

Strawberry Creek Watershed:

(4 season research near Mary Hill, Ontario)

Groundwater-Surface Water Interactions : hydrology, nitrogen cycling, phosphate export

PIs: English, Petrone (WLU), Schiff, Macrae, Endres (UW), Spoelstra (Env. Canada)

2 PDF's : two completed (Mengis, Jamieson)

3 PhD's : one completed (Macrae); two ongoing (Rashid, Snider)

6 MSc's : four completed (Harris, House, Cabrera, Rempel)
two ongoing (Thuss, Zurbrigg)



February



April



Questions/Research relevant to today's workshop:

- Temporal & spatial variability in P export rates – catchment scale, year round sampling (importance of snow melt and storms)
- Identification of P and transport pathways (variability in time)
- Significance of antecedent conditions
- Significance of land management practices

June



September



Impacts of Reservoir Management on Riparian Zone Function: Valens Reservoir, Flamborough, Ontario

PIs:

M. Macrae (University of Waterloo)

R. Bourbonniere (Environment Canada)

- Effects of agriculture on P export to Spencer Creek/Beverly Swamp

- Effects of reservoir drawdown on riparian zone hydrology and P loading to Spencer Creek/Beverly Swamp

- Work being done in conjunction with nitrogen and carbon dynamics (dissolved, gaseous forms)

