


LSRCA Hydrogeological Submission Acknowledgement

I, Name: Chris Helmer, Credentials: P.Geo. (i.e. P.Geo, or exempted P.Eng. as determined within the *Professional Geoscientists Act of Ontario*), confirm that I am a professional familiar with applicable documents, guidelines and criteria pertaining to groundwater management and that the submission entitled:

Report Name: Hydrogeological Investigation, 1656 Green Lane East, with associated Drawings: 1 to 10 has been reviewed by me and addresses the key components in the check list included below.

I acknowledge that hydrogeological sign-off or sign-off from another discipline pertaining to this submission or a portion of this submission does not constitute a permit from LSRCA. A permit will be required for all works within an LSRCA Regulated Area in accordance with Ontario Regulation 179/06 and additional information may be required as part of the permit process.

I acknowledge that an incomplete submission will result in processing delays and may be returned and/or additional information may be requested.

Signature:  Printed Name: Chris Helmer

Name of Consulting Firm: Toronto Inspection Ltd.

Date: 10/22/24 (mm/dd/yy)

LSRCA Hydrogeological Submission Checklist

The following checklist refers to the requirements when submitting a detailed design submission. These same requirements apply to functional design submissions as well, with the exception of the detailed design drawings. The functional design needs to provide sufficient detail to demonstrate the proposed development concept will be capable of meeting the hydrogeological requirements at the detailed design stage.

For items that have been included, please fill in the report section and report page along with appendix location or drawings pertaining to each item. For items not included, check "No" or "N/A" (Not Applicable) for each item. If "No" or "N/A" are checked, please provide an explanation in the note section of why the criteria do not apply in a particular instance. Please note that the submission may be deemed incomplete and that additional consultation with LSRCA may be required prior to submission acceptance.

The checklist below refers to requirements for every development type, therefore the **LSRCA Hydrogeological Submission Guidelines (2013)** should be referred to for specific study requirements for your type of Planning Act application. For example, the study scope may be reduced for single lot residential applications. Please contact LSRCA to scope study requirements prior to undertaking work.

Yes			No	N/A	Item	Comment
Report Section	Report Page	Drawing/ Appendix				
					Pre-submission consultation with LSRCA has been completed as recommended in the Hydrogeological Assessment Submission Guidelines (2013).	Yes
					The hydrogeological report has been prepared as a standalone document . (i.e., all references, calculations and drawings, Thornthwaite-Mather water balance assessment, are included within the document).	Water balance assessment will be completed by another consultant.
				N/A	A Hard Copy of all reports and all drawings (folded individually to 8.5" x 11" size) has been submitted for LSRCA review.	
Section 3	Pg. 7 - 9	Figure 2 to 7			Geological Characterization as per Section 3.1	
Section 4 Local Geology and Hydrogeology	Pg. 10	Appendix B			Test pits/Boreholes as per Section 3.1.6 (Required for detailed design)	
Section 6 Potential Receptors	Pg. 20	Figure 9			Monitoring Wells as per Section 3.1.7 (Preliminary data required for functional design)	
Section 6 Potential Receptors	Pg. 20	Figure 9			Private Well Survey as per Section 3.1.8	
Section 3.5.1 Hydrostratigraphy Section 4 Local Geology and Hydrogeology	Pg. 8 & 10	Figure 6 and 7			Characterization of the local hydrostratigraphy/hydrogeology as per Section 3.1.9	
Section 3 Section 6.3 Ecological Receptors	Pg 7 & 22	Figure 2			Description of Surface Water Features and Functions as per Section 3.1.10	
Section 4.3.4 Groundwater Quality	Pg. 13 - 14 Table 4-5 Appendix D				Water Quality as per Section 3.1.12	Parameters met the criteria for Table 1 - Limits for Sanitary Sewer Discharge, Total Suspended Solids exceeded the storm sewer limits
				N/A	D-5-5 Water Supply (private servicing only) as per Section 3.1.13	Servicing is not available at this time.
Section 4.3.2 Preliminary Groundwater Levels	Pg. 11 Table 4-2 and 4-3				Groundwater Levels as per Section 3.2.1 (Preliminary data required for functional design)	Groundwater levels have been presented in meters below groundsurface (mbgs) and meters above sea level (masl).

Yes			No	N/A	Item	Comment
Report Section	Report Page	Drawing/ Appendix				
Section 4.3.3 Hydraulic Conductivity	Pg. 12	Appendix C			Pumping Tests as per Section 3.2.2	Rising head test (slug test) was conducted at wells installed on site rather than pump tests.
Section 5 - Preliminary Calculation of Dewatering Rates and Estimation of Zone of Influence	Pg. 15 -20	Appendix E			Groundwater Discharge (Baseflow) as per Section 3.2.3	Preliminary calculation considering the excavation of the proposed building foundation
				N/A	Pre- and Post-Development Water Balance Assessment as per Section 3.2.4	Completed by GEI Consultants
				N/A	D-5-4 (Onsite Sewage Systems only) as per Section 3.2.6	Completed by GEI Consultants
				N/A	Infiltration/recharge mitigation plan as per Section 3.3	Completed by GEI Consultants
				N/A	In-situ infiltration testing as per Section 3.3	Completed by GEI Consultants
				N/A	Low impact development design calculations	Completed by GEI Consultants

Submission/Resubmission Requirements:

1. A completed response matrix which includes a detailed response outlining how each of the comments above have been addressed with reference to applicable reports/drawings (i.e. specific sections/pages/details or tab identifiers).
2. The response matrix is to also include a summary of any additional changes to the design (i.e. in addition to those not identified in the detailed response to comments, and includes changes to reports, drawings, details, facility design, etc.).
3. All drawings are to be folded (8.5 x 11).
4. Reports and engineering drawings/details are to be signed and sealed by a Professional Geoscientist or Professional Engineer as appropriate.
5. Reports are to include a digital copy of applicable models on a Data CD or USB Thumb Drive.
6. All submissions/reports are to include applicable technical components which achieve the minimum requirements outlined in the LSRCA Technical Guidelines for Stormwater Management Submissions, September 2016.