

Lake Winnipeg Foundation

Building a CBM Network for the Lake Winnipeg basin

Connecting Scientists and Citizens

- Generate credible data for phosphorus concentrations and yields
 - key parameter of interest in Lake Winnipeg Basin
 - credible sampling methods
 - credible analytical procedures
- Pilot project with experienced partners
 - Lake Winnipeg Foundation Science Advisory Council (SAC)
 - Conservation District staff
- Take advantage of existing field infrastructure
 - existing hydrometric network
- Test for compatibility with existing long term data sets
- Share data and value-added information back to CBM partners

Lake Winnipeg Foundation

Building a CBM Network for the Lake Winnipeg basin

Connecting Scientists and Citizens



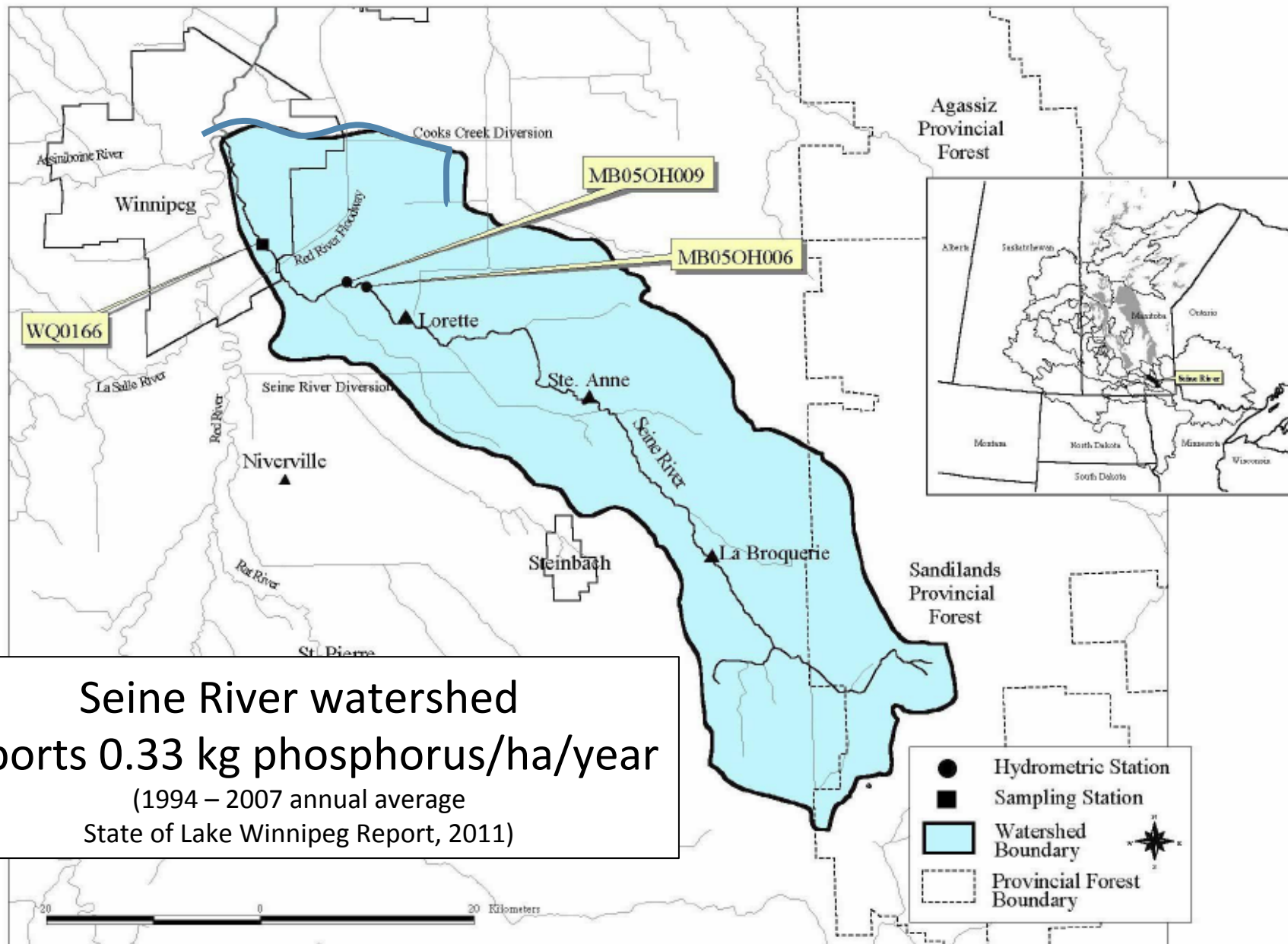


Figure 25. Seine River watershed showing the location of water quality sampling site WQ0166 and hydrometric stations MB05OH006 and MB05OH009 on the Seine River.

Seine at Perimeter Highway
(Provincial station)

Seine at Prairie Grove

Seine Diversion

Manning Canal

Tourond Creek

Seine near Ste. Anne

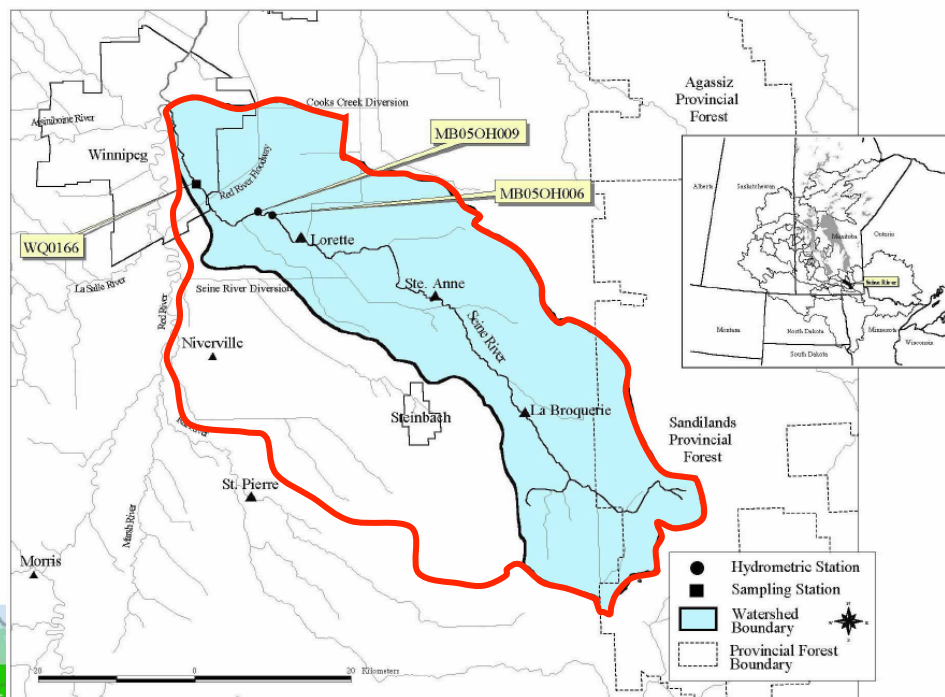
Marchand

Seine River Watershed Area Potential Wildlife Habitat

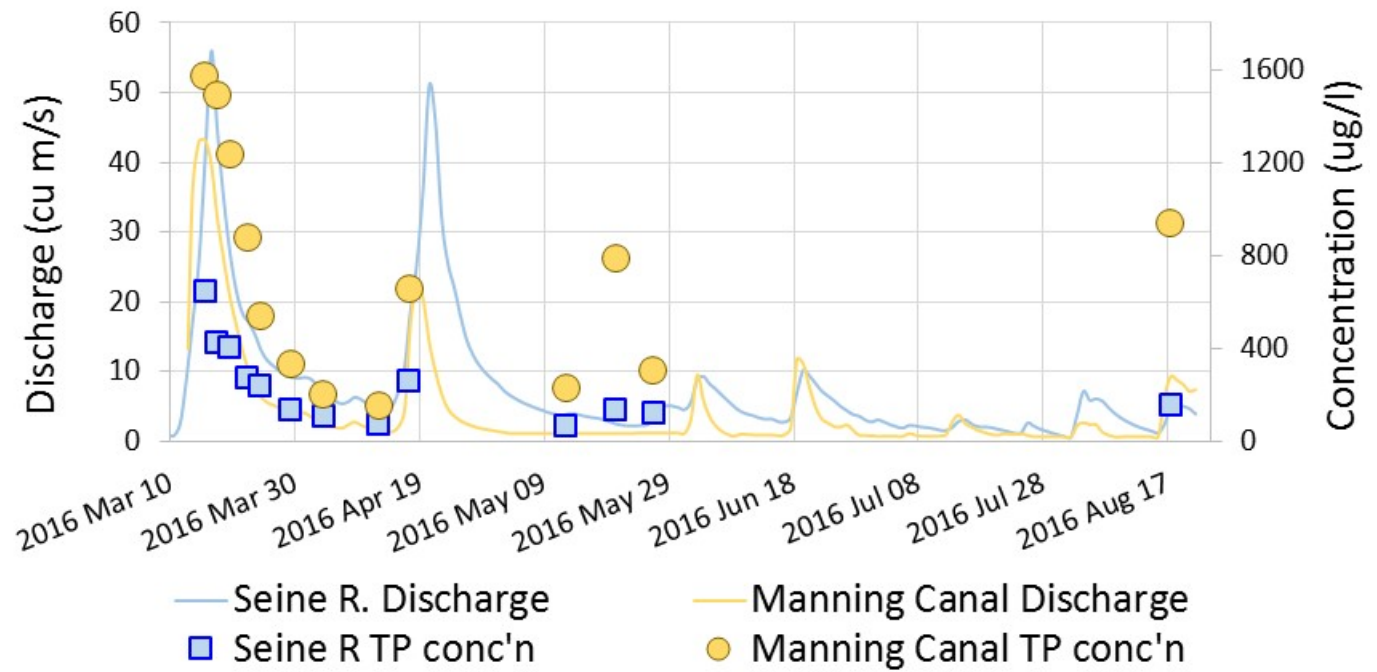
- Community
- Sub-watersheds (Designated Drains)
- Trees & Grassland
- Water
- Urban & Transportation

1:350,000

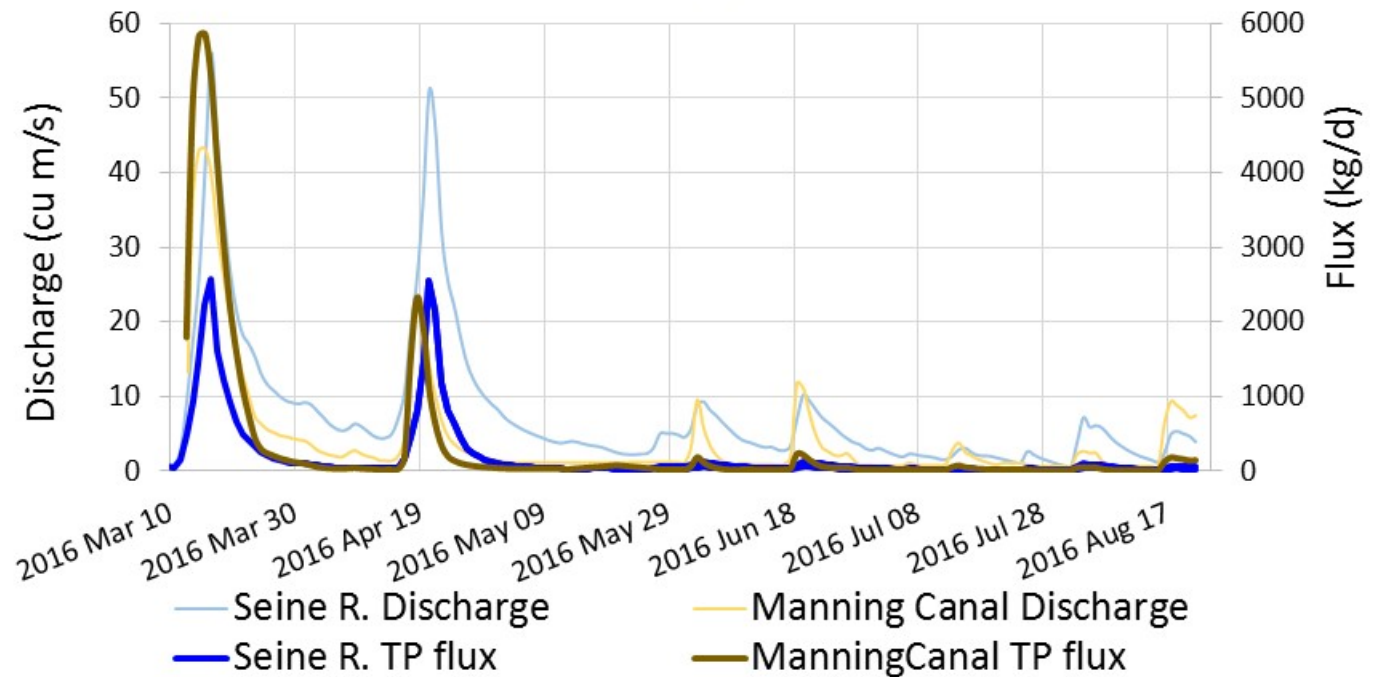
0 2.5 5 10 15 20 25
Kilometres

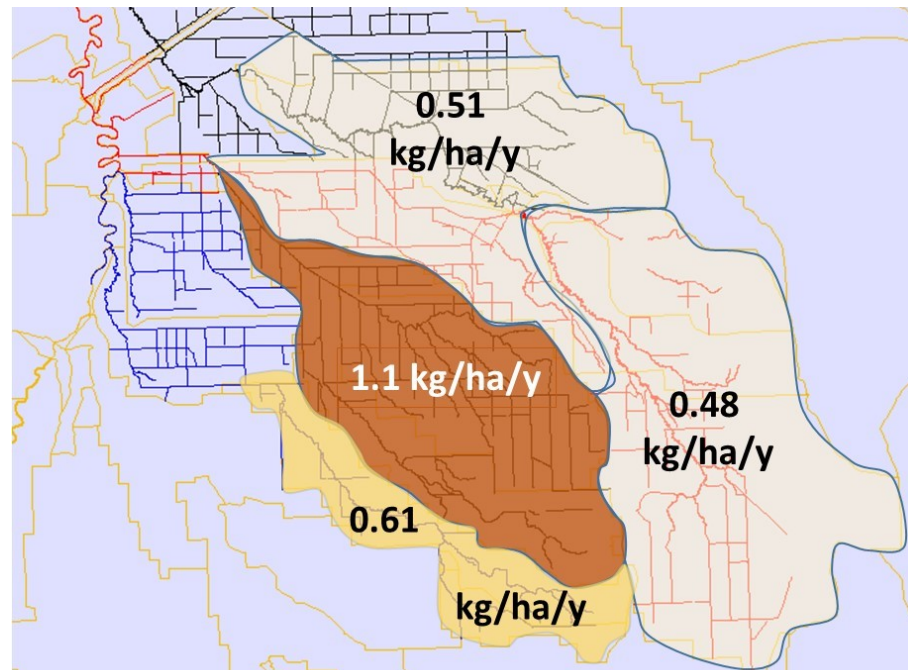
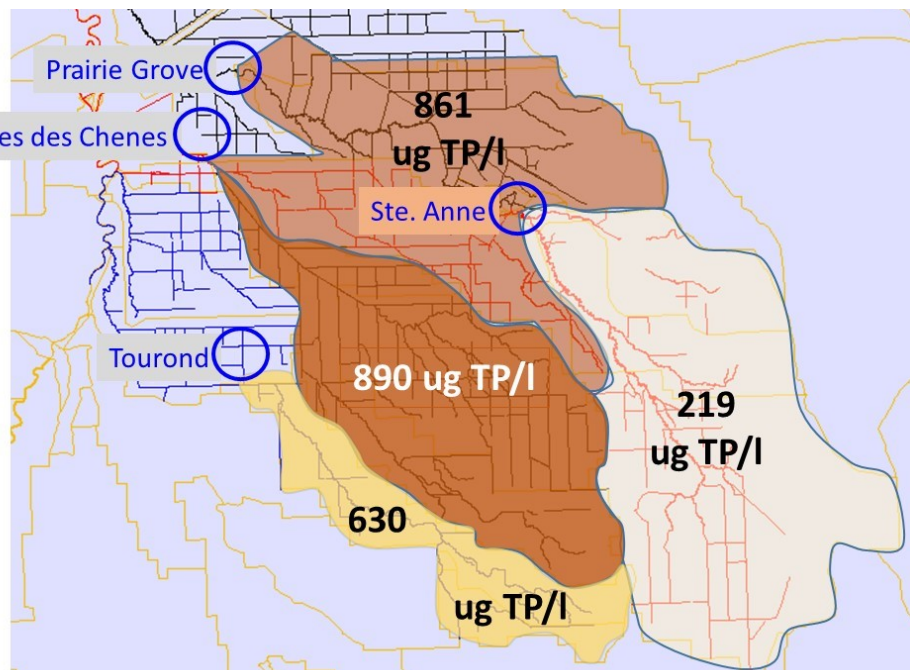


Concentrations



Daily fluxes





Water runoff and total phosphorus concentrations, fluxes and export coefficients for March through October, 2016.

	Drainage area (km ²)	Runoff (mm depth)	Phosphorus concentration* (ug/l)	Flux (tonnes P)	Export coefficient (kg P/ha)
Upper Seine R.	580	221	219	28	0.48
Lower Seine R.	521	59	861	26	0.51
Manning Canal	481	124	890	53	1.10
Tourond Creek	210	97	630	13	0.61

* Concentration is the flow-weighted mean for the period.

