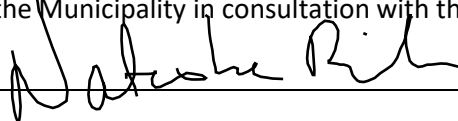


**LSRCA Engineering Submission Acknowledgement**

I, Natasha Birch, P. Eng., confirm that I am a professional familiar with applicable documents, guidelines and criteria pertaining to stormwater management, erosion / sediment controls and natural hazards in the province of Ontario and that the submission entitled Preliminary Stormwater Management Report, Industrial Development, 518, 520, 522, 524 Tiffin Street, Barrie, Ontario, dated April 2022, with associated drawings Drawings, has been reviewed by me and addresses the key components in the checklist included below.

I acknowledge that engineering 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 or rejected at the discretion of the Municipality in consultation with the LSRCA and/or additional information may be requested.

Signature:  Printed Name: Natasha Birch

Name of Consulting Firm: The Jones Consulting Group Ltd.

Date: 04/14/22 (mm/dd/yy)

**LSRCA Engineering Submission Checklist**

The following checklist refers to the requirements when submitting a detailed stormwater management submission. These same requirements apply to functional servicing reports (FSRs) as well, with the exception of the detailed design drawings. The FSR needs to provide sufficient detail to demonstrate the proposed development concept will be capable of meeting the stormwater management requirements at the detailed design stage.

For items that have been included in the submission, please fill in the report section and report page along with appendix location or drawings pertaining to each item in the checklist below.

For items not included, check “No” or “N/A (Not Applicable)” for each item in the checklist below. If “No” or “N/A” are checked, please provide an explanation of why the criteria do not apply in a particular instance and note that the submission may be deemed incomplete and that additional consultation with LSRCA will likely be required prior to submission acceptance. The sections noted in this check list refer to those contained within the **LSRCA Technical Guidelines for Stormwater Management Submissions**:

LSRCA Engineering Submission Checklist (V5 – May 2020) Required to Accompany ALL Engineering Submissions

Yes			No	N/A	Item	Comment
Report Section	Report Page	Drawing/ Appendix				
					<b>Pre-submission consultation</b> with LSRCA has been completed as per Section 2.0.	
Y	Y	Y			The SWM report has been prepared as per Section 3.4 as a <b>standalone document</b> (i.e. all references, calculations and modelling are included within the document or a referenced appendix).	Preliminary Stormwater Management Report, Industrial Development, 518, 520, 522, 524 Tiffin Street, Barrie, Ontario, dated April 2022
			N		A <b>Hard Copy</b> of all reports and all drawings (folded individually to 8.5" x 11" size) has been submitted for LSRCA review.	Digital copy submitted due to COVID-19 protocols
5.4	10-11				Stormwater Quantity <b>Peak Flow Control</b> as per Section 2.2.1.	
5.5	11-12, Table 6	SWM-2,			Stormwater Quantity <b>Volume Control</b> as per Section 2.2.2.	
5.2	10	SWM-2			Safe conveyance of stormwater to a <b>sufficient outlet</b> as per Sections 2.2.3 / 2.2.4.	
5.3	10				Stormwater Quality Control ( <b>80% TSS removal/Enhanced Level Treatment/Level 1 Treatment</b> ) as per Section 2.3.	
5.8	13-14				Stormwater Quality Control ( <b>Phosphorus Removal</b> ) as per Section 2.3.2 and as outlined in the Lake Simcoe Protection Plan.	
5.3	10				Stormwater Quality Control ( <b>Other Pollutants</b> ) as per Sections 2.3.3 – 2.3.5	
				N/A	Stream <b>Erosion Control</b> as per Section 2.4.	Site does not meet criteria
5.8	31-34				A <b>Water Balance / Groundwater</b> analysis as per Section 2.5.	
5.8	13-14	Appx D			The Lake Simcoe Phosphorus Offsetting Policy (LSPOP) including a <b>Phosphorous Budget</b> completed for the site using the MOE PTool or STEP's LID TTT.	
				N/A	<b>Natural Hazards</b> including floodplain (hydraulics, hydrology, mapping and cut / fill balance if applicable.)	
4	5-9	Appx C			<b>SWM Modelling</b> (hydrology and hydraulics) including digital files and all supporting SWM <b>calculations</b> .	
5.9	14-15				<b>Erosion and Sediment Control</b> as per Section 2.6. (Drawings to be provided at the detailed design stage)	
Y	Y	Y			The general requirements, as per <b>Appendix A</b> of the LSRCA Technical Guidelines for SWM Submissions. Please note that this Appendix is not an exhaustive list and that	

LSRCA Engineering Submission Checklist (V5 – May 2020) Required to Accompany ALL Engineering Submissions

Yes			No	N/A	Item	Comment
Report Section	Report Page	Drawing/ Appendix				
					additional site-specific requirements may apply.	

**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 Engineer.
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.

**Important Notes and References:**

1. Please contact the LSRCA to scope any required Environmental Impact Study or Natural Heritage Evaluation
2. The stormwater management submission is required to be prepared in accordance with “LSRCA Technical Guidelines for SWM Submissions”  
[https://www.lsrca.on.ca/Shared%20Documents/permits/swm\\_guidelines.pdf](https://www.lsrca.on.ca/Shared%20Documents/permits/swm_guidelines.pdf)
3. Submissions are to be in accordance with the LSRCA Watershed Development Guidelines  
<https://www.lsrca.on.ca/Shared%20Documents/permits/watershed-development-guidelines.pdf?pdf=Watershed-Development-Guidelines>
4. The hydrogeological analysis is required to be prepared in accordance with “Hydrogeological Assessment Submissions: Conservation Authority Guidelines for Development Applications”  
[https://www.lsrca.on.ca/Shared%20Documents/permits/hydrogeological%20\\_guidelines.pdf?pdf=Hydrogeological-Guidelines](https://www.lsrca.on.ca/Shared%20Documents/permits/hydrogeological%20_guidelines.pdf?pdf=Hydrogeological-Guidelines)
5. Where the LSPOP applies, submissions are to be in accordance with the LSPOP found here:  
<https://www.lsrca.on.ca/watershed-health/phosphorus>
6. Low Impact Development Treatment Train Tool can be found here:  
<https://www.lsrca.on.ca/Pages/LIDTTTool.aspx>
7. LSRCA Review Fees can be found here:  
<https://www.lsrca.on.ca/permits/permit-fees>