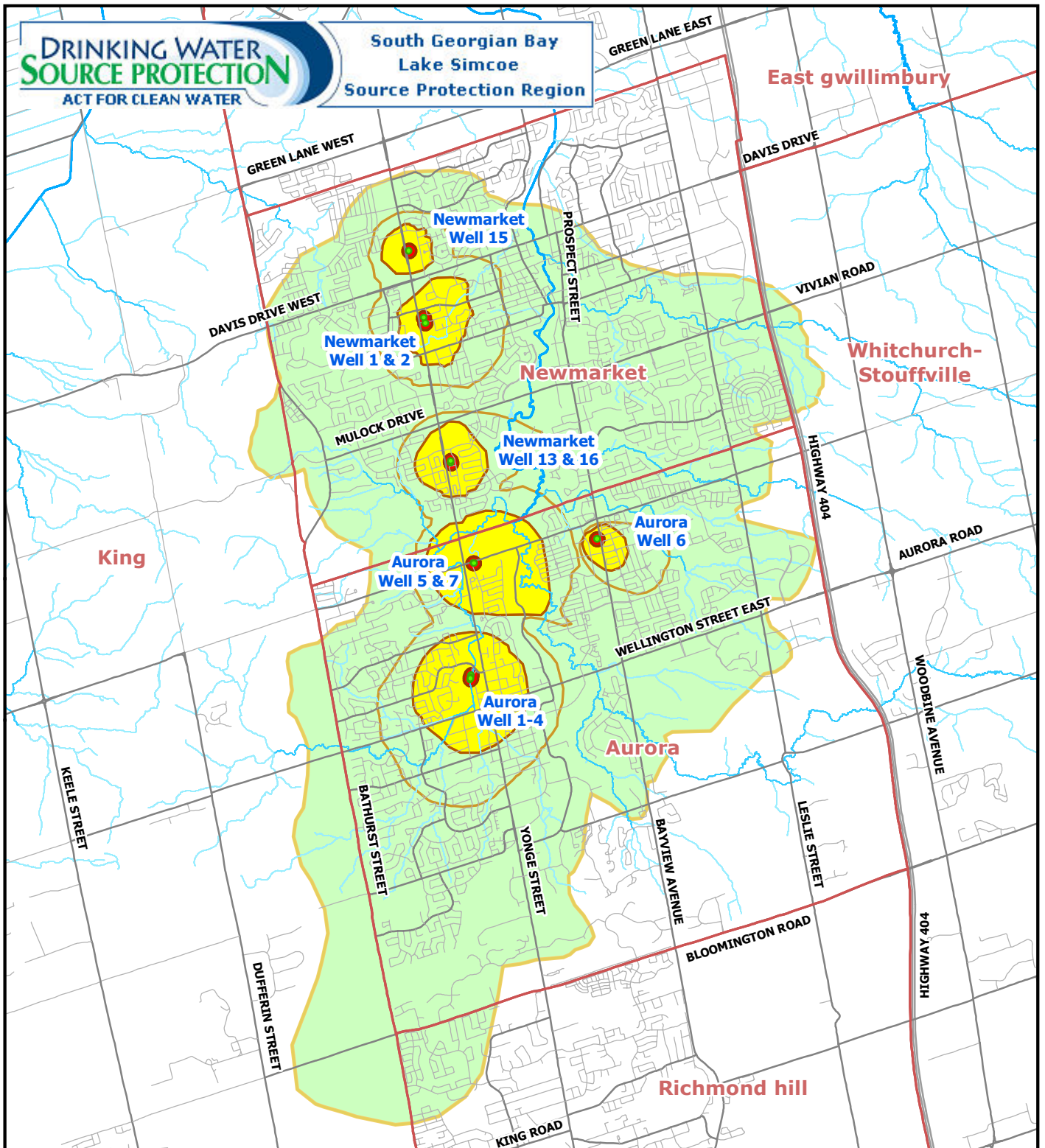


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Ontario



Figure 13a-2



- Municipal Supply Wells
- Vulnerability Score**
- 10 (High)
- 6
- 2 (Low)

- Wellhead Protection Area**
- WHPA-A
- WHPA-B
- WHPA-C
- WHPA-D



**Golder
Associates**



Vulnerability Score in Aurora and Newmarket

Created by: LSRCA
Date: 2019-09-18



Scale: 1:80,000

0 1 2km

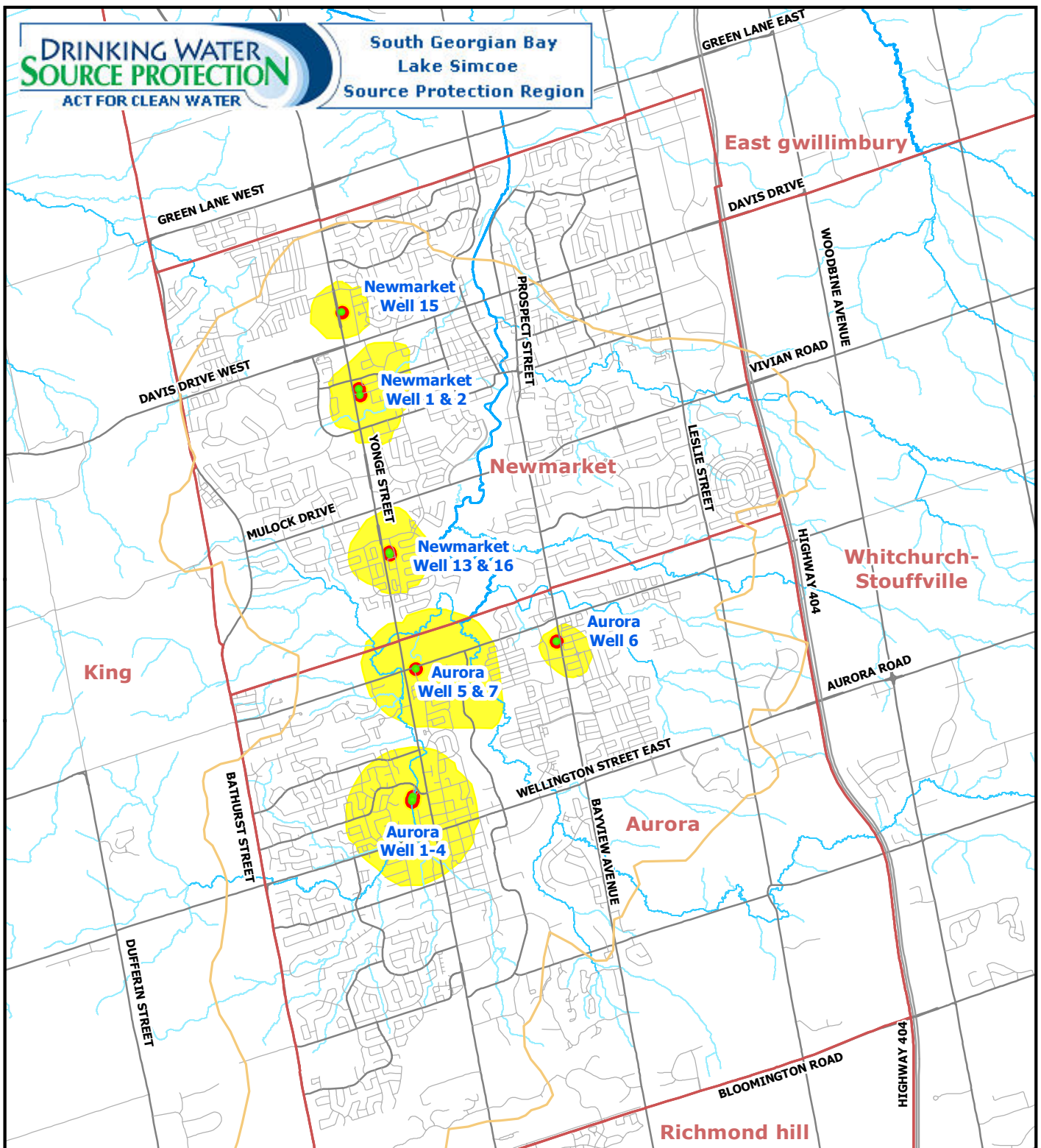
UTM Zone 17N, NAD83



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Figure 13a-3



- Municipal Supply Wells
- Vulnerability Score**
- 10
 - 6



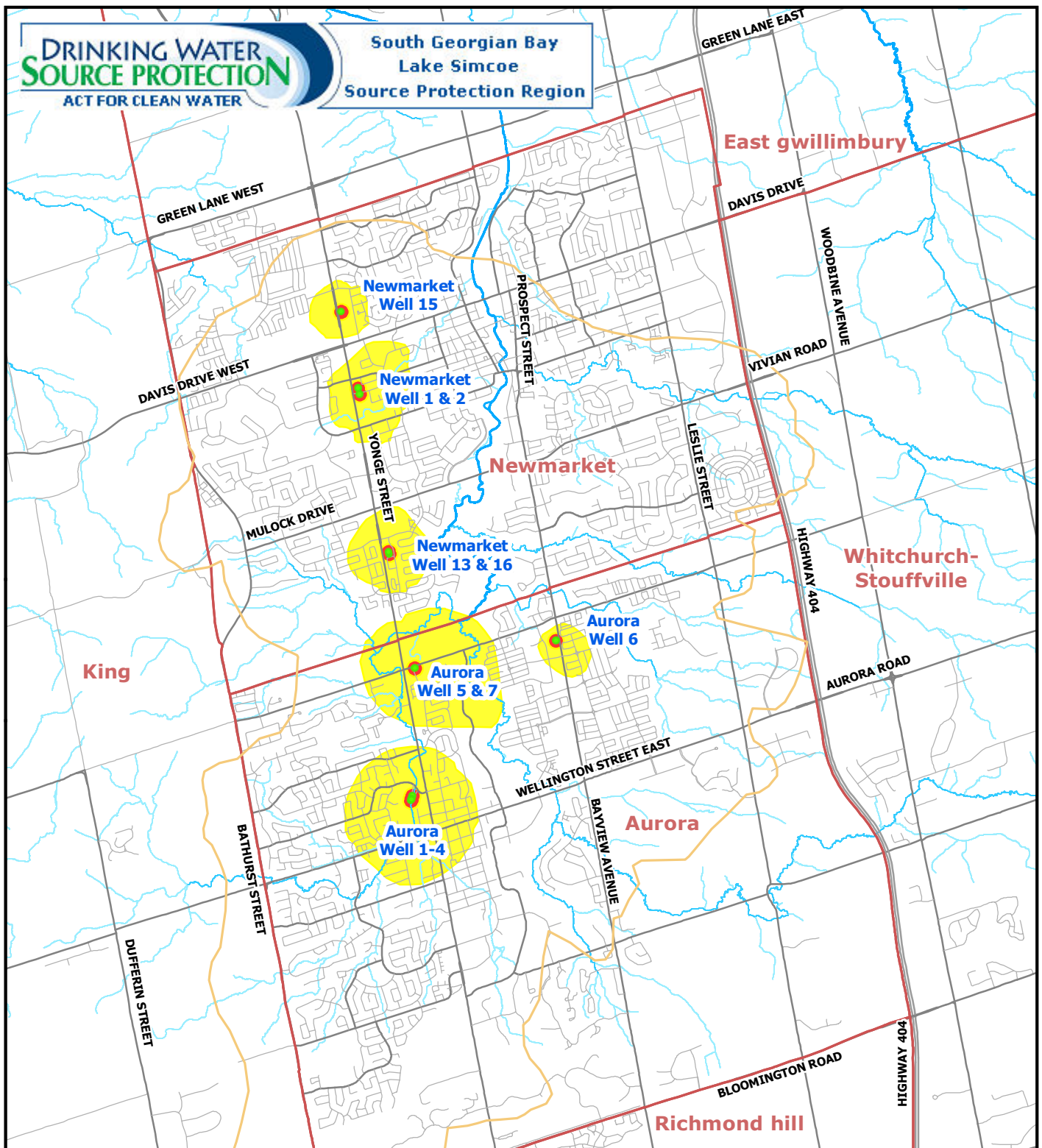
Areas of Significant, Moderate, or Low Threats - Pathogens

Created by: LSRCA
Date: 2019-09-30

Scale: 1:70,000
0 1 2km
UTM Zone 17N, NAD83



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- Municipal Supply Wells
- Vulnerability Score**
- 10
 - 6



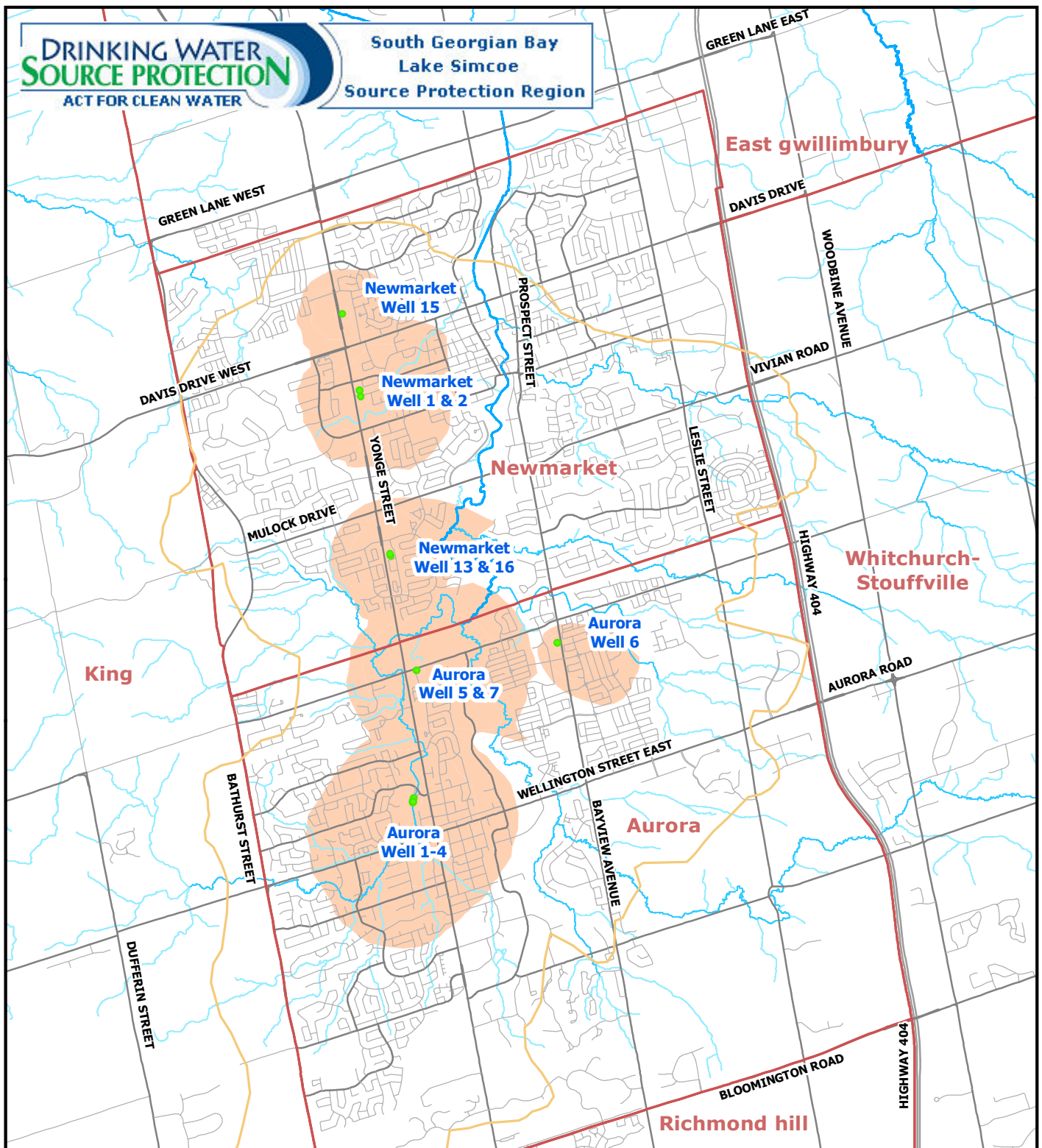
Areas of Significant, Moderate, or Low Threats - Chemicals

Created by: LSRCA
Date: 2019-09-30

Scale: 1:70,000
0 1 2km
UTM Zone 17N, NAD83



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- Municipal Supply Wells
- WHPA-C: 5 year time of travel



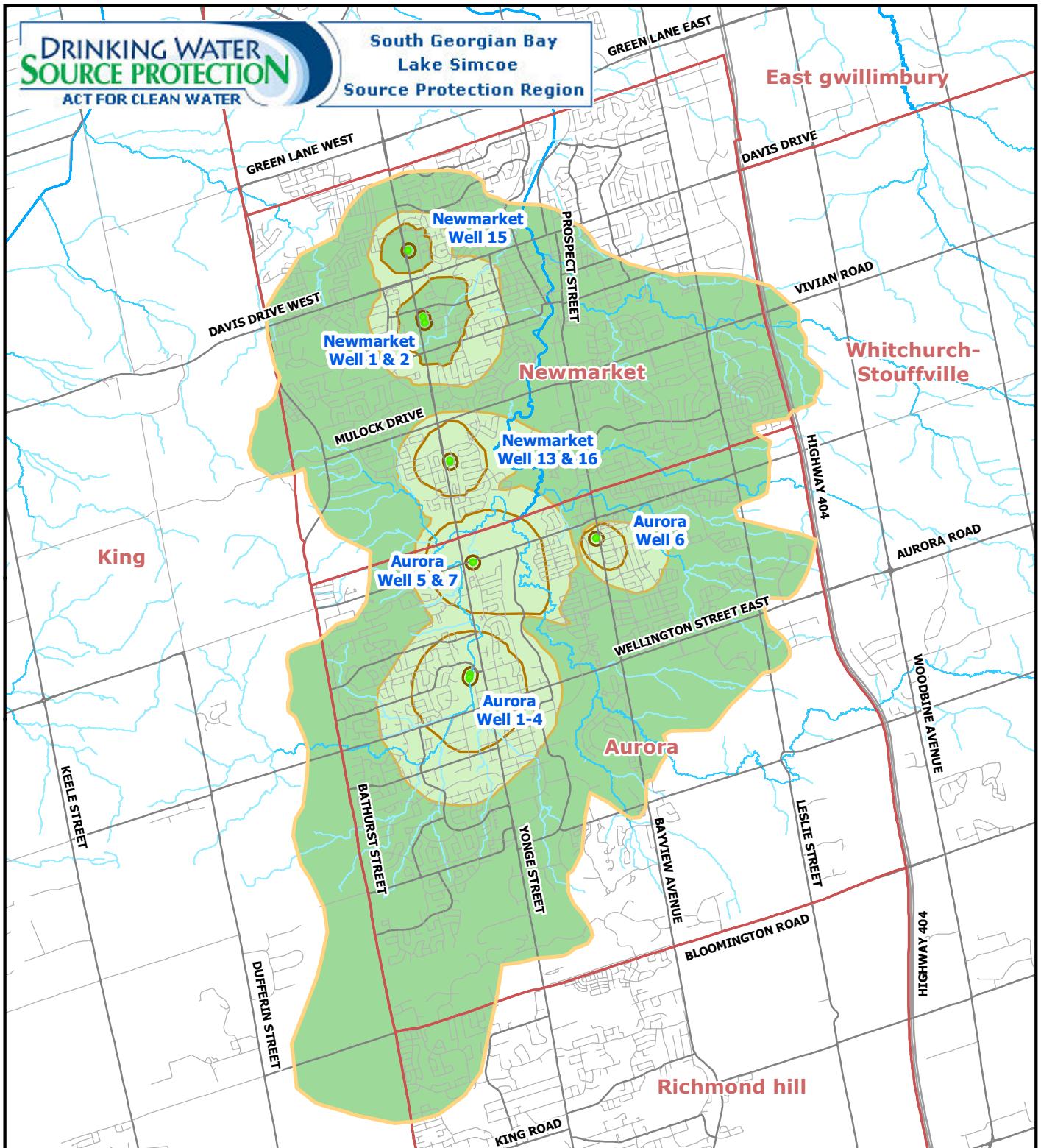
**Areas of Significant, Moderate,
or Low Threats - DNAPLS**

Created by: LSRCA
Date: 2019-09-30

Scale: 1:70,000
0 1 2km
UTM Zone 17N, NAD83



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● Municipal Supply Wells
Managed Land
 < 40%
 40-80%
 > 80%

Wellhead Protection Area
 WHPA-A
 WHPA-B
 WHPA-C
 WHPA-D



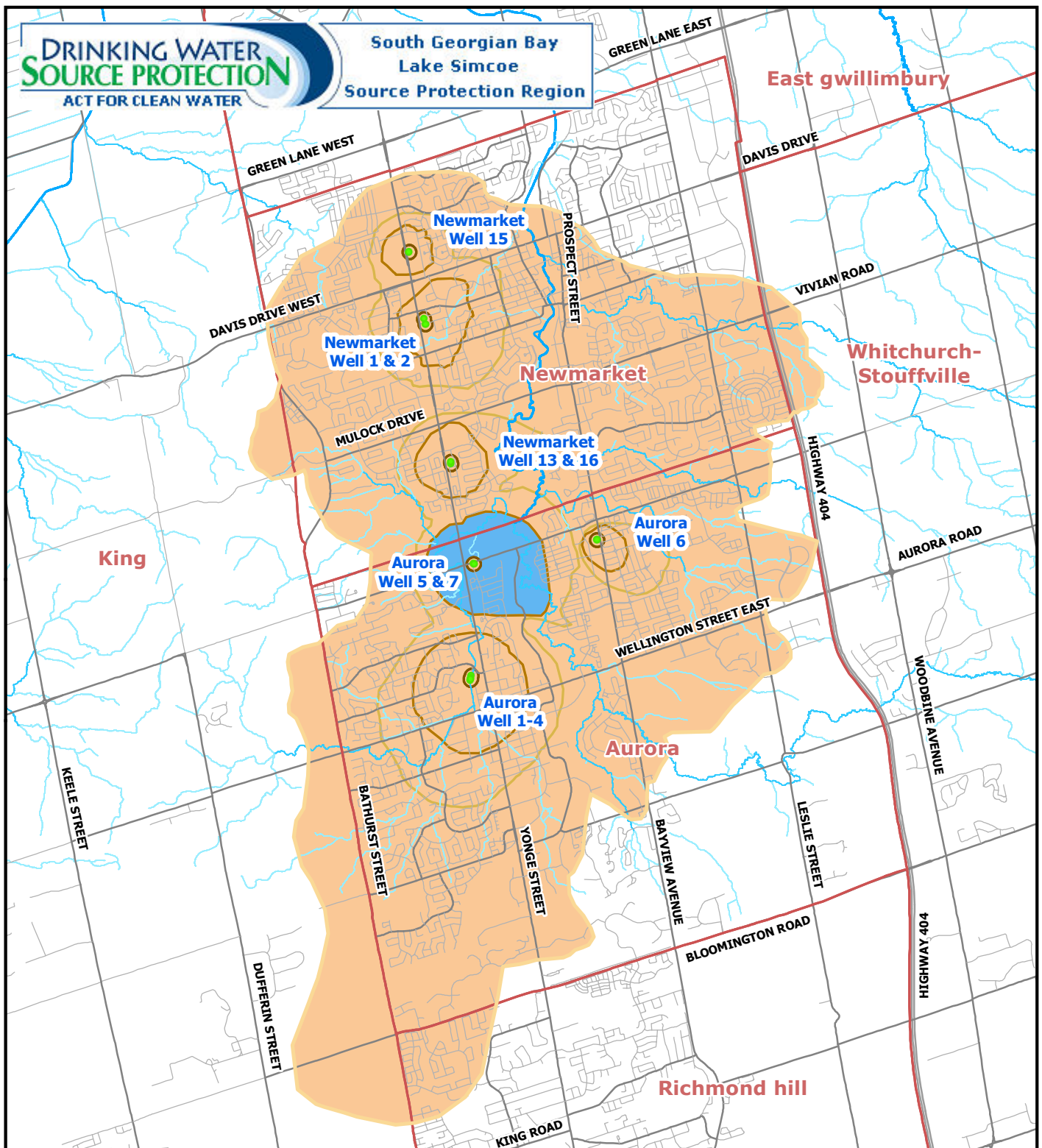
Managed Land in Aurora and Newmarket

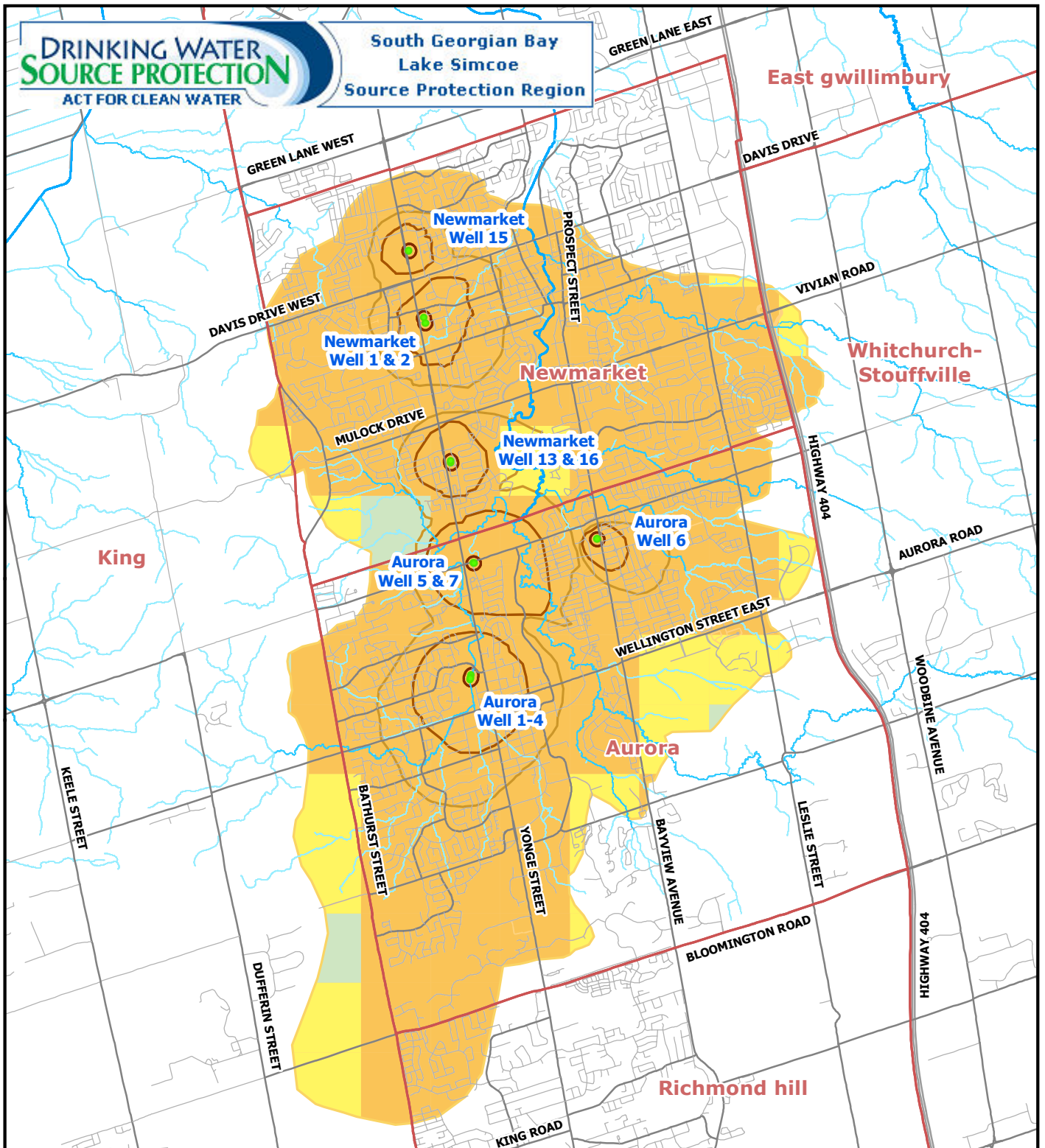
Created by: LSRCA
Date: 2019-09-18

Scale: 1:80,000
0 1 2km
UTM Zone 17N, NAD83



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Impervious Surface

- < 1%
- 1% - 8%
- 8% - 80%
- > 80%

Wellhead Protection Area

- WHPA-A
- WHPA-B
- WHPA-C
- WHPA-D



Impervious Surface in Aurora and Newmarket

Created by: LSRCA
Date: 2019-09-18

Scale: 1:80,000
0 1 2km
UTM Zone 17N, NAD83



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