



Water Budget

Conceptual Understanding

Map Booklet

Version 1.1.0

February 2007
(Revised October 2009)

For consideration in the preparation of a
Source Water Protection Assessment Report

Raisin-South Nation Source Protection Region



Version Control

Document Version	Revision	Date	Author	Change Reference
1.1.0	Final Draft	October 1, 2009	Phil Barnes	Reformatted, addressed Laura Landriault's (MNR) comments; Maps re-numbered.
1.0.0	Draft	January 2008	Tessa Di Iorio	Additional Analyses introduced, Document Reformatted, Peer Review Comments Incorporated, Maps re-numbered.
0.1.0	Initial Draft	February 2007	Anne-Marie Chapman	Initial Document

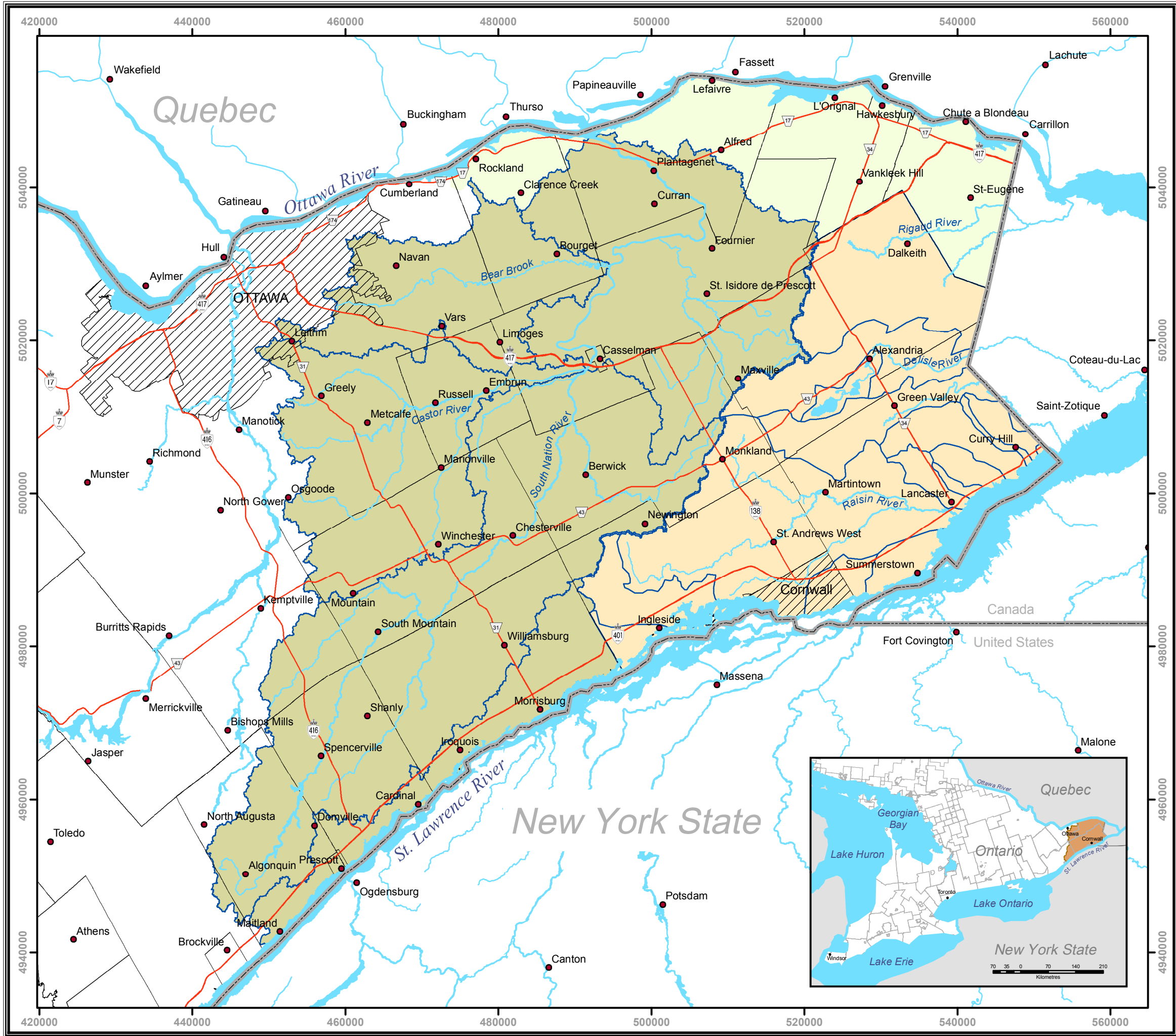


List of Maps

- Map 1: Raisin-South Nation Source Protection Region
- Map 2: Environment Canada Climate Stations
- Map 3: Environment Canada Climate Stations with Average Annual Precipitation
- Map 4: Normal Annual Precipitation
- Map 5: Normal Annual Temperature
- Map 6: Estimated Actual Evapotranspiration
- Map 7: Land Use
- Map 8: Soils
- Map 9: Physiographic Units
- Map 10: Fish Habitat Drain Classification
- Map 11: Topography
- Map 12: Bedrock Formations and Faults
- Map 13: Surficial Geology
- Map 14: Overburden Thickness
- Map 15: Bedrock Topography
- Map 16: Bedrock Topography and Interpreted Bedrock Valley Centre Lines
- Map 17a: Geologic Isopach Lower Sediment
- Map 17b: Geologic Isopach Till
- Map 17c: Geologic Isopach Glaciofluvial Sediments
- Map 17d: Geologic Isopach Fine Textured Glacial Marine
- Map 17e: Geologic Isopach Coarse Textured Glacial Marine
- Map 17f: Geologic Isopach Recent Deposits
- Map 18: Esker Distribution
- Map 19: Provincial Groundwater Monitoring Network and Groundwater Well Locations
- Map 20a: Selected MOE Wells completed in the Overburden
- Map 20b: Selected MOE Wells completed in the Shallow Bedrock
- Map 20c: Selected MOE Wells completed in the Intermediate Bedrock
- Map 20d: Selected MOE Wells completed in the Deep Bedrock
- Map 21: Overburden Potentiometric Surface with Direction of Groundwater Flow
- Map 22: Shallow Bedrock Potentiometric Surface with Direction of Groundwater Flow
- Map 23: Potentiometric Surface in the Intermediate Bedrock
- Map 24: Potentiometric Surface in the Deep Bedrock
- Map 25: Vertical Gradient for Recharge to the Contact Zone Aquifer
- Map 26: Hydraulic Conductivity of the Confining Unit
- Map 27: Average Annual Recharge to the Contact Zone Aquifer
- Map 28: Land Slope Classes
- Map 29: Soil Permeability Classes
- Map 30: Land Cover Classes
- Map 31: Groundwater Recharge Coefficient
- Map 32: Average Annual Groundwater Recharge (Overburden and Contact Zone Aquifers)
- Map 33: Average Annual Recharge to the Overburden Aquifers



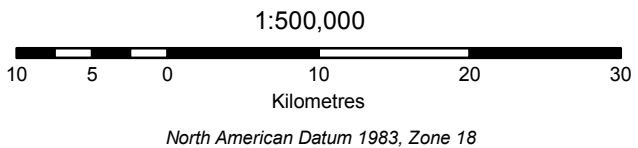
- Map 34: Subwatersheds
- Map 35: Subwatersheds and General Flow Direction
- Map 36: Major River Reaches in the South Nation River Watershed
- Map 37: Major River Reaches in the Raisin Region Conservation Authority
- Map 38: Approximate Drainage Divides of Selected WSC Stream Gauges
- Map 39: Dams, Diversions and Control Structures
- Map 40: Strahler Stream Classification
- Map 41: Environment Canada Surface Water Flow Stations
- Map 42: Significant Wetlands
- Map 43: Municipally Serviced Settlements (Surface Water)
- Map 44: Municipally Serviced Settlements (Groundwater)
- Map 45: Permit to Take Water (PTTW) Water Use
- Map 46: Permit to Take Water (PTTW) Water Takings
- Map 47: Documented water shortages
- Map 48: Average Annual Water Surplus
- Map 49: Average Annual Direct Runoff
- Map 50: Average Annual Direct Runoff and Overburden Recharge
- Map 51: Watersheds for Tier 1 Surface Water Analysis



Map 1

Raisin-South Nation Source Protection Region

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary
- South Nation Conservation
- Raisin Region Conservation Authority
- Subwatershed Boundary



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Chapter:
Project: \1 Source Water Protection Region.mxd

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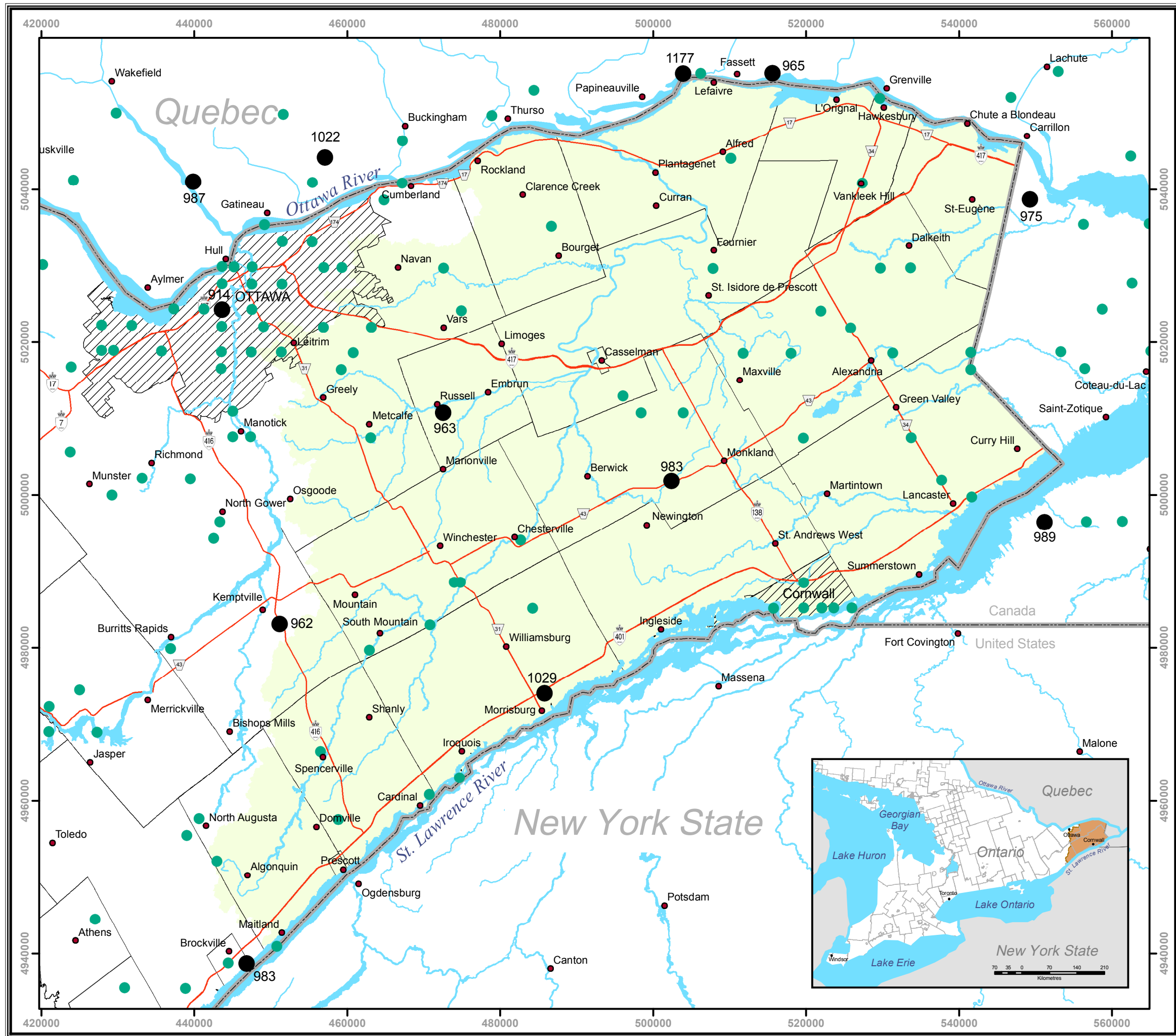
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Map 3

Environment Canada Climate Stations with Average Annual Precipitation

- Towns
- EC Climate Stations
- EC Climate Stations with Average Precipitation
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary



1:500,000

10 5 0 10 20 30

Kilometres

North American Datum 1983, Zone 18

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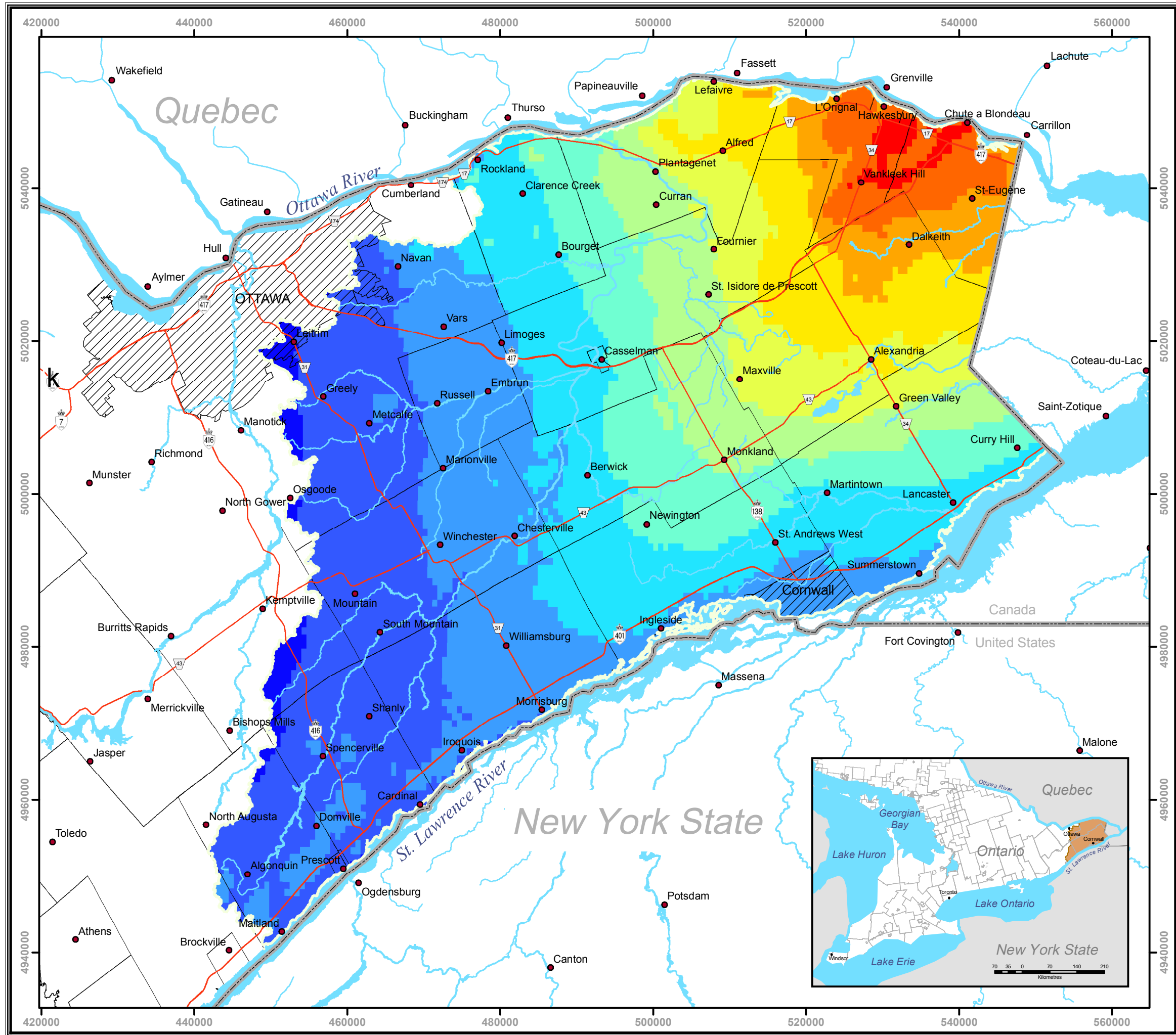
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Map 4

Normal Annual Precipitation

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- Cities
- Rivers
- Source Protection Boundary

Normal Annual Precipitation

mm/yr

- 813 - 950
- 950 - 960
- 960 - 970
- 970 - 980
- 980 - 990
- 990 - 1,000
- 1,000 - 1,010
- 1,010 - 1,020
- 1,020 - 1,030
- 1,030 - 1,040
- 1,040 - 1,050



1:500,000

10 5 0 10 20 30

Kilometres

North American Datum 1983, Zone 18

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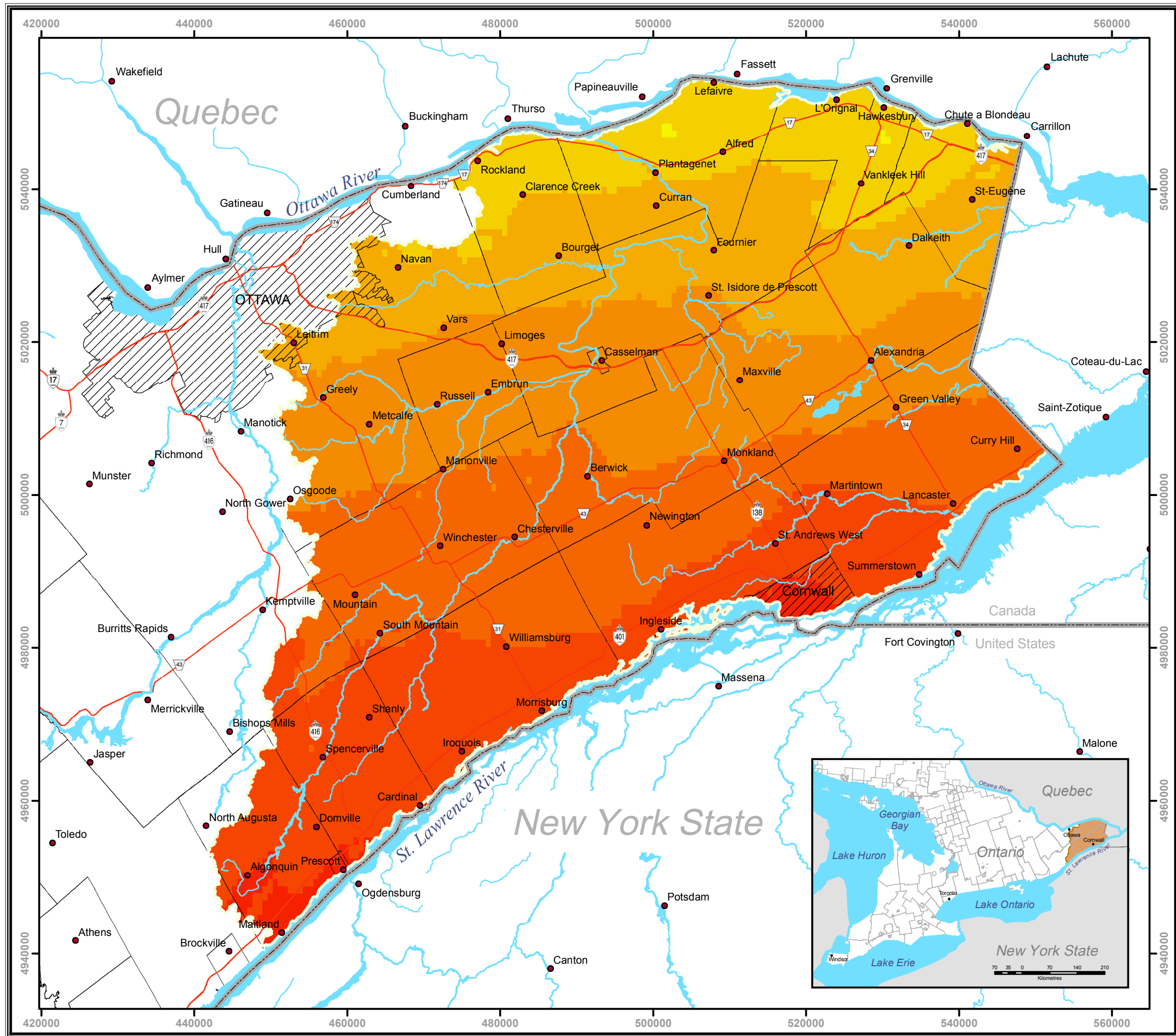
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Map 5

Normal Annual Temperature

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- Cities
- Rivers
- Source Protection Boundary

Normal Annual Temperature

Degrees Celsius

- 5.00 - 5.25
- 5.25 - 5.50
- 5.50 - 5.75
- 5.75 - 6.00
- 6.00 - 6.25
- 6.25 - 6.50
- 6.50 - 6.75
- 6.75 - 7.00



1:500,000

10 5 0 10 20 30

Kilometres

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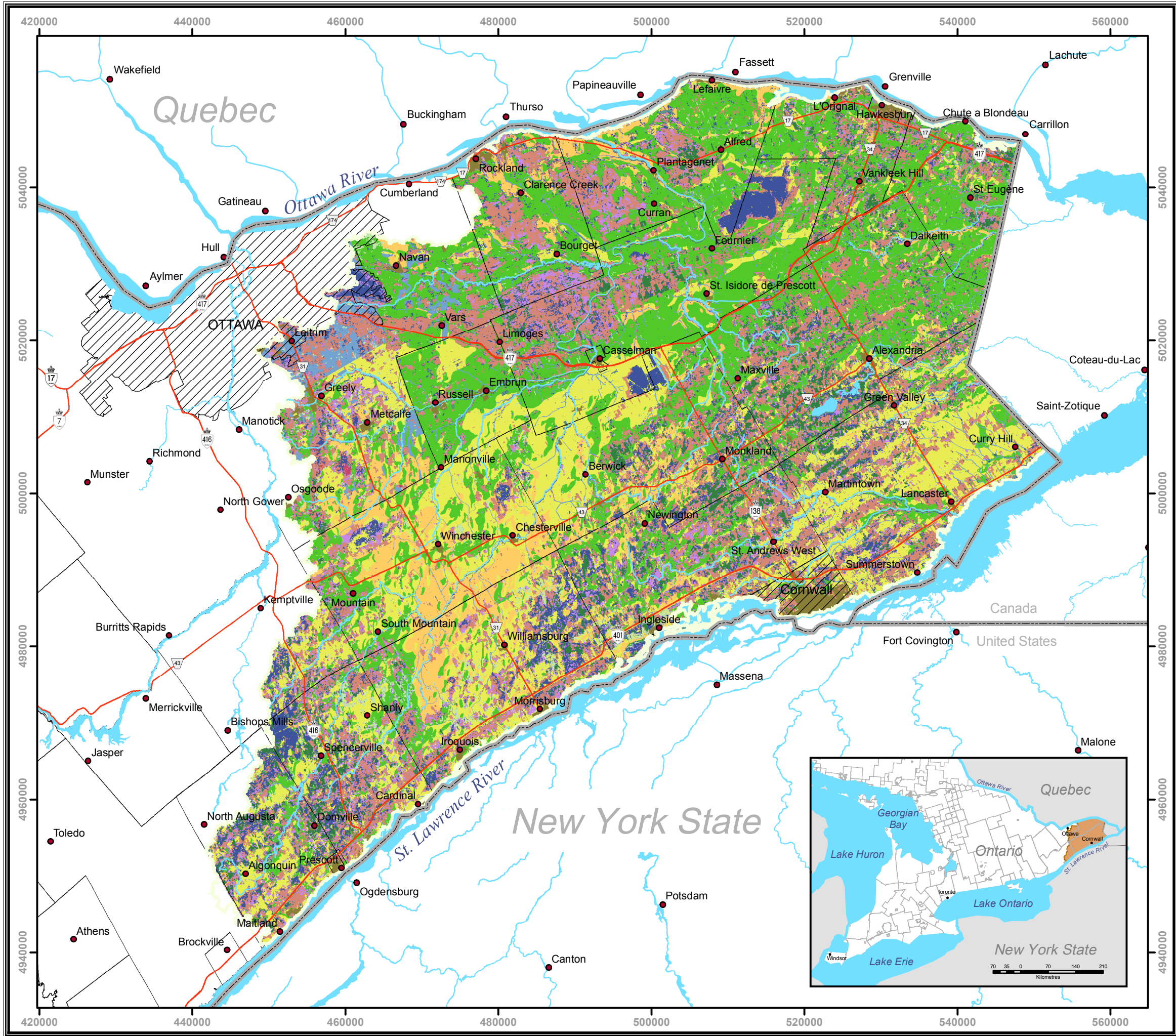
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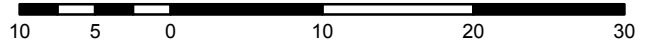
Map 6

Estimated Actual Evapotranspiration

- Towns
 - Major Roads
 - International/Interprovincial Border
 - Municipal Boundaries
 - Cities
 - Rivers
 - Source Protection Boundary
- Evapotranspiration (mm/yr)**
- 150 Urban
 - 270 Soil - Coarse Texture
 - 330 Soil - Unclassed Texture
 - 334 Soil - Unclassed Texture - Gloucester
 - 335 Open Areas
 - 340 Soil - Fine Texture
 - 390 Soil - Medium Texture
 - 445 Forest - Conifer
 - 541 Forest Mixed
 - 577 Unclassed
 - 638 Forest Deciduous
 - 640 Open Water



1:500,000



North American Datum 1983, Zone 18

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Project: \\6 Estimated Actual Evapotranspiration.mxd

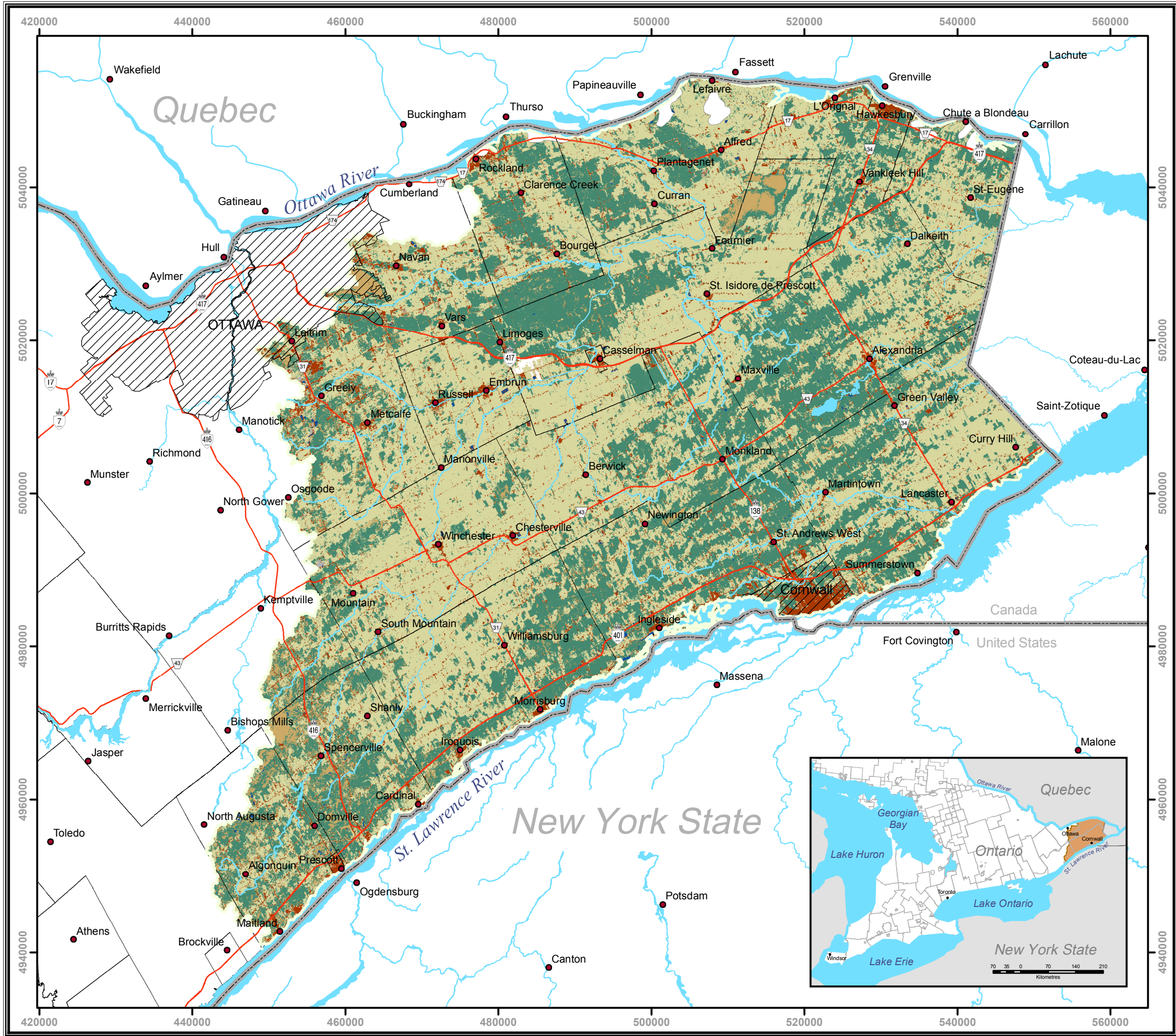
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Map 7 Land Use

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Land Use

- Agriculture
- Exposed (Rock)
- Forest
- Urban
- Water
- Wetland
- Unknown



1:500,000

10 5 0 10 20 30
Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: June 1, 2006
Version: 0.3 Draft
Revision: REV.01 - Nov 11, 2006
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Chapter:
Project: \\7 Landuse.mxd

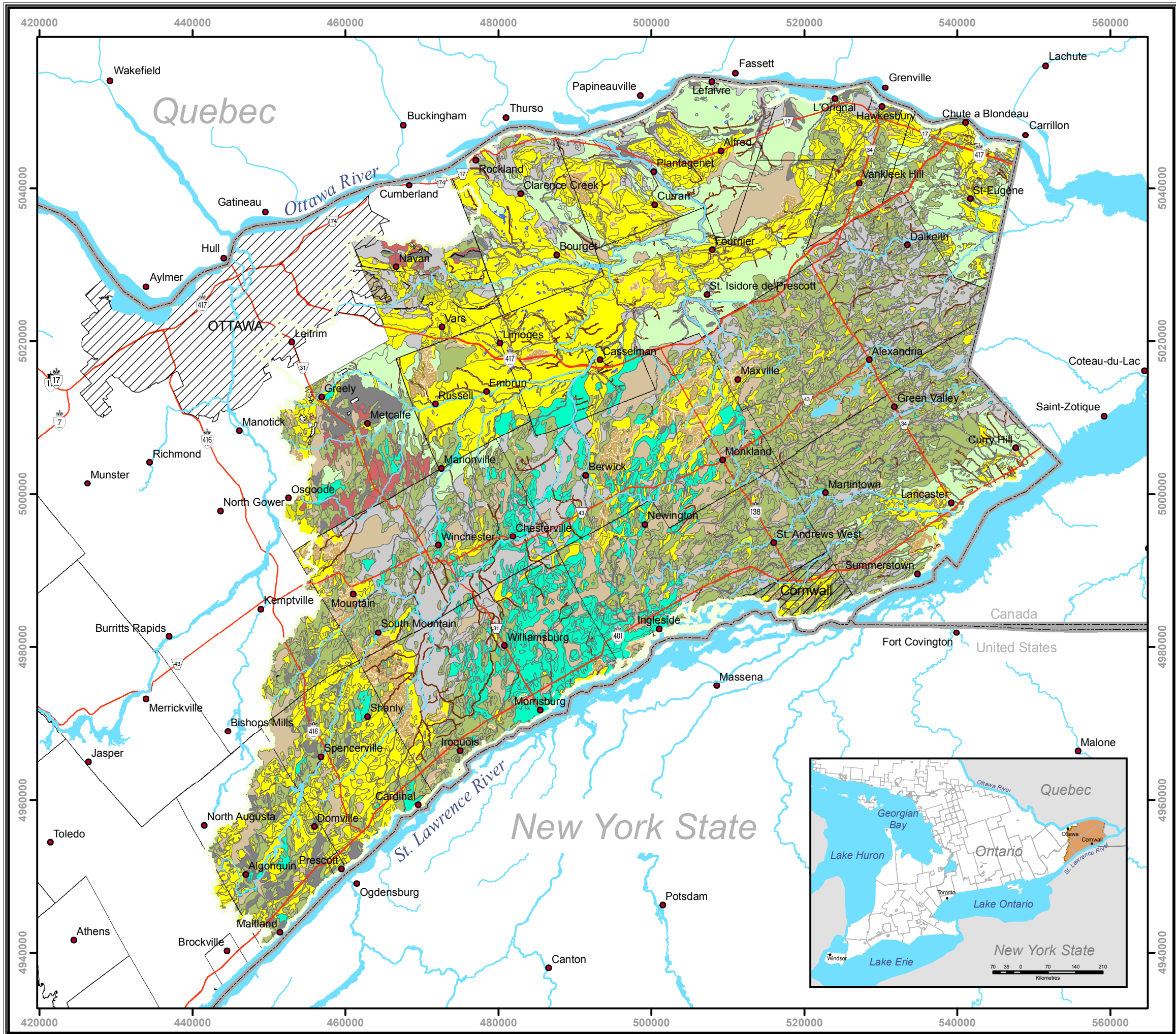
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Map 8 Soils

- Towns
- Major Roads
- International/Interprovincial Border
- ▭ Municipal Boundaries
- ▨ Cities
- Rivers
- ▭ Proposed Source Water Protection Boundary

Soil Type

- Unknown
- Landfill
- Disturbed Land
- Topsoil Removed
- Eroded Channels
- Water
- Marshland
- Bottom Land
- Muck
- Sand
- Clay
- Clay Sand
- Silty Clay
- Silt Loam
- Clay Loam
- Loam
- Sandy Loam
- Loamy Sand
- Shallow Over Bedrock
- Rock
- Escarpment



1:500,000



North American Datum 1983, Zone 18

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Version: 0.1 Draft
Revision: REV.00 - November 14, 2006
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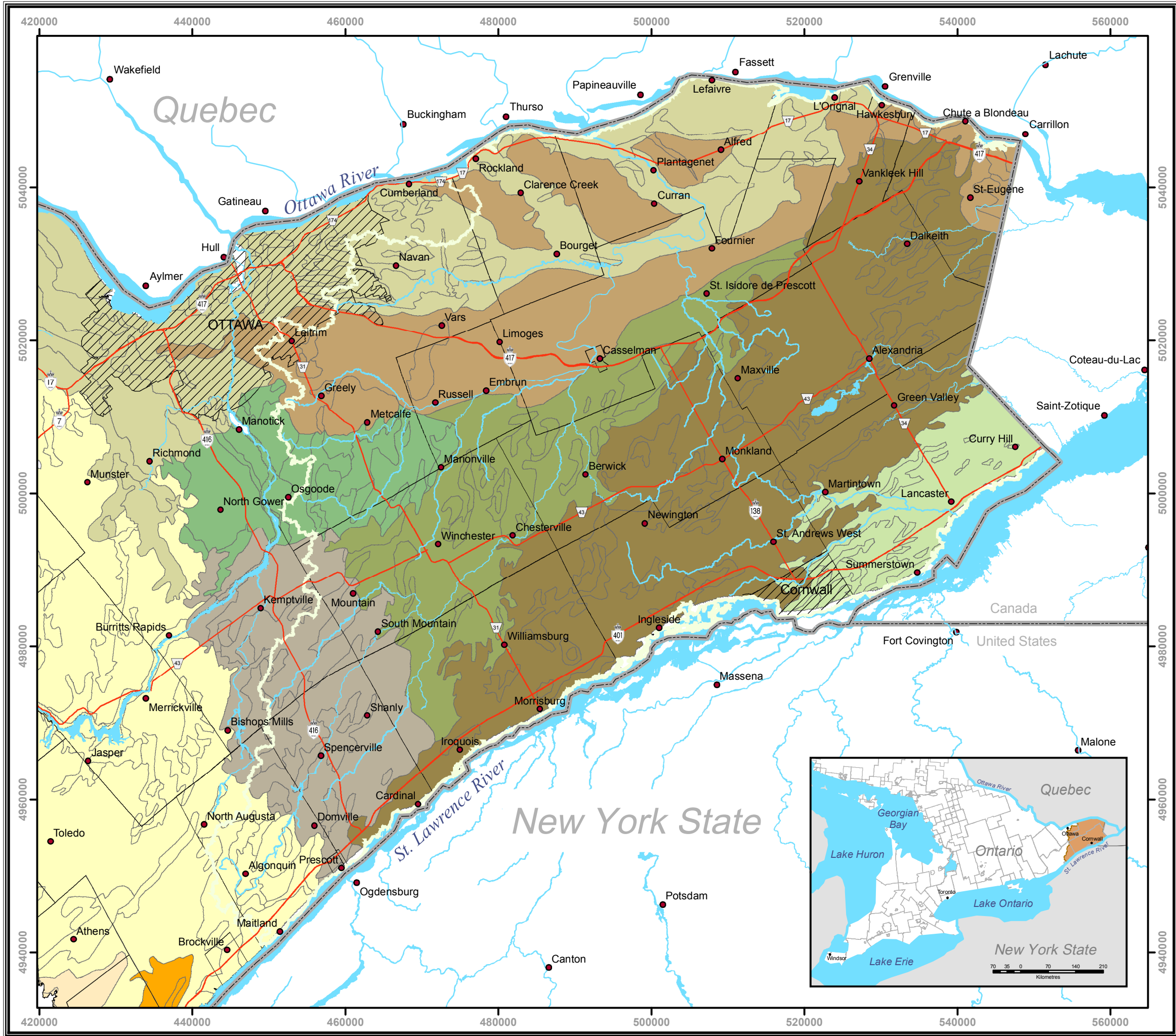
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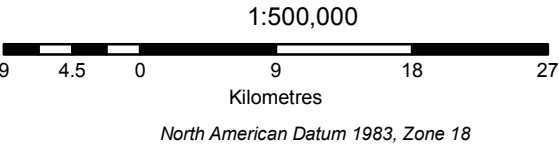


Map 9

Physiographic Units

Chapman, L.J., and Putnam, D.F. 1984:
The Physiography of Southern Ontario

- Towns
 - Major Roads
 - International/Interprovincial Border
 - Municipal Boundaries
 - ▨ Cities
 - Source Protection Boundary
 - Rivers
- Physiographic Units**
- SMITHS FALLS LIMESTONE PLAIN
 - ALGONQUIN HIGHLANDS
 - OTTAWA VALLEY CLAY FLATS
 - LANCASTER FLATS
 - NORTH GOWER DRUMLIN FIELD
 - WINCHESTER CLAY PLAIN
 - RUSSELL AND PRESCOTT SAND PLAINS
 - EDWARDSBURG SAND PLAIN
 - GLENGARRY TILL PLAIN
 - LEEDS KNOBS AND FLATS



Created By: J.P.
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Chapter:
Project: \19 Physiographic Units.mxd

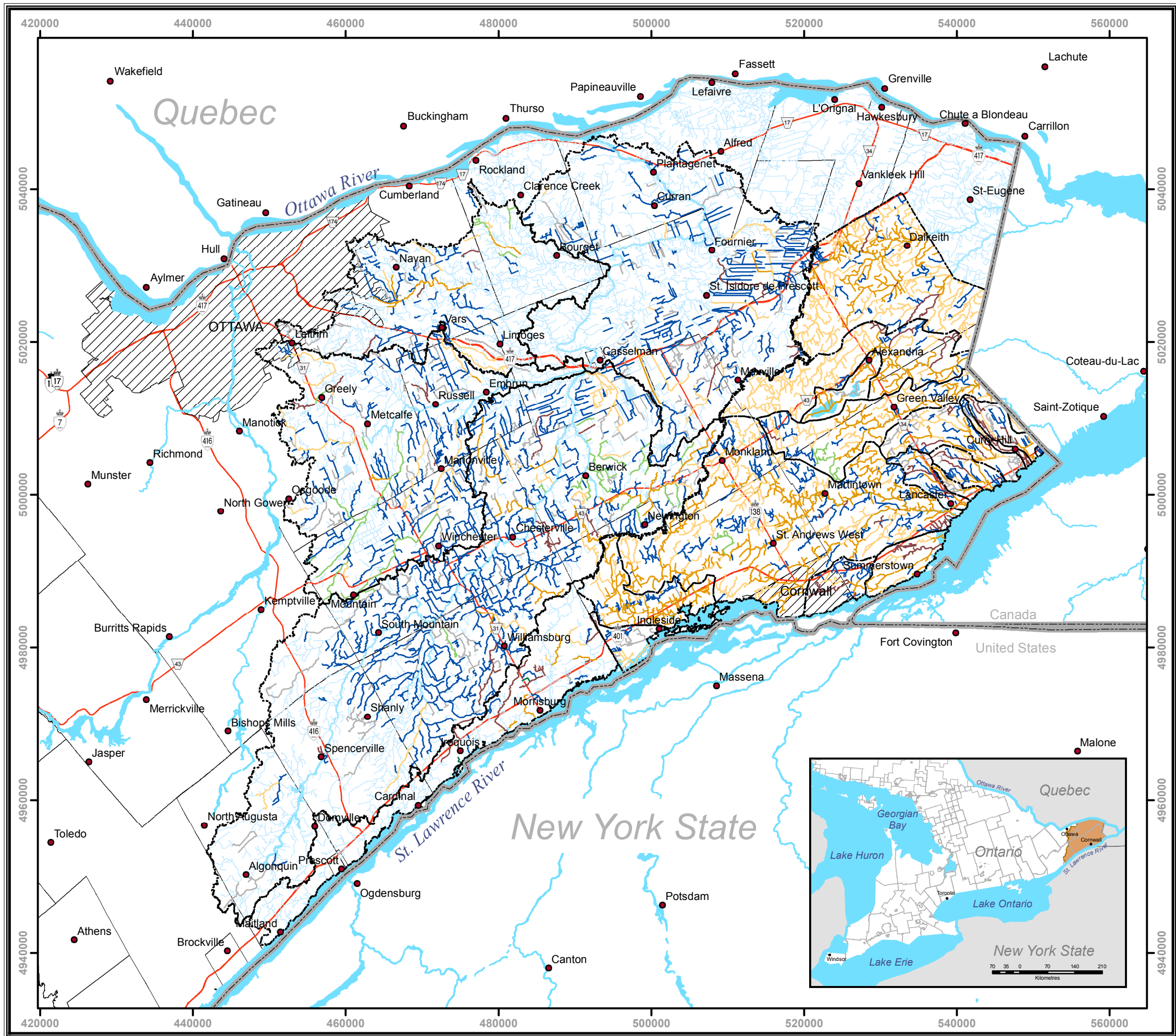
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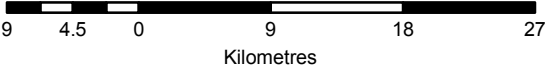
Map 10

Fish Habitat Drain Classification

- Towns
 - Major Roads
 - International/Interprovincial Border
 - Municipal Boundaries
 - ▨ Cities
- DFO Stream Classification**
- U/N-Unknown
 - A-Permanent, Cold/Cool, No Trout or Salmon
 - B-Permanent, Warm, Gamefish, Unstable Habitat
 - C-Permanent, Warm, Baitfish
 - D-Permanent, Cold/Cool Trout and/or Salmon
 - E-Permanent, Warm, Gamefish, Stable Habitat
 - F-Intermittent
 - Outside Original DFO Classification Study Area
 - ▭ Subwatershed Boundary
 - Rivers



1:515,625



North American Datum 1983, Zone 18

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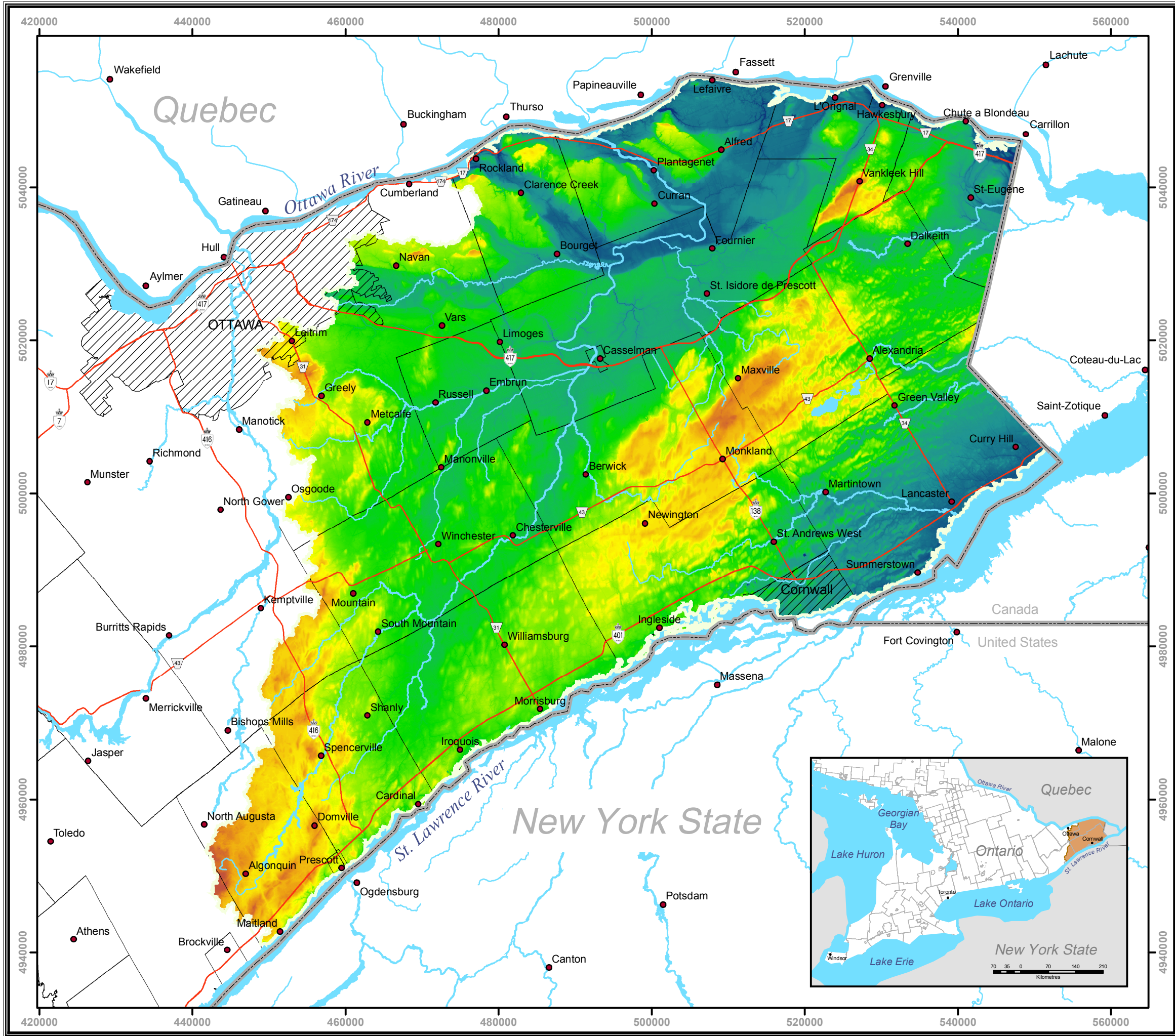
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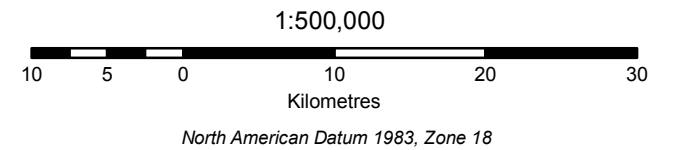
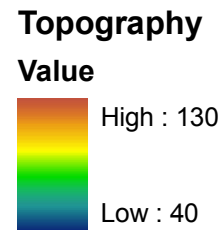
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Map 11 Topography

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary



Created By: J.P.
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Chapter:
Project: \\11 Topography.mxd

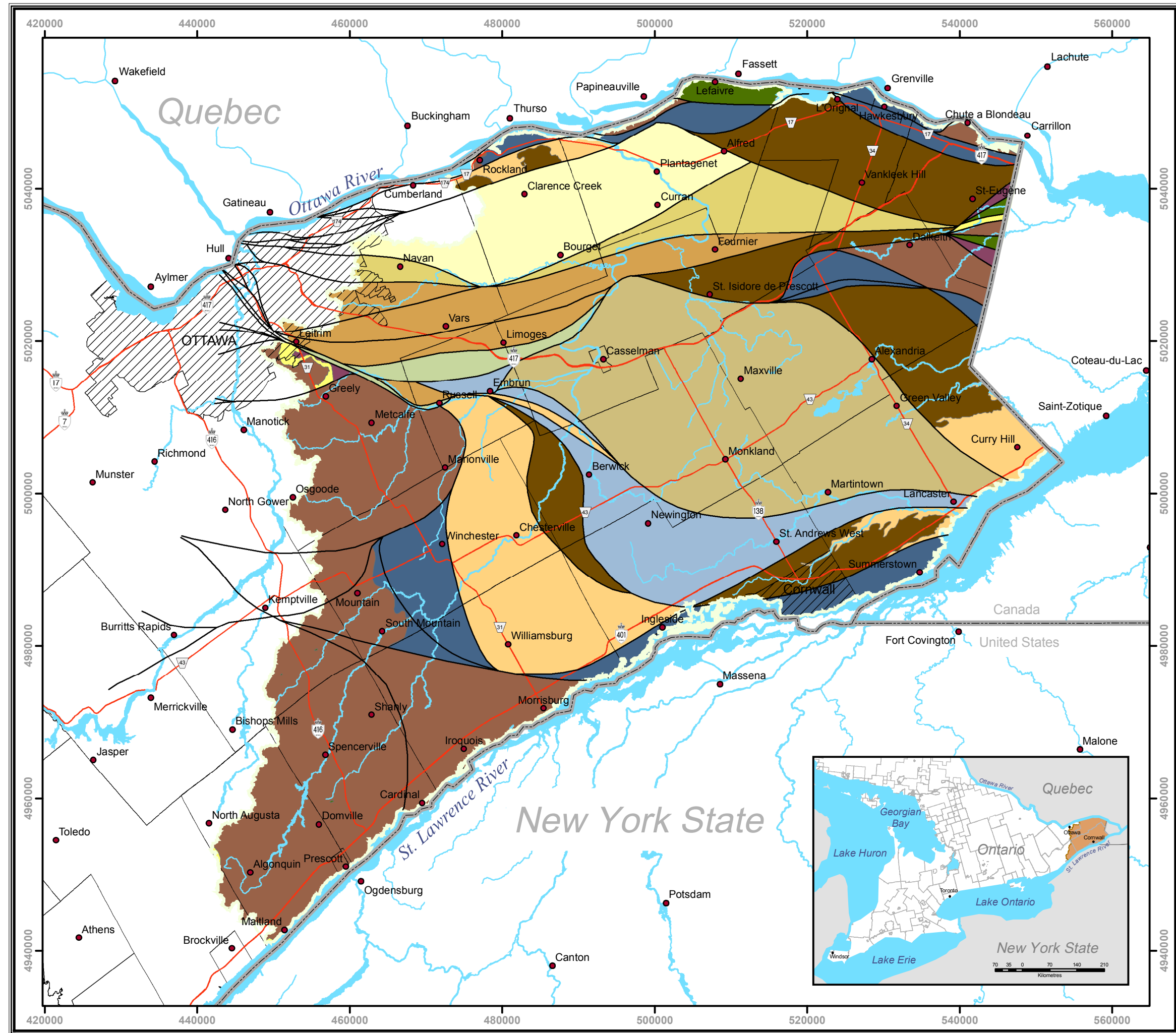
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Map 12

Bedrock Formations and Faults

- Towns
 - Major Roads
 - Faults
 - International/Interprovincial Border
 - Municipal Boundaries
 - Cities
 - Rivers
 - Source Protection Boundary
- Formation**
- Bobcaygeon
 - Oxford
 - Carlsbad
 - Gull River
 - Lindsay, Lower
 - Billings
 - March
 - Lindsay, Upper Member (formerly Eastview Fm.)
 - Nepean
 - Precambrian
 - Queenston
 - Rockcliffe
 - Verulam



1:500,000

10 5 0 10 20 30
Kilometres

North American Datum 1983, Zone 18

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Chapter:
Project: \\12 Bedrock Formations and Faults.mxd

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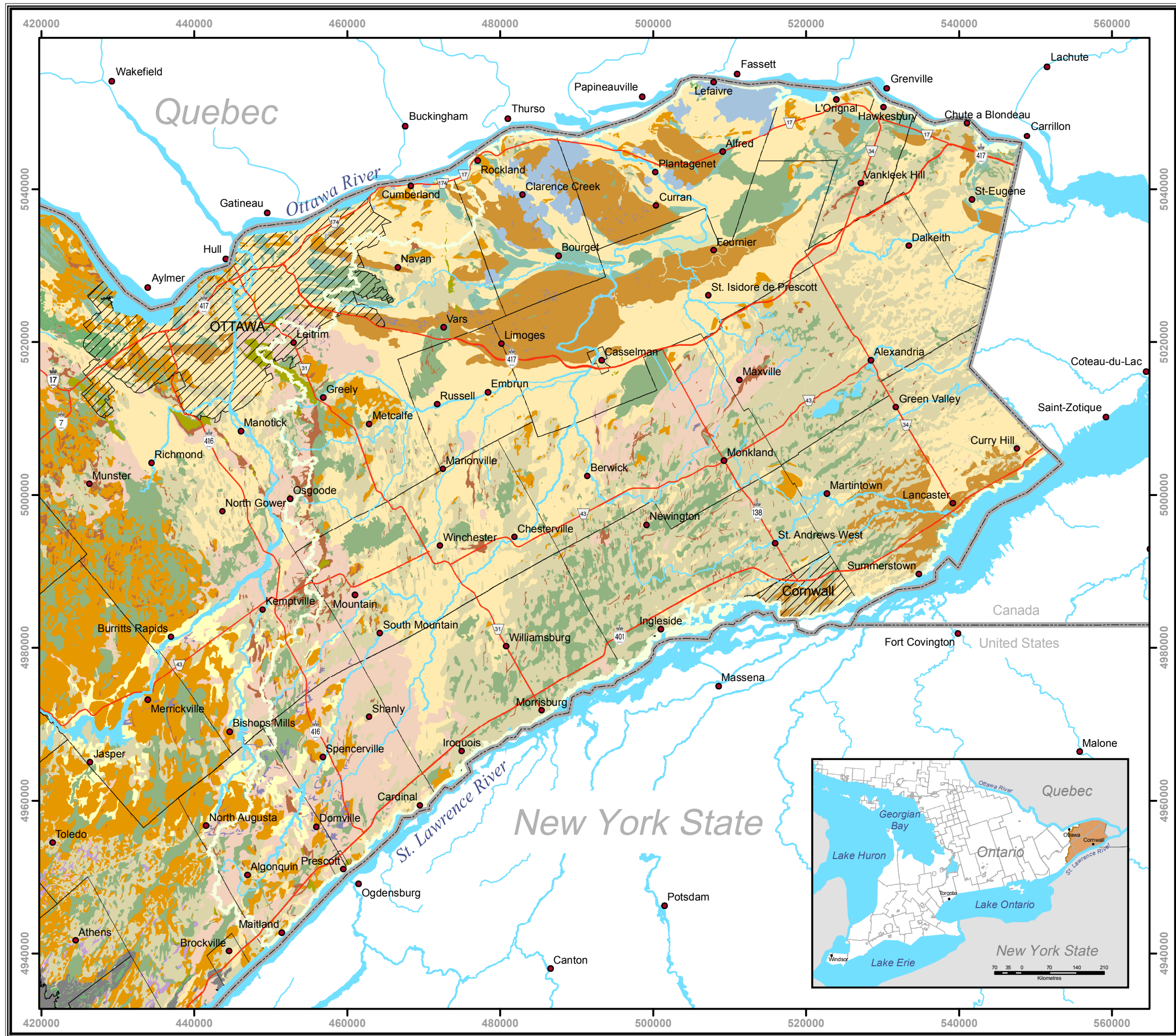
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Original mapping by WESA/EarthFX (RRCA/SNC Preliminary Watershed Characterization - Figure 3).

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Map 13

Surficial Geology

- Towns
 - Major Roads
 - International/Interprovincial Border
 - Municipal Boundaries
 - Rivers
 - Cities
 - Source Protection Boundary
- Recent**
- 12 Older alluvial deposits: medium sand
 - 17 Aeolian deposits: sand (dunes)
 - 18 Colluvial deposits: landslide debris
 - 19 Modern alluvial deposits: silt, sand, gravel and clay
 - 20 Organic deposits: peat, muck and gyttja
- Pleistocene**
- Bedrock-Drift Complex**
- 2 Precambrian Bedrock
 - 4 Paleozoic Bedrock
- Glacial Deposits**
- 5a Silty sand to sandy silt till, mainly Precambrian derived
 - 5b Silty sand to sandy silt till, mainly Paleozoic derived
- Glaciolacustrine Deposits**
- 7 Sand and gravel
 - 8a Clay and silt
 - 8b Sand and Gravel
 - 9c Sand
- Glaciomarine Deposits**
- 10 Clay and silt
 - 10a Clay and silt underlying erosional terrace
 - 11a Delta deposits: sand
 - 11b Beach deposits: bouldery sand and gravel
 - 11c Nearshore deposits: fine to medium sand
- Paleozoic**
- 3 Undifferentiated sandstone, limestone and shale
- Precambrian**
- 1 Undifferentiated metasedimentary gneiss, quartzite and granite intrusive rocks



1:500,000

10 5 0 10 20 30
Kilometres

North American Datum 1983, Zone 18

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Project: \13 Surficial Geology.mxd

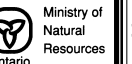
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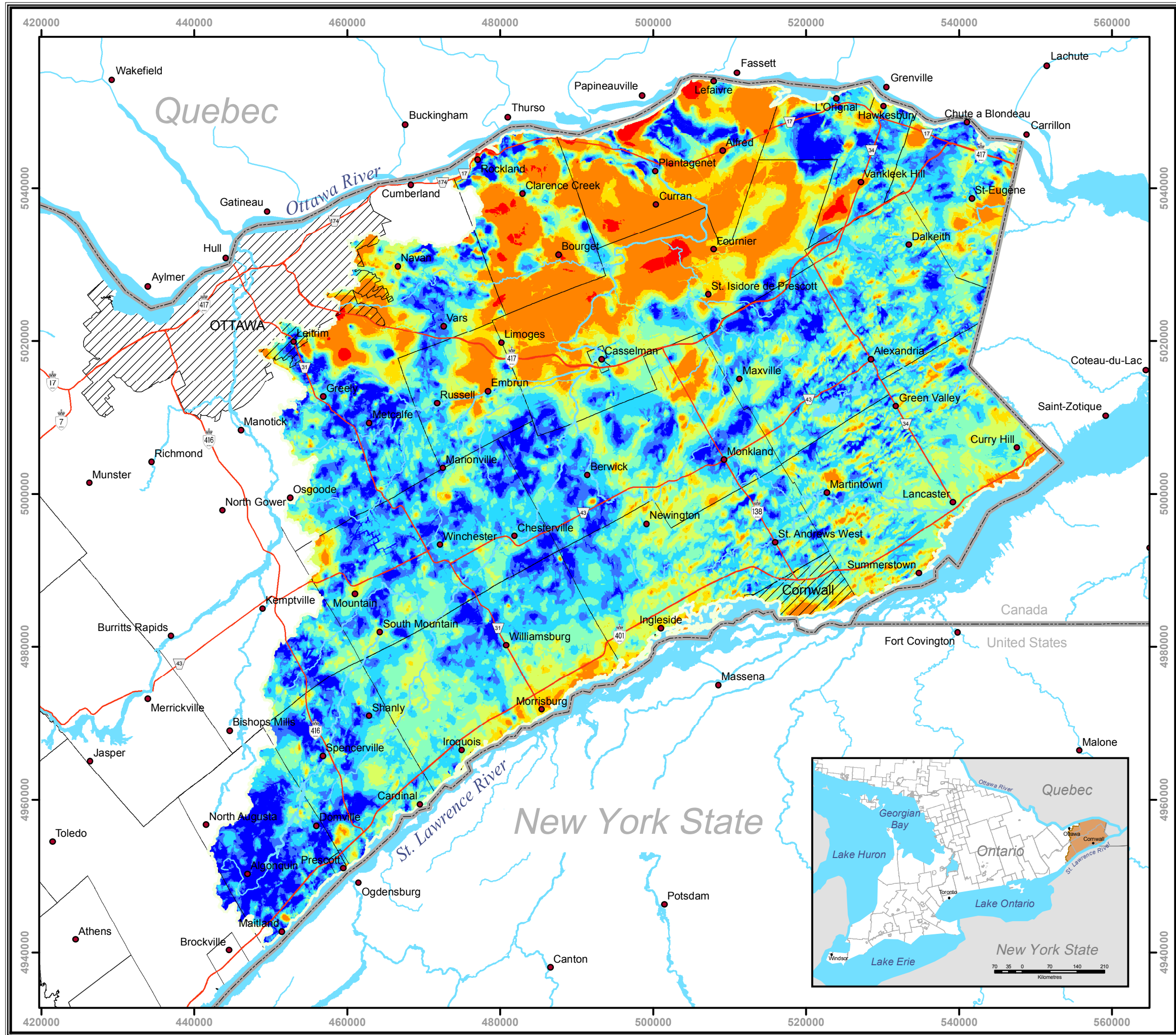
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Map 14

Overburden Thickness

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Overburden Thickness (m)

- 0 to 2
- 2 to 5
- 5 to 10
- 10 to 15
- 15 to 20
- 20 to 25
- 25 to 50
- > 50



1:500,000

10 5 0 10 20 30

Kilometres

North American Datum 1983, Zone 18

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Project: \14 Overburden Thickness.mxd

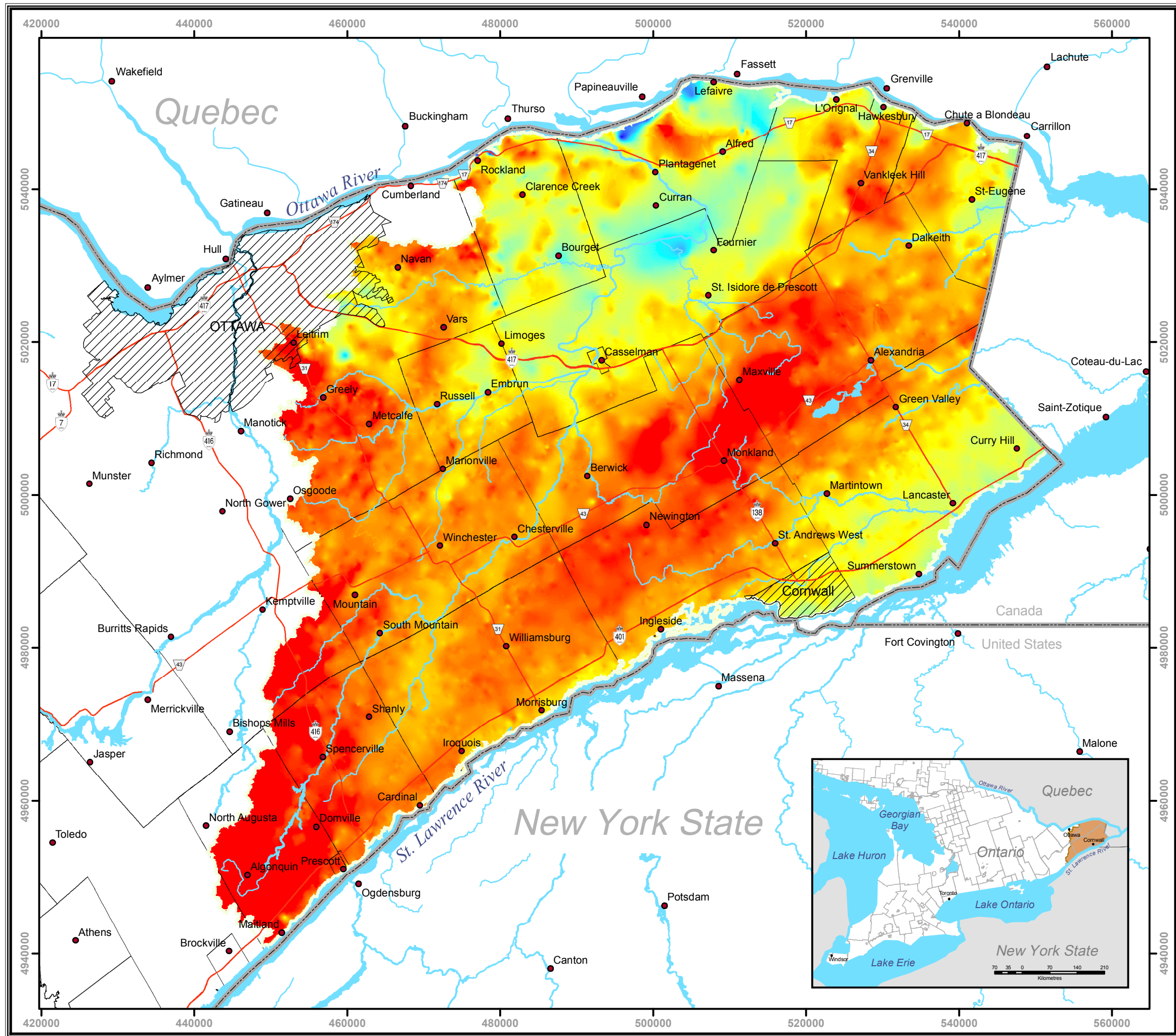
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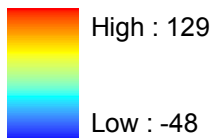
Map 15

Bedrock Topography

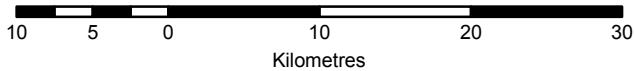
- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Bedrock Topography

Value



1:500,000



North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Nov. 10, 2006
Version: 0.3 Draft
Revision: REV.00
Produced for: Water Budget Draft Report
Chapter:
Project: \\15 Bedrock Topography.mxd

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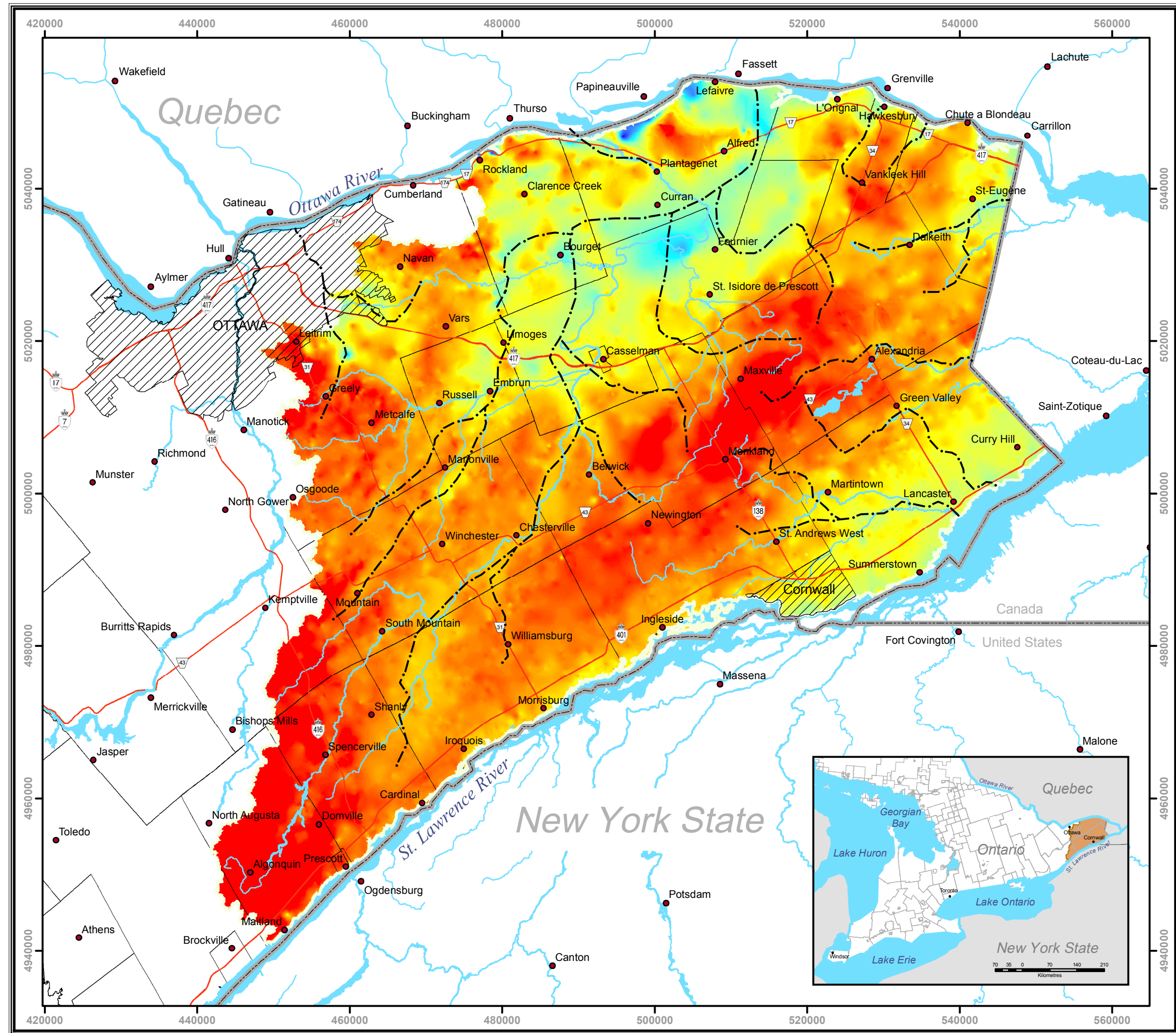
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Map 16

Bedrock Topography and Interpreted Bedrock Valley Centre Lines

- Towns
- Bedrock Valleys
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Bedrock Topography

Value

High : 129
Low : -48



1:500,000

10 5 0 10 20 30
Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Nov. 10, 2006
Version: 0.3 Draft
Revision: REV.00
Produced for: Water Budget Draft Report
Chapter:
Project: \\16 Bedrock Topography and Interpreted Bedrock Valley Centre Lines.mxd

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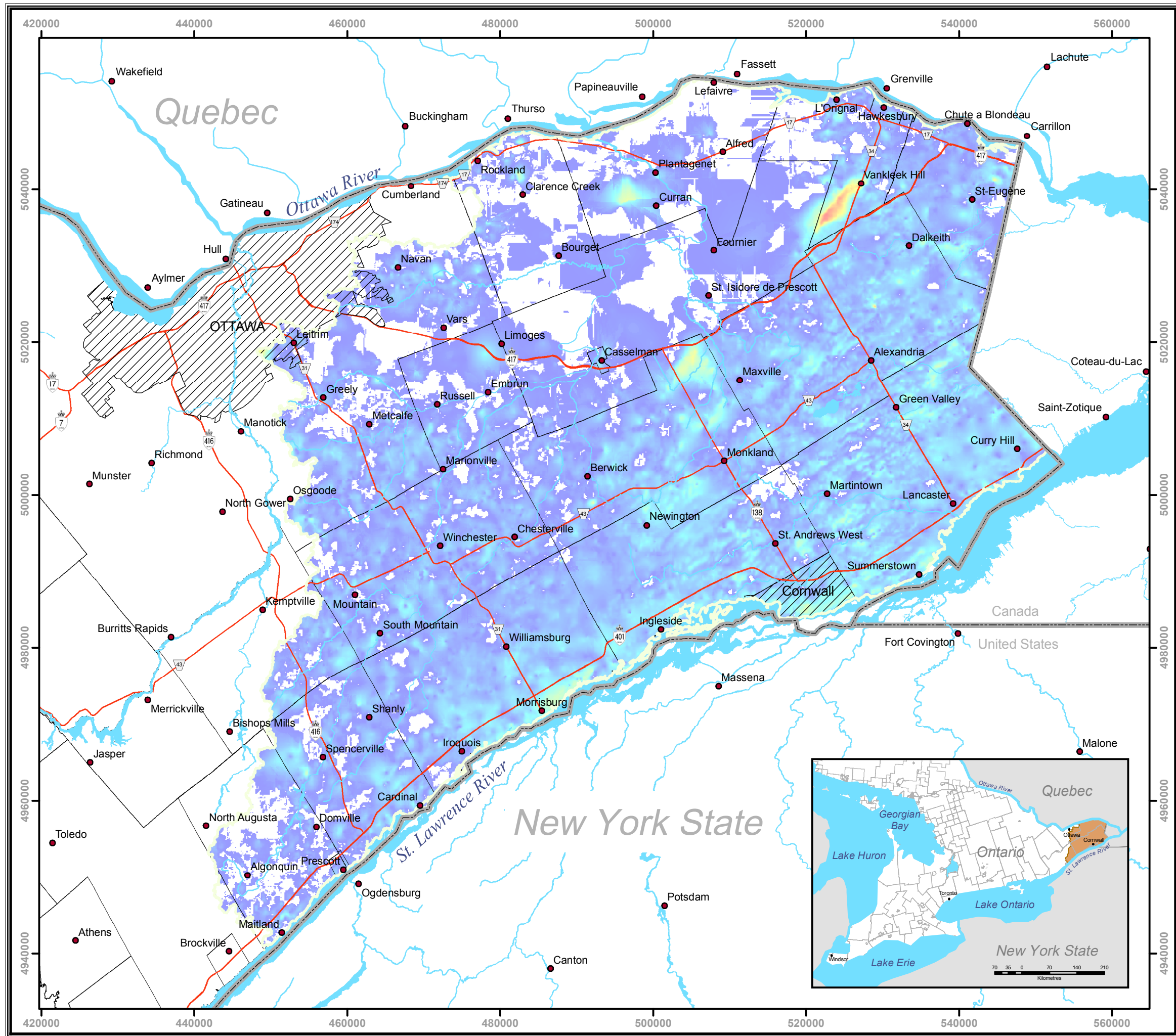
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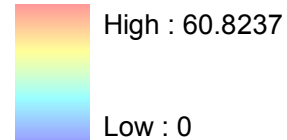
Map 17b

Geologic Isopach Till

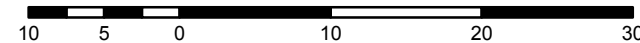
- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Till (m)

Value



1:500,000



Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Nov. 8, 2006
Version: 0.3 Draft
Revision: REV.01 - December 8, 2007
Produced for: Water Budget Draft Report
Chapter:
Project: \\17b Geologic Isopach Till.mxd

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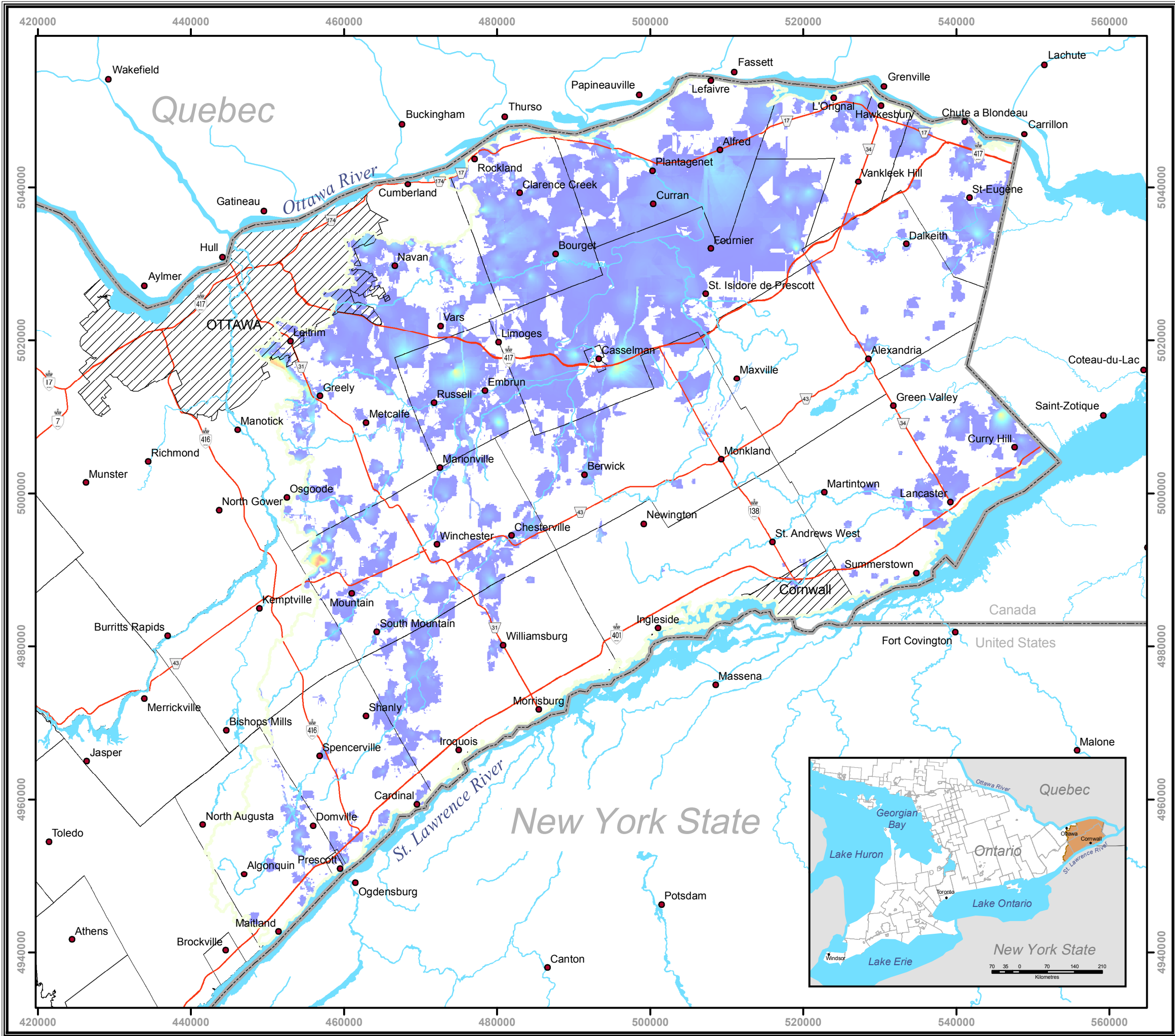
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Original mapping by WESA/EarthFX (RRCA/SNC Preliminary Watershed Characterization - Figure 51).

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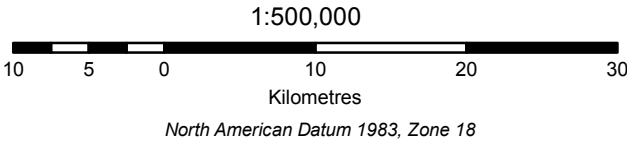
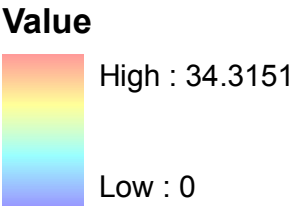




Map 17c

Geologic Isopach
Glaciofluvial Sediments

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary



Created By: J.P.
Date Produced: Nov. 8, 2006
Version: 0.3 Draft
Revision: REV.01 - December 8, 2007
Produced for: Water Budget Draft Report
Chapter:
Project: \\17c: Geologic Isopach Glaciofluvial Sediments.mxd

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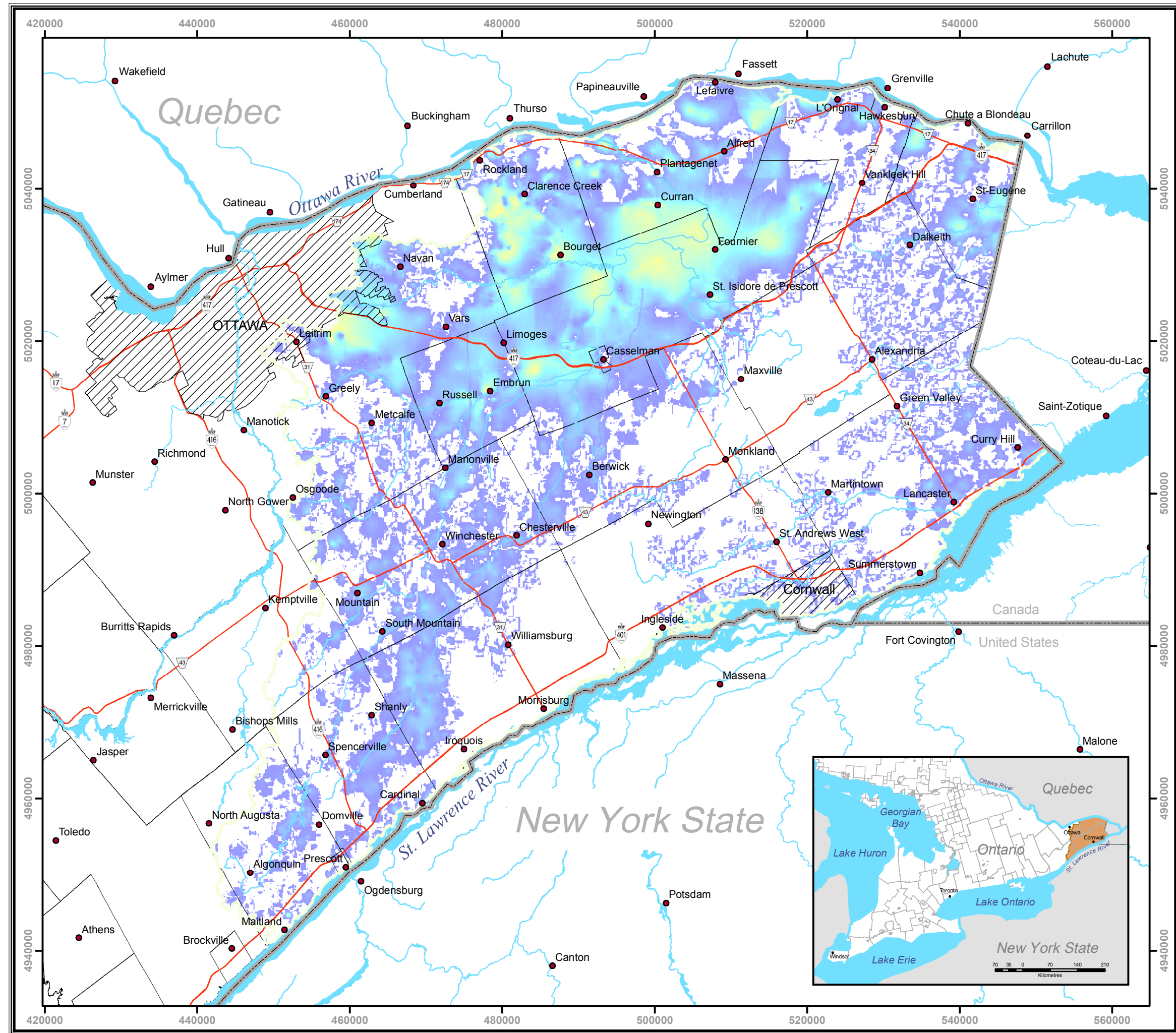
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Original mapping by WESA/EarthFX (RRCA/SNC Preliminary Watershed Characterization - Figure 51).

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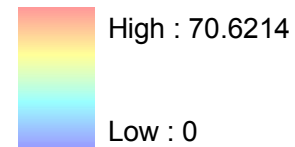
Map 17d

Geologic Isopach Fine Textured Glacial Marine

- Towns
- Major Roads
- International/Interprovincial Border
- ▭ Municipal Boundaries
- ▨ Cities
- Rivers
- ▭ Source Protection Boundary

Fine Textured Glacial Marine (m)

Value



1:500,000

10 5 0 10 20 30

Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Nov. 8, 2006
Version: 0.3 Draft
Revision: REV.01 - December 8, 2007
Produced for: Water Budget Draft Report
Chapter:
Project: \\17d Geologic Isopach Fine Textured Glacial Marine.mxd

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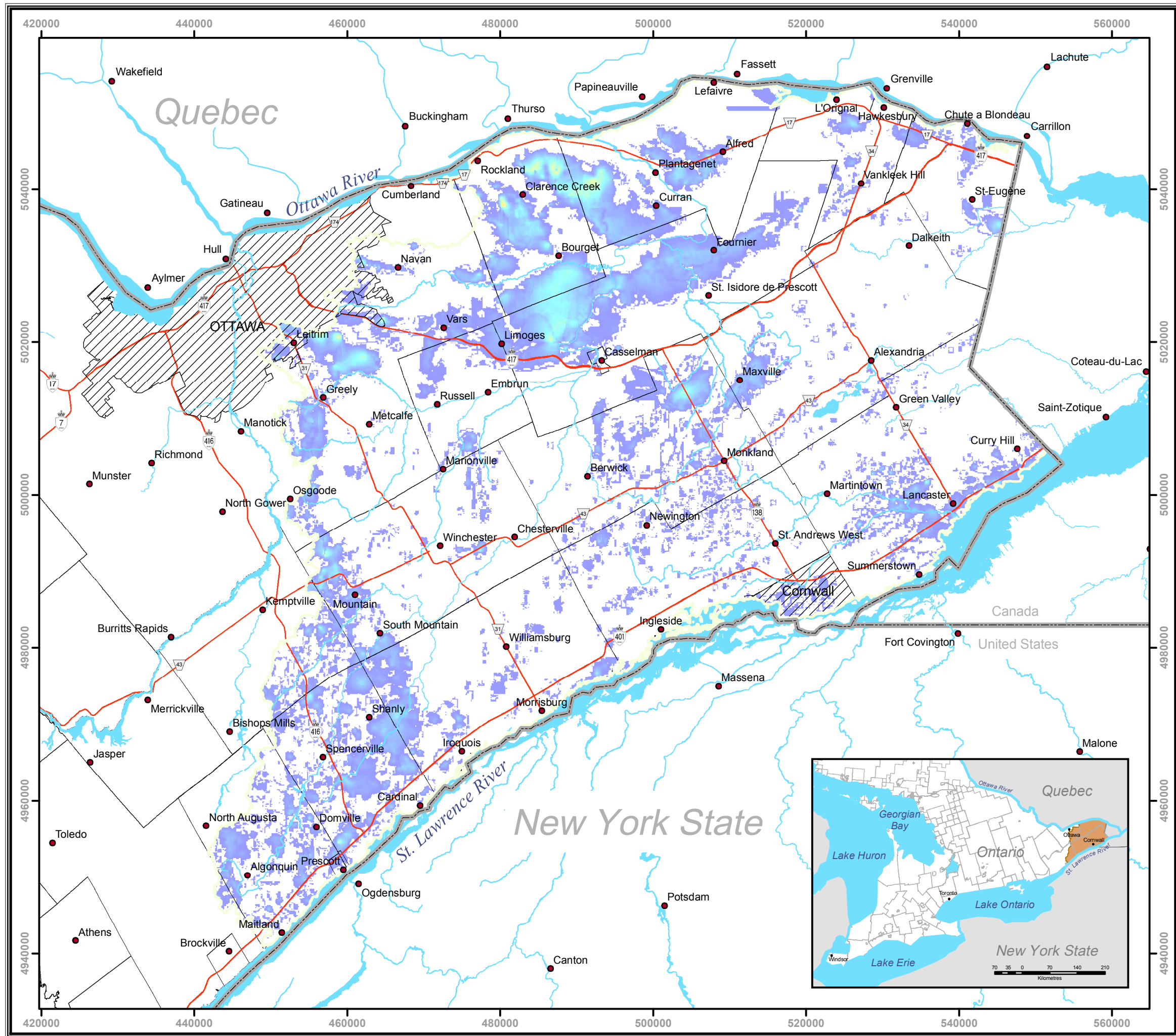
Additional data was provided by other provincial or municipal agencies and clearing houses.

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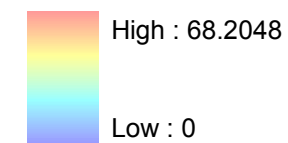
Map 17e

Geologic Isopach Coarse Textured Glacial Marine

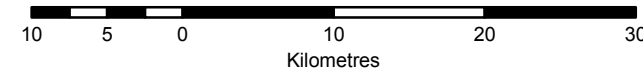
- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Coarse Textured Glacial Marine (m)

Value



1:500,000



North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Nov. 8, 2006
Version: 0.3 Draft
Revision: REV.01 - December 8, 2007
Produced for: Water Budget Draft Report
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Project: \17e Geologic Isopach Coarse Textured Glacial Marine.mxd

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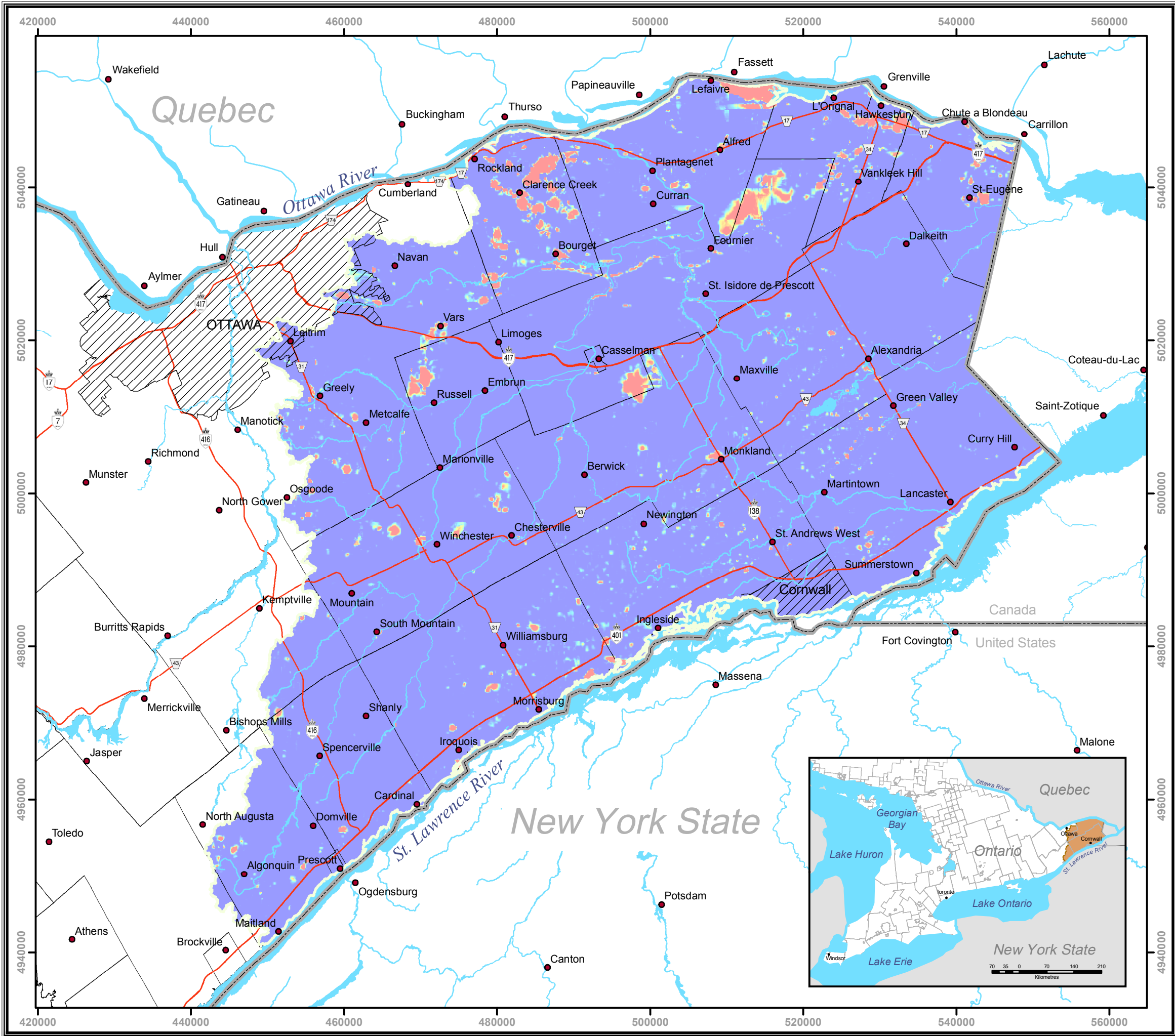
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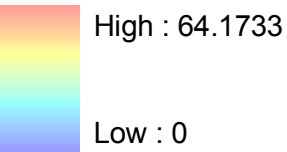
Map 17f

Geologic Isopach Recent Deposits

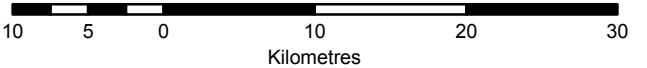
- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Recent (m)

Value



1:500,000



North American Datum 1983, Zone 18

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Project: \\17f Geologic Isopach Recent Deposits.mxd

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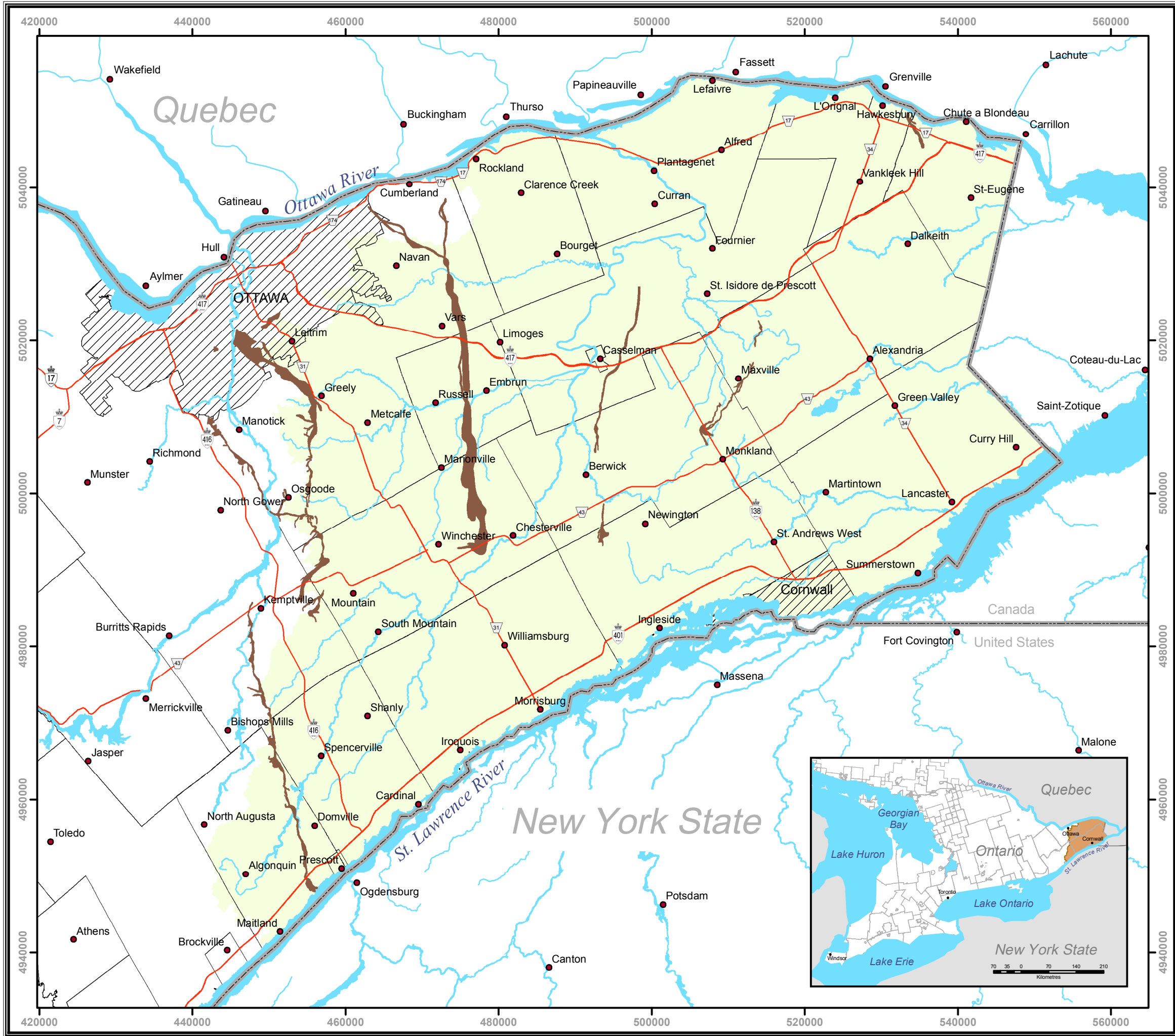
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Original mapping by WESA/EarthFX (RRCA/SNC Preliminary Watershed Characterization - Figure 51).

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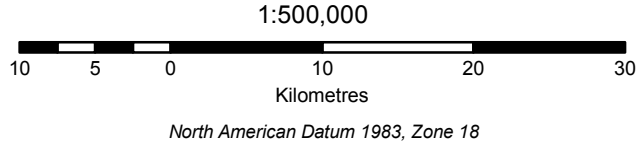




Map 18

Esker Distribution

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary
- Eskers and Fan Deposits



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Date Produced: Jan 11, 2006
Version: 0.3 Draft
Revision: REV.01 - December 8, 2007
Produced for: Water Budget Draft Report
Chapter:
Project: \\18 Esker Distribution.mxd

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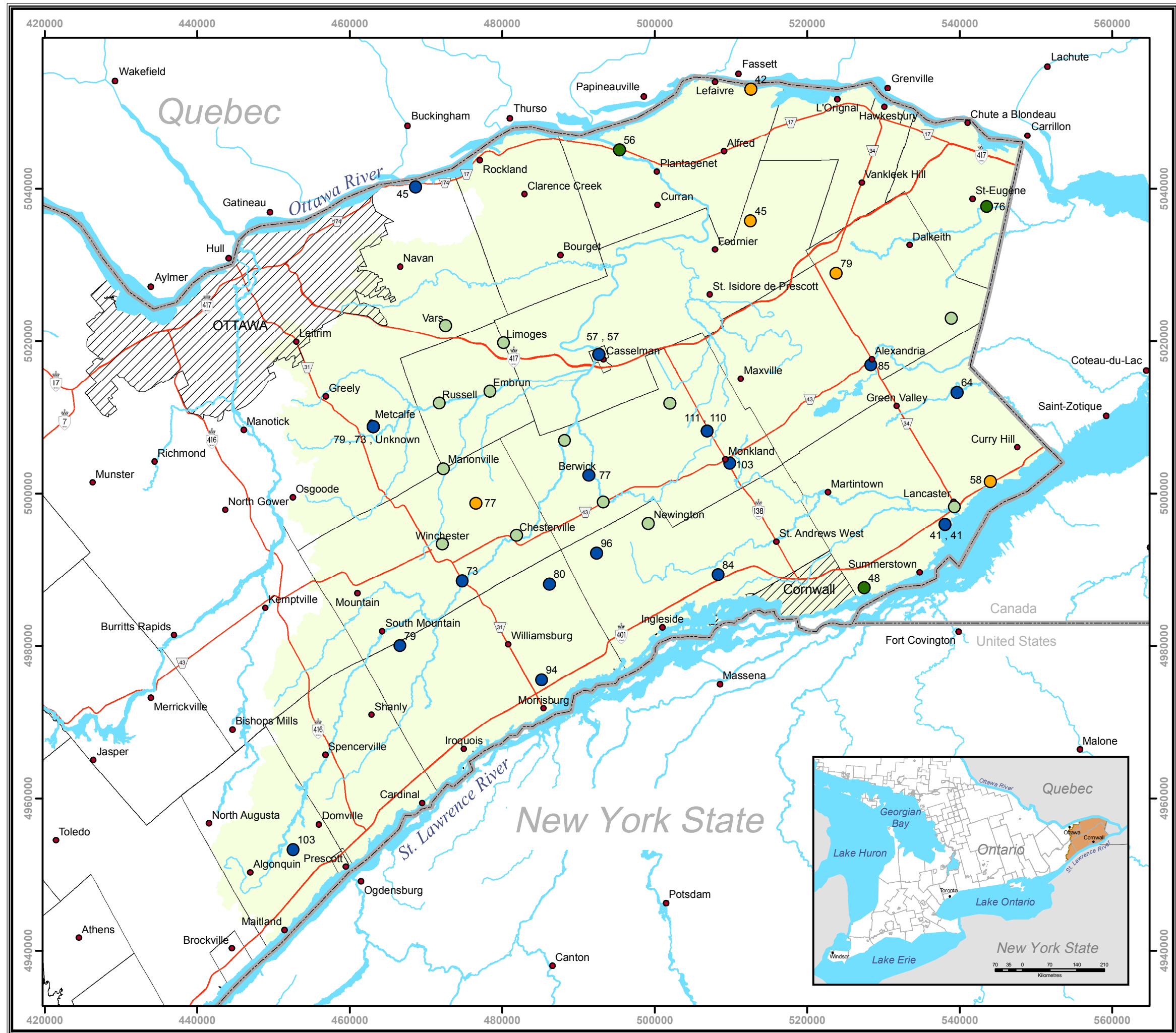
The source/base data is known to be the best available information provided through the Ontario Geospatial Data Exchange and by Ontario Ministry of Natural Resources, Ontario Ministry of Environment, Conservation Ontario and local Municipalities.

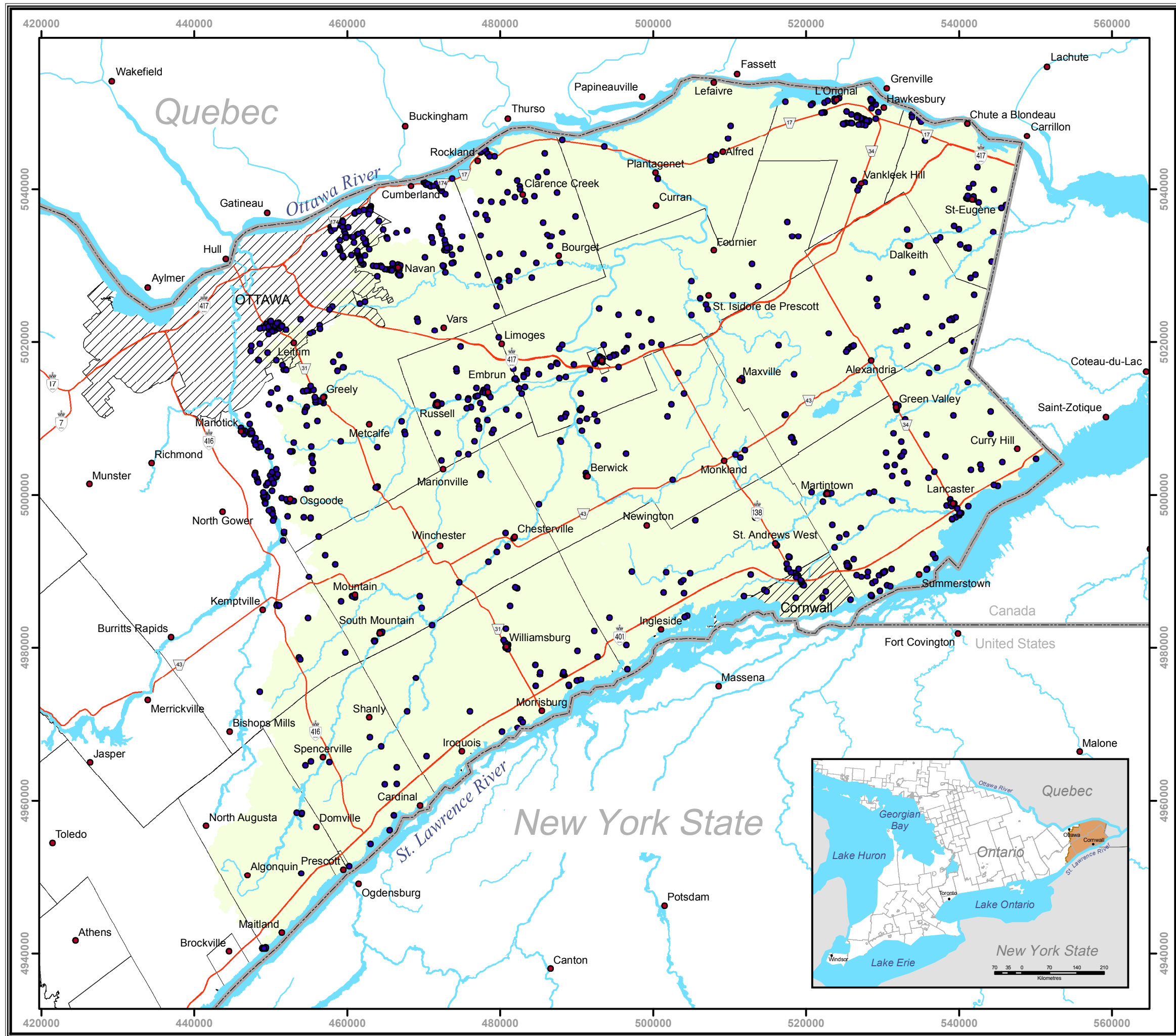
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Map 20a

Selected MOE Wells Completed in the Overburden

- Towns
- Selected Wells
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary



1:500,000

10 5 0 10 20 30
Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Jan 11, 2006
Version: 0.3 Draft
Revision: REV.01 - Oct. 26, 2006
Produced for: Water Budget Draft Report
Chapter:
Project: \\20a Selected MOE Wells Completed in the Overburden.mxd

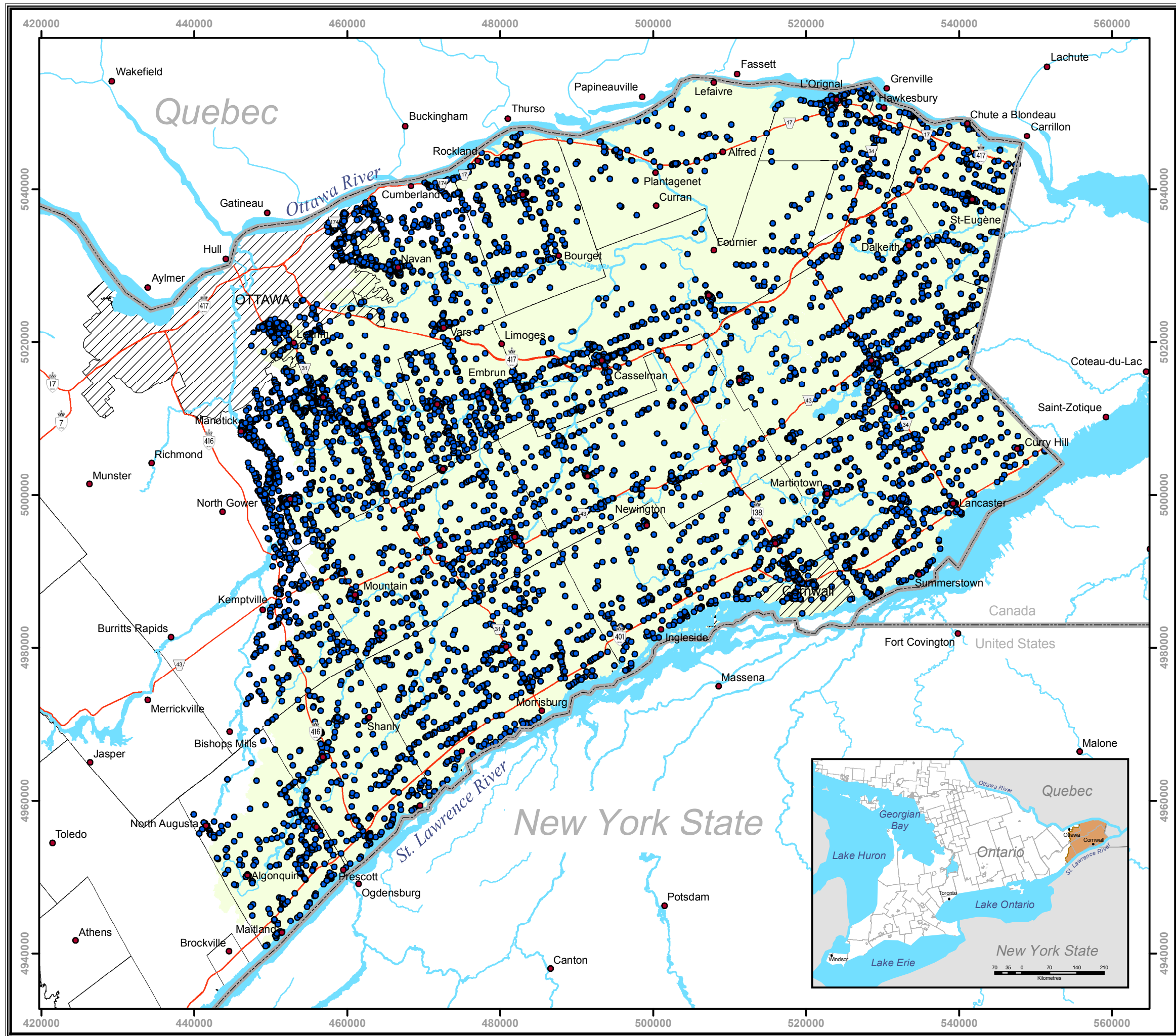
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SOUTH NATION
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Map 20b

Selected MOE Wells Completed in the Shallow Bedrock

- Towns
- Selected Wells
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary



1:500,000

10 5 0 10 20 30
Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Jan 11, 2006
Version: 0.3 Draft
Revision: REV.01 - Oct. 26, 2006
Produced for: Water Budget Draft Report
Chapter:
Project: \\20b Selected MOE Wells Completed in the Shallow Bedrock.mxd

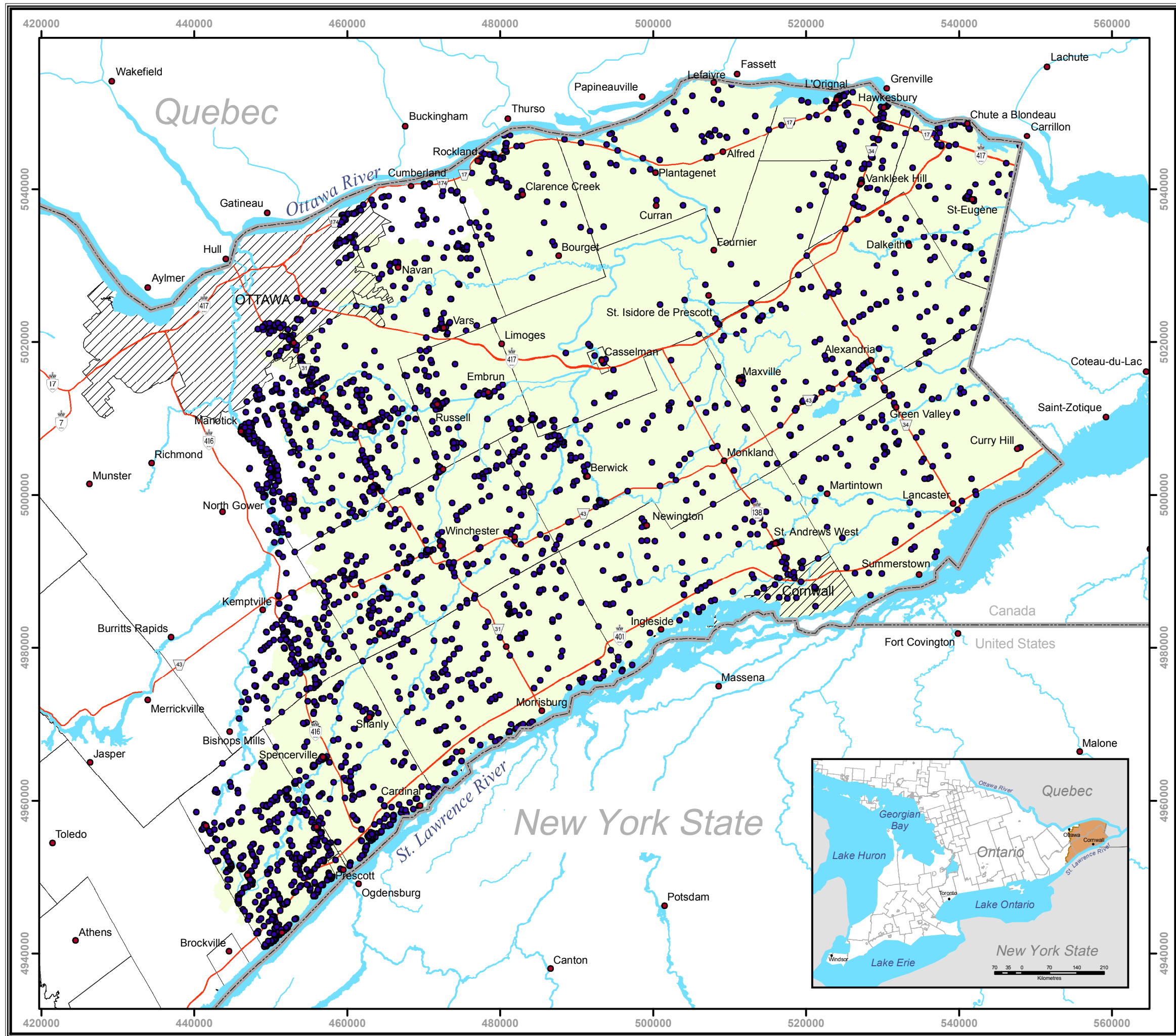
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SOUTH NATION
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Map 20c

Selected MOE Wells Completed in the Intermediate Bedrock

- Towns
- Selected Wells
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary



1:500,000

10 5 0 10 20 30
Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Jan 11, 2006
Version: 0.3 Draft
Revision: REV.01 - Oct. 26, 2006
Produced for: Water Budget Draft Report
Chapter:
Project: \20c Selected MOE Wells Completed in the Intermediate Bedrock.mxd

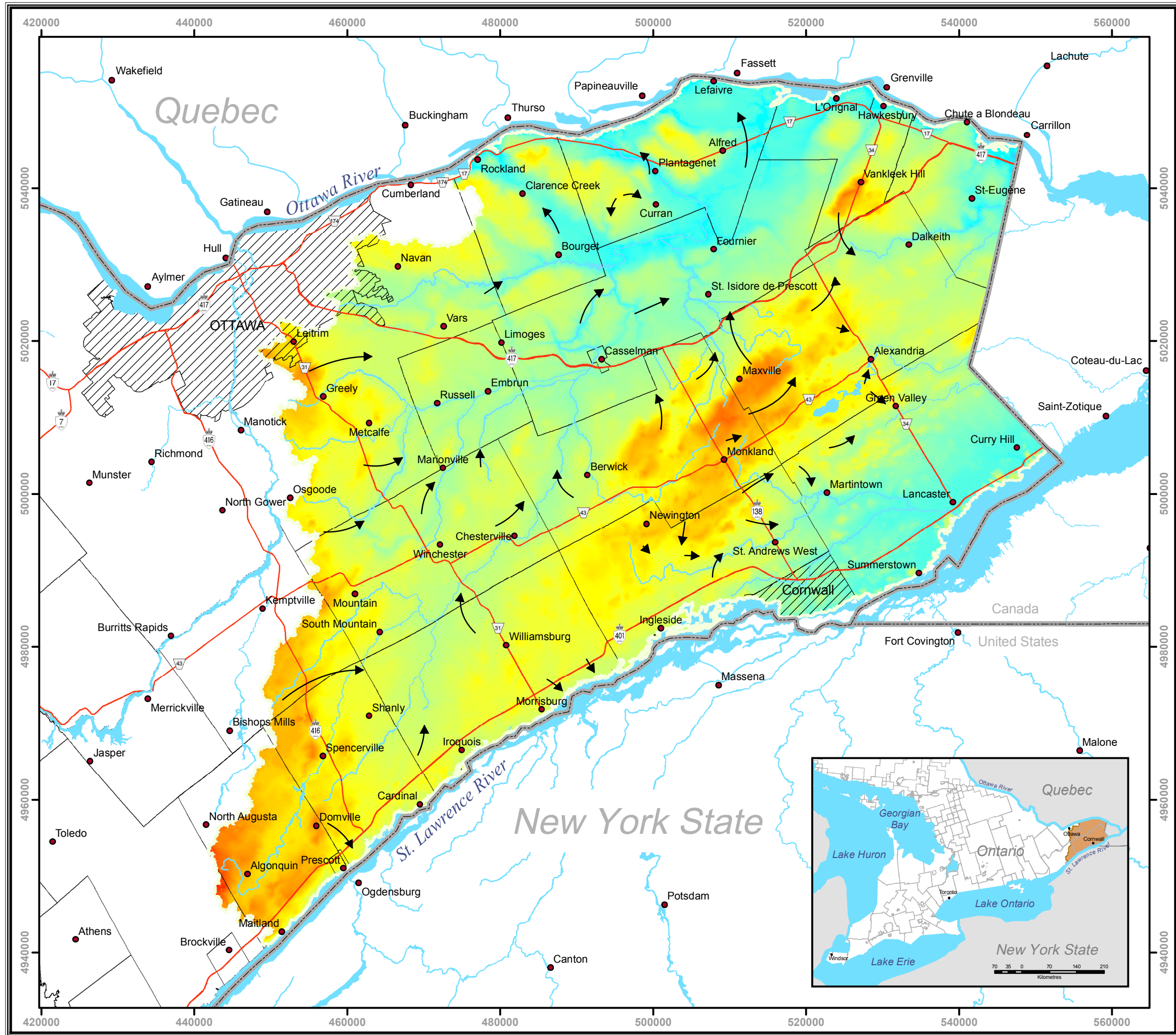
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SOUTH NATION
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Map 21

Overburden Potentiometric Surface with Direction of Groundwater Flow

- Towns
 - Major Roads
 - International/Interprovincial Border
 - Municipal Boundaries
 - ▨ Cities
 - Rivers
 - Source Protection Boundary
- Potentiometric Surface (m)**
Value
- High : 134.786
- Low : 0
- Direction of Groundwater Flow



1:500,000

10 5 0 10 20 30

Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Nov. 12, 2006
Version: 0.3 Draft
Revision: REV.01 - December 8, 2007
Produced for: Water Budget Draft Report
Chapter:
Project: \\21 Overburden Potentiometric Surface with Direction of Groundwater Flow.mxd

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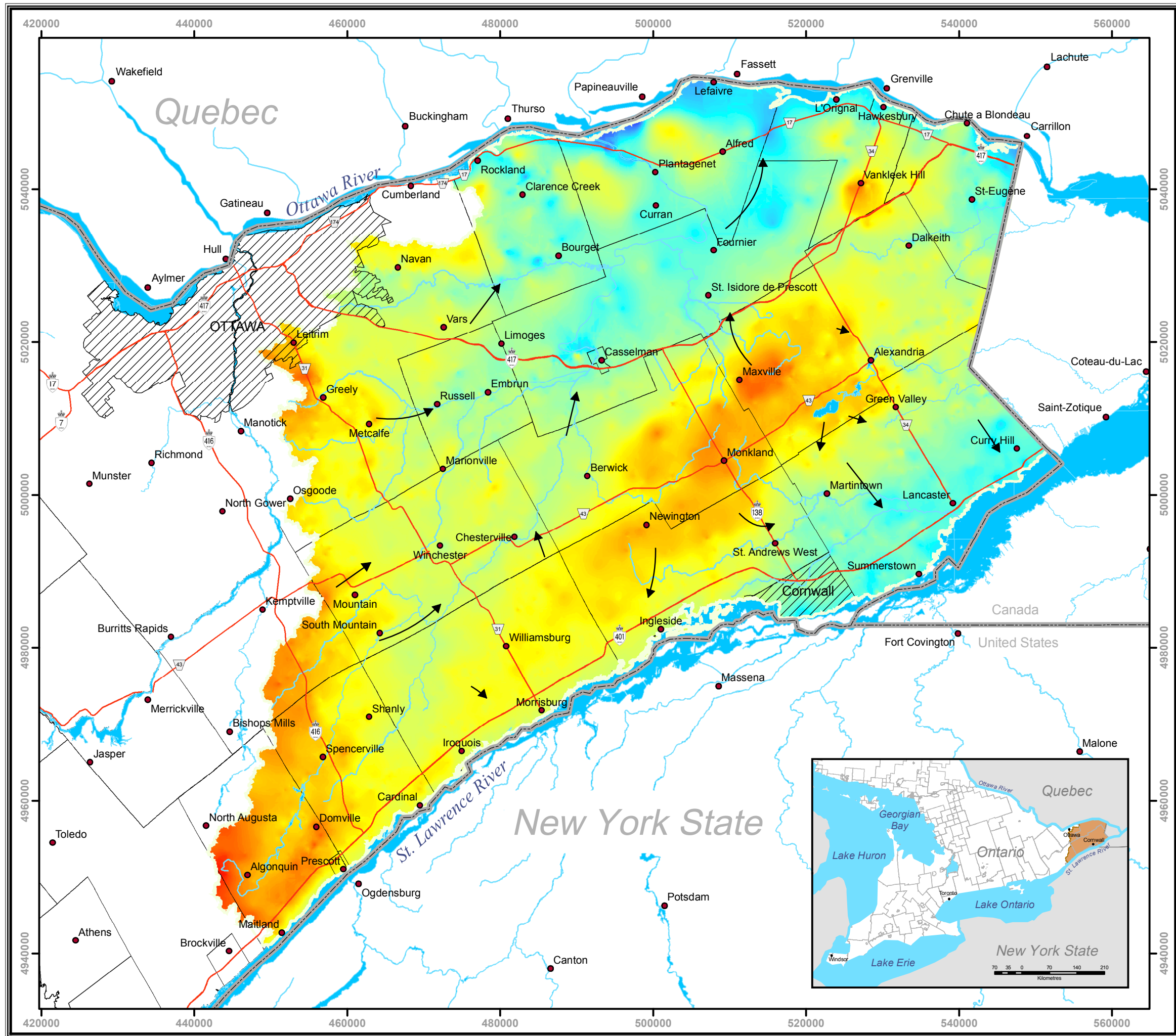
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**SOUTH NATION
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DE LA NATION SUD

Map 22

Shallow Bedrock Potentiometric Surface with Direction of Groundwater Flow

Towns

Major Roads

International/Interprovincial Border

Municipal Boundaries

Cities

Rivers

Source Protection Boundary

Potentiometric Surface (m)

Value

High : 122

Low : 5

Direction of Groundwater Flow

N

10

5

0

10

20

30

Kilometres

North American Datum 1983, Zone 18

Created By: J.P.

Date Produced: Nov. 12, 2006

Version: 0.3 Draft

Revision: REV.01 - December 8, 2007

Produced for: Water Budget Draft Report

Chapter:

Project: \\22 Shallow BedrockPotentiometric Surface with Direction of Groundwater Flow.mxd

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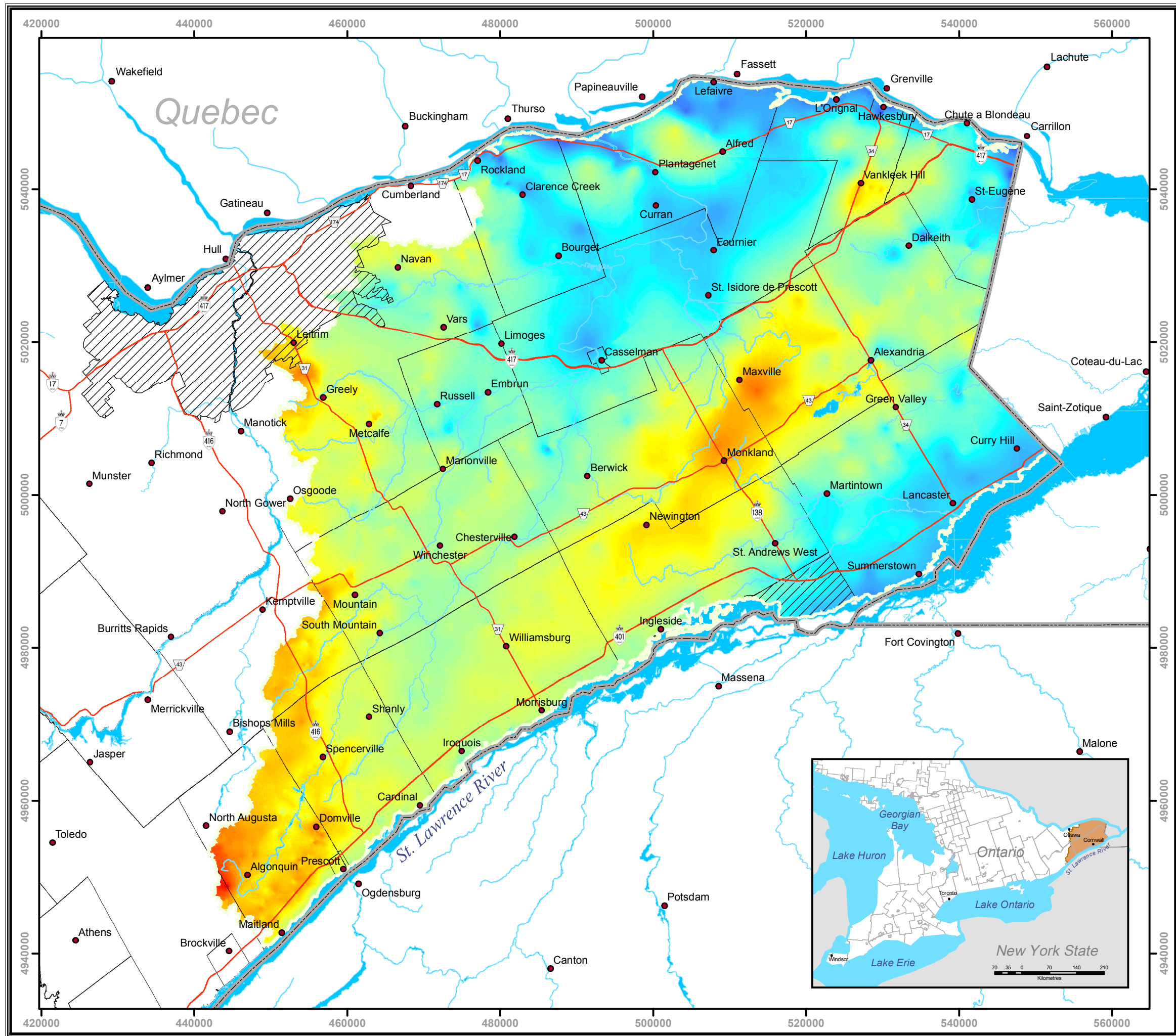
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Ministry of
Natural
Resources

Ontario

Map 22



SOUTH NATION
CONSERVATION
DE LA NATION SUD

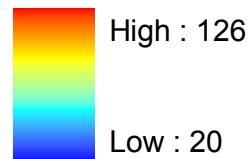
Map 23

Potentiometric Surface in the Intermediate Bedrock

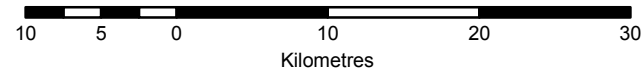
- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Potentiometric Surface (m)

Value



1:500,000



North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Nov. 12, 2006
Version: 0.3 Draft
Revision: REV.00
Produced for: Water Budget Draft Report
Chapter:
Project: \23 Potentiometric Surface in the Intermediate Bedrock.mxd

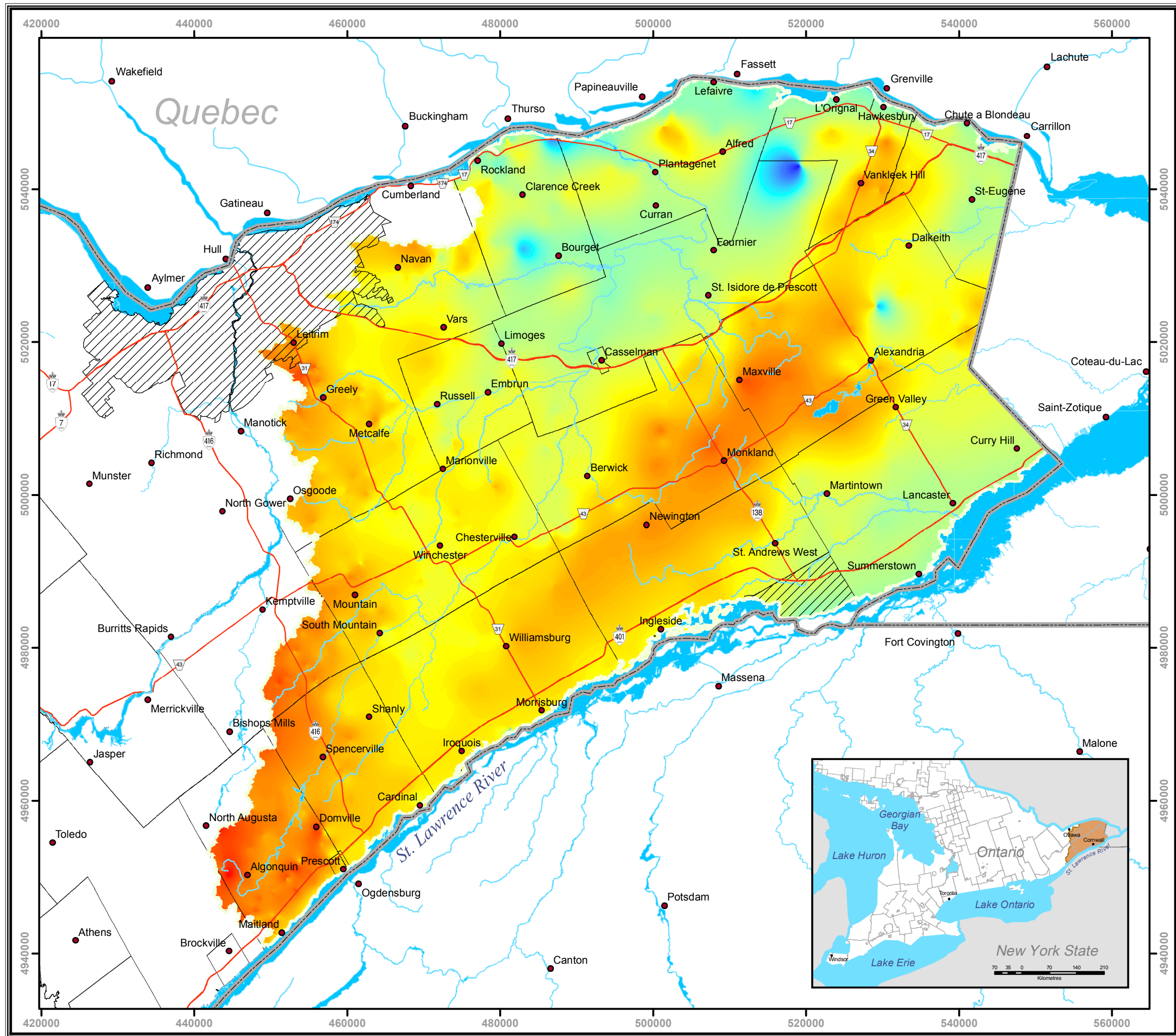
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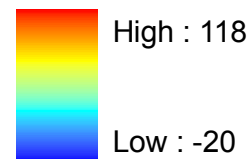
Map 24

Potentiometric Surface in the Deep Bedrock

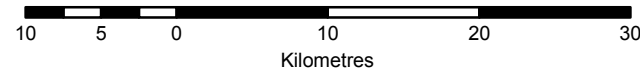
- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Potentiometric Surface (m)

Value



1:500,000



North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Nov. 12, 2006
Version: 0.3 Draft
Revision: REV.00
Produced for: Water Budget Draft Report
Chapter:
Project: \\24 Potentiometric Surface in the Deep Bedrock.mxd

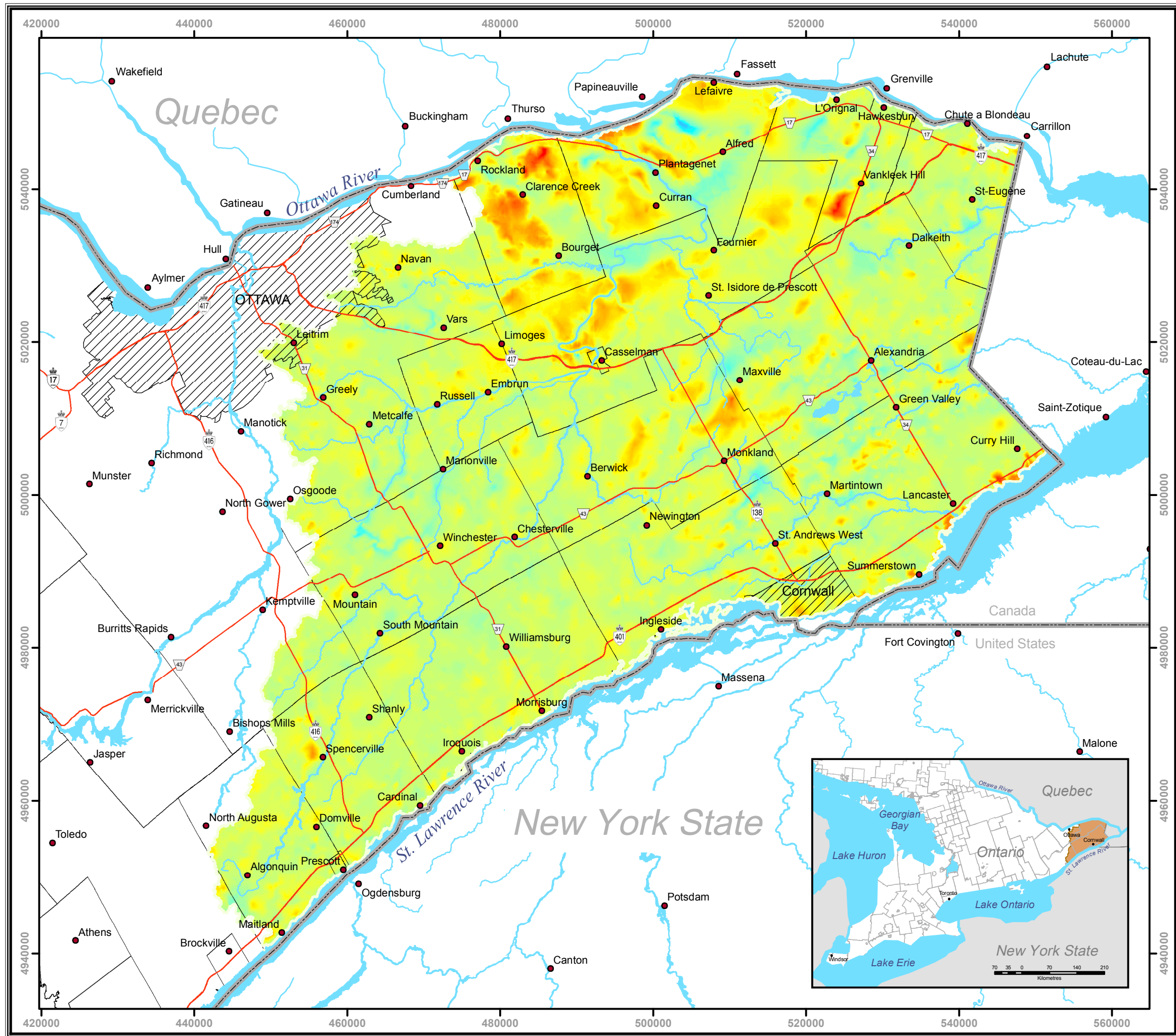
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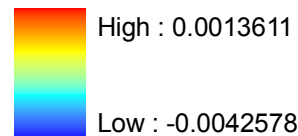
Map 25

Vertical Gradient for Recharge to the Contact Zone Aquifer

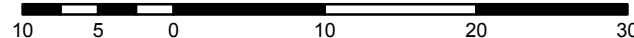
- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Vertical Gradient

Value



1:500,000



Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Jan 11, 2006
Version: 0.3 Draft
Revision: REV.01 - January 22, 2008
Produced for: Water Budget Draft Report
Chapter:
Project: \25 Vertical Gradient for Recharge to the Contact Zone.mxd

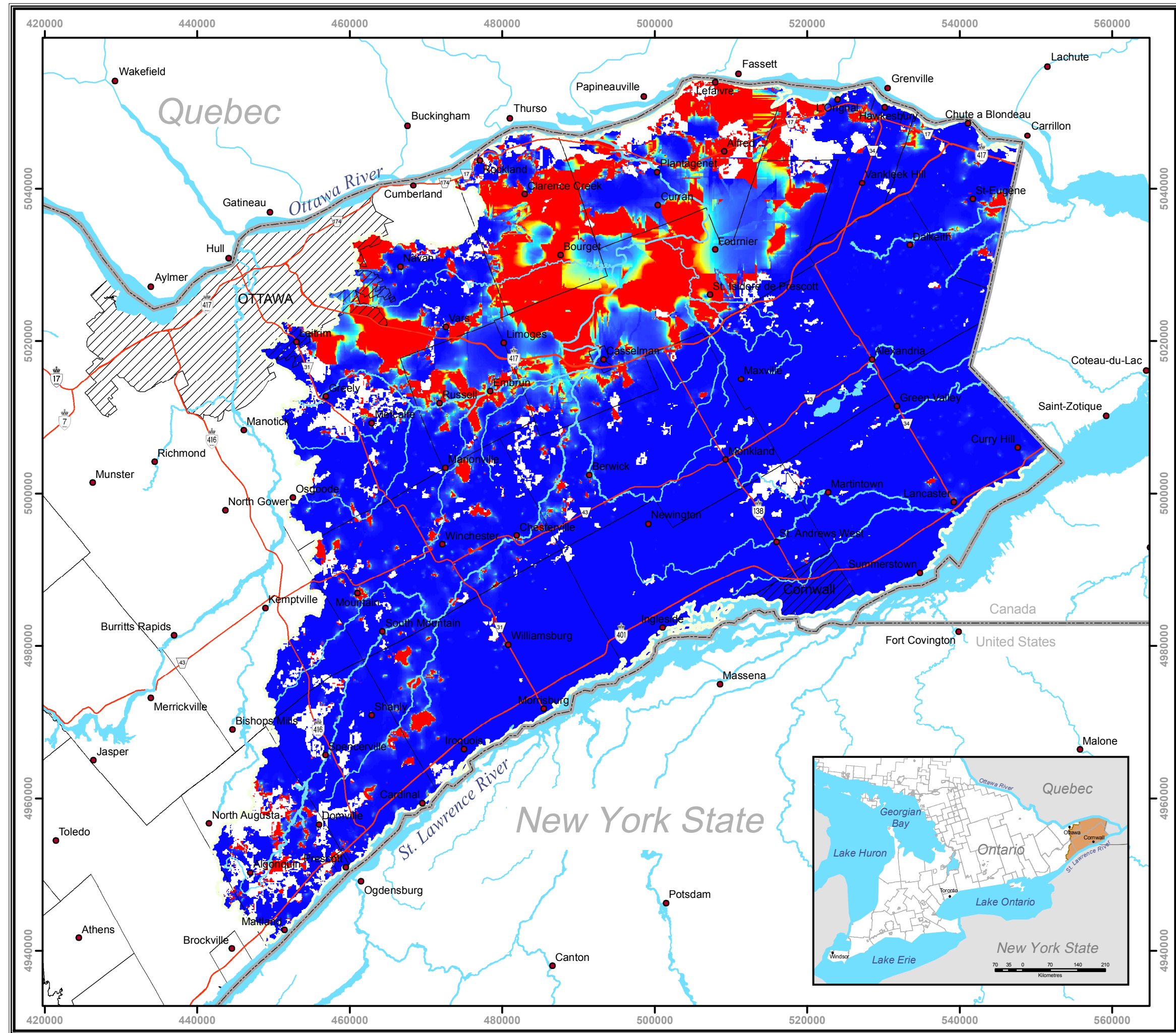
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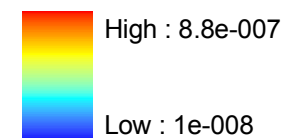
Map 26

Hydraulic Conductivity of the Confining Unit

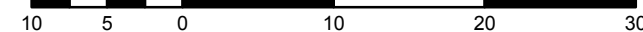
- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Hydraulic Conductivity

Value



1:500,000



Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Jan 11, 2006
Version: 0.3 Draft
Revision: REV.01 - January 22, 2008
Produced for: Water Budget Draft Report
Chapter:
Project: \\26 Hydraulic Conductivity of the Confining Unit.mxd

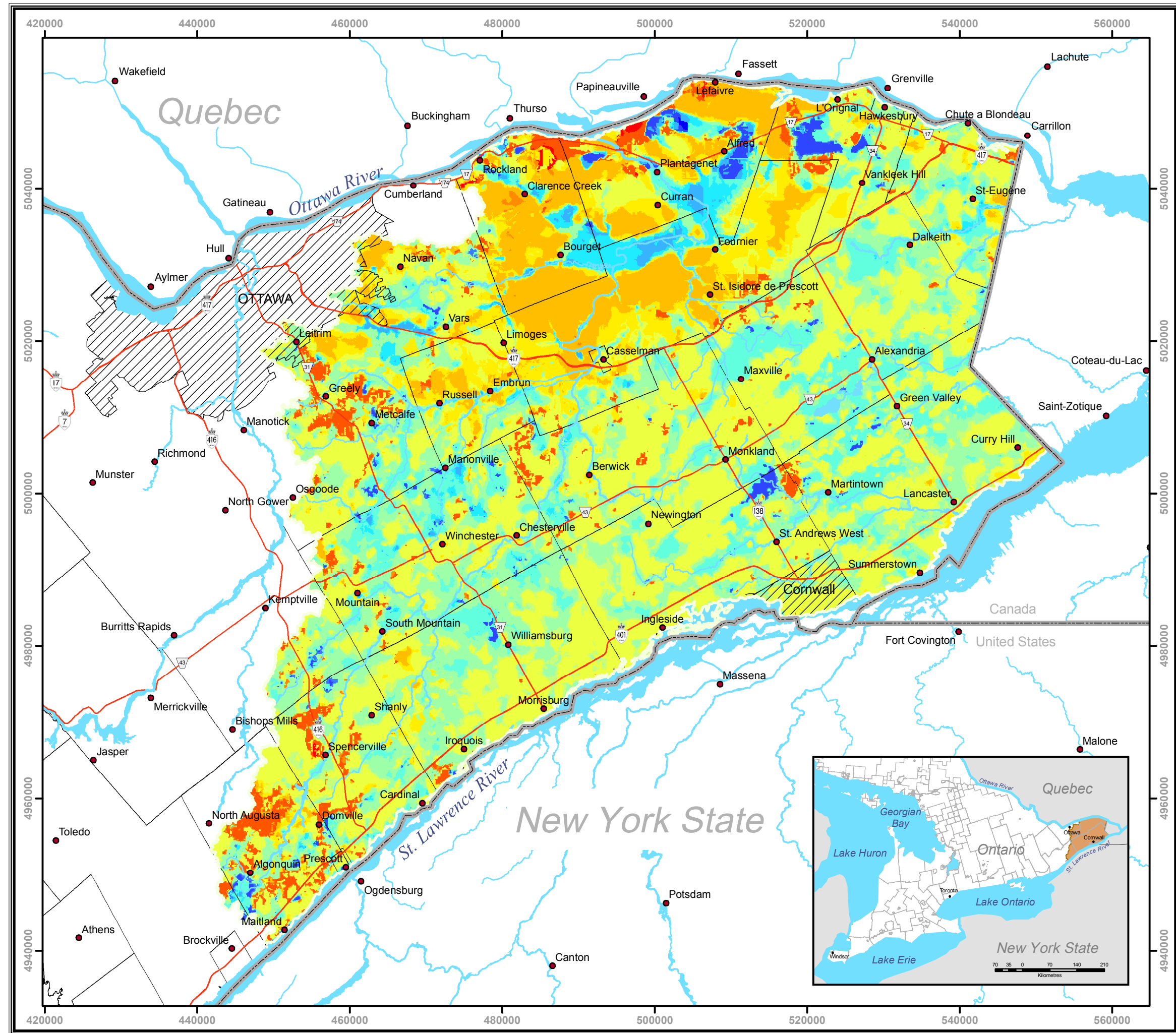
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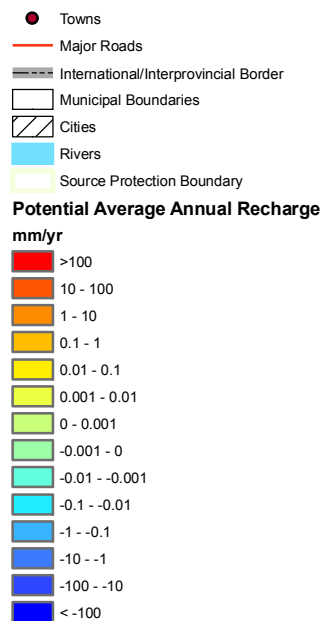
Cette carte est également disponible en français.: Title (French)



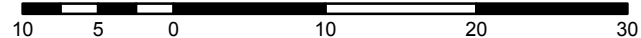
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Map 27

Average Annual Recharge to the Contact Zone Aquifer



1:500,000



North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Jan 11, 2006
Version: 0.3 Draft
Revision: REV.01 - January 22, 2008
Produced for: Water Budget Draft Report
Chapter:
Project: \127 Potential Average Annual Recharge to the Contact Zone Aquifer.mxd

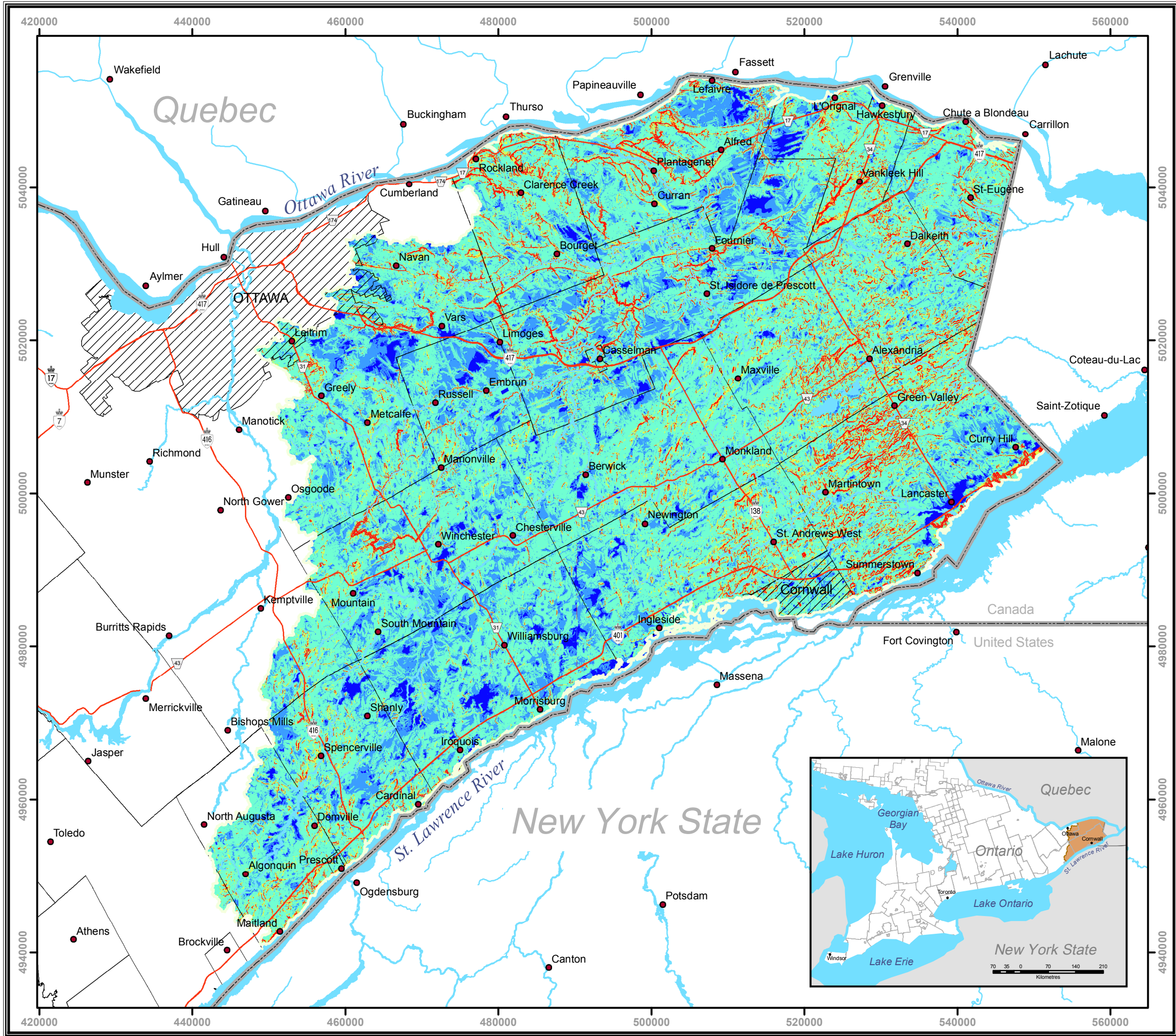
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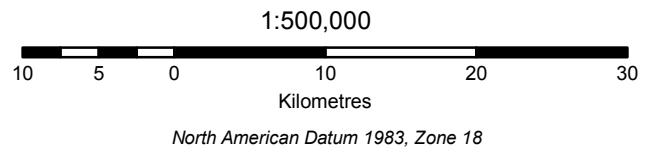
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Map 28 Land Slope Classes

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Land Slope Factor

- 0.05
- 0.1
- 0.15
- 0.2
- 0.25
- 0.3



Created By: J.P.
Date Produced: Jan 11, 2006
Version: 0.3 Draft
Revision: REV.01 - Oct. 26, 2006
Produced for: Water Budget Draft Report
Chapter:
Project: \128 Land Slope Classes.mxd

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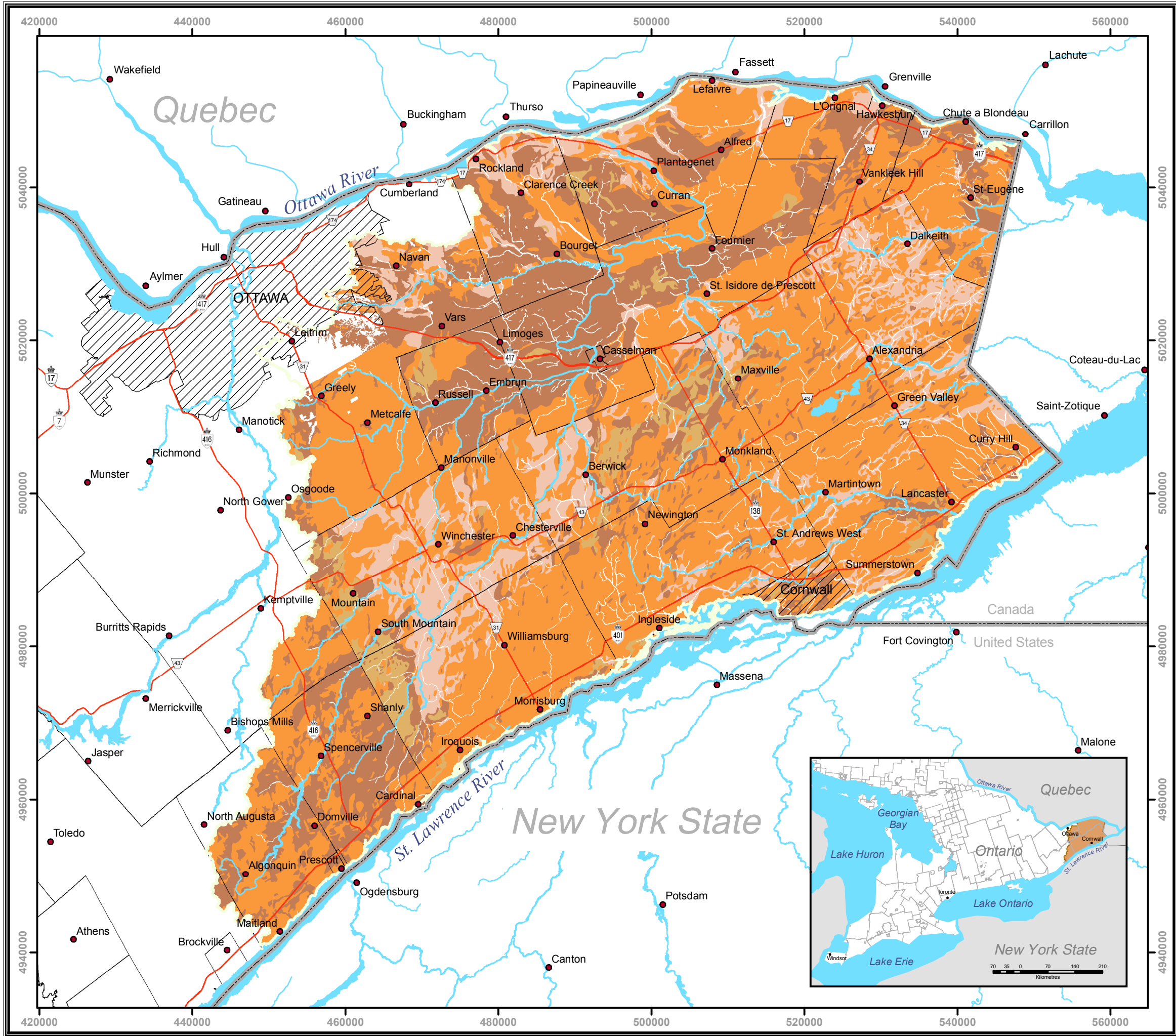
The source/base data is known to be the best available information provided through the Ontario Geospatial Data Exchange and by Ontario Ministry of Natural Resources, Ontario Ministry of Environment, Conservation Ontario and local Municipalities.

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Map 29

Soil Permeability Classes

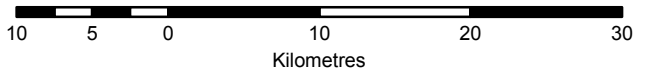
- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Soil Permeability Factor

- No Data
- 0.1
- 0.2
- 0.3
- 0.4



1:500,000



North American Datum 1983, Zone 18

Created By: J.P.
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Version: 0.3 Draft
Revision: REV.01 - Oct. 26, 2006
Produced for: Water Budget Draft Report
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Project: \29 Soil Permeability Classes.mxd

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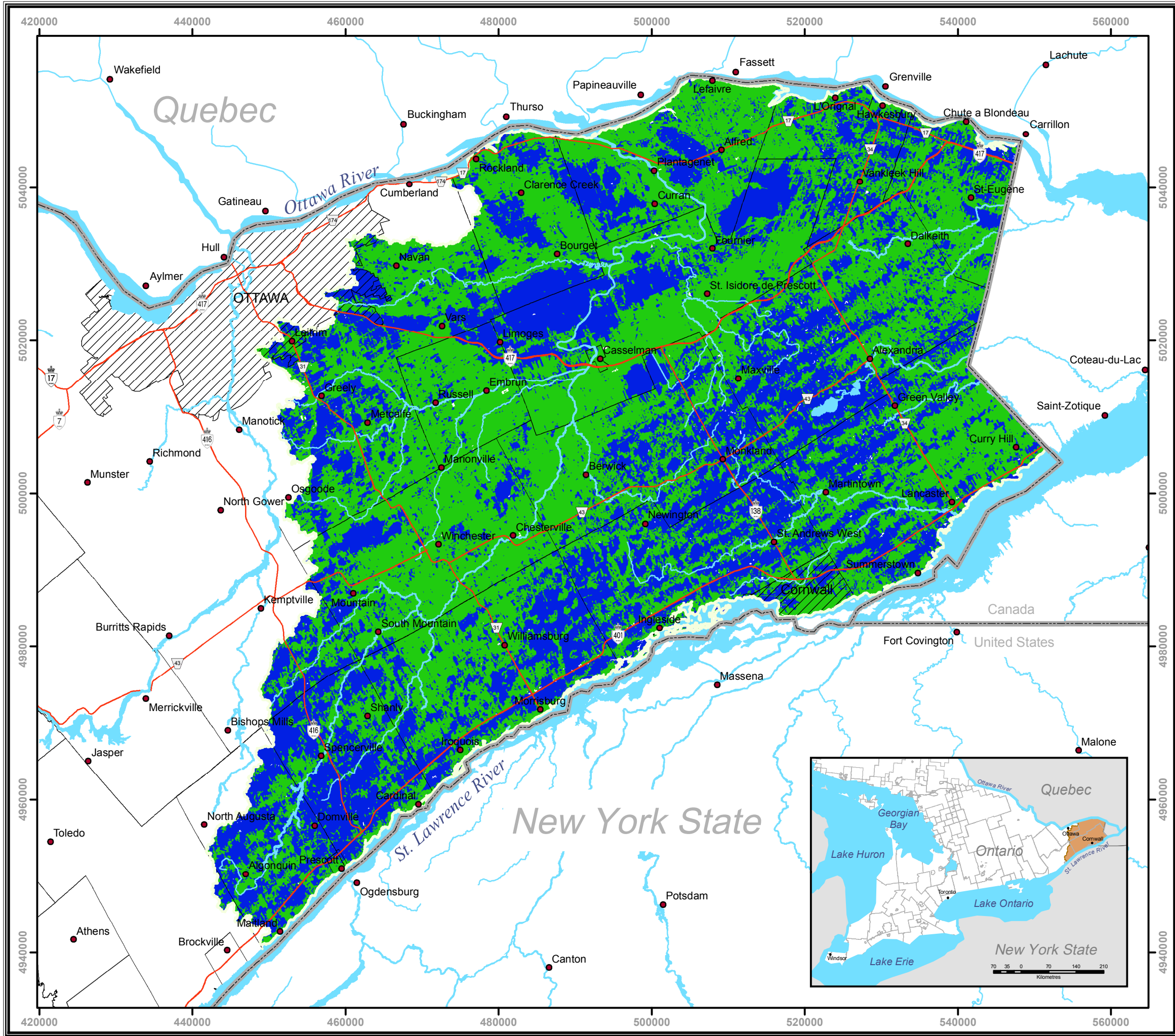
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Map 30 Land Cover Classes

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Land Cover Factor

- 0.1
- 0.2



1:500,000

10 5 0 10 20 30
Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Jan 11, 2006
Version: 0.3 Draft
Revision: REV.01 - Oct. 26, 2006
Produced for: Water Budget Draft Report
Chapter:
Project: \\30 Land Cover Classes.mxd

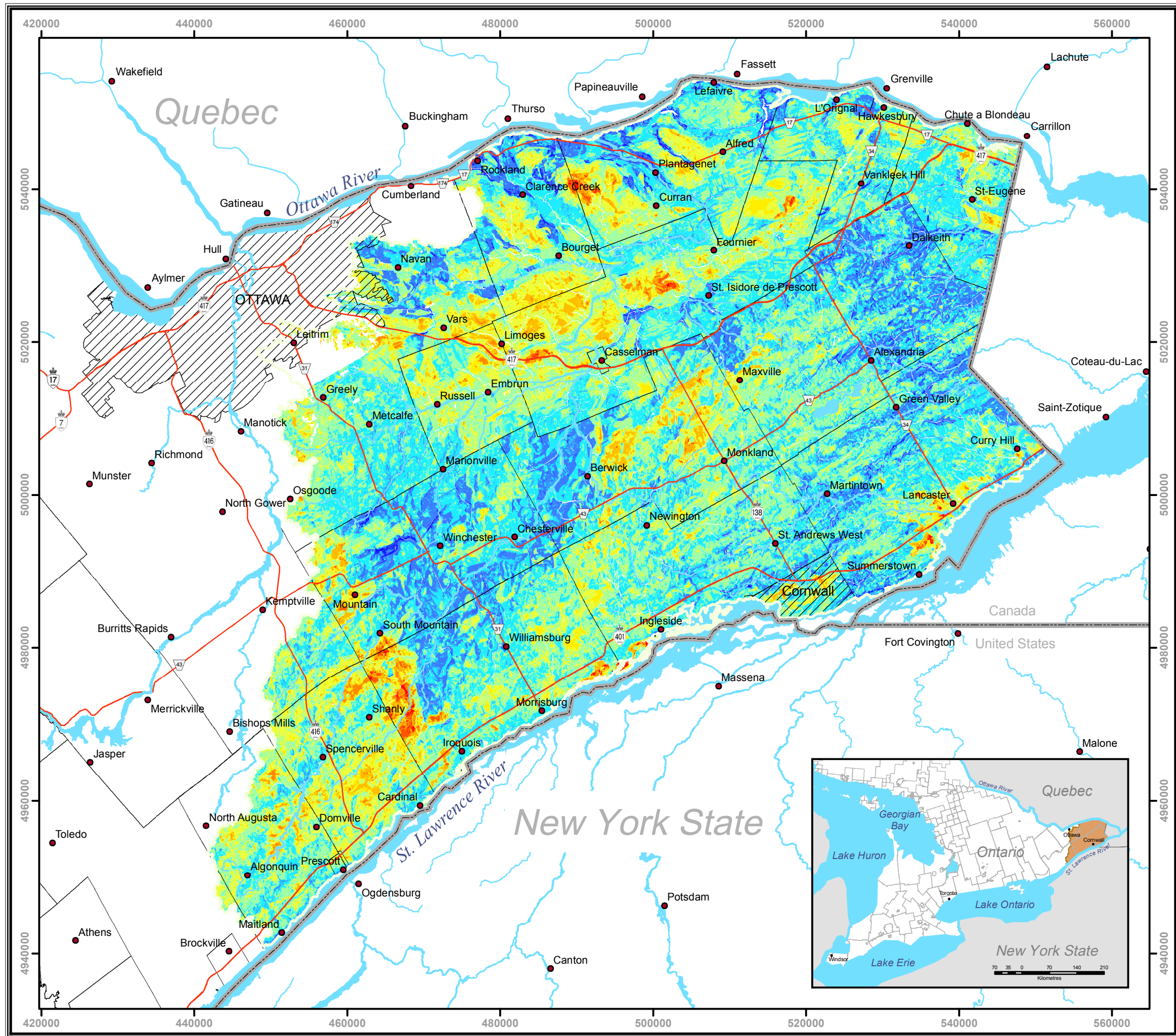
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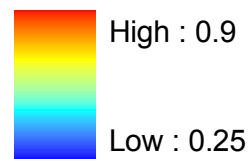
Map 31

Groundwater Recharge Coefficient

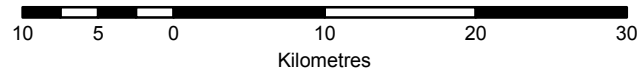
- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Recharge Coefficient

Value



1:500,000



North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Jan 11, 2006
Version: 0.3 Draft
Revision: REV.01 - Oct. 26, 2006
Produced for: Water Budget Draft Report
Chapter:
Project: \\31 Groundwater Recharge Coefficient.mxd

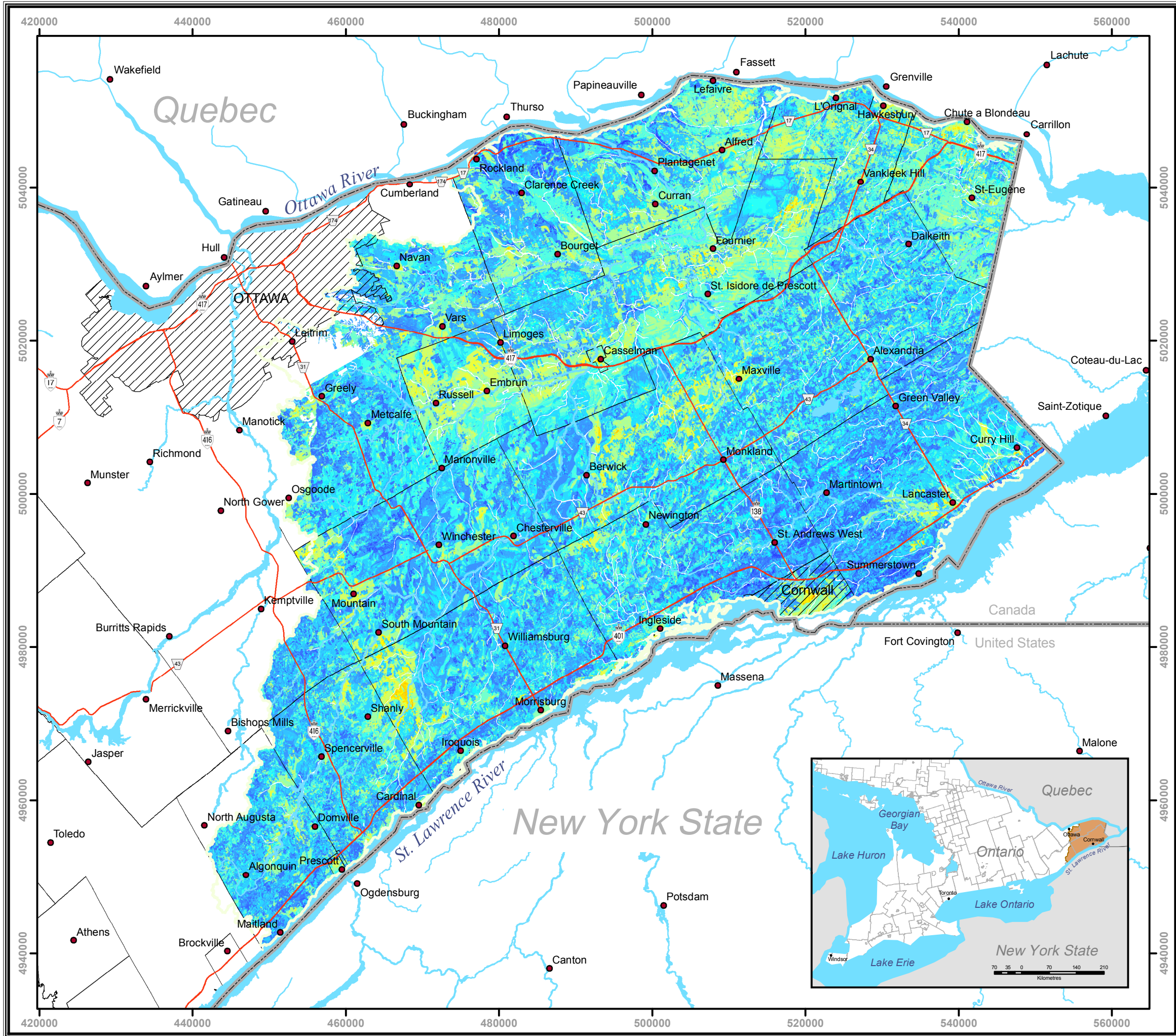
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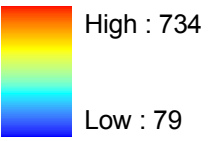
Map 32

Average Annual Groundwater Recharge (Overburden and Contact Zone Aquifers)

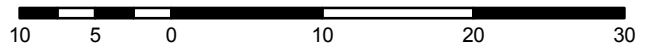
- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Potential Groundwater Recharge

Value



1:500,000



North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Jan 11, 2006
Version: 0.3 Draft
Revision: REV.01 - Oct. 26, 2006
Produced for: Water Budget Draft Report
Chapter:
Project: \\32 Average Annual Groundwater Recharge .mxd

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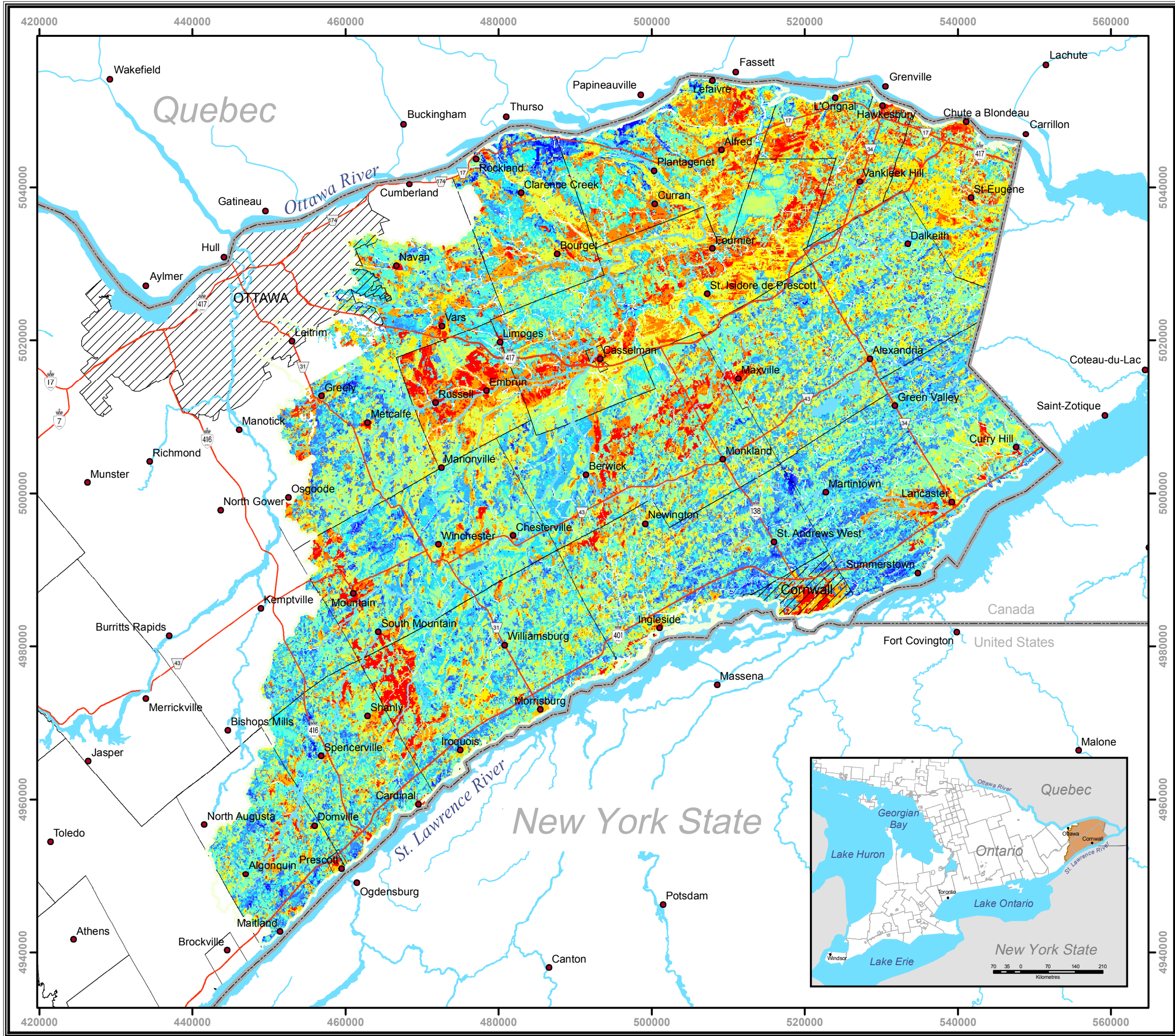
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Map 33

Average Annual Recharge to the Overburden Aquifers

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Average Annual Recharge Value

High : 669.863
Low : 2.22247



1:500,000
10 5 0 10 20 30
Kilometres
North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Jan 11, 2006
Version: 0.3 Draft
Revision: REV.01 - January 22, 2008
Produced for: Water Budget Draft Report
Chapter:
Project: \\33 Average Annual Recharge to the Overburden Aquifers .mxd

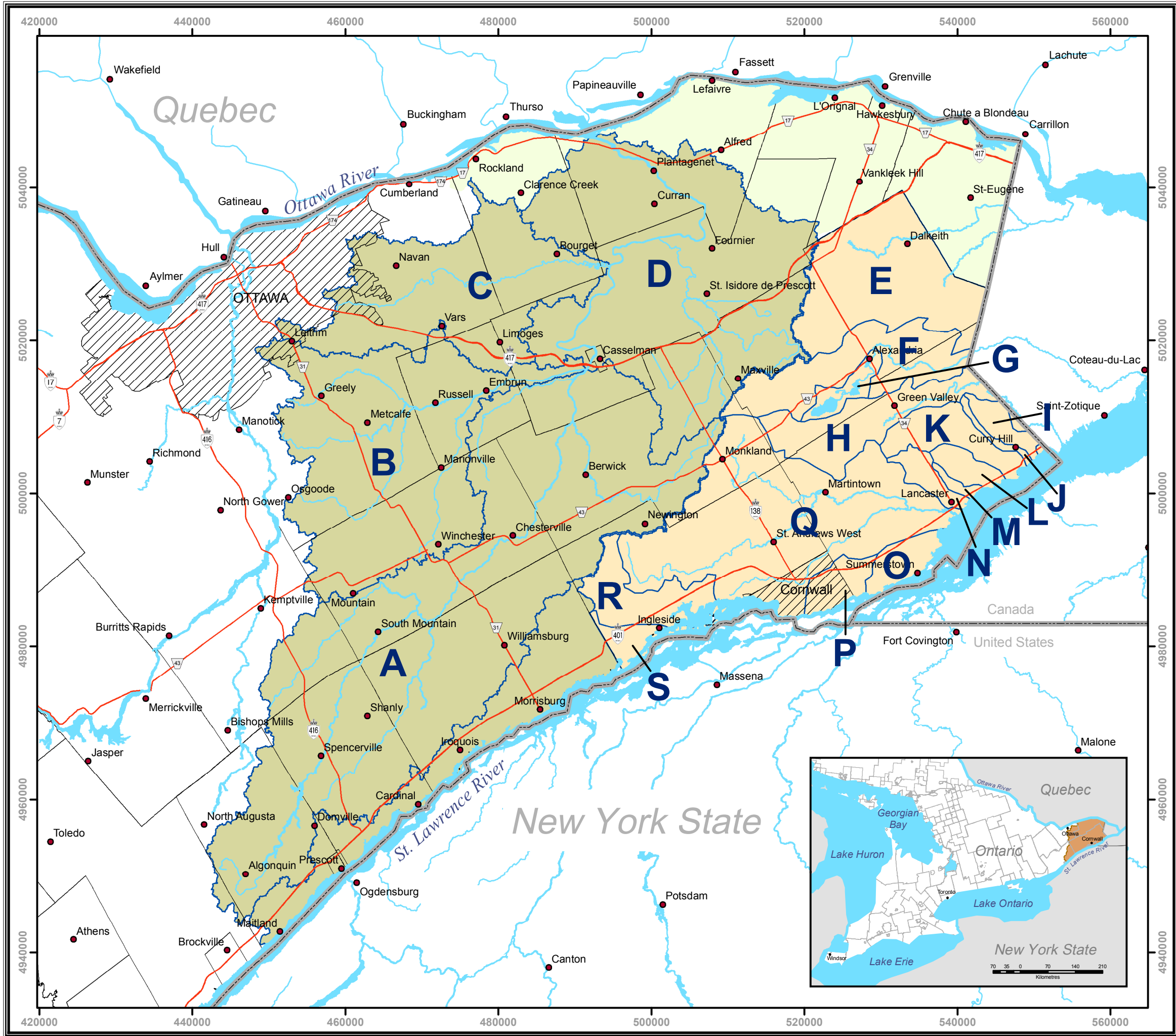
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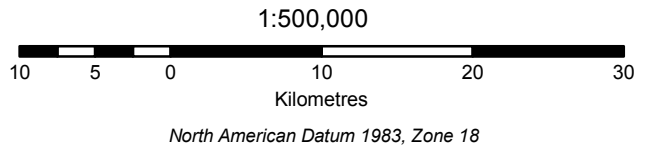
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Map 34 Subwatersheds

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary
- Subwatershed Boundary
- South Nation Conservation
- Raisin Region Conservation Authority



Created By: J.P.
Date Produced: Nov. 11, 2006
Version: 0.3 Draft
Revision: REV.01 - January 23, 2008
Produced for: Water Budget Draft Report
Chapter:
Project: \\34 Subwatersheds.mxd

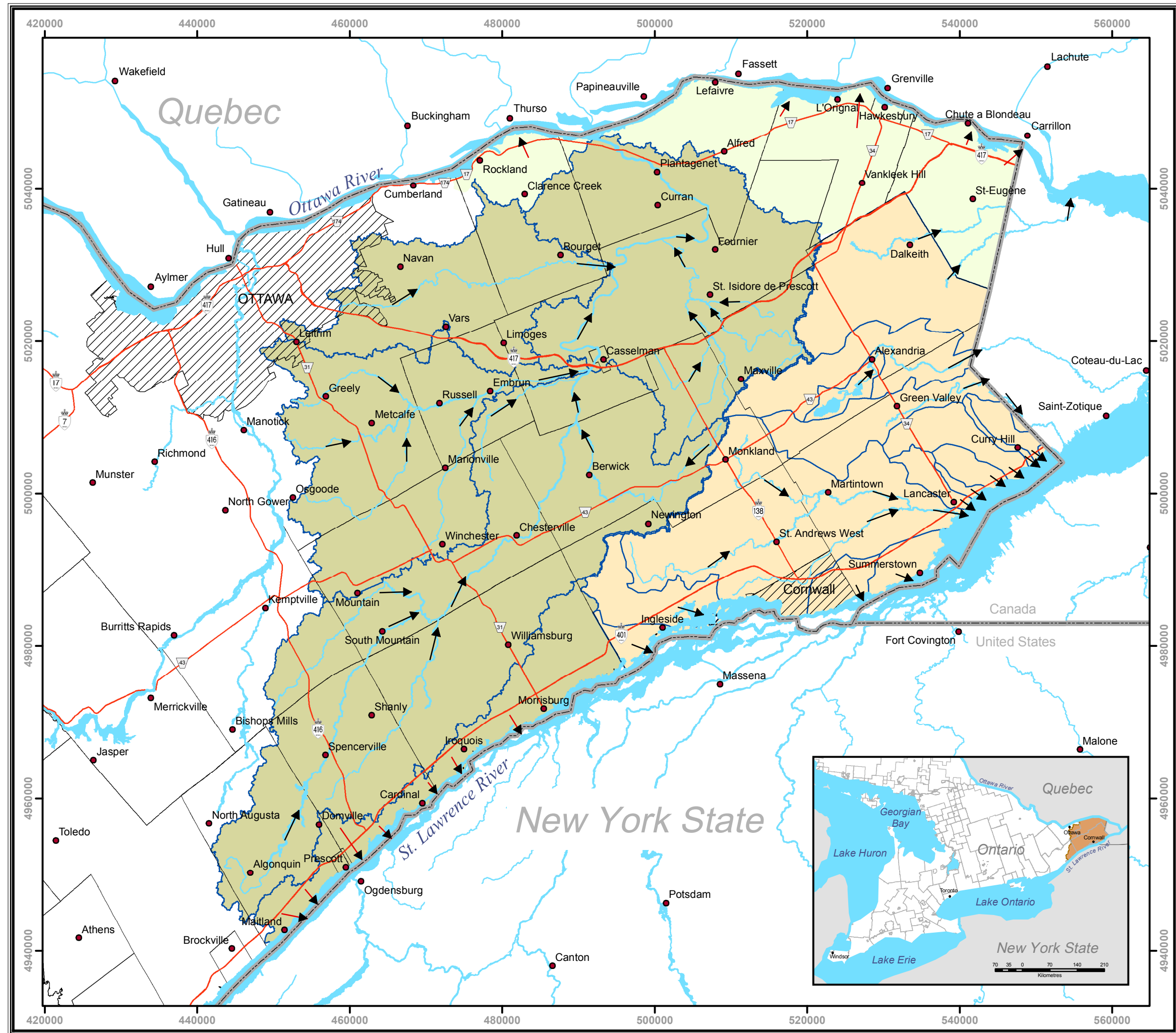
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Map 35

Subwatersheds and General Flow Direction

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary
- Subwatershed Boundary
- South Nation Conservation
- Raisin Region Conservation Authority
- Flow direction through known subwatersheds
- Assumed flow direction through small scale subwatersheds



1:500,000

10 5 0 10 20 30
Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Nov. 12, 2006
Version: 0.3 Draft
Revision: REV.01 - January 23, 2008
Produced for: Water Budget Draft Report
Chapter:
Project: \135 Subwatersheds and General Flow Direction.mxd

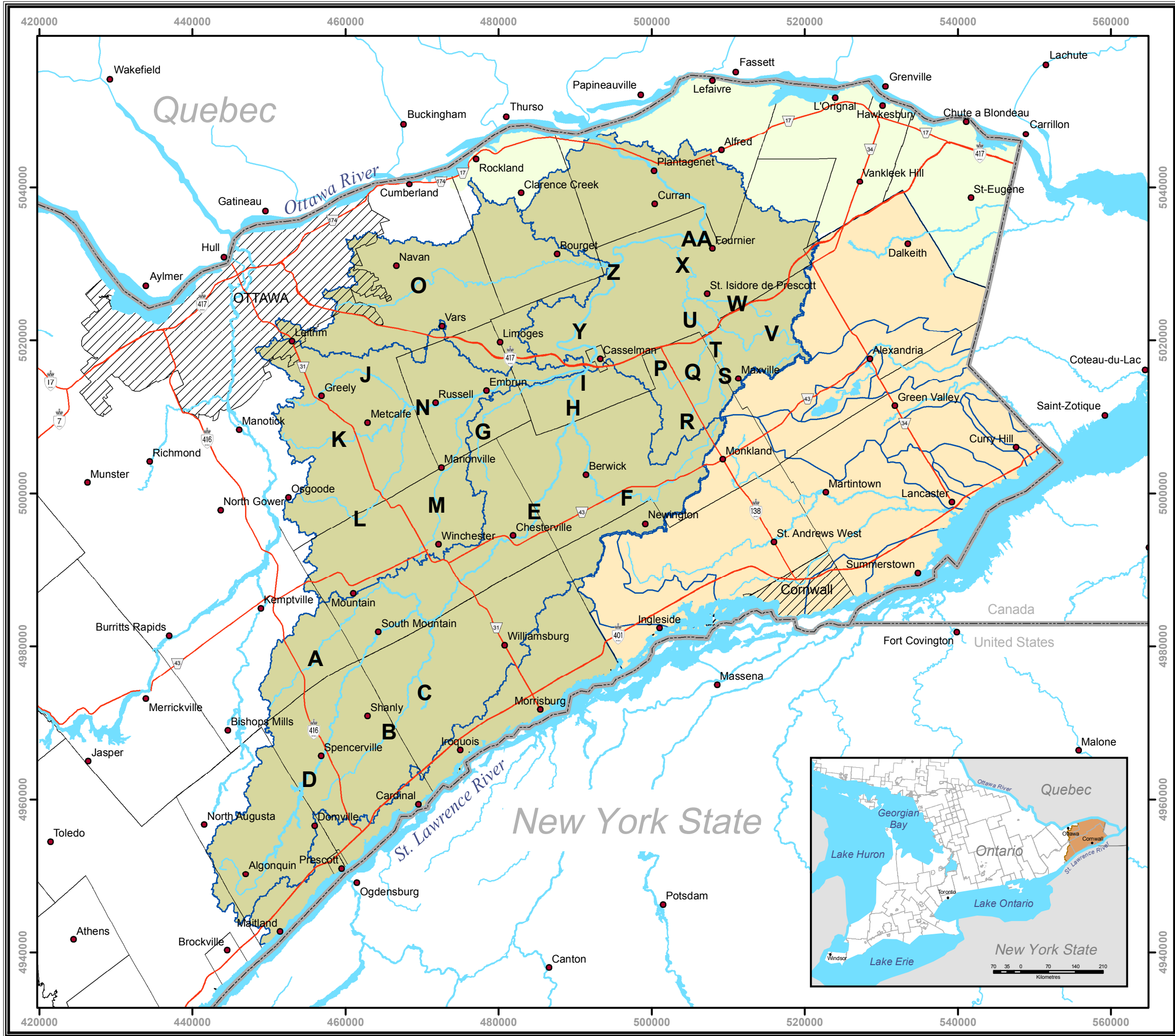
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Map 36

Major River Reaches in the South Nation River Watershed

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary
- Subwatershed Boundary
- South Nation Conservation
- Raisin Region Conservation Authority



1:500,000

10 5 0 10 20 30

Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Nov. 12, 2006
Version: 0.3 Draft
Revision: REV.01 - January 23, 2008
Produced for: Water Budget Draft Report
Chapter:
Project: \\36 Major River Reaches in the South Nation River Watershed.mxd

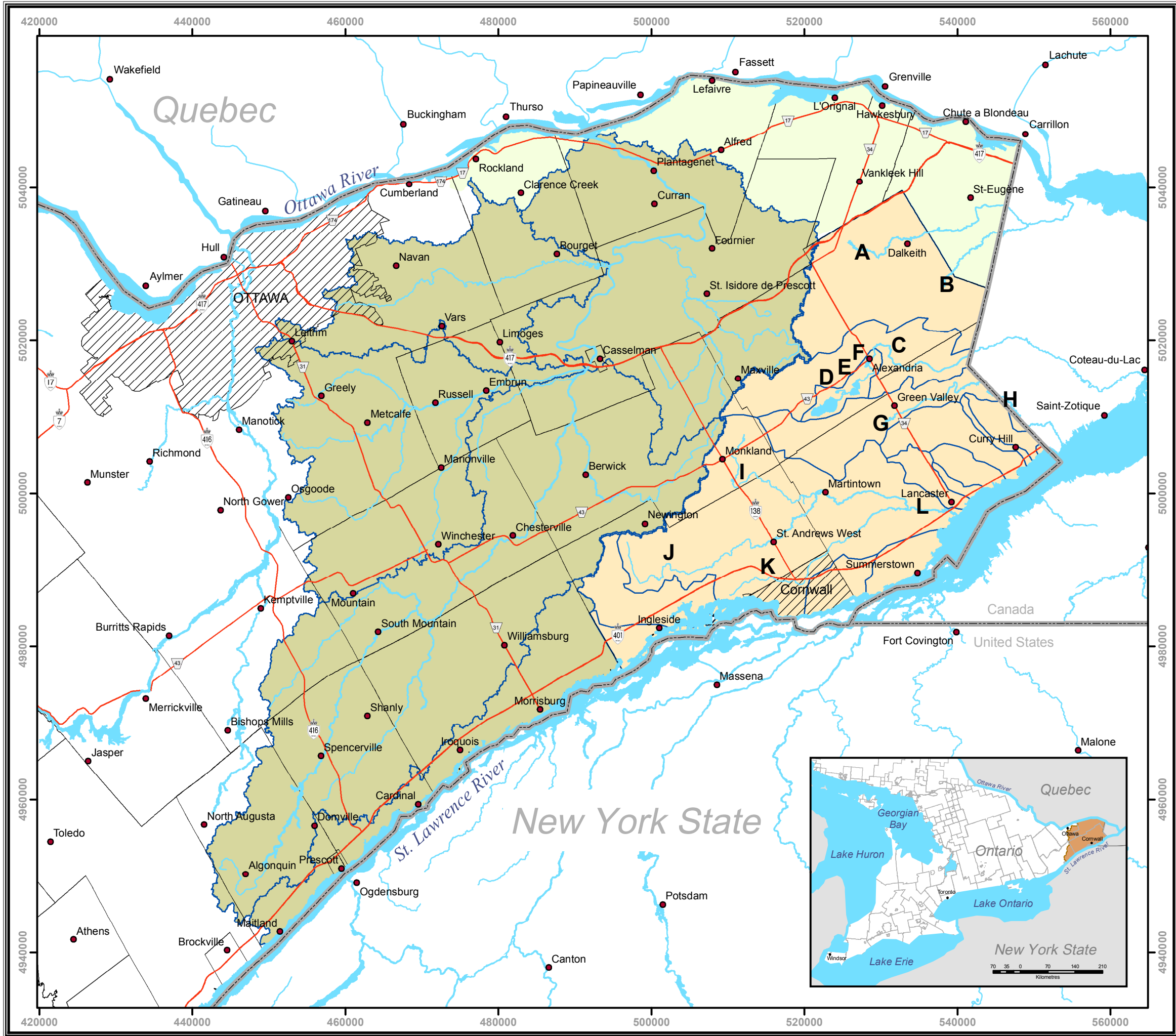
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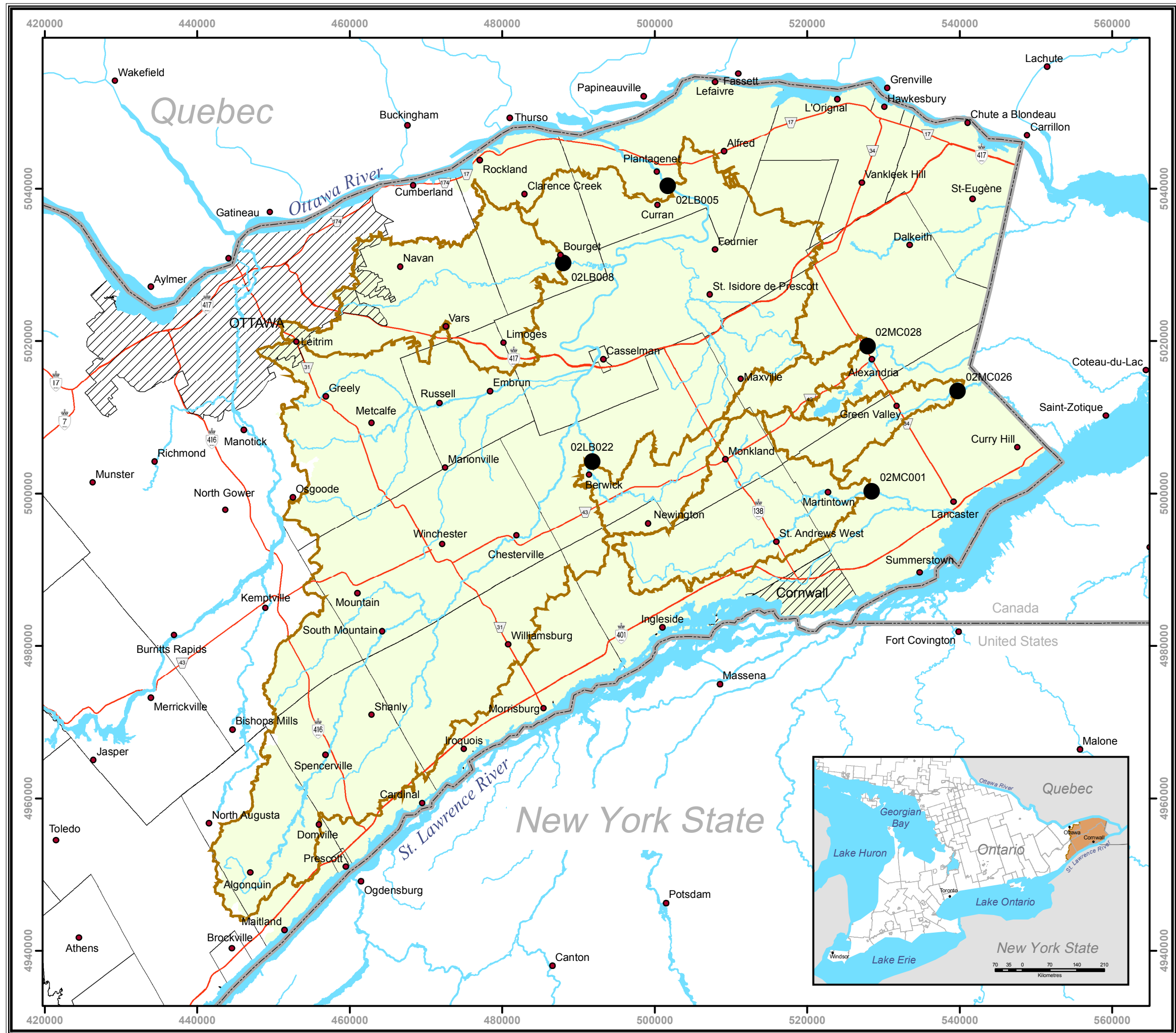
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Map 38

Approximate Drainage Divides of Selected WSC Stream Gauges

- Towns
- WSC Stations
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary
- Drainage Divide

The drainage divide for station 02LB005 also includes the area for station 02LB008.



1:500,000

10 5 0 10 20 30
Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Sept 26, 2006
Version: 0.3 Draft
Revision: REV.01 - January 23, 2008
Produced for: Water Budget Draft Report
Chapter:
Project: \\38 Approximate Drainage Divides of Selected WSC Stream Gauges.mxd

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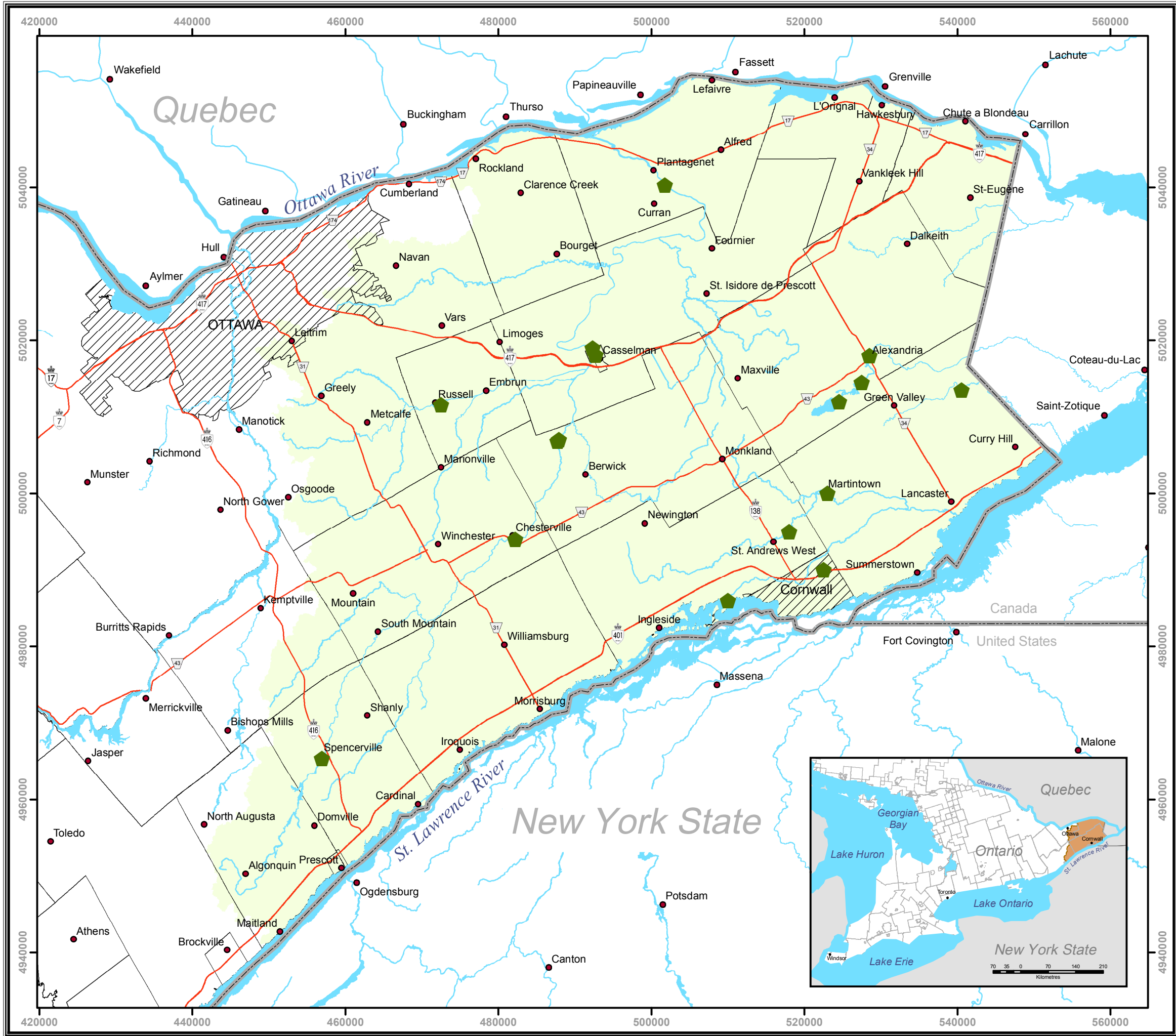
Additional data was provided by other provincial or municipal agencies and clearing houses.

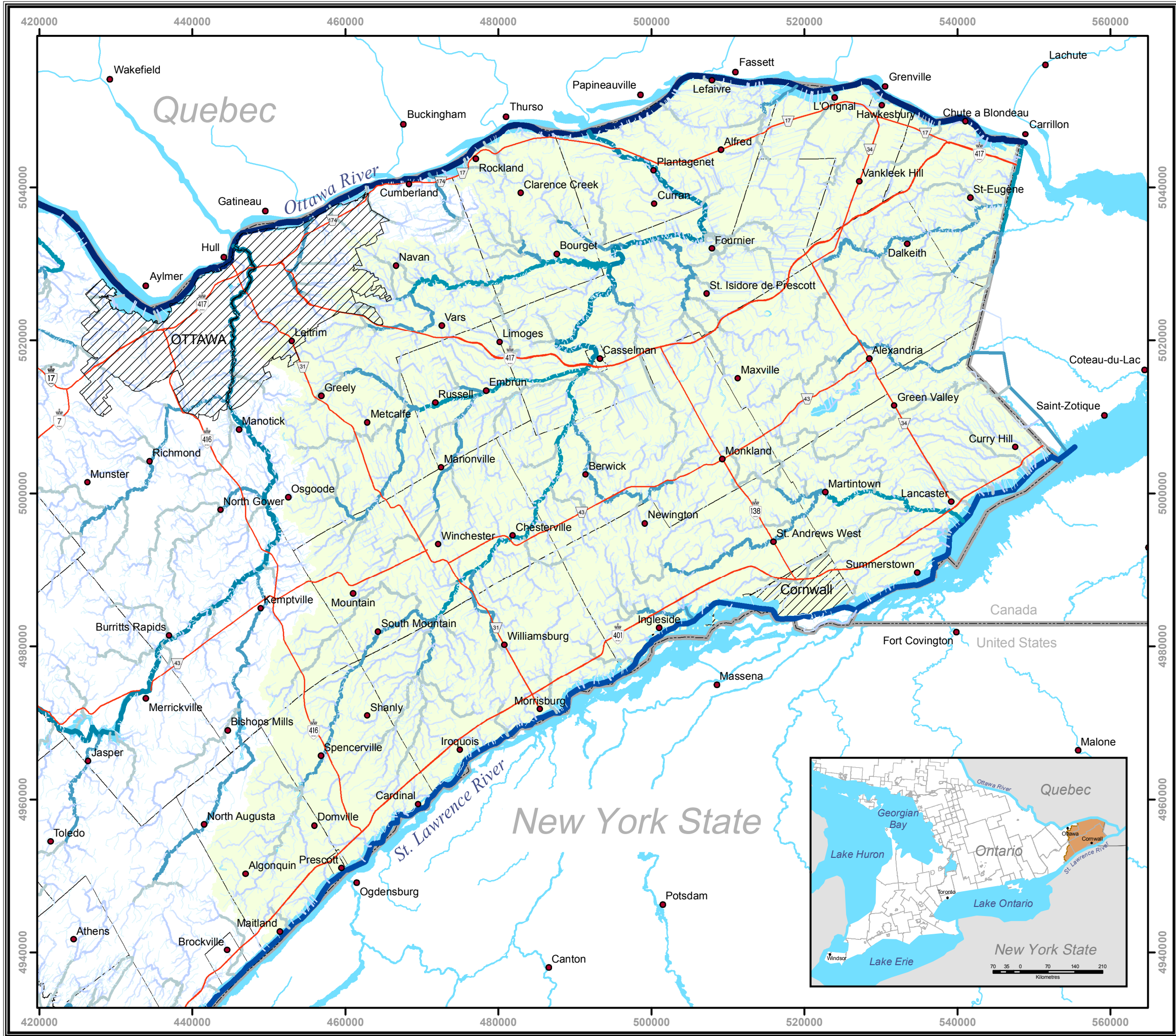
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Original mapping by WESA/EarthFX (RRCA/SNC Preliminary Watershed Characterization - Figure 46).

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Map 40

Strahler Stream Classification

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Proposed Source Protection Boundary

Strahler Stream Class

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9



1:500,000

10 5 0 10 20 30
Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Nov. 14, 2006
Version: 0.3 Draft
Revision: REV.01 - January 23, 2008
Produced for: Water Budget Draft report
Chapter:
Project: \40 Strahler Stream Classification.mxd

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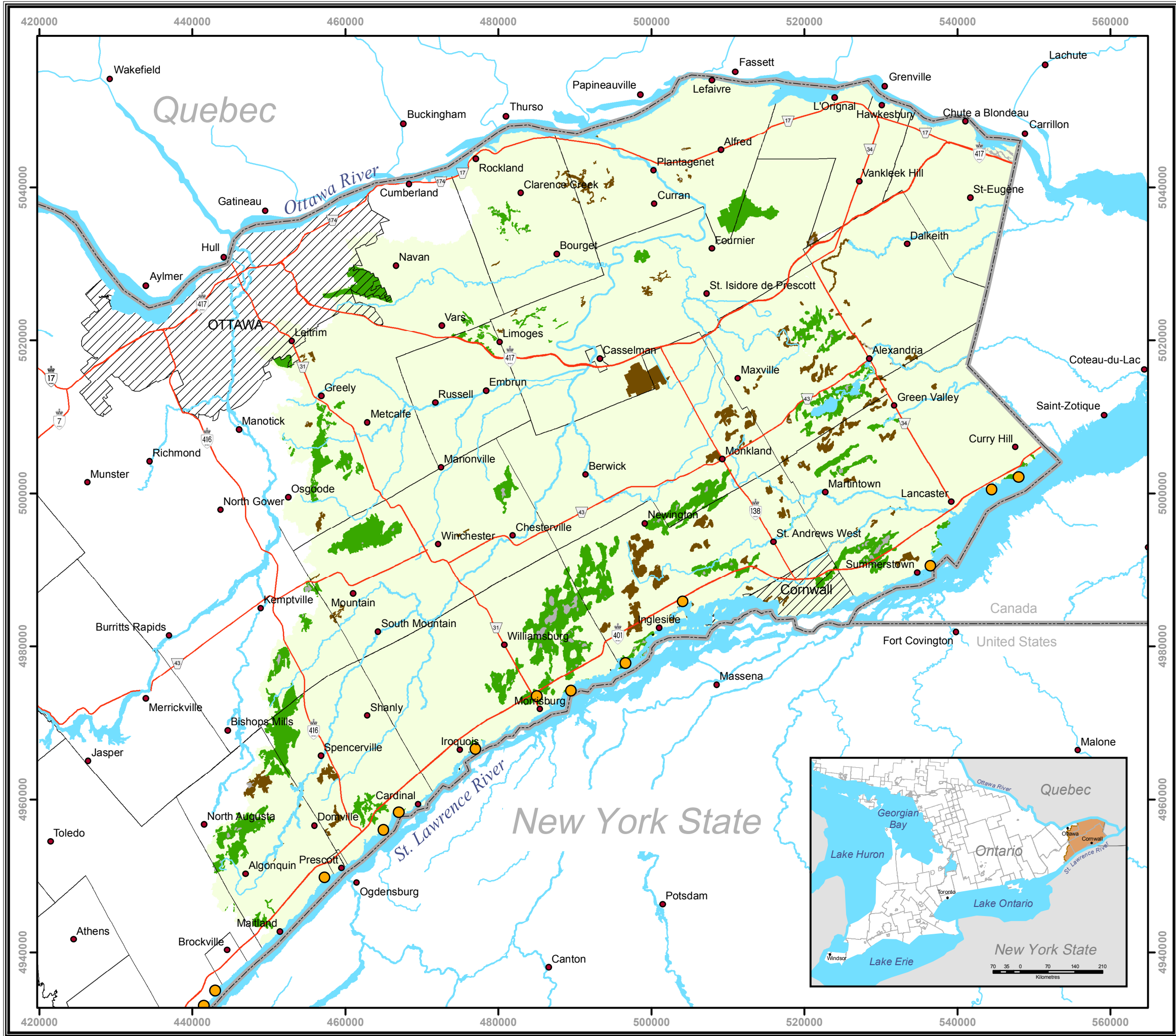
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Original mapping by WESA/Earthfx (RRCA/SNC Preliminary Watershed Characterization - Figure 43)

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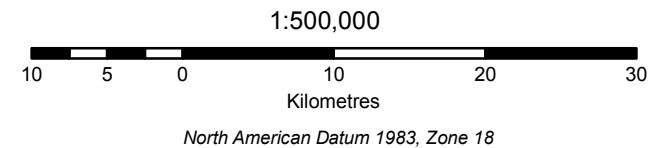


SOUTH NATION
CONSERVATION
DE LA NATION SUD

Map 42

Significant Wetlands

- Towns
 - Coastal Wetlands
 - Major Roads
 - International/Interprovincial Border
 - Municipal Boundaries
 - ▨ Cities
 - Rivers
 - Source Protection Boundary
- Wetland Significance**
- Locally Significant Wetlands
 - Provincially Significant Wetlands
 - Undefined Wetlands



Created By: J.P.
Date Produced: June 15, 2005
Version: 0.3 Draft
Revision: REV.01 - January 23, 2008
Produced for: Water Budget Draft Report
Chapter:
Project: \42 Significant Wetlands.mxd

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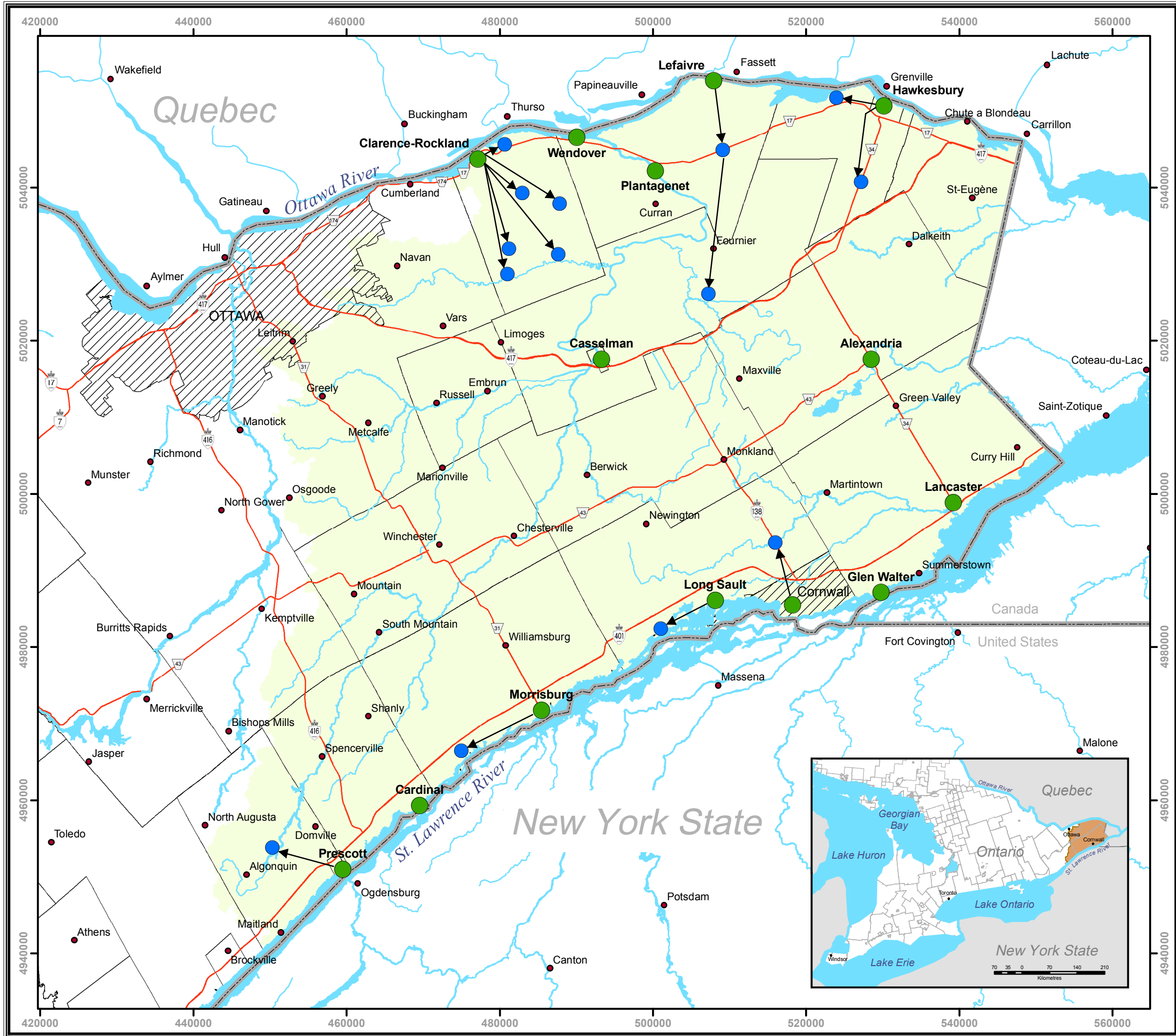
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SOUTH NATION
CONSERVATION
DE LA NATION SUD

Map 43

Municipally Served Settlements (Surface Water)

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary
- Municipally Served Settlements (Surface Water)**
 - Primary Service Area
 - Secondary Service Area



1:500,000

10 5 0 10 20 30

Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Oct. 2, 2006
Version: 0.3 Draft
Revision: REV.01 - January 23, 2008
Produced for: Water Budget Draft Report
Chapter:
Project: \\43 Municipally Served Settlements (Surface Water).mxd

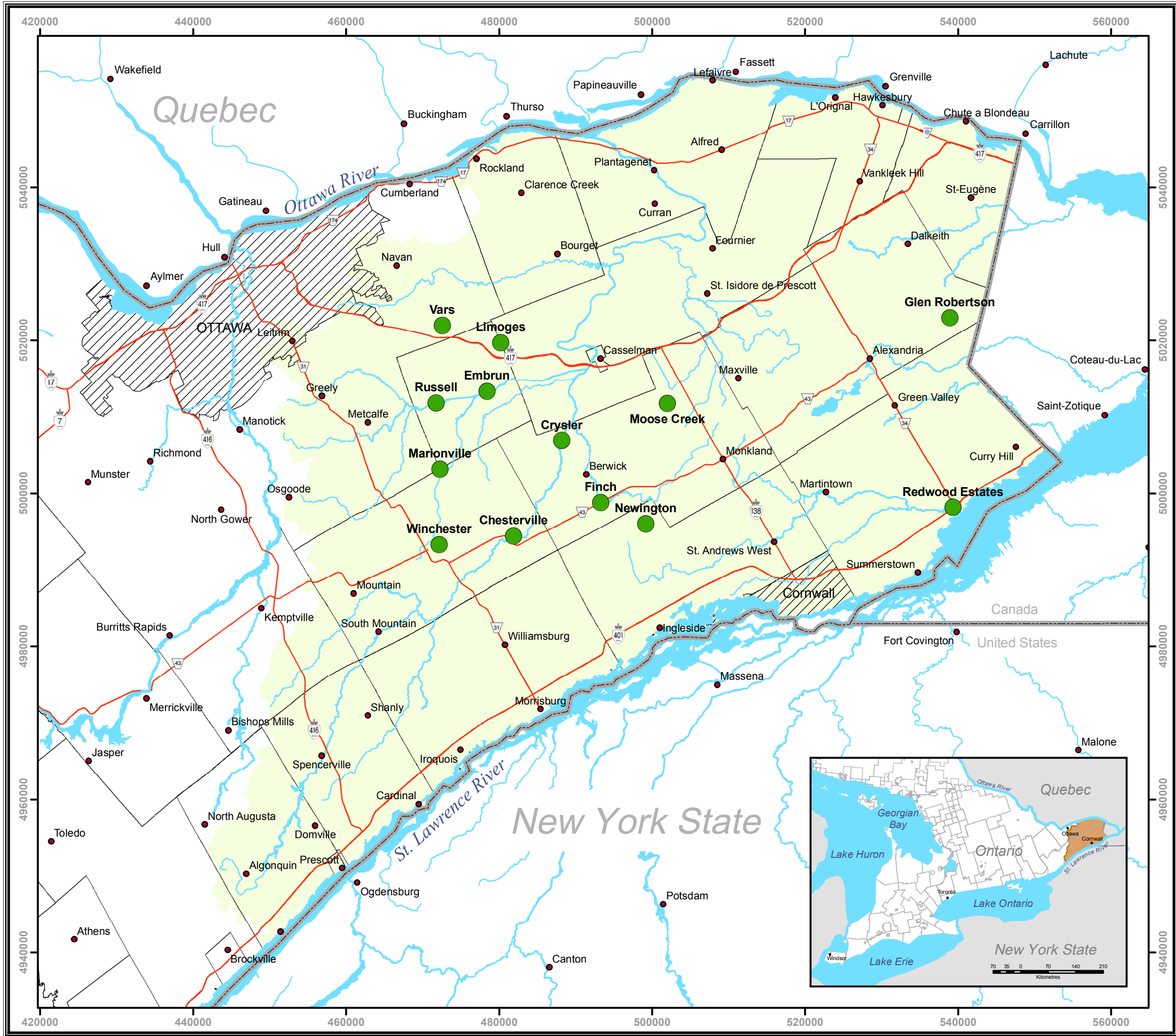
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Map 44

Municipally Served Settlements (Groundwater)

- Towns
- Municipally Served Settlements (Groundwater)
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary



1:500,000

10 5 0 10 20 30

Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Oct. 2, 2006
Version: 0.3 Draft
Revision: REV.01 - January 23, 2008
Produced for: Water Budget Draft Report
Chapter:
Project: \\44 Municipally Served Settlements (Groundwater).mxd

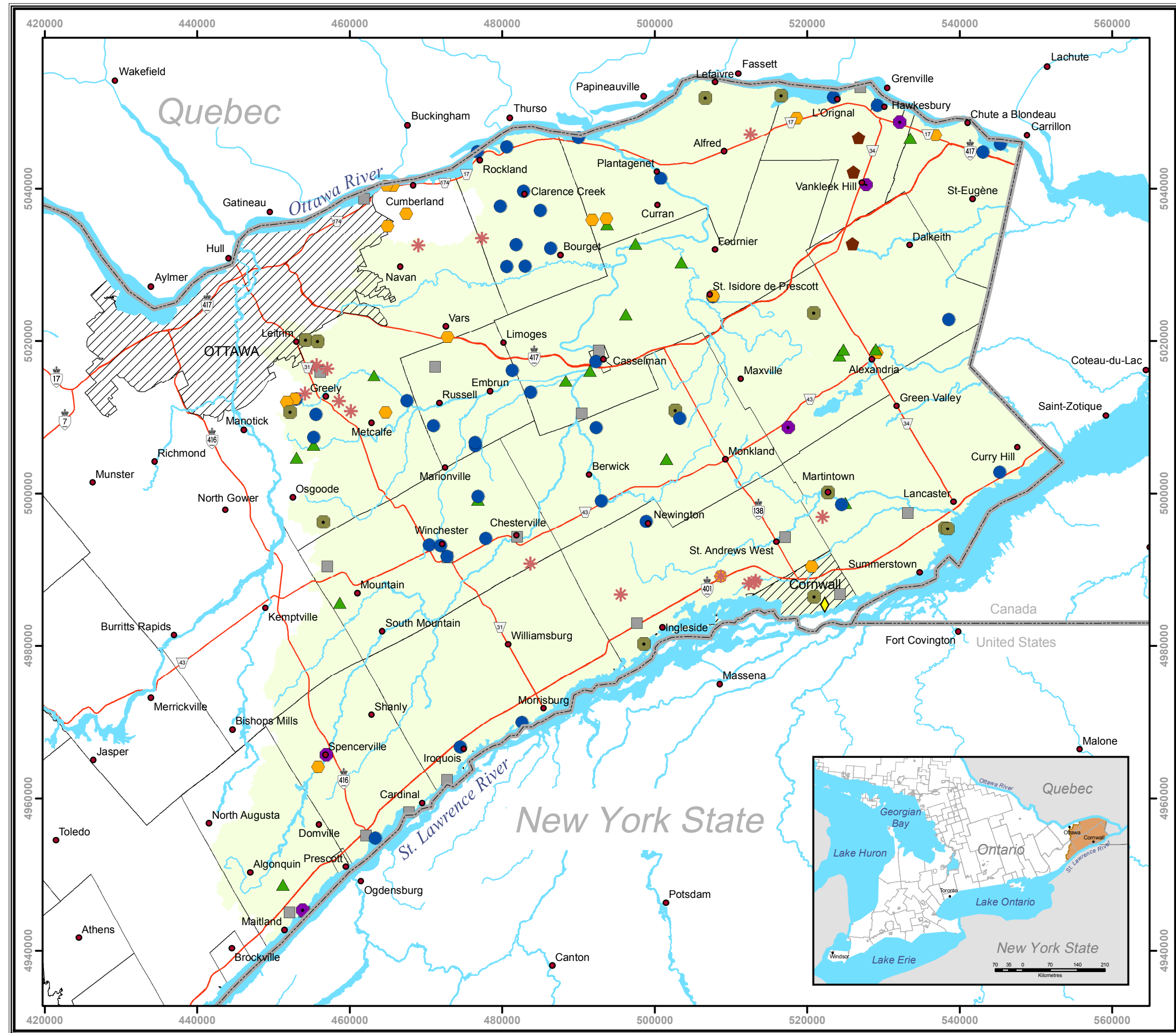
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SOUTH NATION
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Map 45

Permit to Take Water (PTTW) Water Use

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- Cities
- Rivers
- Source Protection Boundary

Water Usage

General Purpose

- ▲ Agricultural
- ⬡ Commercial
- ⬢ Construction
- ✱ Dewatering
- Industrial
- ◆ Institutional
- Miscellaneous
- Remediation
- Water Supply



1:500,000

10 5 0 10 20 30
Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: July 27, 2006
Version: 0.3 Draft
Revision: REV.01 - January 23, 2008
Produced for: Water Budget Draft Report
Chapter:
Project: \45 PTTW Water Use.mxd

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The source/base data is known to be the best available information provided through the Ontario Geospatial Data Exchange and by Ontario Ministry of Natural Resources, Ontario Ministry of Environment, Conservation Ontario and local Municipalities.

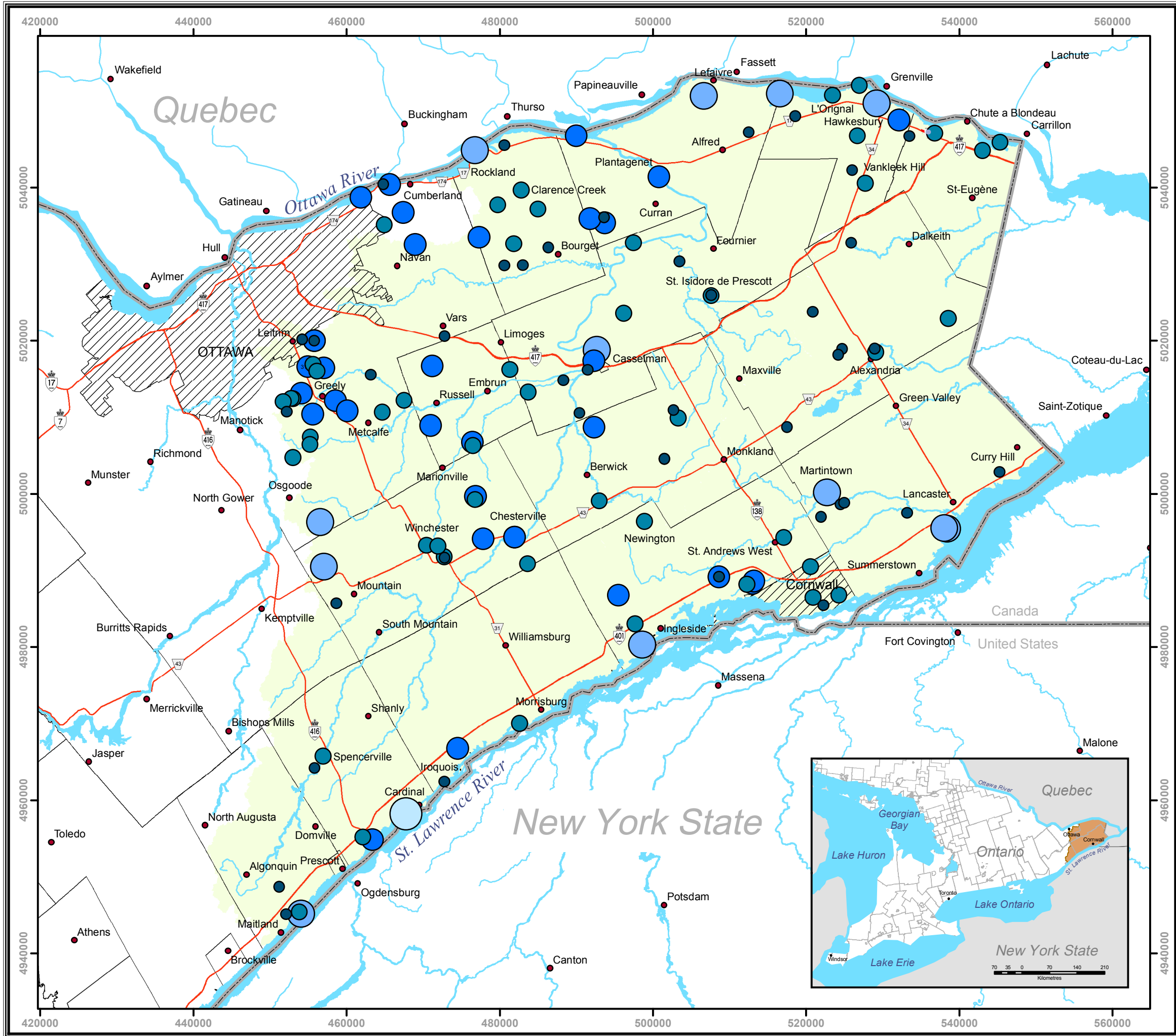
Additional data was provided by other provincial or municipal agencies and clearing houses.

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Original mapping by WESA/EarthFX (RCCA/SNC Preliminary Watershed Characterization - Figure 67).

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SOUTH NATION
CONSERVATION
DE LA NATION SUD

Map 46

Permit to Take Water (PTTW) Water Takings

- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Water Takings

Litres/Day

- 97 - 50000
- 50001 - 500000
- 500001 - 5000000
- 5000001 - 500000000
- 500000001 - 1500000000



1:500,000

10 5 0 10 20 30
Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: July 25, 2006
Version: 0.3 Draft
Revision: REV.01 - January 23, 2008
Produced for: Water Budget Draft Report
Chapter:
Project: \46 PTTW Water Takings.mxd

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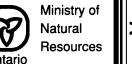
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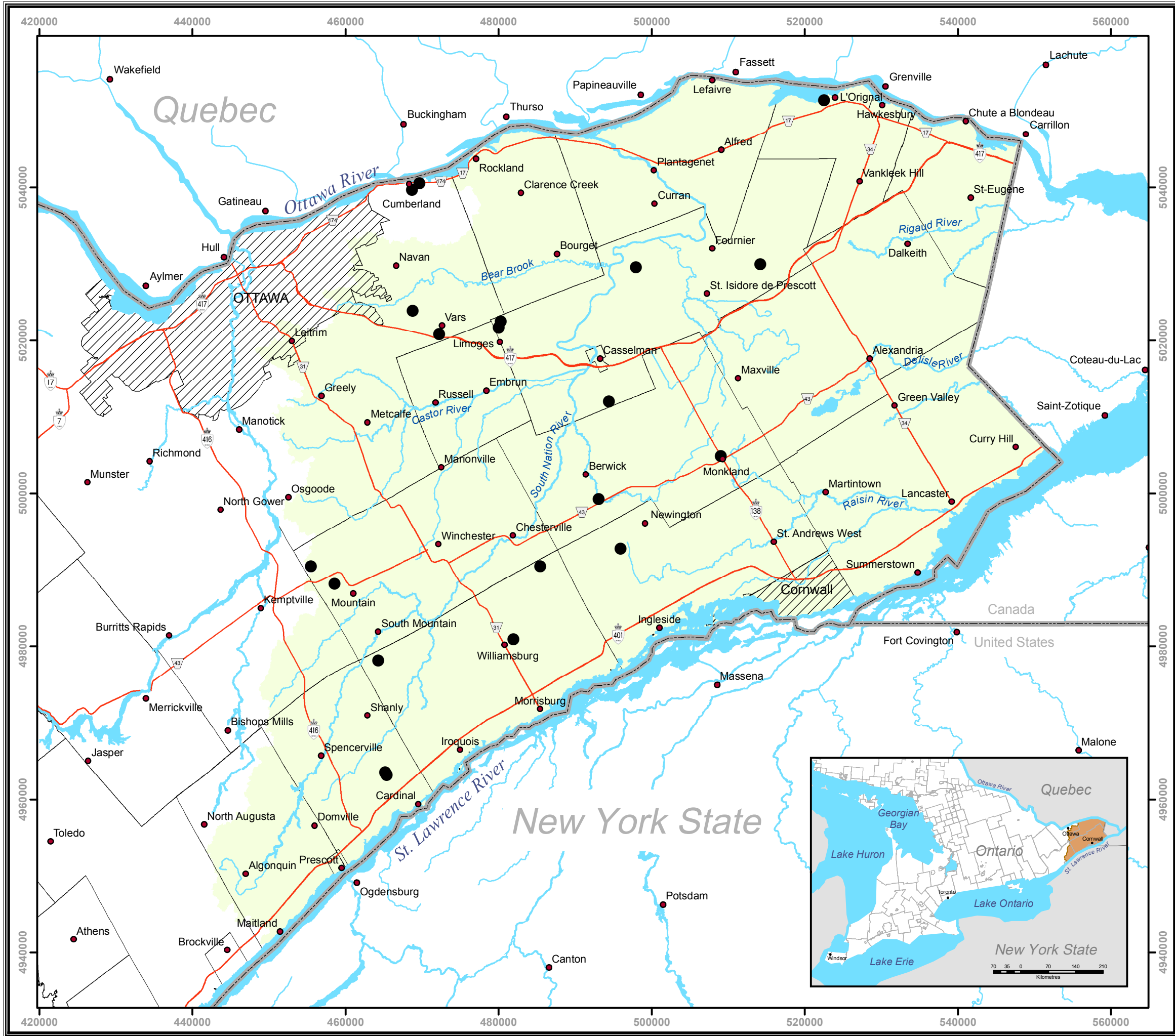
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SOUTH NATION
CONSERVATION
DE LA NATION SUD

Map 47

Documented Water Shortages

- Towns
- Documented Dry Wells 2001
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- Cities
- Rivers
- Source Protection Boundary



1:500,000

10 5 0 10 20 30
Kilometres

North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Nov. 12, 2006
Version: 0.3 Draft
Revision: REV.01 - January 23, 2008
Produced for: Water Budget Draft Report
Chapter:
Project: \\47 Documented Water Shortages.mxd

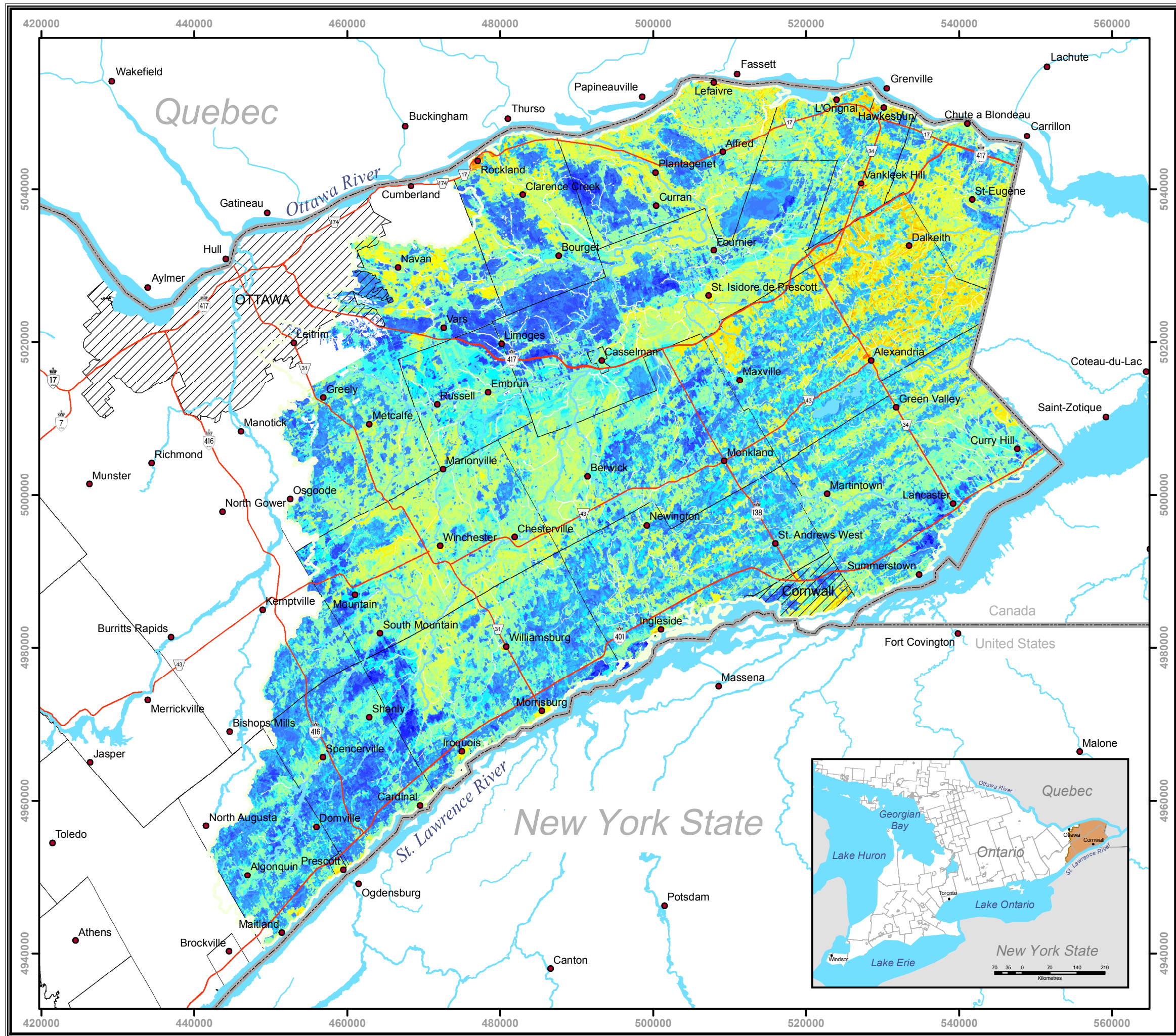
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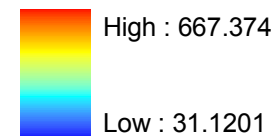
Map 49

Average Annual Runoff

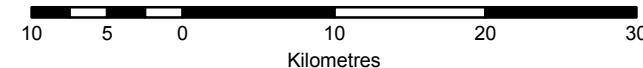
- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Direct Runoff

Value



1:500,000



North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Jan 11, 2006
Version: 0.3 Draft
Revision: REV.01 - January 23, 2008
Produced for: Water Budget Draft Report
Chapter:
Project: \49 Average Annual Runoff.mxd

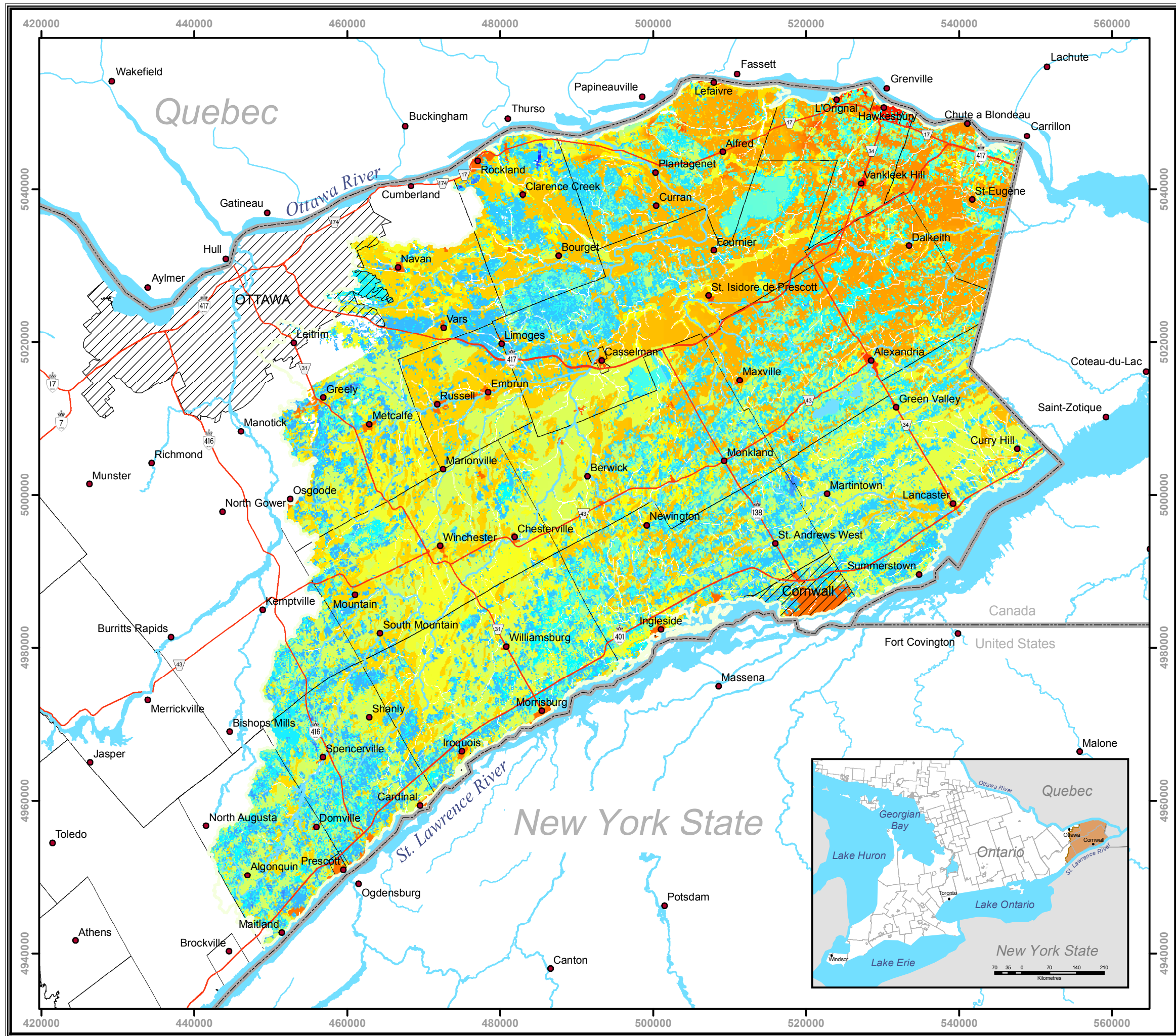
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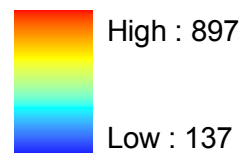
Map 50

Average Annual Runoff and Overburden Recharge

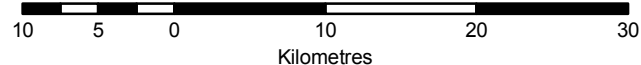
- Towns
- Major Roads
- International/Interprovincial Border
- Municipal Boundaries
- ▨ Cities
- Rivers
- Source Protection Boundary

Runoff

Value



1:500,000



North American Datum 1983, Zone 18

Created By: J.P.
Date Produced: Jan 11, 2006
Version: 0.3 Draft
Revision: REV.01 - January 22, 2008
Produced for: Water Budget Draft Report
Chapter:
Project: \\50 Average Annual Runoff and Overburden Recharge .mxd

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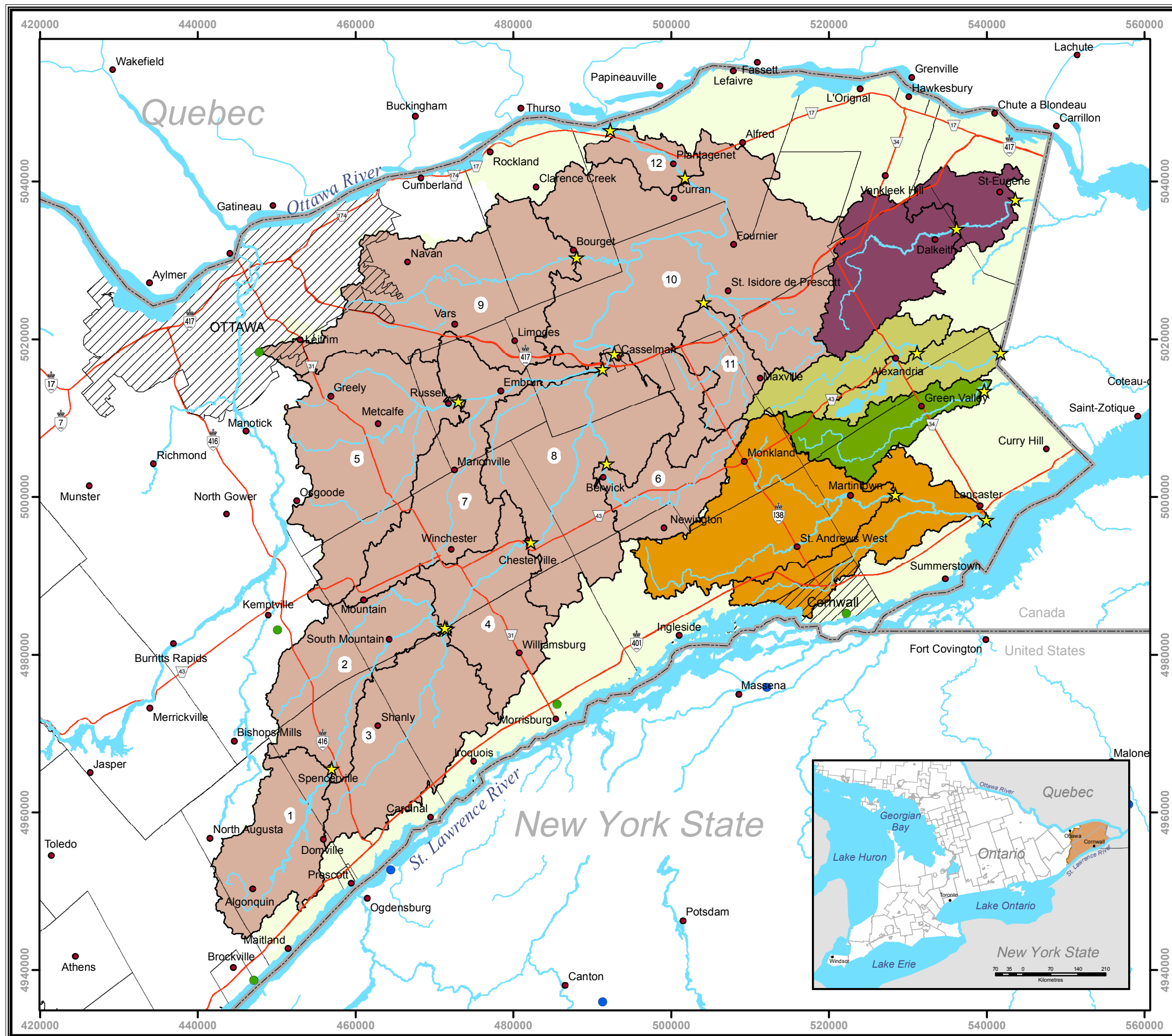
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 Produced for: Water Budget Draft Report
 Chapter:
 Project: \\51 Watersheds for Tier 1 Surface Water Analysis.mxd

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