

References

- AECOM, 2009a, Groundwater Modeling and WHPA delineation - Uxbridge Water Supply System.
- AECOM, 2009b, Groundwater Vulnerability Assessment - Township of Uxbridge - Uxbridge Urban Water Supply.
- AECOM, 2009c, Drinking Water Issues Evaluation - Uxbridge Urban Water Supply.
- AECOM, 2009d, Drinking Water Quality Threats Assessment Methods.
- AECOM, 2009e, Drinking Water Quality Threats Assessment - Uxbridge Urban Water Supply.
- AECOM, 2009f, Groundwater Modeling and WHPA delineation - Uxville Water Supply System.
- AECOM, 2009g, Groundwater Vulnerability Assessment - Township of Uxbridge - Uxbridge Industrial Park in Uxville (Uxville Water Supply System).
- AECOM, 2009h, Drinking Water Issues Evaluation - Uxbridge Industrial Park (Uxville Water Supply System).
- AECOM, 2009i, Drinking Water Quality Threats Assessment - Uxville Water Supply System.
- Alkaeed, O., Flores, C., Jinno, K., and Tsutsumi, A., 2006, Comparison of Several Reference Evapotranspiration Methods for Itoshima Peninsula Area, Fukuoka, Japan, 66
- Allen, R.G., Pereira, L.S., Raes, D., Smith, M., 1998, Crop evapotranspiration: Guidelines for computing crop water requirements- FAO Irrigation and drainage paper 56.
- Armstrong, D.K., 1999, Results of the Paleozoic Drilling Project, Northern Lake Simcoe Area, South-Central Ontario., Open File 59999
- Arnold, J.G., Allen, P.M., Muttiah, R., & Brenhardt, G, 1995, Automated Baseflow Separation and Recession Analysis Techniques, 33 (6)
- AquaResources & Golder Associates, 2010, South Georgian Bay, West Lake Simcoe Study Area Tier 2 Water Budget and Stress Assessment.
- AquaResources , Golder Associates, and International Water Consultants, 2013, City of Barrie

Tier Three Water Budget and Local Area Risk Assessment.

Baird & Associates, 2010a, Surface Water Vulnerability Analysis for LSRCA. Durham Region - Beaverton WTP.

Baird & Associates, 2010b, Surface Water Vulnerability Analysis for LSRCA. City of Barrie Intake.

Baird & Associates, 2010c, Surface Water Vulnerability Analysis for LSRCA. Town of Innisfil - Alcona Water Treatment Plant.

Baird & Associates, 2010d, Surface Water Vulnerability Analysis for LSRCA. Township of Ramara - Lagoon City and South Ramara.

Baird & Associates, 2010e, Surface Water Vulnerability Analysis for LSRCA. York Region Intakes - Keswick and Georgina.

Barnett, P.J., 1991, Preliminary report on the stratigraphic drilling of Quaternary sediments in the Barrie area, Simcoe County Ontario.

Barnett, P.J., 1992, Quaternary geology of Ontario; in *Geology of Ontario*, eds. P.C. Thurston, H.R. Williams, R.H. Sutcliffe, and G.M. Scott, 4

Barnett, P.J., 1997, Quaternary Geology, eastern half of the Barrie and Elmvale areas: OGS Map 2645, Scale 1:50,000.

Barnett, P.J., Sharpe, D.R., Russel, H.A.J., Brennand, T.A., Gorell, G., Kenny, F., and Pugin, A., 1998, On the origin of the Oak Ridges Moraine, 35

Brown, D.M., McKay, G.A., and Chapman, L.J., 1980, *The climate of Southern Ontario*, 5

Burt, A.K., 2004, Three- dimensional mapping of Quaternary (surficial) deposits in the Barrie area, central Ontario; in *Summary of Field Work and Other Activities*, 6145

Chapman, J.L. and Putman, D.F., 1984, *The Physiography of Southern Ontario*, 2

Chapman, T.G., 1987, Unit hydrograph identification using only streamflow data. *Civ. Eng. Trans. Inst. Eng. Aust.*, 29

Chow, V.T., 1964, *A Handbook of Applied Hydrology*.

Clairifica Inc, 2002, Water Budget in Urbanizing Watersheds: Duffins Creek Watershed. Prepared for the Toronto and Region Conservation Authority, May 21, 2002.

Davies, S., Doughty, M., Gerber, R., and Holysh, S., 2008, Geology and Groundwater Resource Evaluation of the Lake Simcoe Watershed. Draft for the Ontario Ministry of Northern Development and Mines/ Ontario Geological Society- Groundwater Resource Program.

DeLoë, 2002. Agricultural Water Use in Ontario by Watershed: Estimates for 2001. Prepared for the Ontario Ministry of Natural Resources. August 15, 2002.

De Loe, R., 2005, Assessment of Agricultural Water Use/Demand Across Canada [Final report for Sustainable Water Use Branch Water Policy and Coordination Directorate, Environment Canada] Guelph Ontario: Rob de Loe Consulting Service.

Deane, R.E., 1950, Pleistocene Geology of the Lake Simcoe District, Ontario, 256

Dreimanis, A., 1977, Late Wisconsinan glacial retreat in the Great Lakes region, North America, 288

Duncan, K., Guidotti, T., Weiping, C., Naidoo, K., Gibson, G., Kalkstein, L., Sheridan, S., Waltner-Toews, D., MacEachern, S., and Last, J, 1998, Canada Country Study: Climate Impacts and Adaptation-Health Sector In: Responding to Global Climate Change: National Sectorial Issues Volume 7 of the Canada Country Study: Climate Impacts and Adaptation [Environment Canada]

Durham Region, 2010a, Uxbridge Threats Assessment.

Durham Region, 2010b, Uxville Threat Assessment.

Earthfx Incorporated and Azimuth Environmental Consulting, Inc, 2007, Vulnerability Assessment and Scoring of Wellhead Protection Areas, Regional Municipality of York. (Revised October 2009).

Earthfx Incorporated and Azimuth Environmental Consulting, Inc, 2009, Updated Vulnerability Assessment and Scoring of Wellhead Protection Areas, Regional Municipality of York.

Earthfx Incorporated, 2006, Final Report, Groundwater Modelling of the Oak Ridges Moraine Area Including Yonge Street Aquifer and Toronto and Region Conservation Watersheds, Report prepared for York- Peel- Durham Toronto Groundwater Management Strategic Study.

Earthfx Incorporated, 2009, Tier 2 Water Budget Assessment of the Holland and Maskinonge River watersheds: prepared for South Georgian Bay-Lake Simcoe Source Protection Region.

Earthfx, 2010, Tier Two Water Budget Analysis and Water Quantity Stress Assessment of the Uxbridge Brook and Beaver River Subwatersheds.

Earthfx, 2010, Water Balance Analysis of the Lake Simcoe Basin using the Precipitation-Runoff Modelling System (PRMS).

Earthfx, 2013, Tier Three Water Budget –Water Quantity Risk Level Assignment Study Regional Municipality of York – Phase 1 Model Development Report.

Earthfx, 2014, Tier Three Water Budget and Local Area Risk Assessment for the Region of York Groundwater Municipal Supplies – Risk Assessment Report.

EcoLog Environmental Risk Information Service (EcoLog ERIS)., 2009, Custom Reports (0.25 km Search radius) for Sites 1 to 13 for York Region. Obtained May 6 to May 8, 2009.

Environment Canada, 2003, Canadian Water Quality Guidelines for the Protection of Aquatic Life (CWQG).

Expert Panel on Climate Change Adaptation, 2009, Adapting to climate change in Ontario: Towards the design and implementation of a strategy and action plan, report to the Minister of the Environment.

Eyles, N, 2002, Ontario rocks: three billion years of environmental change: Fitzhenry & Whiteside Limited.

Finamore, P.F and Bajc, A.f., 1984, Quaternary Geology of Orillia Area, Southern Ontario, Map P2697

Finamore, P.F., 1985, Glacial Lake Algonquin and the Fenelon Falls Outlet, GSA Special Paper 30

Gartner Lee Limited, 2004, Geology and Hydrology of York Region, Draft for discussion prepared for The Regional Municipality of York, Reference # GLL 22-104

Genivar, 2007, Water Quality Characterization and Issues Identification for Municipal Groundwater Supply System.

Genivar, 2010a, Assessment of Drinking Water Threats – Selected Municipal Groundwater

supplies – South Georgian Bay Lake.

Grace and Associates Inc., Oakridge Environmental Ltd, and Morrison Environmental Ltd, 2012, Engineering and Hydrogeological Assessment for the Existing Woodville Municipal Water Supply, City of Kawartha Lakes. Simcoe Source Protection Region. Updated 2011 to include revisions based on review comments and include additional intake.

Genivar, 2010b, Assessment of Drinking Water Threats. Municipal Groundwater Supplies. The Regional Municipality of Durham. DRAFT.

Genivar, 2010c, Assessment of Drinking Water Threats. Municipal Groundwater Supplies. The City of Kawartha Lakes. DRAFT.

Genivar, 2010d, Delineation of Highly Vulnerable Aquifers (HVA)- South Georgian Bay-Lake Simcoe Source Protection Region DRAFT.

GeoProcess Research Associates Inc., (GeoProcess) 2021a, Sunderland Municipal Water Supply System – Local Wellfield Characterization Reporting. Groundwater Modelling Update to Meet Source Protection Requirements.

GeoProcess Research Associates Inc., (GeoProcess) 2021b, Groundwater Model Construction and Calibration Report, Groundwater Modelling Update to Meet Source Protection Requirements, Region of Durham/ORMGP.

Gerber Geoscience Inc., and Earthfx Inc., 2005, Holland River, Maskinonge River and Black River Watersheds Water Budget Study.

Gerber, R.E., Boyce, J.I., and Howard, K.W.F., 2001, Evaluation of heterogeneity and field-scale groundwater flow regime in a leaky till aquitard, 9

Golder Associates Ltd and Waterloo Hydrogeologic, 2004, South Simcoe Groundwater Study WHPA- Township of Adjala- Tosorontio Appendix d.

Golder Associates Ltd, 2004, South Simcoe Groundwater Study WHPA- Town of Innisfil Appendix I.

Golder Associates Ltd, 2004, South Simcoe Municipal Groundwater Study.

Golder Associates Ltd, 2004, South Simcoe Groundwater Study WHPA: Township of Springwater

Appendix L.

Golder Associates Ltd, 2005, North Simcoe Groundwater Study WHPA- City of Orillia Appendix E.

Golder Associates Ltd, 2005, North Simcoe Municipal Groundwater Study.

Golder Associates Ltd, 2005, North Simcoe Groundwater Study WHPA- Township of Ramara Appendix H.

Golder Associates Ltd, 2009, Source Water Protection Threats and Risk Assessment - City of Barrie.

Golder Associates Ltd., 2010f, Source Protection Threat Assessment. City of Barrie.

Golder Associates Ltd., 2013, Ballantrae Wellfield Wellhead Protection Area Delineation, Vulnerability Assessment and Threat Assessment.

Golder Associates Ltd., 2021, Yonge Street Aquifer Wellhead Protection Area Delineation, Vulnerability and Threat Assessment Update Report.

Gravenore, C.P., 1957, surficial geology of the Lindsay- Peterborough Area, Ontario, Victoria, Peterborough, Durham and Northumberland counties, Ontario, Memoir 288

Gwyn, Q.H.L, 1972, Quaternary geology of the Alliston-Newmarket area, southern Ontario, miscellaneous Paper 53

Hamon, W.R, 1961, Estimating Potential Evapotranspiration, 87

Hirsch, R.M., 1979, An evaluation on some record reconstruction techniques, 15 (6)

IPCC, 2007, Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, 996pp..

Jacques Whitford Stantec Limited, 2009, Assessment of Drinking Water Quality Threats, Municipal Groundwater Supplies, The Regional Municipality of York.

Jagger Hims Limited, 1999, Village of Woodville Groundwater Supply Investigation Permit to

take water TW99-2.

Jagger Hims Limited, 2003, Community of Cannington Wellhead Protection Program Numerical Model Development. Prepared for the Durham Works Department.

Jagger Hims Limited, 2004, Village of Woodville - Preliminary Status Report. Groundwater Interference Assessment - Draft.

Jagger Hims Limited, 2006, Village of Woodville, 2005 Water Level Monitoring Report - Draft.

Johnson, M.D., Armstrong, D.K., Sanford, B.V., Telford, P.G., & Rutka, M.A., 1992, Paleozoic and Mesozoic geology of Ontario: in *Geology of Ontario, Special Volume 4, Part 2*

Jones, C., Somers, K.M., Craig, B., and Reynoldson, T.B., 2004, Ontario Benthos Biomonitoring Network Protocol Manual Version 1.0.

Karrow, P.F and S. Occhietti, 1989, Quaternary geology of the St. Lawrence lowlands of Canada, in R.J. Fulton (ed.), *Quaternary Geology of Canada and Greenland*, K-1

Kassenaar, J.D.C., Wexler, E.J., 2006, Groundwater modelling of the oak ridges moraine area: CAMC-YPDT technical report # 01-06.

Kohler, M.A., and Parmele, L.H., 1967, Generalized Estimates of Free Water- Evaporation, 3 (4)

Koltun, G.F & Whitehead, M.T., 2002, Techniques for Estimating Selected Streamflow Characteristics of Rural Unregulated Streams in Ohio.

Lake Simcoe Region Conservation Authority, 1995, Lake Simcoe Environmental Management Strategy (LSEMS), *Our Waters. Our Heritage*. Lake Simcoe Environmental Management Strategy Implementation Program Summary of Phase I Progress and Recommendations for Phase II.

Lake Simcoe Region Conservation Authority, 2003, Lake Simcoe Environmental Management Strategy (LSEMS), 2003, *State of the Lake Simcoe Watershed Report*.

Lake Simcoe Region Conservation Authority, 2007, *Lake Simcoe Watershed 2007 Environmental Monitoring Report*.

Lake Simcoe Region Conservation Authority, 2009, *Dam Removal: Priorities within the Lake Simcoe Watershed, Draft Version*.

Lake Simcoe Region Conservation Authority, 2020, Groundwater Vulnerability Assessment – Maplewood Estates Well Supply, Section 34 Update, Technical Memorandum.

Lee, H.T., W.D. Bakowsky, J.Riley, J. Bowles, M. Puddister, P. Uglig and S. McMurray., 1998, Ecological Land Classification for Southern Ontario: First Approximation and Its Application. Ontario Ministry of Natural Resources, Southcentral Science Section, Science Development and Transfer Branch. SCSS Field guide FG-02.

Limno-Tech Inc, 2001, Review of Annex 1 of the Great Lakes Water Quality Agreement, Prepared for: Parties implementation work group Great Lakes Science Advisory Board International Joint Commission.

Linacre, E.T., 1967, Climate and Evapotranspiration from Crops, J.Irrig. Drain Division, 93

Linsley, R.K., Kohler, M.A., Paulhus, J.L.H., 1975, Hydrology for Engineers, Second Edition.

Lyne, V & Hollick, m, 1979, Stochastic time- variable rainfall- runoff modelling Institute of Engineers Australia National Conference, 79 (10)

Lotowater Technical Services Inc., 2013, Memorandum to Steve Davies from Boyd Pendleton, re: Woodville Production Well Data Review

[Marshall Macklin Monaghan Limited. \(2006\). Water Use Assessment and Contaminant Inventory. Report prepared for the York Region. Toronto, ON: MMM Group Limited.](#)

McDonald, M.G. and Harbaugh, A.W., 1988, Chapter A1: A modular three- dimensional finite difference ground- water flow model, Book 6 modelling techniques: Techniques of Water- Resources Investigations of the United States Geological Survey.

Michigan Department of Environmental Quality, 2004, State of Michigan Source Water Assessment Program Report, December 2004

Ministry of Natural Resources (MNR), 1984, Water Quantity Resources of Ontario.

Ministry of the Environment, 2004, Provincial Water Quality Objectives.

Ministry of the Environment, 2006, Assessment Report: Draft guidance Module 3 - Groundwater Vulnerability Analysis.

Ministry of the Environment, 2007, Assessment report: guidance module 7 water budget and

water quantity risk assessment, draft.

Ministry of the Environment, 2008a, Technical Rules: Assessment Report, Clean Water Act (2006). Amendments November 16, 2009.

Ministry of the Environment, 2008b, Table of Drinking Water Threats, Clean Water Act 2006. Dated December 12, 2008.

Ministry of the Environment, 2009a, Tables of Drinking Water Threats, Clean Water Act 2006. Amendments November 16, 2009.

Ministry of the Environment, 2009b, Technical Bulletin: Proposed Methodology for Calculating [Percentage](#) of Managed Lands and Livestock Density for Land Application of Agricultural Source of Material, Non-Agricultural Source of Material and Commercial Fertilizers.

Ministry of the Environment, 2010a, Technical Bulletin: Threats Assessment and Issues Evaluation.

Ministry of the Environment, 2010b, Survey of the Occurrence of Pharmaceuticals and Other Emerging Contaminants in Untreated Source and Finished Drinking Water in Ontario.

[Ministry of the Environment, Conservation and Parks, 2021, Amendments to Technical Rules: Assessment Report, Clean Water Act 2006. Amendment released December 2021.](#)

MMM Group., 2006, Class EA and Water Resource Exploration for Water Supply in the Community of Mount Albert. Project 14-04056, Prepared for: regional Municipality of York. December, 2006.

Nathan, R.J. & McMahon, T.A., 1980, Evaluation of automated techniques for base flow and recession analyses, 26

O'Connor, D.R., 2002a, Report of the Walkerton Inquiry: Part 2 – A Strategy for safe Drinking Waters. The Walkerton Inquiry, Toronto.

O'Connor, D.R., 2002b, Report of the Walkerton Inquiry: Part 1 – The Events of May 2000 and Related Issues. The Walkerton Inquiry, Toronto.

O'Loughlin, E.M., Cheney, M.P., & Burns, J., 1982, The Bushrangers experiment; hydrological response of a eucalypt catchment to fire.

Palmer, W.C., & Haven, A.V., 1958, A graphical technique for determining evapotranspiration by the Thornthwaite method, 86Papadopulos & Associated Inc, 2006, Groundwater Modelling of the Oak Ridges Moraine Area, Peer Review Phase 1.

Perry, C.A., Wolock, D.M., & Artman, J.C., 2002, Estimates of Median Flows for Stream on the Kansas Surface Water Register.

Piggott, A., Moin, S., & Southam, C., 2005, A revised approach to the UKIH method for the calculation of baseflow, 50 (5)

Priestly, C.H.B., and Taylor, R.J., 1972, On the assessment of surface heat flux and evaporation using large scale parameters., 100

Pugin, A., Pullan, S.E and Sharpe, D.R., 1999, Seismic facies and regional architecture of the Oak Ridges Moraine Area, southern Ontario, 36 (3)

Regional Municipality of York (York Region)., 2009, Wastewater Service Areas. Received from York Region May5, 2009.

Russell, H.A.J., Arnott, R.W.C. and Sharpe, D.R., 2002, Evidence for rapid sedimentation in a tunnel channel, Oak Ridges Moraine, southern Ontario, Canada, 3134

Russell, H.A.J., Sharpe, D.R., Brennand, T.A., Barnett, P.J., and Logan, C., 2003, Tunnel Channels of the Oak Ridges Moraine and Greater Toronto Area, Southern Ontario, Open File 4485, scale 1:250,000

R.V. Anderson Associates Limited, 2018, Provision of Additional Water Supply Capacity for the Community of Cannington in the Township of Brock – Class Environmental Assessment Addendum – Final. Prepared for the Regional Municipality of Durham.

Schroeter, H.O., Boyd, D.K., & Whiteley, H.R., 2000, Filling Gaps in Meteorological Data Sets Used for Long-Term Watershed Modelling.

Scott, L.D., Winter., J.D., & Girard, R.E., 2006, Annual Water Balances, Total Phosphorous Budgets and Total Nitrogen and Chloride Loads for Lake Simcoe, Lake Simcoe Environmental Management Strategy Implementation Phase III; Technical Report No.A6, A6

Sharpe, D.R., Barnett, P.J., Brennand, P.J., Finley, D., Gorell, G., h.A.J., & Stacey, P., 1997, Surficial geology of the greater Toronto and oak ridges moraine areas, southern Ontario, Open

File 3062, Scale 1:200,000

Shaw, J. & Kvill, D., 1984, A glaciofluvial origin for drumlins of the livingstone lake area, Saskatchewan, 21

Singer, S.N., Cheng, C.K., and Scafe, M.G., 2003, The Hydrogeology of Southern Ontario, Second Edition.

South Georgian Bay-Lake Simcoe Source Protection Region, 2007, South Georgian Bay Lake Simcoe Watershed Region Conceptual Water Budget.

South Georgian Bay-Lake Simcoe Source Protection Region, 2009, Tier 1 Water Budget and Water Quantity Stress Assessment of the Lake Simcoe Watershed.

South Georgian Bay-Lake Simcoe Source Protection Region, 2010, Reducing inconsistencies in threat subcategory enumeration: Agreed approaches for ensuring consistent standards. Outcomes and decision summary.

S.S. Papadopoulos & Associates, Inc., (S.S. Papadopoulos) 2021, Cannington Municipal Water Supply System – Local Wellfield Characterization Reporting. Groundwater Modelling Update to Meet Source Protection Requirements.

Stanfield, L. [ed.]. Ontario Ministry of Natural Resources, 2005, Ontario Stream Assessment Protocol Manual ver 7. edited May 2007.

Tessman, S.A., 1980, Environmental assessment: reconnaissance elements of the western Dakotas region of South Dakota study report.

W.F. Baird & Associates Coastal Engineers Ltd (in association with Gartner Lee Limited)., 2006, Lake Simcoe Hydrodynamic and Water Quality Model.

WSP, 2021, Assessment of Drinking Water Threats, Cannington Water Supply, The Regional Municipality of Durham.

WSP, 2022, Assessment of Drinking Water Threats, Sunderland MW3, The Regional Municipality of Durham.