
7.0	REFERENCES.....	7-1
7.1	SPC Foundation Documents	7-1
7.2	Other References	7-2

7.0 REFERENCES

7.1 SPC Foundation Documents

- AECOM. (2009a). *Groundwater Modeling and WHPA delineation – Uxville Water Supply System*. Prepared for the Regional Municipality of Durham. September 2009. Guelph, ON: AECOM.
- AECOM. (2009b). *Drinking Water Quality Threats Assessment – Uxville Water Supply System*. Prepared for the Regional Municipality of Durham. November 2009. Guelph, ON: AECOM.
- Conservation Ontario. (2007). *Watershed Characterization Peer Evaluation Summary Report*. Prepared for the Toronto and Region Conservation Authority. December 2007. Newmarket, ON: Conservation Ontario
- Earthfx. (2013). *Tier 3 Water Budget and Local Area Risk Assessment for the Region of York Municipal Systems*. Draft Report. Prepared for the Regional Municipality of York. November 2013. Toronto, ON: Earthfx.
- Earthfx. (2009a). *Vulnerability Assessment and Scoring of Wellhead Protection Areas Regional Municipality of York*. Prepared for the Regional Municipality of York. October 2009. Toronto, ON: Earthfx
- Earthfx. (2009b). *Updated Vulnerability Assessment and Scoring of Wellhead Protection Areas Regional Municipality of York*. Prepared for the Regional Municipality of York. November 2009. Toronto, ON: Earthfx.
- Earthfx. (2008a). *Surface to Well Advection Time Analysis Wellhead Protection Areas for Municipal Residential Groundwater Systems Located within the Toronto and Region Conservation Authority Watersheds*. Prepared for the Regional Municipality of Peel. February 2008. Toronto, ON: Earthfx.
- Earthfx. (2008b). *Addendum Report: Wellhead Protection Area Study and Surface to Well Advection Time Analysis for Palgrave Well 4 Located within the Toronto and Region Conservation Authority Watersheds*. Prepared for the Regional Municipality of Peel. August 2008. Toronto, ON: Earthfx.
- Earthfx. (2007a). *Wellhead Protection Area Study for Municipal Residential Groundwater Systems Located within the Toronto and Region Conservation Authority Watersheds*. Prepared for the Regional Municipality of Peel. May 2007. Toronto, ON: Earthfx.
- Earthfx. (2007b). *Vulnerability Assessment and Scoring of Wellhead Protection Areas Regional Municipality of York*. Prepared for the Regional Municipality of York. November 2007. Toronto, ON: Earthfx.
- Gartner Lee Limited. (2007a). *Draft Accepted Conceptual Water Budget*. Toronto and Region Source Protection Area. 2007. Guelph, ON: Gartner Lee Limited.
- Gartner Lee Limited. (2007b). *Durham Region Wellhead Protection Groundwater Studies*. Prepared for the Regional Municipality of Durham. September 2007. Guelph, ON: Gartner Lee Limited.
- Golder. (2021). *Yonge Street Aquifer Wellhead Protection Area Delineation, Vulnerability and Threat Assessment Update Report*. Prepared for the Region of York. January 2021. Cambridge, ON: Region of York.
- Matrix Solutions Inc. (Matrix). (2018). *Vulnerability Assessment and Vulnerability Scoring for Caledon East Well 4A, Region of Peel*. August 2018. Guelph, ON: Matrix Solutions Inc.
-

-
- Matrix Solutions Inc. (Matrix). (2015). *Caledon East Wellhead Protection Area Delineation Wells CE4 and CE4A, Peel Region*. December 2015. Breslau, ON: Matrix Solutions Inc.
- R.J. Burnside & Associates Limited (Burnside). (2010). *Issues Evaluation and Threats Assessment – Region of Peel*. Prepared for the Region of Peel. July 2010. Guelph, ON: R.J. Burnside & Associates Limited.
- Stantec. (2008a). *Lake Ontario Collaborative Intake Protection Zone Studies Volume 3: Toronto Water Supply System – Intake Protection Zone Delineation and Vulnerability Assessment Studies for the R.L. Clark, Island, R.C. Harris, and F.J. Horgan Water Treatment Plants*. Prepared for the Lake Ontario Collaborative. January 2008. Toronto, ON: Stantec.
- Stantec. (2008b). *Lake Ontario Collaborative Intake Protection Zone Studies Volume 4: Durham Water Supply System – Intake Protection Zone Delineation and Vulnerability Assessment Studies for the Ajax, Bowmanville, and Whitby Water Treatment Plants*. Prepared for the Lake Ontario Collaborative. January 2008. Toronto, ON: Stantec.
- Stantec. (2010). *Assessment of Drinking Water Quality Threats, Municipal Groundwater Supplies*. Prepared for the Regional Municipality of York. June 2010. Toronto, ON: Stantec.
- Toronto and Region Conservation Authority (TRCA). (2007). *Interim Watershed Characterization Report, TRSPA Watersheds*. February 2007. Vaughn, ON: Toronto and Region Conservation Authority.
- Toronto and Region Conservation Authority (TRCA). (2007). *Response to Peer Evaluation of TRCA’s Preliminary Watershed Characterization Report*. February 2007. Vaughn, ON: Toronto and Region Conservation Authority.
- Toronto and Region Conservation Authority (TRCA). (2010). *Tier 1 Water Budget for TRSPA Watersheds and Tier 2 for Whitchurch-Stouffville Area*. July 2010. Vaughn, ON: Toronto and Region Conservation Authority.
- York, Region of. (2019). *Wellhead Protection Area Delineation, Vulnerability Assessment and Threat Assessment in Support of Updates to the Newmarket and Aurora Wellfields*. July 2019. Newmarket, ON: Region of York.

7.2 Other References

- AMEC. (2010). *AMEC Peer Review Report of: Wellhead Protection Area Study for Municipal Residential Groundwater Systems Located within the Toronto and Region Conservation Authority Watersheds Caledon East Wells 2, 3, and 4 and Palgrave Wells 2 and 3*. Prepared for the CTC Source Protection Region. January 2010. Toronto, ON: AMEC.
- Aquafor Beech Limited. (2003). *Toronto Wet Weather Flow Management Master Plan, Study Area 5 – Highland Creek, Rouge River and Waterfront Area*. Prepared for the City of Toronto. July 2003. Mississauga, ON: Aquafor Beech Limited.
- Barnett, P.J. (1992). Quaternary Geology of Ontario. In P.C. Thurston, H.R. Williams, R.H. Sutcliffe and G.M. Stott (Eds.) *Geology of Ontario (1011-1088)*. Ottawa, ON: Ontario Geological Survey, and Ontario Ministry of Northern Development and Mines.
- Barnett, P.J., Sharpe, D.R., Russell, H.A.J., Brennand, T.A., Gorrell, G., Kenny, F., and Pugin, A. (1998). On the origins of the Oak Ridges Moraine. *Canadian Journal of Earth Sciences*, 35, 1152 – 1167.

-
- Barnett, P.J., Cowan, W.R., and Henry, A.P. (1991). *Quaternary geology of Ontario, southern sheet*. Ontario Geological Survey, Map 2556, scale 1: 1 000 000.
- Bicknell, B.R., Imhoff, J.C., Kittle J.L., Jr., and Donigian A.S., Jr. (1996). *Hydrological Simulation Program – FORTRAN, User’s Manual for Release 11*. A manual prepared for the Environmental Research Laboratory. Athens, GA: Office of Research and Development, U.S. Environmental Protection Agency.
- Bowen, G., and Booty, W. (2011). Watershed Pollutant Load Assessments for the Canadian side of the Western basin of Lake Ontario. June 2011. Burlington, ON: Environment Canada Centre for Inland Waters.
- Brennand, T.A., Logan, C., Kenny, F., Moore, A., Russell, H.A.J., Sharpe, D.R., and Barnett, P.J. (1997). *Bedrock Topography of the Greater Toronto and Oak Ridges Moraine NATMAP areas, southern Ontario*. Geological Survey of Canada Open File 3419, scale 1:200 000.
- British Columbia Ministry of the Environment (BC MOE). (2003). *Ambient Water Quality Guidelines for Chloride Overview Report*. Available at <http://www.env.gov.bc.ca/wat/wq/BCguidelines/chloride/chloride.html> Accessed March 30, 2008.
- Brookfield, M.E., Gwyn Q.H.J., and Martini, P.I. (1982). Quaternary sequences along the north shore of Lake Ontario: Oshawa-Port Hope. *Canadian Journal of Earth Sciences*, 19, 1836-1850.
- Bruce, J., Burton, I., Martin, H., Mills, B., and Mortsch, L. (2000). Vulnerability and adaptation to climate change; report submitted to Natural Resources Canada, Climate Change Impacts and Adaptation Program, 144 p.
- Bruce, J., Martin, H., Colucci, P., McBean, G., McDougall, J., Shrubsole, D., Whalley, J., Halliday, R., Alden, M., Mortsch, L., and Mills, B. (2003). Climate change impacts on boundary and transboundary water management; report submitted to Natural Resources Canada, Climate Change Impacts and Adaptation Program, 307 p.
- Canadian Council of Ministers of the Environment (CCME). (2003). Canadian water quality guidelines for the protection of aquatic life: Nitrate Ion. In *Canadian Environmental Quality Guidelines*. Winnipeg, MB: Canadian Council of Ministers of the Environment.
- Canadian Council of Ministers of the Environment (CCME). (2002). Canadian water quality guidelines for the protection of aquatic life: Total particulate matter. In *Canadian Environmental Quality Guidelines*. Winnipeg, MB: Canadian Council of Ministers of the Environment.
- Canadian Council of Ministers of the Environment (CCME). (2000). Canadian water quality guidelines for the protection of aquatic life: Ammonia. In *Canadian Environmental Quality Guidelines*. Winnipeg, MB: Canadian Council of Ministers of the Environment.
- Canadian Council of Ministers of the Environment (CCME). (1999). Canadian sediment quality guidelines for the protection of aquatic life: Copper. In *Canadian Environmental Quality Guidelines*. Winnipeg, MB: Canadian Council of Ministers of the Environment.
- CGCM (Coupled Global Climate Change Model). www.cccma.bc.ec.gc.ca/models/cgcm2.shtml
- Chapman, L.J., and Putnam, D.F. (1984). *The Physiography of Southern Ontario, 3rd Edition*. Ontario Geological Survey, Special Volume 2.

-
- Cherry, J.A., Parker, B.L., Bradbury, K.R., Gotkowitz, M.B., Eaton, T.T., Hart, D.J., and Borchardt, M.A. (2007). *Contaminant Transport through Aquitards: Technical Guidance for Aquitard Assessment*. AWWA Research Foundation, p. 270 .
- Chiotti, Q., and Lavender, B. (2008). Ontario. In D.S. Lemmen, F.J.Warren, J. Lacroix and E. Bush (Eds.) *From Impacts to Adaptation: Canada in a Changing Climate 2007 (227-274)*, Ottawa, ON: Government of Canada.
- Clarifica Inc. (2002). *Water Budget in Urbanizing Watersheds: Duffins Creek Watershed*. Prepared for the Toronto and Region Conservation Authority. May 21, 2002. Richmond Hill, ON: Clarifica Inc.
- Clarifica Inc. (2003a). *Water Budget in Urbanizing Watersheds: Upper Humber River Sub-watershed*. Prepared for the Toronto and Region Conservation Authority. March 2003. Richmond Hill, ON: Clarifica Inc.
- Clarifica Inc. (2003b). *Water Budget in Urbanizing Watersheds: Petticoat Watershed*. Prepared for the Toronto and Region Conservation Authority. DRAFT March 2003. Richmond Hill, ON: Clarifica Inc.
- de Loë, R.C., and Berg, A. (2006). Mainstreaming climate change in drinking water source protection in Ontario; report prepared for Pollution Probe and the Canadian Water Resources Association (Ontario Branch), Ottawa, Ontario, 51 p.
- Dreimanis, A., and Karrow, P.F. (1972). Glacial History of the Great Lakes-St. Lawrence Region: the classification of the Wisconsin(an) Stage, and its correlatives. 24th International Geological Congress, Section 12, p. 5-15.
- Duckworth, P.B. (1979). The late depositional history of the western end of the Oak Ridges Moraine, southern Ontario. *Canadian Journal of Earth Sciences*, 16, 1094-1107.
- Environment Canada. (2004). *How Much Habitat is Enough? A Framework for Guiding Habitat Rehabilitation in Great Lakes Areas of Concern*. Second Edition. Ottawa, ON: Minister of Public Works and Government Services Canada.
- Environment Canada., Ontario Ministry of the Environment., and City of Toronto. (2008). *Occurrence of Lawn Care and Agricultural Pesticides in the Don and Humber River Watersheds (1998-2002)*. Prepared for the 2002 Canada-Ontario Agreement Respecting the Great Lakes Basin Ecosystem. Toronto, ON.
- Dewey, R. (2011). Modelling Results for Lake Ontario Collaborative Spill Scenario Analysis. Toronto, ON: Modelling Surface Water Ltd.
- Earth Tech. (2001a). Earth Tech Canada Inc. Engineers' Report for South Peel Water System Lakeview Water Treatment Plant. Prepared for the Regional Municipality of Peel. March 2001.
- Earth Tech. (2001b). Engineers' Report for Island Filtration Plant. Earth Tech Canada Inc with Totten, Sims, Hubicki Ltd. Prepared for the City of Toronto.
- Eyles, N. (2002). *Ontario Rocks: Three Billion Years of Environmental Change*. Markham, ON: Fitzhenry and Whiteside.
- Eyles, N. (1997). Environmental Geology of a Supercity: The Greater Toronto Area. In N. Eyles (Ed.) *Environmental Geology of Urban Areas (7-80)*. St. John's, NL: Geological Association of Canada.

- Eyles, N., Boyce, J., and Mohajer, A.A. (1993). The bedrock surface of the western Lake Ontario Region: Evidence of reactivated basement structures. *Geographie physique et Quaternaire*, 47(3), 269-283.
- Eyles, N., and Clark, B.M. (1988). *Last interglacial sediments of the Don Valley Brickyard, Toronto, Canada, and their paleoenvironmental significance*. *Can. J. Earth Sci.*, 25, 1108-1122.
- Eyles, N., Clark, B.M., Kaye, B.G., Howard, K.W.F., and Eyles, C.H. (1985). The application of basin analysis techniques to glaciated terrains: an example from the Lake Ontario basin, Canada. *Geoscience Canada*, 12, 22-32.
- Fisheries and Oceans Canada (2005). *Fish Habitat Fact Sheet #T-6 (2005): Fish Habitat & Determining the High Water Mark on Lakes*. Available at www.dfo-mpo.gc.ca/canwaters-eauxcan.
- Fligg, K., and Rodrigues, B. (1983). Geophysical well log correlations between Barrie and the Oak Ridges Moraine. Water Resources Branch, Ontario Ministry of the Environment, Map 2273.
- Freeze, R.A., and Cherry, J.A. (1979). *Groundwater*. Upper Saddle River, NJ: Prentice-Hall Inc.
- Gartner Lee Limited. (2007a). *Durham Region Wellhead Protection Groundwater Studies*. Prepared for the Regional Municipality of Durham. September 2007. Markham, ON: Gartner Lee Limited.
- Gartner Lee Limited. (2007b). *Source Water Protection - Conceptual Water Budget*. Prepared for Toronto and Region Conservation. Markham, ON: Gartner Lee Limited.
- Gartner Lee Limited. (2003). *Durham Region Wellhead Protection, Groundwater Use Assessment, and Contaminant Sources Inventory Study*. Prepared for the Regional Municipality of Durham. Markham, ON: Gartner Lee Limited.
- Genivar Ontario Inc. (2007). *Water Quality Characterization and Issue Identification for Municipal Groundwater Supply System*. Prepared for the Regional Municipality of York. Markham, ON: Genivar Ontario Inc.
- Gerber Geosciences Inc. (2004). *Toronto and Region Conservation Authority, Guidelines for Urban Development Water Budget Assessments. Supporting Technical Appendix, Summary of Groundwater Recharge Estimates*. Toronto, ON: Gerber Geosciences Inc.
- Gerber, R.E. and Howard, K.W.F. (1996). Evidence for recent groundwater flow through Late Wisconsinan till near Toronto, Ontario. *Canadian Geotechnical Journal*, 33, 538-555.
- Gerber, R.E. and Howard, K.W.F. (2002). Hydrogeology of the Oak Ridges Moraine aquifer system: implications for protection and management from the Duffins Creek watershed. *Canadian Journal of Earth Sciences*, 39, 1333-1348.
- 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. *Hydrogeology Journal*, 9(1), 60-78.
- Gerber, R.E. and Wilson. (2010). *Groundwater Quality Vulnerability Analysis, Highly Vulnerable Aquifers*. Prepared for the CTC Watershed Region. February 19, 2010.
- Gilbert, R. (1997). Glaciolacustrine sedimentation in part of the Oak Ridges Moraine. *Géographie Physique et Quaternaire*, 7(1), 55-66.
- Gilbert, R., and Shaw, J. (1994). Inferred subglacial meltwater origin of lakes on the southern border of the Canadian Shield. *Canadian Journal of Earth Sciences*, 31(11), 1630 – 1637.

-
- Golder Associates. (1994). *Landfill Investigations*. Prepared for the Ontario Ministry of the Environment. Toronto, ON: Golder Associates.
- Greenland International Consulting Inc. (1999). *Stormwater Management Facility Sediment Maintenance Guide*. Report prepared for The Toronto and Region Conservation Authority. Collingwood, ON: Greenland International Consulting Inc.
- Gburek, W.J., and Urban, J.B. (1980). *Storm Water Detention and Groundwater Recharge using Porous Asphalt – Experimental Site*. International Symposium on Urban Storm Runoff. Lexington, KY: University of Kentucky.
- Hadley Model. Developed by the United Kingdom Meteorological Office, now known as the unified model. Available at <http://www.metoffice.gov.uk/research/modelling-systems/unified-model>.
- Hemson Consulting Ltd. (2005). *The Growth Outlook for the Greater Golden Horseshoe*. Prepared for the Ontario Ministry of Municipal Affairs and Housing. Toronto, ON: Hemson Consulting Ltd.
- Hoffman, D.W., Mathews, B.C., and Wicklund R.E. (1964). *Soil Survey of Dufferin County Ontario*. Report No. 38 of the Ontario Soil Survey. Ottawa, ON: Experimental Farm Service, Canada Department of Agriculture and the Ontario Agricultural College. Prepared by.
- Hoffman, D.W., and Richards, N.R. (1955). *Soil Survey of York County*. Report No. 19 of the Ontario Soil Survey. Ottawa, ON: Experimental Farms Service, Canada Department of Agriculture, and the Ontario Agricultural College. Prepared by D.W. Hoffman and N.R. Richards.
- Hoffman, D.W., and Richards, N.R. (1953). *Soil Survey of Peel County*. Report No. 18 of the Ontario Soil Survey. Ottawa, ON: Experimental Farms Service, Canada Department of Agriculture, and the Ontario Agricultural College.
- Hoffman, D.W., Wicklund R.E., and Richards N.R. (1962). *Soil Survey of Simcoe County Ontario*. Report No. 29 of the Ontario Soil Survey. Ottawa, ON: Experimental Farm Service, Canada Department of Agriculture, and the Ontario Agricultural College.
- Holden, K.M., Thomas, J., and Karrow, P.F. (1993a). *Bedrock topography, Oshawa area, southern Ontario*. Ontario Geological Survey, Preliminary Map P.3192, Scale 1:50,000.
- Holden, K.M., Thomas, J., and Karrow, P.F. (1993b). *Bedrock topography, Barrie area, southern Ontario*. Ontario Geological Survey, Preliminary Map P.3212, Scale 1:50,000.
- Holden, K.M., Thomas J., and Karrow, P.F. (1993c). *Bedrock topography of the Alliston area, southern Ontario*. Ontario Geological Survey, Preliminary Map P.3213, Scale 1:50,000.
- Holden, K.M., Thomas, J., and Karrow, P.F. (1993d). *Bedrock topography, Newmarket area, southern Ontario*. Ontario Geological Survey, Preliminary Map P.3214, Scale 1:50,000.
- Howard, K.W.F., and Beck, P. (1986). Hydrochemical interpretation of groundwater flow systems in Quaternary sediments in southern Ontario. *Canadian Journal of Earth Sciences*, 23, 938-947.
- Interim Waste Authority. (1994). *Detailed assessment of the proposed site EE11 for Durham Region landfill site search, Technical appendices Parts 1 and 3 of 4*. Prepared by M.M. Dillon Limited, October 1994. North York, ON: M.M. Dillon Limited.
- Johnson M.D., Armstrong, D.K., Sanford, B.V., Telford, P.G., and Rutka, M.A. (1992). Palaeozoic and Mesozoic Geology of Ontario. In P.C. Thurston and others (Eds.) *Geology of Ontario (907-1010)*, Sudbury, ON: Ministry of Northern Development and Mines.

-
- Karrow, P.F. (1992). Bedrock Topography of the Markham Area, Southern Ontario. Ontario Geological Survey, Open File Map 196, Bedrock Topography Ser., Scale 1:50,000. Compilation 1991.
- Karrow, P.F. (1970). *Bedrock Topography, Thornhill Area, York County*. Ontario Department of Mines, Preliminary Map P.574, Scale 1:25,000.
- Karrow, P.F. (1967). Pleistocene geology of the Scarborough area. In *Ontario Geological Survey, Report 46*. Sudbury, ON: Ontario Department of Mines.
- Kassenaar, J.D.C., and Wexler, E.J. (2006). Groundwater Modelling of the Oak Ridges Moraine Area. In *CAMC-YPDT Technical Report #01-06*. Toronto, ON: CAMC-YPDT.
- Kelley, R.I., and Martini, I.P. (1986). Pleistocene glacio-lacustrine deltaic deposits of the Scarborough Formation, Ontario, Canada. *Sedimentary Geology*, 47, 27-52.
- Kling, G.W., Hayhoe, K., Johnson, L.B., Magnuson, J.J., Polasky, S., Robinson, S.K., Shuter, B.J., Wander, M.M., Wuebbles, D.J., Zak, D.R., Lindroth, R.L., Moser, S.C., and Wilson, M.L. (2003). Confronting climate change in the Great Lakes Region: impacts on our communities and ecosystems; Union of Concerned Scientists, Cambridge, Massachusetts, and Ecological Society of America, Washington, DC, 93 p.
- Kreutzweiser, R., Moraru, I., de Loe, R., Mills, B., and Schaefer, K. (2003). Drought sensitivity of municipal water supply systems in Ontario; *The Great Lakes Geographer*, 9 (2): 59-70.
- Leavesley, G.H., Litchy, R.W., Troutman, B.M. and Saindon, L.G. (1983). Precipitation-Runoff Modeling System: User's Manual. Water Resources Investigations Report 83-4283. USGS. Denver Colorado.
- Markstrom, S.L., Niswonger, R.G., Regan, R.S., Prudic, D.E., and Barlow, P.M. (2008). GSFLOW--Coupled Ground-water and Surface-water FLOW model based on the integration of the Precipitation-Runoff Modeling System (PRMS) and the Modular Ground-Water Flow Model (MODFLOW-2005). In *U.S. Geological Survey Techniques and Methods 6-D1 (240)*. Reston, VA: USGA.
- Marshall Macklin Monaghan Limited. (2006). *Water Use Assessment and Contaminant Inventory*. Report prepared for the York Region. Toronto, ON: MMM Group Limited.
- Marshall Macklin Monaghan Limited. (2003). *Wet Weather Flow Management Master Plan – Stage 2, Don River Watershed, Study Area 4*. Report prepared for the City of Toronto. July 2003. Toronto, ON: MMM Group Limited.
- Marshall Macklin Monaghan Limited. (1988). *Rouge Urban Drainage Study Phase 2*. Prepared for the Metropolitan Toronto and Region Conservation Authority. Toronto, ON: MMM Group Limited.
- Maunder, D., Whyte, R., and D'Andrea, M. (1995). *Metropolitan Toronto Waterfront Wet Weather Outfall Study – Phase II City of Toronto*. Report prepared for the Metropolitan RAP. Toronto, ON: Aquafor Beech Limited, and Ontario Ministry of Environment and Energy.
- Meyer, J.L., Kaplan, L.A., Newbold, J.D., Strayer, D.L., Woltemade, C.J., Zedler, J.B., Beilfuss, R., Carpenter, Q., Semlitsch, R., Watzin, M.C., and Zedler, P.H. (2003). *Where Rivers are Born: The Scientific Imperative for Defending Small Streams and Wetlands*. Washington, DC: American Rivers, and Sierra Club.
- Ministry of Environment (MOE). (2010). Survey of the Occurrence of Pharmaceuticals and other Emerging Contaminants in Untreated Source and Finished Drinking Water in Ontario. PIBS 7269e.

-
- Ministry of the Environment (MOE). (2009). *Technical Rules: Assessment Report - Clean Water Act, 2006*. November 2009. Toronto, ON: Queen's Printer for Ontario.
- Ministry of the Environment (MOE). (2009). *Technical Rules: Assessment Report, Clean Water Act, 2006*. Issued by the MOE December 2009. Toronto, ON: Queen's Printer for Ontario.
- Ministry of the Environment (MOE). (2007a). *Source Water Protection Draft Assessment Report: Guidance Module 7, Water Budgets and Water Quantity Risk Assessment*. Toronto, ON: Queen's Printer for Ontario.
- Ministry of the Environment (MOE). (2007b). Certificate of Approval for Municipal Water Works number 2574-6YFR7U. Lakeview Water Treatment Plant, April 2nd 2007.
- Ministry of the Environment (MOE). (2006). *Clean Water Act, Draft Guidance Modules*. October 2006. Available at <http://www.ene.gov.on.ca/en/water/cleanwater/cwa-guidance.php>.
- Ministry of the Environment (MOE). (2006a). *Clean Water Act, 2006*. Available at <https://www.ontario.ca/laws/statute/06c22>.
- Ministry of the Environment (MOE). (2006b). Amended Certificate of Approval Municipal Drinking Water Systems Number 0475-6P8PZB, Ajax Water Supply Plant. Regional Municipality of Durham, May 25, 2006.
- Ministry of the Environment (MOE). (2006c). Ontario Ministry of the Environment Drinking Water Systems Regulation O. Reg. 170/03 – Part III, Form 2, Section 11: Annual Report for the Ajax Water Treatment Plant January 1 to December 31, 2006.
- Ministry of the Environment (MOE). (2003). *Water Sampling and Data Analysis Manual for Partners in the Ontario Provincial Water Quality Monitoring Network*. Toronto, ON: Queen's Printer for Ontario.
- Ministry of the Environment (MOE). (2002). *Safe Drinking Water Act, 2002*. Available at <https://www.ontario.ca/laws/statute/02s32>.
- Ministry Environment and Energy (MOEE). (1994). *Policies Guidelines and Provincial Water Quality Objectives of the Ministry of Environment and Energy*. Toronto, ON: Queen's Printer for Ontario.
- Ministry of Municipal Affairs and Housing (MMAH). (2005). *Provincial Policy Statement, 2005*. Available at <http://www.mah.gov.on.ca/Page1485.aspx>.
- Ministry of Municipal Affairs and Housing. (2004). *Oak Ridges Moraine Aquifer Vulnerability Mapping*. Accompanying Document to the Reference Map for Ontario Regulation 140/02 (Oak Ridges Moraine Conservation Plan).
- Ministry of Municipal Affairs and Housing (MMAH). (2002). *Oak Ridges Moraine Conservation Plan*.
- Ministry of Natural Resources, 2005. Great Lakes – St. Lawrence River Basin Sustainable Water Resources Agreement, 2005 Supporting Documents. Retrieved October 19, 2009 from: <http://www.mnr.gov.on.ca/200040.pdf>.
- Ministry of Public Infrastructure and Renewal (MPIR). (2006). *The Growth Plan for the Greater Golden Horseshoe*. Available at <https://www.placestogrow.ca/content/ggh/2013-06-10-Growth-Plan-for-the-GGH-EN.pdf>.

-
- MM Dillion Limited. (1990). *Regional Municipality of Durham Contingency Landfill Site Assessment Technical Support Volume B, Technical Report, Hydrogeology*. September 1990. North York, ON: MM Dillion Limited.
- Mortsch, L. (2004). Communicating about Human-caused Climate Change – Overcoming the Challenge. In B. Mitchell (Ed.) *Resource and Environmental Management in Canada*. Don Mills, ON: Oxford University Press.
- Mortsch, L., Alden, M., and Scheraga, J. (2003). Climate change and water quality in the Great Lakes region – risks, opportunities and responses; report prepared for the Great Lakes Quality Board of the International Joint commission, 135 p.
- Mortsch, L., Hengeveld, H., Lister, M., Lofgren, B., Quinn, F., Slivitzky, M., and Wenger, L. (2000). Climate change impacts to the hydrology of the Great Lakes-St. Lawrence system; *Canadian Water Resources Journal*, 25 (2): 153-179.
- National Research Council. (1993). *Ground Water Vulnerability Assessment: predicting relative contamination potential under conditions of uncertainty*. Washington, DC: The National Academies Press.
- O’ Connor, D.R. (2002a). *Part One: Report of the Walkerton Inquiry: Events of May 2000 and Related Issues*. Ottawa, ON: Ontario Ministry of the Attorney General.
- O’ Connor, D.R. (2002b). *Part Two: Report of the Walkerton Inquiry: A Strategy for Safe Drinking Water*. Ottawa, ON: Ontario Ministry of the Attorney General.
- Ontario Clean Water Agency (OCWA). (2007). *Lake Ontario Collaborative Study, Municipal Information Request, Intake Descriptions and Available Information*. Received July 4, 2007.
- Ontario Geological Survey. (2003). *1:250,000 Bedrock Geology of Ontario*, Ontario Geological Survey Publication EDS-005.
- Ontario Geological Survey. (2003b). *Surficial Geology of Southern Ontario*. Miscellaneous Release Data: 128.
- Ontario Geological Survey. (2000). *Quaternary Geology, Seamless Coverage of the Province of Ontario*, Ontario Geological Survey Publication EDS-014-REV.
- Ontario Ministry of Natural Resources and the Ontario Ministry of the Environment, 2010, Technical Bulletin: Part IX Local Area Risk Level -- Clarification of the technical terms and alternate method for the assessment and assignment of a risk level to a local area. April 2010.
- Olding, A.B., Wicklund, R.E., and Richards, N.R. (1956). *Soil Survey of Ontario County*. Report No. 23 of the Ontario Soil Survey. Ottawa, ON: Experimental Farms Service, Canada Department of Agriculture, and the Ontario Agricultural College.
- Ontario Regulation 170/03. *Drinking Water Systems*. Issued under the *Safe Drinking Water Act, 2002*. Available at <https://www.ontario.ca/laws/regulation/030170>.
- Ontario Regulation 287/07. *Terms of Reference*. Issued under the *Clean Water Act, 2006*. Available at <https://www.ontario.ca/laws/regulation/070287/v1>.
- Ontario Regulation 903. *Wells*. Issued under the Ontario Water Resources Act, 1993, amended 2003. Available at <https://www.ontario.ca/laws/regulation/900903>.
- Phillips, D.W.(1990). *The Climates of Canada*. Ottawa, ON: Environment Canada.
-

- Piggott, A., Brown, D., Mills, B., and Moin, S. (2001). Exploring the dynamics of groundwater and climate interaction. In *Proceedings of the 54th Canadian Geotechnical and 2nd Joint IAH-CNC and CGS Groundwater Specialty Conferences. Canadian Geotechnical Society and the Canadian National Chapter of the International Association of Hydrogeologists*, 401-408.
- Pilgrim, D.H., and Cordery, I. (1993). Flood runoff, in *Handbook of Hydrology*, edited by DR Maidment, McGraw Hill Inc., New York.
- Pugin, A., Pullen, S.E., and Sharpe, D.R. (1996). Observations of tunnel channels in glacial sediments with shallow land-based seismic reflection. *Annals of Glaciology*, 22, 176-180.
- Rogers, D.P., Ostry, R.C., and Karrow, P.F. (1961). *Metropolitan Toronto Bedrock Contours*. Ontario Department of Mines, Preliminary Map 102.
- Russell, H.A., Brennand, T.A., Logan, C., and Sharpe, D.R. (1998). Standardization and assessment of geological descriptions from water well records, Greater Toronto and Oak Ridges Moraine Areas, southern Ontario. In Geological Survey of Canada, *Current Research 1998-E* (89-102). Ottawa, ON: Her Majesty the Queen in Right of Canada .
- Russell, H.A.J., Sharpe, D.R., and Arnott, W. (1997). Sedimentology of the Oak Ridges Moraine, Humber River watershed, southern Ontario: a preliminary report. In Geological Survey of Canada, *Current Research 1998-C Canadian Shield*(155-166). Ottawa, ON: Her Majesty the Queen in Right of Canada.
- Sado, E., White, O.L., Barnett, P.J., and Sharpe, D.R. (1984). The glacial geology, stratigraphy and geomorphology of the North Toronto area: a field excursion. In W. C. Mahaney (Ed.), *Correlation of Quaternary Chronologies* (505-517). Norwich, UK: GeoBooks,.
- Sanderson, M. (2004). *The Impact of Climate Change on Water in the Grand River Basin, Ontario*. Department of Geography Publication Series No. 40. Waterloo, ON: University of Waterloo.
- Sanford, B.V., Thompson, F.J., and McFall, G.H. (1985). Plate tectonics – a possible controlling mechanism in the development of hydrocarbon traps in southwestern Ontario. *Bulletin of Canadian Petroleum Geology*, 33(1), 52-76.
- Scheidegger, A.E. (1980). The orientation of valley trends in Ontario. *Zeitschrift für Geomorphologie*, 24, 19-30.
- Sharpe, D.R., and Clue, J. (1978). *Bedrock topography of the Durham Area, Southern Ontario*. Ontario Geological Survey Preliminary Map P.1836, Bedrock Topography Series, Scale 1:50,000.
- Sharpe, D.R., Dyke, L.D., and Pullan, S.E. (1994). *Hydrogeology of the Oak Ridges Moraine: partners in geoscience*. Geological Survey of Canada, Open File 2867.
- Sharpe, D.R., Dyke, L.D., Hinton, M.J., Pullan, S.E., Russell, H.A.J., Brennand, T.A., Barnett, P.J., and Pugin, A. (1996). Groundwater prospects in the Oak Ridges Moraine area, Southern Ontario: application of regional geological models. In Geological Survey of Canada, *Current Research 1996-E* (181-190). Ottawa, ON: Her Majesty the Queen in Right of Canada.
- Sharpe, D.R., Russell, H.A.J., and Logan, C. (2002a). *Structural Model of the Oak Ridges Moraine and Greater Toronto Areas, Southern Ontario: Newmarket Till*. Geological Survey of Canada, Open File 4241, scale 1:250,000.

-
- Sharpe, D.R., Russell, H.A.J., and Logan, C. (2002b). *Structural Model of the Oak Ridges Moraine and Greater Toronto Areas, Southern Ontario: Lower Sediment*. Geological Survey of Canada, Open File 4242, scale 1:250,000.
- Sibul, U., Wang, K.T., and Vallery, D. (1977). *Ground-Water Resources of the Duffins Creek-Rouge River Drainage Basins*. Water Resources Report 8. Ministry of the Environment, Water Resources Branch, Toronto, ON: Queen's Printer for Ontario.
- Singer, S.N. (1981). *Evaluation of the Ground Water Responses Applied to Bowmanville, Soper and Wilmot Creeks IHD Representative Drainage Basin*. Water Resources Report 9b. Ministry of the Environment, Water Resources Branch, Toronto, ON: Queen's Printer for Ontario.
- Spencer, J.W. (1881). Discovery of the preglacial outlet of the basin of Lake Erie into that of Lake Ontario. *Canadian Naturalist*, 10, 65-79.
- Statistics Canada. 2006. Census data from the 2006 National Census.
- Thornthwaite, C.W., and Mather, J.R. 1957. Instructions and Tables for Computing Potential Evapotranspiration and the Water Balance. *Climatology*, 10(3).
- Totten Sims Hubicki Associates. (2003). *Toronto Wet Weather Flow Management Master Plan, Area 2: Etobicoke and Mimico Watersheds*. Report prepared for the City of Toronto. July 2003. Ottawa, ON: Totten Sims Hubicki Associates.
- Toronto and Region Conservation Authority (TRCA). (2009a). *Source Water Protection: Surface Water Quality Update*. Toronto, ON: Toronto and Region Conservation Authority.
- Toronto and Region Conservation Authority (TRCA). (2009b). *Don River Watershed Plan Beyond Forty Steps*. Toronto, ON: Toronto and Region Conservation Authority.
- Toronto and Region Conservation Authority (TRCA). (2008). *Humber River Watershed Plan Pathways to a Healthy Humber*. Toronto, ON: Toronto and Region Conservation Authority.
- Toronto and Region Conservation Authority (TRCA). (2007a). *Terrestrial Natural Heritage System Strategy (TNHSS)*. Toronto, ON: Toronto and Region Conservation Authority.
- Toronto and Region Conservation Authority (TRCA). (2007b). *Rouge River Watershed Plan Towards a Healthy and Sustainable Future – Report of the Rouge Watershed Task Force 2007*. Toronto, ON
- Toronto and Region Conservation Authority (TRCA). (2006a). *Rouge Watershed Plan: Background Technical Report for Groundwater*. Toronto, ON: Toronto and Region Conservation Authority.
- Toronto and Region Conservation Authority (TRCA). (2006b). *Humber Watershed Plan. Background Technical Report for Groundwater*. Toronto, ON: Toronto and Region Conservation Authority.
- Toronto and Region Conservation Authority (TRCA). (2003a). *Technical Analysis and Integration Process Summary Report, Duffins Creek and Carruthers Creek Watershed Plan*. Toronto, ON: Toronto and Region Conservation Authority.
- Toronto and Region Conservation Authority (TRCA). (2003b). *A Summary of Water Quality Data in the Region from 1996 to 2002*. Toronto, ON: Toronto and Region Conservation Authority.
- Toronto and Region Conservation Authority (TRCA). (1998). *1990-1996 Water Quality Data for the Toronto RAP Watershed*. Toronto, ON: Toronto and Region Conservation Authority.

- Toronto Water. (2006). Drinking Water Systems Annual Report 2006. Retrieved from http://www.toronto.ca/water/system_quality/pdf/moe_annual_report_2006.pdf on July 5th, 2007.
- Vrba, J., and Zoporozec, A. (1994). Guidebook on Mapping Groundwater Vulnerability. *International Contributions to Hydrogeology*, 16(131).
- Viessman, W. Jr., Lewis, G.L., and Knapp, J.W. (1989). *Introduction to Hydrology*. New York: NY: Harper & Row Publishers.
- Walton, W.C. (1970). *Groundwater Resource Evaluation*. Columbus, OH: McGraw-Hill Book Company.
- White, O.L. (1975). Quaternary Geology of the Bolton Area, Southern Ontario. *Geological Report 117*. Toronto, ON: Ontario Division of Mines.
- XCG Consultants Ltd. (2003a). *Toronto Wet Weather Flow Management Master Plan, Study Area 3: Humber River*. Report Prepared for the City of Toronto. July 2003. Oakville, ON: XCG Consultants Ltd.
- XCG Consultants Ltd. (2003b). *Humber River Watershed HSP-F Model 905-Area Improvements – 905-Area Water Balance Summary and Infiltration Deficit Database*. Report Prepared for the Toronto and Region Conservation Authority. November 2003. Oakville, ON: XCG Consultants Ltd.
- Zhang, X., Vincent, L.A., Hogg, W.D., and Nitsoo, A. (2000). Temperature and precipitation trends in Canada during the 20th century; *Atmosphere-Ocean*, 38(3): 395-429.