

**CTC Source Protection Region**

Source Protection Committee

# Central Lake Ontario Assessment Report

## NOTICE OF AMENDMENTS

Amendments to this document, made under Ontario Regulation 287/07, Section 51, following its approval in July 2015, are summarized in the attached tables.

**DATE AMENDMENTS POSTED: June 5, 2018**

## **NOTICE OF CHANGES TO THE APPROVED UPDATED ASSESSMENT REPORT: CENTRAL LAKE ONTARIO SOURCE PROTECTION AREA MADE UNDER SECTION 51 OF THE CLEAN WATER ACT**

Last Updated: January 2018

The following amendments were made to the Executive Summary and Glossary of the **Approved Updated Assessment Report: Central Lake Ontario Source Protection Area** pursuant to Section 51 of Ontario Regulation 287/07 of the Clean Water Act.

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
O.REG 287/07 S.51(1) An amendment that is made to correct a clerical, grammatical or typographical error.	ES-i (assessment report); ES-1 (source, protection, committee, area, vulnerability); ES-3 (amended plan); ES-4 (conservation authority); ES-4 (risk assessment, significant, moderate, low); ES-21 (objectives, guidelines); ES-25 (transport pathways);	Un-capitalize word when it is not a proper noun, or not the beginning of a sentence.
	ES-i (Amended); ES-iii (title of position and department); ES-4 (Protection, Province); ES-6 (based); ES-21 (A); ES-25 (A);	Capitalize word when it is a proper noun, the beginning of a sentence, or for emphasis.
	ES-3;	Space added to separate words, or after a period.
	ES-4;	Remove double space after period.
	ES-5 (products); ES-14 (aquifer's); ES-18 (Earth's); ES-18 (grounds); ES-21 (allows); ES-25 (occurs);	Add "s" to agree with the plural subject.
	ES-18 (Provide);	Remove "s" when it does not agree with the singular tense.
	ES-2 (WHAP-A, two-hour); ES-3 (WHAP-A); ES-4 (. End of sentence); ES-5 (E. coli); ES-15 (. End of sentence); ES-15 (add degree); ES-16 (threats'); ES-25 (.);	Add punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	ES-4 (, to .); ES-5 (/ to or);	Replace punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	ES-2, ES-4 (one); ES-6 (8)	Write out numbers under 10, and over 10,000. Use number when it is paired with a unit.
ES-i (sectors, the general); ES-1 (and, four, note that a); ES-3 (Central Lake Ontario Source Protection Area – repetitive); ES-6 (the); ES-18 (inside, large); ES-20 (a); ES-21 (Level); ES-22 (that are); ES-25 (A);	Remove word to improve the clarity of text.	

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
	ES-i (municipalities – municipal, this-the); ES-i (area-authority); ES-1 (this – the); ES-2 (delineated – delineations, which - that); ES-4 (WHAP-Q1/ WHAP-Q2 to WHAP-Q1/Q2 – consistency); ES-6 (CLOSPA – CTC SPR); ES-15 (general – generally); ES-16 (is – are); ES-16 (a – the); ES-20 (A curve – bends, swings – curves, a - the);	Replace word to improve the clarity of text or if it is misspelled.
	ES-i (a); ES-ii (on this Assessment Report); ES-1 (note: ); ES-1 (Issue Contributing areas (ICAs - none within CLOSPA)); ES-1 (Water quantity vulnerable areas (WHPA-Q1/Q2); ES-2 (and); ES-5 (or refined projects containing benzene – similar to TRSPA, CVSPA); ES-16 (Drinking water concerns); ES-18 (of the forest, including); ES-21 (-based agencies, not); ES-24 (be); ES-26 (to);	Add word improve the clarity of text.
	ES-2 (WWTP – first use); ES-4 (CWA – first use); ES-5 (WTP – first time, ODWS); ES-6 (SWP); ES-21 (ODWS)	Spell out acronym when it is the first time the acronym is used, or for clarity.
	ES-i (SPC, Assessment Report, MOE); ES-ii (SPC); ES-1 (Assessment Report, SPC, CLOSPA); ES-2 (CLOCA); ES-3 (SPC, CLOSPA); ES-4 (CLOSPA); ES-6 (CLOSPA); ES-15 (BOD); ES-25 (WTP, WWTP, WWIS);	Update acronym to be consistent with the rest of the text (e.g., remove acronyms when not used again in the chapter, remove plural when not appropriate, etc.)
	ES-5;	Correct e.g., i.e., format.
	ES-16 (split at );	Make one sentence two to improve the clarity of text or when there is a run-on sentence.
	ES-26 (to complete sentence);	Combine two sentences to improve the clarity of text.
	ES-i (Proposed, Amended Proposed Assessment Report);	Italics words that are the title of a publication, and are defined in definition boxes.
	ES-i, ES-1 (Assessment Report); ES-3 (Assessment Report); ES-4 (Assessment Report);	Un-italics words when not the formal name of a report, nor the first time a “definition box” word is used, and when the emphasis is distracting from the clarity of the text.
	ES-5;	Bulleted list is capitalized, with semi-colon after each point, with “and” at end of second last point, and a period after the last point.

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
	ES- 8 (Figure ES: 1: WHPA Q1/ Q2 York Tier 3 Water Budget in CLOSPA - Figure ES: 2: WHPA-Q1/Q2 York Region Tier 3 Water Budget in CLOSPA	Update figure titles.
	ES-2 Details on this work can be found in <b>Chapter 4</b> of this Assessment Report.	Added sentence to keep consistent with other Assessment Reports and to provide additional resources to the reader.
	Details on this IPZ-3 work can be found in <b>Chapter 5</b> of this Assessment Report, along with detailed maps for each of the Lake Ontario systems. The maps show the shortest path that a modelled spill which has been identified a significant drinking water threat could take to reach the intakes within the Toronto and Region Source Protection Area, or that could be affected by activities within the TRSPA. Figure 5.13: Ajax Intake Figure 5.16: Bowmanville Intake Figure 5.14: Whitby Intake Figure 5.17: Newcastle Intake Figure 5.15: Oshawa Intake	
	ES-19 Groundwater supply sources that have a direct hydrological connection to surface water sources (rivers, streams, ponds, etc.), and are therefore vulnerable to contamination from the surface.	
	ES-i <i>The SPC's ultimate role is to develop a Source Protection Plan that when implemented by the responsible parties (including municipalities), eliminates, reduces, or manages threats to drinking water sources, both now and in the future.</i>	
	ES-i <i>The Amended Assessment Report: Toronto and Region Source Protection Area</i> was submitted and approved by the Ministry of the Environment in January 2012, after revisions and public consultation.	<i>Changed sentence to: A previous version of the Assessment Report was approved by the Ministry of the Environment in January, 2012 after revisions and public consultation.</i>
	ES-4 In certain vulnerable areas (Issue Contributing Areas and Well Head Protections Areas for water quantity threats) all the relevant activities are deemed	<i>Changed sentence to: In certain vulnerable areas (ICA, and WHAP-Q1/Q2 determined to have a significant risk level for water quantity threats) all the relevant activities are deemed to</i>

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	to be significant drinking water threats.	be significant drinking water threats. (changed to reflect TRSPA and CVSPA reports)
	ES-5 The IPZ-3 was delineated for activities in the tributary using the required setbacks from the contaminant point of release to a point representing the maximum landward extent of the IPZ-2.	<i>Changed sentence to:</i> The IPZ-3 was delineated using the required setbacks from the point of release of a contaminant associated with an activity in the tributary to a point representing the maximum landward extent of the IPZ-2.
	ES-18 <b>Great Lakes:</b> The five (large) lakes located in Canada and United States: Lake Ontario, Lake Superior, Lake Huron, Lake Erie, and Lake Michigan.	<i>Changed sentence to:</i> <b>Great Lakes:</b> The five interconnected freshwater lakes located along the border of Canada and the United States: Lake Ontario, Lake Superior, Lake Huron, Lake Erie, and Lake Michigan.
	ES-19 <b>GUDI:</b> Groundwater Under the Direct Influence of Surface Water	<i>Changed sentence to:</i> <b>Groundwater Under the Direct Influence of Surface Water (GUDI):</b> The groundwater supply sources that are vulnerable to contamination from nearby surface water or infiltrating precipitation.
	ES-20 Land Use: A particular use of space at or near the earth surface with associated activities, substances and events related to the particular land use designation.	<i>Changed sentence to:</i> <b>Land Use:</b> The management and modification of the natural environment for associated activities, substances and events related to the particular land use designation.
	ES-i From this point the <i>Approved Updated Assessment Report: Toronto and Region Source Protection Area (TRSPA)</i> will be referred to as the <i>Assessment Report</i> .	Deleted repetitive or not applicable text.
	ES-1 From this point forward the <i>Approved Updated Assessment Report: Toronto and Region Source Protection Area (TRSPA)</i> will be referred to as the <i>Assessment Report</i> .	
	ES-4 Since the <i>Technical Rules, 2009</i> exclude consideration of Great Lakes in water budget “stress” assessments, Lake Ontario was not included in the water budget studies.	
	ES-5 Based on the criteria above, the following list of preliminary scenarios was modelled:	
	ES-15 Bogs are rare across the Toronto and Region Source Protection Area (TRSPA).	
	ES-17 Fens are rare across the Toronto and Region	

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	Source Protection Area (TRSPA).	
<p>O.REG 287/07 S.51(2) An amendment that is made to alter the style or presentation of text or graphics in order to improve electronic or print presentation.</p>	ES-2 (IPZ-1, IPZ-2 map, IPZ-3 map, SGRA map); ES-3 (HVA map); ES-6 (8);	Un-bold text if emphasis is distracting.
	ES-25 (Valuation of the Supply, Water Treatment Plan, Waste Water Treatment Plan, Water Well Information System);	Bold words that refer to other sections, chapters, figures, tables in the AR, or are titles in the report.
	ES-6 (8);	Un-underline text if emphasis is distracting.
<p>O.REG 287/07 S.51(3) If the source protection plan contains a provision that is contingent on the occurrence of a future event and the event occurs, an amendment that is made to remove the text referring to the contingency and to make any related changes.</p>	ES-3 changed text from: “When the SPP is approved, the Minister of the Environment and Climate Change will set the date by which the SPP must be reviewed and updated, as necessary.”	Changed text to: The source protection plan was approved by the Minister of the Environment and Climate Change on July 28, 2015 and became effective on December 31, 2015.
<p>O.REG 287/07 S.51(4) An amendment that is made to change references to a name, title, location, or address if the name, title, location or address of a body, office, person, place or thing has changed.</p>	ES-16; ES-21;	MOE to MOECC
	ES-21 ( <a href="http://www.ene.gov.on.ca">www.ene.gov.on.ca</a> - <a href="https://www.ontario.ca/page/source-protection">https://www.ontario.ca/page/source-protection</a> ) – “for more information on the Ontario Ministry of the Environment and Climate Change (MOECC) and the Clean Water Act” change Clean Water Act to source protection.	Update web address
	ES-4;	Update link to Table of Threats and Circumstances to <a href="http://swpip.ca/Threats">http://swpip.ca/Threats</a>

# **NOTICE OF CHANGES TO THE APPROVED UPDATED ASSESSMENT REPORT: CENTRAL LAKE ONTARIO SOURCE PROTECTION AREA MADE UNDER SECTION 51 OF THE CLEAN WATER ACT**

Last Updated: January 2018

The following amendments were made to Chapter 1 of the **Approved Updated Assessment Report: Central Lake Ontario Source Protection Area** pursuant to Section 51 of Ontario Regulation 287/07 of the Clean Water Act.

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
<p>O.REG 287/07 S.51(1) An amendment that is made to correct a clerical, grammatical or typographical error.</p>	<p>1-2 (ministry); 1-3 (terms reference, assessment report, source protection plan, source protection area); 1-4 (terms reference, assessment report, source protection areas); 1-5 (assessment report); 1-6 (assessment report); 1-12 (data sources, vulnerable areas); 1-13 (assessment report, report);</p>	<p>Un-capitalize word when it is not a proper noun, or not the beginning of a sentence.</p>
	<p>1-12 (Appendices); 1-3, 1-5, 1-6 (Province);</p>	<p>Capitalize word when it is a proper noun, the beginning of a sentence, or for emphasis.</p>
	<p>1-4, 1-12;</p>	<p>Remove double space after period.</p>
	<p>1-3 (:); 1-4 (,);</p>	<p>Add punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.</p>
	<p>1-4 (the, both, source, jurisdiction, ultimately, is in a); 1-6 (units, the, which); 1-10 (while); 1-10 (of the, included in this assessment report); 1-13 (being);</p>	<p>Remove word to improve the clarity of text.</p>
	<p>1-3 (134-144 consistency); 1-4 (and – or, perspectives – threats, presented – around wells and intakes, them – municipal drinking water sources, partnership - partners); 1-5 (SPA – TRSPA); 1-6 (source protection area – conservation area, rest – remainder, are – and, of several - nine); 1-12 (will set out – identifies); 1-13 (this – the, proposed – approved, approved – earlier, new - updated);</p>	<p>Replace word to improve the clarity of text or if it is misspelled.</p>
	<p>1-2 (1990); 1-4 (the); 1-6 (and areas); 1-12 (the CTC)</p>	<p>Add word improve the clarity of text.</p>
	<p>1-5 (SPA);</p>	<p>Spell out acronym when it is the first time the acronym is used, or for clarity.</p>

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	1-1 (CWA); 1-4 (SPP, CLOSPA); 1-5 (SPP); 1-13 (SPC);	Update acronym to be consistent with the rest of the text (e.g., remove acronyms when not used again in the chapter, remove plural when not appropriate, etc.)
	1-1 (remove month from reference);	Update reference to be in correct and consistent form.
	1-3 (Technical Rules); 1-13 (Amended Assessment Report: CLOSPA);	Italics words that are the title of a publication, and are defined in definition boxes.
	1-10, 1-12 (Assessment Report);	Un-italics words when not the formal name of a report, nor the first time a “definition box” word is used, and when the emphasis is distracting from the clarity of the text.
	1-1; 1-3;	Bulleted list is capitalized, with semi-colon after each point, with “and” at end of second last point, and a period after the last point.
	1-1; 1-2; 1-3;	Correct page numbering.
	1-4: More recently, a series of technical bulletins was issued by the MOECC interpreting the <i>Technical Rules</i> .	Insert sentence to work toward consistency across CTC assessment reports.
	<p>1-10: In addition to its primary purpose in meeting the CWA requirements, this Assessment Report contributes to the sustainable development and integrated watershed management goals for the CLOSPA. It will be complementary to watershed planning processes undertaken by CLOCA staff in support of the <i>Oak Ridges Moraine Conservation Plan</i>, and will assist in refining management priorities for the ongoing implementation of Watershed Plans. The scope of work for this Assessment Report includes the following for all CLOSPA watersheds:</p> <ul style="list-style-type: none"> <li>• Identification of the physical and human characteristics (i.e., physiography, soils, land use, and geology);</li> <li>• A summary of the understanding of groundwater and surface water flows (quantity);</li> </ul>	Insert sentence to work toward consistency across CTC assessment reports.



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	<ul style="list-style-type: none"> <li>• A summary of the current status of groundwater and surface water quality;</li> <li>• Identification of vulnerable areas (i.e., highly vulnerable aquifers (HVAs), significant groundwater recharge areas (SGRAs), wellhead protection areas (WHPAs) and intake protection zones (IPZs));</li> <li>• Identification of known or potential threats to water quality based on a review of available data and feedback from municipal partners and watershed residents; and</li> <li>• Identification and prioritization of data and knowledge gaps so efforts are directed to collect missing information.</li> </ul>	
	1-6: This Assessment Report is for the Central Lake Ontario Source Protection Area (CLOSPA).	Delete repetitive text.
	<p><b>Chapter 2: Watershed Characterization</b> This chapter contains descriptions of natural features, ecology, water systems and water use, water quality trends, and population size and distribution as they relate to overall watershed health.</p> <p><b>Chapter 3: Water Budget and Stress Assessment</b> This chapter,</p> <ul style="list-style-type: none"> <li>• estimates the quantity of water flowing through each watershed;</li> <li>• describes the pertinent processes and pathways that water follows; and</li> <li>• assesses the reliability and availability of current and future water supply sources from a quantity perspective.</li> </ul> <p>Note that this water budget assessment is for groundwater and surface water in the subwatersheds flowing into Lake Ontario but does not include a water budget assessment of Lake Ontario itself. Water budget work is completed in up to four stages, beginning with a conceptual water budget and then proceeding to more-detailed Tier 1, 2, or 3 studies in specific areas that may be experiencing stress.</p>	Delete text to work toward the consistency across the CTC assessment reports.

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	<p>Tier 1 stress assessments are to be completed for all watersheds in southern Ontario. The stress assessment considers both groundwater and surface water sources separately and their interaction. It is intended to be conservative and will likely overestimate actual stress conditions. Subwatersheds identified as “stressed” in the Tier 1 process, that are the source of a municipal drinking water supply, require more detailed subwatershed-specific Tier 2 studies using numerical models. Where a subwatershed is identified as “stressed” in the Tier 2 process, more localized Tier 3 studies are required, which use complex numerical models and future growth estimations. It should be noted that a ‘higher Tier’ Water Budget study conducted in a neighbouring jurisdiction may have impacts in an adjacent Source Protection Area. In such a case, the study and the relevant impacts are reported in the Assessment Report. The overall goals of this assessment are to identify if the reliability of municipal water supplies is questionable and to highlight key factors that may limit the reliability, such that appropriate risk management activities can be completed.</p> <p><b>Chapter 4: Assessing Vulnerability of Drinking Water Sources</b></p> <p>This chapter identifies up to four types of vulnerable areas that may be present within each SPA. These vulnerable areas include:</p> <ul style="list-style-type: none"> <li>• Highly Vulnerable Aquifers (HVAs);</li> <li>• Significant Groundwater Recharge Areas (SGRAs);</li> <li>• Intake Protection Zones (IPZs); and,</li> <li>• Wellhead Protection areas (WHPAs)</li> </ul> <p>Once vulnerable areas are identified, they are assessed and assigned a vulnerability score (high, medium, or low) that depends on the speed with which a contaminant could move from the source to the drinking water intake. Different factors are considered to assess vulnerability in surface water IPZs in contrast with groundwater areas (WHPAs, HVAs and SGRAs in CLOSPA). Within these groundwater-based areas for water quality, different vulnerability scores are assigned based on considerations such as the nature and thickness of the sediment layers. In areas identified as vulnerable, the vulnerability scores are used to evaluate threats and determine potential drinking water threats in <b>Chapter 5</b>.</p> <p><b>Chapter 5: Drinking Water Threats Assessment</b></p> <p>This chapter identifies the risk of contamination from specific land use activities (from existing or future activity, or from an existing condition caused by contamination from a past activity) reaching drinking water supplies. Threats are assessed within each of the</p>	

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	<p>four following vulnerable areas outlined above. This chapter also includes descriptions of land-use and human-made influences, assessment of water quality (groundwater and surface water) and water use. There is a prescribed list of twenty-one land-use activities known to pose a threat to the quality or quantity of drinking water, and a summary of the issues and concerns that exist in the watershed.</p> <p>The province has directed that for each vulnerable area, the SPC is required to identify the circumstances in which an activity is or would be significant, moderate or low drinking water threat. The SPC is also required to list the number of locations where a person is engaging in an activity that is or would be a significant drinking water threat. There is no requirement to enumerate low or moderate threats in this Assessment Report.</p> <p><b>Chapter 6: Summary and Next Steps</b></p> <p>This chapter summarizes the work completed in this <i>Assessment Report</i> and identifies data or knowledge gaps that may be addressed in future amendments.</p> <p><b>Chapter 7: References</b></p> <p>This chapter includes a listing of technical reports prepared by consultants working for municipalities or the CLOSPA, as well as other documents and regulations referenced in this <i>Assessment Report</i>. The technical reports provide in-depth descriptions of technical work, approaches, and findings; all were subject to extensive peer review, followed by review and acceptance by the CTC SPC as foundation documents to prepare this <i>Assessment Report</i>. The full technical reports are available online at <a href="http://www.ctcswp.ca">www.ctcswp.ca</a>.</p> <p><b>Appendices</b></p>	
	<p>1-13: The SPP may also include polices regarding monitoring activities and education and outreach. The SPA will be responsible for preparing and submitting a public annual report to the Minister of the Environment and Climate Change on implementation of the policies developed under the SPP.</p>	<p>Text changed to: The SPP must also include polices to require annual reporting by implementing bodies to the lead Source Protection Authority on actions taken to implement significant threat policies. The lead authority is responsible for preparing and submitting a public annual report to the Minister of the Environment and Climate Change summarizing the implementation of the policies developed under the SPP.</p>
<p>O.REG 287/07 S.51(2) An amendment that is made to</p>	<p>1-6;</p>	<p>Shift sentence within a paragraph to improve readability.</p>

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alter the style or presentation of text or graphics in order to improve electronic or print presentation.	1-1; 1-5;	Remove border around textbox, figure, or table to conform across chapters and Assessment Reports.
O.REG 287/07 S.51(4) An amendment that is made to change references to a name, title, location, or address if the name, title, location or address of a body, office, person, place or thing has changed.	1-1; 1-3; 1-4; 1-13;	MOE to MOECC
	1-3;	MNR to MNRF
	1-10 (CTC technical documents);	Update an altered web address.
	1-4 to 1-5;	Replace Table 1.1 Members of the SPC with link to members on website.
	1-3;	Add link to <a href="http://swpip.ca/Threats">http://swpip.ca/Threats</a>
O.REG 287/07 S.51(5) An amendment that is made to correct errors in the numbering of provisions of the source protection plan and any related changes in cross-reference.	1-4 (Appendix H – Appendix D1.3);	Correct references to sections or chapters in the assessment report.

**NOTICE OF CHANGES TO THE APPROVED UPDATED ASSESSMENT REPORT: CENTRAL LAKE ONTARIO SOURCE PROTECTION AREA MADE UNDER SECTION 51 OF THE CLEAN WATER ACT**

Last Updated: January 2018

The following amendments were made to Chapter 2 of the **Approved Updated Assessment Report: Central Lake Ontario Source Protection Area** pursuant to Section 51 of Ontario Regulation 287/07 of the Clean Water Act.

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
<p>O.REG 287/07 S.51(1) An amendment that is made to correct a clerical, grammatical or typographical error.</p>	<p>2-3, 2-21, 2-48, 2-54 (shoreline); 2-12, 2-13, 2-15, 2-30; 2-34, (conservation authority); 2-12 (community series); 2-21 (region, other systems); 2-22 (see); 2-27 (drinking water standards); 2-29 (states); 2-29 (report, states, agreement); 2-30 (the); 2-36 (authority); 2-41 (conservation authority); 2-44 (aesthetic objective, operation guidelines); 2-44 (recent deposits, formations); 2-48 (see, townships); 2-50 (region); 2-54 (federal lands, see); 2-55 (local, ecology, water systems, water use, water quality, trends, land use, watershed,</p>	<p>Un-capitalize word when it is not a proper noun, or not the beginning of a sentence.</p>
	<p>2-3 (Province); 2-6 (Conservation Area); 2-15, 2-19, 2-20 (Redside); 2-28 (Part); 2-31 (Province); 2-50 (protection);</p>	<p>Capitalize word when it is a proper noun, the beginning of a sentence, or for emphasis.</p>
	<p>2-36;</p>	<p>Space added to separate words, or after a period.</p>
	<p>Throughout report.</p>	<p>Remove double space after period.</p>
	<p>2-48; 2-55;</p>	<p>Remove extra space between words or punctuation.</p>
	<p>2-20 (Plants); 2-21 (services); 2-31 (ecosystems);</p>	<p>Add “s” to agree with the plural subject.</p>
	<p>2-22 (use);</p>	<p>Remove “s” when it does not agree with the singular tense.</p>
	<p>2-30 (,); 2-31, 2-54, (,);</p>	<p>Remove punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.</p>
	<p>2-27, 2-28 (,); 2-28 (:); 2-29 (,); 2-30, 2-32, 2-33, 2-35, 2-37, 2-44, 2-50, 2-54, 2-55 (,);</p>	<p>Add punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.</p>
<p>2-5, 2-6, 2-7, 2-8, 2-9, 2-10, 2-11, 2-21, (; - ,); 2-22 (. - ,); 2-48 (: to -);</p>	<p>Replace punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.</p>	

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	2-29 (eight, 95); 2-41 (nine); 2-44 (three);	Write out numbers under 10, and over 10,000. Use number when it is paired with a unit.
	2-1 (all); 2-12 (practices, also); 2-12 (the, /su); 2-15 (to, our); 2-15 (these); 2-20 (is most full, the area where, the, area); 2-21 (see Figure 2.5); 2-21 (treating, it to the customers); 2-22 (everyday); 2-28 (compounds); 2-29 (the, in); 2-30 (the); 2-31 (the); 2-32 (are present); 2-33 (also during this period); 2-33 (therefore); 2-35 (since); 2-36 (alternative); 2-37 (and, as well as); 2-41 (on, bases); 2-44 (number of, as); 2-46 (any, few); 2-48 (for the watershed, the, were); 2-50 (the land area consumed by, where, better, actual, what can also be observed is, widely); 2-52 (received); 2-54 (received); 2-55 (also, Chapter 5);	Remove word to improve the clarity of text.
	2-1 (a plethora of – a variety of); 2-1 (before – prior to); 2-2 (has also – have); 2-7 (one – the); 2-12 (tolerated – been amenable to); 2-12 (their – the); 2-13 (we – CLOCA staff); 2-15 (we – staff); 2-15 (our area – the watershed, we have, that has); 2-20 (this – and, live – are found); 2-21 (say – indicate); 2-21 (the area that the Conservation Authority manages - CLOSPA); 2-21 (customers live within – residents in); 2-21 (the – region); 2-21 (distributing - distribution); 2-27 (the study are – CLOSPA); 2-27 (us to see if – in understanding whether); 2-27 (the – water testing); 2-28 (their – a, as well as – and); 2-29 (the – this); 2-31 (to – for); 2-32 (are – is); 2-32 (here – with); 2-33 (have – has, has – had, of – at); 2-34 (in – from); 2-35 (are – is); 2-37 (salting – salt); 2-41 (biannual – biannually, 2/yr – twice per year); 4-47 (that – and); 2-48 (areas – watershed, with their – using, this – for the); 2-50 (uses – areas, is – are, a – the, this figure – Figure 2.19); 2-54 (we can – it is, suggest – expect); 2-55 (interpretation of – interpreting);	Replace word to improve the clarity of text or if it is misspelled.

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
	2-1 (in the CLOSPA, completed); 2-3 (in Table 2.1); 2-4 (Watersheds in); 2-5, 2-6, 2-7, 2-8, 2-9, 2-10, 2-11 (and); 2-7 (of); 2-19 (the, here, Endangered Species, 2007); 2-21 (However, Figure); 2-21 (intakes in CLOSPA, there are, population, private wells and); 2-22 (is responsible for); 2-22, 2-27 (processes); 2-29 (also, currently); 2-31 (that are); 2-33 (during this observation period was); 2-35 (creek); 2-43 (ODWS); 2-50 (can also be observed, total); 2-54 (in the CLOSPA, of); 2-55 (and, storm);	Add word improve the clarity of text.
	2-1 (CLOCA); 2-44 (ORM);	Spell out acronym when it is the first time the acronym is used, or for clarity.
	2-2, 2-12, 2-15 (CLOCA); 2-15, 2-19 (CLOSPA); 2-21 (TRSPA); 2-27 (WTP); 2-31 (ECO); 2-44 (AO, OG); 2-47 (PGMN); 2-48 (ELC, CLOSPA);	Update acronym to be consistent with the rest of the text (e.g., remove acronyms when not used again in the chapter, remove plural when not appropriate, etc.)
	2-21 (Census – Statistics Canada); 2-31 (add author CCME and update date to 2003); 2-32 (remove first name, add year, remove title); 2-33 (2005 b – 2003); 2-36 (2001 – 2003, remove e);	Update reference to be in correct and consistent form.
	2-35 (add e.g.);	Correct e.g., i.e., format.
	2-44 (add which); 2-50 (add this, however,;	Make one sentence two to improve the clarity of text or when there is a run-on sentence.
	2-29 (it – The agreement); 2-31 (run-on); 2-36 (however);	Combine two sentences to improve the clarity of text.
	2-20, 2-29 (name of Act, agreement); 2-20 (Name of report);	Italics words that are the title of a publication, and are defined in definition boxes.
	2-1 (watershed); 2-1, 2-2, 2-20, 2-29, 2-31, 2-55, (Assessment Report); 2-1, 2-2, (Characterization Report); 2-35 (algaecides); 2-55 (year);	Un-italics words when not the formal name of a report, nor the first time a “definition box” word is used, and when the emphasis is distracting from the clarity of the text.
	2-1; 2-2; 2-12; 2-13; 2-15; 2-20; 2-22	Bulleted list is capitalized, with semi-colon after each point, with “and” at end of second last point, and a period after the last point.
	2-1 (Start chapter at page 1);	Correct page numbering.
	2-21 (along with the municipal intakes and all private	Delete repetitive text or to improve the clarity of text.

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
	wells and boreholes – not shown in Figure sited);	
	2-55 (Of course, extreme storm can occur at anytime including the summer months.)	
	2-55 (Water quantity sustainability is assessed in the Water Budget chapter of this report ( <b>Chapter 3</b> ).)	
	2-27: The Lake Ontario drinking water intakes have provided a consistent source of high quality water to the residents of the CLOPA and neighbouring areas. Each of the upper tier municipalities tests the source and treated waters regularly, and reports are available to the public via the internet.	Add text to improve clarity of text and consistency between ARs
	2-1 changed text from: See below.	Changed text to: A summary of the data sources used is provided in Appendix A.
	2-47 changed text from: No trend was observed (data from 2002 2008) in any but 2 of CLOSPAs PGMN wells.	Changed text to: There were only two wells with observed nitrate trends from PGMN well data between 2002 and 2008 in CLOSPA.
	2-50 changed text from: <b>Figure 2.19</b> , however, is a good representation of the distribution of populations within CLOSPA, and shows that the areas with the greatest population density are in Oshawa, Whitby, Courtice and Bowmanville, and that the Town of Ajax, having very little urban area located within CLOSPA, actually has a population density that is similar to that of the rural areas.	Changed text to: <b>Figure 2.19</b> displays the population distribution in CLOSPA. Areas with the greatest population density are in Oshawa, Whitby, Courtice, and Bowmanville. The Town of Ajax has very little urban area within CLOSPA and has a population density that is similar to that of the rural areas.
	2-50 changed text from: Like Figure 2.19, this table also reveals the generalizations that can occur when one only considers average population density within a municipality, as opposed to actual distribution of population density.	Changed text to: Figure 2.19 and Table 2.10 portray the importance of considering actual distribution of population density as opposed to average population density within a municipality.
O.REG 287/07 S.51(2)	2-15 – 2-19; 2-37 – 2-38	Updated grammar and punctuation to improve clarity.
An amendment that is made to	2-47 (smaller font for table note);	Change font size to match rest of report.
	2-35 (remove bracket around sentence); 2-54 (add	Change brackets to be consistent.



TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
alter the style or presentation of text or graphics in order to improve electronic or print presentation.	bracket around explanation);	
	2-21, 2-22 (water budget);	Un-bold text if emphasis is distracting.
	2-30, 2-41, 2-48, 2-52, (appendix, table, figure reference);	Bold words that refer to other sections, chapters, figures, tables in the AR, or are titles in the report.
	2-32, 2-41, 2-44 (remove bold border);	Update textbox to be consistent format.
	2-20 (create one paragraph from two); 2-21 (shift text from bullets to paragraph); 2-35 (shift bullet point up);	Update spacing alignment to make text consistent between ARs and clearer to read.
O.REG 287/07 S.51(3) If the source protection plan contains a provision that is contingent on the occurrence of a future event and the event occurs, an amendment that is made to remove the text referring to the contingency and to make any related changes.	2-49 (update text pertaining to Amendment #128, which was approved in 2013);	Update text to align with events that have taken place since the ARs were approved.
O.REG 287/07 S.51(4)  An amendment that is made to change references to a name, title, location, or address if the name, title, location or address of a body, office, person, place or thing has changed.	2-28;	MOE to MOECC
	2-53 ( <a href="http://www.oshawaportauthority.com/facilities.html">http://www.oshawaportauthority.com/facilities.html</a> )	Remove broken links
	2-51;	Add link to <a href="http://swpip.ca/Threats">http://swpip.ca/Threats</a>
O.REG 287/07 S.51(5)  An amendment that is made to correct errors in the numbering of provisions of the source protection plan and any related changes in cross-reference.	2-32 (Table A.2 in Appendix A – Appendix B1.5); 2-33 (Table A.2 – Table B.9);	Correct errors in the numbering of provisions.

**NOTICE OF CHANGES TO THE APPROVED UPDATED ASSESSMENT REPORT: CENTRAL LAKE ONTARIO SOURCE PROTECTION AREA MADE UNDER SECTION 51 OF THE CLEAN WATER ACT**

Last Updated: January 2018

The following amendments were made to Chapter 3 of the **Approved Updated Assessment Report: Central Lake Ontario Source Protection Area** pursuant to Section 51 of Ontario Regulation 287/07 of the Clean Water Act.

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
<p>O.REG 287/07 S.51(1) An amendment that is made to correct a clerical, grammatical or typographical error.</p>	<p>3-1 (SPP); 3-2 (SPA); 3-4 (creeks); 3-5 (creeks); 3-9 (see); 3-15 (creeks); 3-17 (groundwater study's); 3-17 (sand); 3-23 (conservation authority); 3-25 (seaway); 3-27 (subwatershed, conservation authority); 3-28 (conservation authority, creeks); 3-30 (conservation authority); 3-31 (creeks); 3-32 (conservation authority, municipalities); 3-47 (creeks, small watersheds, source protection); 3-53 (source protection authority, to); 3-55 (region); 3-57 (source protection initiative); 3-62 (conservation authority); 3-63 (water demand, percent water demand); 3-64 (source protection, water supply, conservation authority); 3-68 (creeks); 3-68(southern); 3-71 (creeks, conservation authority, stress assessment); 3-73 (conservation authority); 3-112 (creeks); 3-113 (risk assessment, tolerance); 3-76 (conservation authority); 3-77 (study area, risk scenario); 3-78 (water budgets, study area); 3-79 (interim guidance, planned quantity of water); 3-82 (safe water level); 3-83 (version); 3-84 (conservation authorities); 3-89 (assessment, risk level); 3-91 (regions); 3-95 (study area); 3-98 (water supply); 3-105 (well system characterization); 3-105 (study period);</p>	<p>Un-capitalize word when it is not a proper noun, or not the beginning of a sentence.</p>
	<p>3-1 (Province); 3-15 (beach); 3-113 (area); 3-112, 3-113 (local area);</p>	<p>Capitalize word when it is a proper noun, the beginning of a sentence, or for emphasis.</p>
	<p>3-46 (between number and unit); 3-56; 3-102;</p>	<p>Space added to separate words, or after a period.</p>
	<p>3-1; 3-9; 3-17; 3-23; 3-47; 3-66; 3-67; 3-68; 3-112; 3-83;</p>	<p>Remove double space after period.</p>

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
	3-2 (before figure); 3-4 (before figure); 3-113, 3-78 (subwatershed);	Remove extra space between words or punctuation.
	3-55 (projects); 3-62 (records); 3-91 (regions);	Add “s” to agree with the plural subject.
	3-3, 3-4, 3-17 (“deeper”); 3-79 (/ to or); 3-59, 3-68 (‘moderate’); 3-89, 3-112 (-); 3-84, 3-105, 3-109 (,); 3-113 (:);	Remove punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	3-2, 3-4, 3-4 ( , before and); 3-19 ( , before but); 3-23 ( , before including); 3-35 (text boxes - .); 3-53 (1,000); 3-64 ( , before but); 3-71 (.); 3-78 ( , around additional text); 3-83 (1,000); 3-86, 3-87, 3-109, 3-110 (,); 3-113 (oxford comma); 3-113 (steady-state); 3-78 (WHAP-Q1); 3-90 (re-delineate); 3-51 (-);	Add punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	3-68 ( , instead of );	Replace punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	3-23 (five); 3-25 (two); 3-30 (19); 3-83;	Write out numbers under 10, and over 10,000. Use number when it is paired with a unit.
	3-3 (of); 3-3 (the); 3-4 (that), 3-26 (of, below); 3-28 (below); 3-30 (below); 3-30 (the previous graph); 3-45 (here); 3-52 (legislation); 3-55 (treatment, Reports); 3-57 (of this Assessment Report); 3-62 (the); 3-62 (takings, 50 litres/day); 3-72 (every aspect of); 3-72 (though); 3-113 (however); 3-112 (The summary for this study is as follows:); 3-78 (called); 3-78 (such); 3-83 (Ontario); 3-84 (in turn, forms, types of,); 3-84 (the); 3-86 (in heads); 3-89 (is); 3-95 (that which); 3-99 (however); 3-101 (aquifer units); 3-102, 3-103 (aquifer); 3-109 (on a, while) 3-110 (on a, while); 3-112 (a, of);	Remove word to improve the clarity of text.
	3-3 (document - report); 3-3 (it also - and); 3-3 (setting that supports – for); 3-20 (Physical Geography section to Section 3.2); 3-26 (the table to Table 3.3); 3-26 (Section Potential Impacts of Climate Change of this Assessment Report – Chapter 5.8); 3-27 (the graph to Figure 3.14); 3-29 (the graph to Figure 3.15); 3-29 (the graph to Figure 3.16); 3-31 (A# - A3); 3-36 (the section	Replace word to improve the clarity of text or if it is misspelled.

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
	of Groundwater Discharge to Section 3.5.2); 3-45 (area to watershed); 3-45 (tale to table); 3-53 (these were to this was), 3-56 (these types of events to rain or snowfall events, amounts to precipitation); 3-64 (so to as); 3-72 (as to and); 3-84 (however to but); 3-105 (oct. to October); 3-110 (while to whereas); 3-112 (shift for example to beginning of sentence);	
	3-4 (at);3-46 (area); 3-46 (Creek); 3-51 (the following); 3-52 (legislation for the, Moraine); 3-56 (models); 3-56 (temperature); 3-57 (tier); 3-61 (vegetation); 3-65 (there are); 3-73 (was collected, also); 3-78 (and); 3-79 (; or); 3-83 (2006, model); 3-84 (which, the, and, town of ... West Gwillimury); 3-86 (potentometric);	Add word improve the clarity of text.
	3-3 (ET); 3-4 (ORM); 3-14, 3-15, 3-18 , 3-22, 3-28, 3-30, 3-31; 3-32; 3-35, 3-36, 3-45; 3-46; 3-47; 3-55; 3-62; 3-63; 3-113; (ORM); 3-25 (IGLD 1985); 3-45 (GSC); 3-82; 3-51 (ET); 3-61 (PET); 3-113 (C.A.); 3-85 (heads); 3-109 (ORAC, SAC); 3-110 (ORM, TAC); 3-112 (PSW);	Spell out acronym when it is the first time the acronym is used, or for clarity.
	3-4, 3-25, 3-35, 3-36, 3-97 Table 3.20 (masl – mASL); 3-25(remove IGLD 1985 as acronym); 3-32 (remove reference to ANSI); 3-47, 3-82 (replace WSC with spelled out); 3-55 (remove wwmp); 3-61, 3-85 (remove PET); 3-63 (remove spelled out PTTW already prior); 3-89 (PSW); 3-90 (T to Tier); 3-95 (Water Taking Reporting System); 3-98 (ORMC); 3-101, 3-102, 3-103 (ORMC, TAC, SAC); 3-105, 3-113 (GW/SW); 3-45, 3-114 (ORAC);	Update acronym to be consistent with the rest of the text (e.g., remove acronyms when not used again in the chapter, remove plural when not appropriate, etc.)
	3-9 (correct name spelling; add b to 2002); 3-13, 3-14(CLOCA, 2007 to CLOCA and MNR, 2007); 3-20 (reference and acronym separated); 3-20 (comma after authors name); 3-25 (replace full reference with author year); 3-36 (correct spelling of author’s name); 3-55 (update author to NRC, add b to year, update Census to Statistics Canada for author); 3-56, 3-57 (Environment Canada, 2006a in <i>Climate Change Impacts and Adaptation Division, 2007 to Chiotti and Lavender,</i>	Update reference to be in correct and consistent form.Update reference

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
	2008); 3-61 (add year to reference); 3-15, 3-61, 3-70, (remove see reference from brackets);	
	3-82; 3-86;	Correct e.g., i.e., format.
	3-64 (separate at however); 3-71 (separate at however); 3-83 (remove and); 3-84 (run on); 1-109; 3-110; 3-110;	Make one sentence two to improve the clarity of text or when there is a run-on sentence.
	3-84 (including);	Combine two sentences to improve the clarity of text.
	3-83 (Clean Water Act, 2006, Technical Rules); 3-85 (technical rules); 3-87 (technical rules, quoted text); 3-89 (technical rules); 3-90 (technical rules); 3-94 (Water and Wastewater Master Plan); 3-98 (Technical Rules); 3-112 (TRSPA Updated Approved Assessment Report);	Italics words that are the title of a publication, and are defined in definition boxes.
	3-77 (Local Area); 3-78 (local area); 3-82 (in-well, in-aquifer); 3-89 (Planned Quantity of Water); 3-90 (local area); 3-94 (local area); 3-99 (Local area); 3-111, 3-112 (local area);	Un-italics words when not the formal name of a report, nor the first time a “definition box” word is used, and when the emphasis is distracting from the clarity of the text.
	3-1; 3-2; 3-4; 3-14; 3-15; 3-18; 3-19; 3-20; 3-23; 3-24; 3-26; 3-27; 3-28; 3-50; 3-51; 3-53; 3-57; 3-63; 3-72; 3-87;	Bulleted list is capitalized, with semi-colon after each point, with “and” at end of second last point, and a period after the last point.
	3-2;	Correct page numbering.
	3-55 (discussion of major storms shifted before seasonal impacts);	Shift sentence structure to improve readability.
	3-55 changed from: They cause higher autumn and winter precipitation (including very heavy snowfalls), and they protect the region from the worst of winter’s cold and summer’s heat.	Changed to: They cause higher autumn and winter precipitation (including very heavy snowfalls), and mitigate extreme hot and cold temperatures.
	3-56 changed from: The spring and summer months are tornado season in the south subregion, an area which has the highest frequency of tornadoes in Canada. Remnants of hurricanes occasionally produce high winds and excessive rainfalls.	Changed to: Tornadoes can be experienced in southern Ontario, which has the highest frequency of tornadoes in Canada, in the spring and summer months. Remnants of hurricanes also occasionally produce high winds and excessive rainfalls.
	3-56 changed from: The number of days exceeding 30°C in the south subregion is projected to more than double by 2050 (NRC, 2007). A separate study suggests	Changed to: The number of days exceeding 30°C in the south subregion is projected to more than double by 2050 and severe heat days could triple in some cities by 2080 (Chiotti and

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
	that such severe heat days could triple in some cities by 2080 (Cheng <i>et al.</i> , 2005 in <i>Climate Change Impacts and Adaptation Division</i> , 2007).	Lavender, 2008).
	3-84 changed from: While at the same time, evapotranspiration and evaporation from interception and soil zone storage are decreased as the vegetative and pervious cover is changed, increasing the recharge potential.	Changed to: Groundwater recharge is simultaneously increased through reductions to vegetative and pervious cover leading to reductions in evapotranspiration and evaporation from interception and soil zone storage.
	3-56 Although annual precipitation totals will likely increase,	Delete text because contradicts previous cited sentence.
O.REG 287/07 S.51(2) An amendment that is made to alter the style or presentation of text or graphics in order to improve electronic or print presentation.	3-2;	Change font size to match rest of report.
	3-45 (square to round brackets); 3-82 (add closing bullet); 3-91 (remove hanging);	Change brackets to be consistent.
	3-23 (average annual, average monthly); 3-113 (water budget); 3-78 (local area); 3-88 ( <i>Technical Bulletin: Part IX Local Area Risk Level</i> ); 3-89 (Planned Quantity of Water); 3-90 (within the model domain);	Un-bold text if emphasis is distracting.
	3-2, 3-4; 3-30 (Table 3.6); 3-51 (Appendix C); 3-57 (Chapter 5 (Drinking Water Threats Assessment)); 3-112 (Chapter 3, Chapter 5);	Bold words that refer to other sections, chapters, figures, tables in the AR, or are titles in the report.
	3-105 (total);	Un-underline text if emphasis is distracting.
	3-82, 3-85, 3-87, 3-90, 3-101, 3-112 (numbers to points);	Update bullets to be consistent within and across assessment reports.
	3-1 (Paragraph split into two); 3-9 (space out numbered list); 3-51 (shift sentence so not broken up by bulleted list); 3-87 (gather short quote with surrounding sentences); 3-110-112 (remove dash and beginning of paragraph from title of scenarios);	Update spacing alignment to make text consistent between ARs and clearer to read.
	3-4; 3-9; 3-10; 3-13; 3-17; 3-35; 3-36;	Remove border from definition boxes to be consistent across ARs.
	3-4; 3-9;	Combine two text definition boxes into one to improve visual of page.

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
<p>O.REG 287/07 S.51(4)</p> <p>An amendment that is made to change references to a name, title, location, or address if the name, title, location or address of a body, office, person, place or thing has changed.</p>	3-77; 3-83; 3-84; 3-87; 3-89; 3-102; 3-108;	MNR to MNRF
	3-1; 3-53; 3-62; 3-63; 3-77; 3-78; 3-86; 3-89; 3-90; Table 3.17; 3-99; 3-100	MOE to MOECC
	3-9 ( <a href="http://gsc.nrcan.gc.ca/hydrogeo/orm/overview_e.php">http://gsc.nrcan.gc.ca/hydrogeo/orm/overview_e.php</a> ); 3-60 ( <a href="http://sis2.agr.gc.ca/cansis/nsdb/ecostrat/district/climate.html">http://sis2.agr.gc.ca/cansis/nsdb/ecostrat/district/climate.html</a> .)	Remove broken link.
	3-55 changed text from: Growth within Durham Region is currently guided by the Durham Regional Official Plan (ROP) ( <a href="http://www.durham.ca/growthplan/growth.htm">http://www.durham.ca/growthplan/growth.htm</a> ), which establishes the parameters for development within Durham Region until 2021.	Changed text to: Growth within Durham Region is currently guided by the Durham Regional Official Plan (ROP), which establishes the parameters for development within Durham Region.
	3-56 (which remains the costliest natural disaster in Canadian history.);	Delete text.

# **NOTICE OF CHANGES TO THE APPROVED UPDATED ASSESSMENT REPORT: CENTRAL LAKE ONTARIO SOURCE PROTECTION AREA MADE UNDER SECTION 51 OF THE CLEAN WATER ACT**

Last Updated: January 2018

The following amendments were made to Chapter 4 of the **Approved Updated Assessment Report: Central Lake Ontario Source Protection Area** pursuant to Section 51 of Ontario Regulation 287/07 of the Clean Water Act.

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
O.REG 287/07 S.51(1) An amendment that is made to correct a clerical, grammatical or typographical error.	4-1 (SPC, SPA); 4-15 (watershed region); 4-16 (vulnerability); 4-20 (SPA); 4-20 (information); 4-24 (conservation authorities);	Un-capitalize word when it is not a proper noun, or not the beginning of a sentence.
	4-3 (Province); 4-17, 4-20 (Type);	Capitalize word when it is a proper noun, the beginning of a sentence, or for emphasis.
	4-21; 4-22; 4-27;	Space added to separate words, or after a period.
	4-2; 4-3; 4-15; 4-17; 4-18; 4-19; 4-20; 4-21; 4-22; 4-26; 4-27;	Remove double space after period.
	4-2 (.); 4-8 (-); 4-17 (. In text box); 4-20 (,); 4-21, 4-22 (1,000);	Add punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	4-15 ("low"); 4-17 (:);	Remove punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	4-17 (; - ,); 4-18 (; to -); 4-26 (: to -);	Replace punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	4-17 (1, 3); 4-18 (2); 4-26 (1);	Write out numbers under 10, and over 10,000. Use number when it is paired with a unit.
	4-8 (following)4-8 (included); 4-15 (the); 4-16 (2); 4-20 (documented in this Assessment Report);	Remove word to improve the clarity of text.
	4-7 (out lined – outlined); 4-8 (are – area); 4-15 (consistent – consistently); 4-15 (3-Dimensional – three-dimensional); 4-17 (and is – which are); 4-20 (factor – circumstance); 4-18, 4-23 (hr – hour);	Replace word to improve the clarity of text or if it is misspelled.
4-7 (was, that are); 4-8 (shows SGRAs with vulnerability scores ); 4-15 (Appendix); 4-27 (and);	Add word improve the clarity of text.	



TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
	4-7 (ORM); 4-8 (ET);	Spell out acronym when it is the first time the acronym is used, or for clarity.
	4-3 (WWIS); 4-15 (YPTD); 4-16 (WTP, IPZ)); 4-17 (WTP);	Update acronym to be consistent with the rest of the text (e.g., remove acronyms when not used again in the chapter, remove plural when not appropriate, etc.)
	4-1;	Correct e.g., i.e., format.
	4-7 (was run on)	Make one sentence two to improve the clarity of text or when there is a run-on sentence.
	4-3; 4-15; 4-17; 4-20 (Assessment Report);	Un-italics words when not the formal name of a report, nor the first time a “definition box” word is used, and when the emphasis is distracting from the clarity of the text.
	4-1; 4-7; 4-17; 4-20;	Bulleted list is capitalized, with semi-colon after each point, with “and” at end of second last point, and a period after the last point.
	4-1 to 4-4	Correct page numbering.
	4-2 Text changed from: In <b>Chapter 5</b> , the natural vulnerability of an area is considered along with specific contaminants to determine risk, as contaminant behaviour varies when released into the environment.	Text changed to: In <b>Chapter 5</b> , the natural vulnerability of an area is considered along with specific contaminants to determine risk, as contaminant behaviour varies based on surrounding environmental factors.
	4-16 Text changed from: This Surface Water Vulnerability Analysis was undertaken by Stantec Consulting Ltd. ( <i>Lake Ontario Collaborative—Surface Water Vulnerability Assessment 2008, 2010 &amp; 2011—See <b>Appendix G</b> for more detail</i> ) for the Region of Durham Water Treatment Plants (WTP).	Text changed to: This Surface Water Vulnerability Analysis was undertaken by Stantec Consulting Ltd. for the Region of Durham Water Treatment Plants (WTP) ( <i>Lake Ontario Collaborative—Surface Water Vulnerability Assessment 2008, 2010 &amp; 2011—See <b>Appendix G</b> for more detail</i> ).
4-8 (since it would not make practical sense to protect them.)	Delete repetitive text or to improve the clarity of text.	
O.REG 287/07 S.51(2) An amendment that is made to alter the style or presentation of text or graphics in order to improve electronic or print presentation.	4-3 (add close);	Change brackets to be consistent.
	4-8 (Chapter 3, Chapter 5); 4-15 (Chapter 3); 4-27 (Chapter 5);	Bold words that refer to other sections, chapters, figures, tables in the AR, or are titles in the report.
	4-1; 4-7; 4-17; (spacing to match other reports); 4-8 (add bullets to list)	Update bullets to be consistent within and across assessment reports.

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
	4-3; 4-7; 4-17;	Remove border from definition boxes to be consistent across ARs.
<p>O.REG 287/07 S.51(4)</p> <p>An amendment that is made to change references to a name, title, location, or address if the name, title, location or address of a body, office, person, place or thing has changed.</p>	4-2; 4-3; 4-16; 4-21; 4-22	MOE to MOECC

# **NOTICE OF CHANGES TO THE APPROVED UPDATED ASSESSMENT REPORT: CENTRAL LAKE ONTARIO SOURCE PROTECTION AREA MADE UNDER SECTION 51 OF THE CLEAN WATER ACT**

**Last Updated: January 2018**

*The following amendments were made to Chapter 5 of the **Approved Updated Assessment Report: Central Lake Ontario Source Protection Area** pursuant to Section 51 of Ontario Regulation 287/07 of the Clean Water Act.*

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
O.REG 287/07 S.51(1) An amendment that is made to correct a clerical, grammatical or typographical error.	5-1 (conservation authorities, CA, municipality); 5-12 (impervious); 5-21 (managed land, central, low); 5-30 (issues); 5-40 (wastewater treatment plants, events based approach, source protection committees); 5-41 (source protection plan, intakes); 5-46 (spills); 5-62 (watersheds); 5-64 (see); 5-66 (identification); 6-67 (source protection committee, source protection plan);	Un-capitalize word when it is not a proper noun, or not the beginning of a sentence.
	5-14 (Tables Circumstance); 5-21 (Greenfield); 5-40 (Type);	Capitalize word when it is a proper noun, the beginning of a sentence, or for emphasis.
	5-63; 5-64;	Space added to separate words, or after a period.
	5-1; 5-5; 5-12; 5-13; 5-15; 5-43; 5-44; 5-46; 5-65; 5-66; 5-67;	Remove double space after period.
	5-1, 5-44;	Remove extra space between words or punctuation.
	5-5 (sections); 5-8 (plans); 5-21 (SGRAs); 5-24 (HVAs, SGRAs); 5-34, 5-35 (IPZ-1's); 5-37 (IPZ-1s, IPZ-2s); 4-46 (spills);	Remove "s" when it does not agree with the singular tense.
	5-5 (:); 5-6 (-); 5-11(-); 5-12(-); 5-13 (""); 5-14 (,); 5-14 (-); 5-15 (-); 5-21 (,); 5-30 (. , -); 5-31 (,); 5-34 (,);	Remove punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	5-1 (,); 5-6 (,); 5-12 (,); 5-14 (,); 5-15 (,); 5-30 (,); 5-31 (,); 5-34 (,); 5-37 (,); 5-44 (-); 5-45 (, -); 5-61 (,); 5-66 (, .); 5-67;	Add punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	5-3 (; to -); 5-7 (; - .); 5-12 (: - .); 5-15 (: - ,); 5-27 (; - ,); 5-44 (- to .)	Replace punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
5-46 (8);	Write out numbers under 10, and over 10,000. Use number	

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
		when it is paired with a unit.
	4-1 (must, is); 5-6 (however); 5-7 (a); 5-13 (however); 5-24 (respectively); 5-30 (the, in, a); 5-38 (in the study area); 5-40 (is); 5-64 (however); 5-64 (in the order of); 5-65 (11);	Remove word to improve the clarity of text.
	4-6 (of –or); 5-15 (Ont. – o.); 5-21 (aslo – also); 5-21 (for – to); 5-24 (what – the); 5-43, 5-52, 5-63, (CLOSPA – CTC SPR); 5-65 (Chapter 5 – this Chapter);	Replace word to improve the clarity of text or if it is misspelled.
	5-5, 5-7 (section); 3-30 (a threat); 5-34 (at); 5-62 (of, includes a chapter that); 5-67 (and);	Add word improve the clarity of text.
	5-12 (AML); 5-30 (WTP); 5-46 (SWP);	Spell out acronym when it is the first time the acronym is used, or for clarity.
	5-10, 5-11, 5-12 (IPZ-2); 5-11 (AML, NAML, MPAC); 5-12 (IPZ, SGRA, HVA); 5-15 (HVA, SGRA); 5-30 (IPZ-2); 5-34 (IPZ-2); 5-40 (WTP); 5-41 (WTP, WWTP); 5-44 (WWTP); 5-56 (EBA); 5-65 (LOC); 5-66 (WWTP, WTP, CSO, STS);	Update acronym to be consistent with the rest of the text (e.g., remove acronyms when not used again in the chapter, remove plural when not appropriate, etc.)
	5-9 (report name – reference); 5-61, 5-62 (Chiotti and Lavender, 2008 update); 5-61 (add a to year); 5-62 (separate multiple references with ); 5-62 (include author for each report they authored in list);	Update reference to be in correct and consistent form.
	5-41; 5-45; 5-56; 5-63; 5-66;	Correct e.g., i.e., format.
	5-61 (run on sentence in order to – this will);	Make one sentence two to improve the clarity of text or when there is a run-on sentence.
	5-15 (Technical Rules, Part X.2 (113));	Italics words that are the title of a publication, and are defined in definition boxes.
	5-1, 5-6, 5-7, 5-12, 5-38, 4-46, 5-56, 5-61, 5-65 (Assessment Report); 5-1 (watershed); 5-12, 5-13 ((Durham Region, 2010)); 5-35 (In conclusion, NO amount of nutrients applied will result in a significant or moderate drinking water threat.); 5-40 (MOECC’s, dated July 2009); 5-63 (the); 5-66 (threshold);	Un-italics words when not the formal name of a report, nor the first time a “definition box” word is used, and when the emphasis is distracting from the clarity of the text.
	5-5; 5-7; 5-8; 5-11; 5-12; 5-40; 5-41; 5-66;	Bulleted list is capitalized, with semi-colon after each point, with “and” at end of second last point, and a period after the last

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
		point.
	5-1 (start page number at 1);	Correct page numbering.
	5-13: The Impervious surfaces analyses for the CLOSPA study area have been completed for HVAs, SGRAs, IPZ-1s and 2s (where they extend onto the land; Oshawa). The analyses include all on-land areas.	Delete repetitive text or to improve the clarity of text.
	5-66: Based on the criteria above, the following list of preliminary scenarios was modelled:	
	5-58 Changed text from: Peer review is underway on the model calibration and validation process but could not be completed within the time frame for this Assessment Report.	Changed text to: Peer review is underway on the model calibration and validation process, but could not be completed within the time frame for completing the Assessment Report.
O.REG 287/07 S.51(2) An amendment that is made to alter the style or presentation of text or graphics in order to improve electronic or print presentation.	5-5, 5-6, 5-11, 5-14, 5-15; 5-30 (square – round);	Change brackets to be consistent.
	TOC; 5-11 (no significant or moderate threats); 5-12 (no significant or moderate threats); 5-15 (no significant threats); 5-11, 5-12, 5-21, 5-24, 5-27, 5-34, 5-35, 5-37, 5-38 (only low); 5-15 (Tables 10 [DW6M DNAPLS], 17 [CSGRAHVA6M Chemical], 11 [DW6L DNAPLS], and 18 [CSGRAHVA6L Chemical]); 5-21, 5-24, 5-27, 5-34, 5-35 (only low); 5-30 (74[CIPZWE5L Chemical], 69[PIPZ5L Pathogen], Tables 43[CIPZWE4.5L Chemical], 72[PIPZWE4.5L Pathogen], 5-35 (In conclusion, NO amount of nutrients applied will result in a significant or moderate drinking water threat.); 5-40 (Rule 68, Rule 69, Rule 130); 5-65 (quantity, no significant threats);	Un-bold text if emphasis is distracting.
	5-1 (Section <b>Error! Reference source not found.</b> ); 5-7 (section); 5-15 (Appendix E, Chapter 3); 5-44 (Combined Sewer Overflow); 5-64 (Table 2.6);	Bold words that refer to other sections, chapters, figures, tables in the AR, or are titles in the report.
	5-3 (water quantity, water quality); 5-30 (significant);	Un-underline text if emphasis is distracting.
	5-7, 5-13 (square – round)	Update bullets to be consistent within and across assessment reports.
	5-42;	Update border around tables to be consistent.

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
	5-24 (same thought stream, combine paragraphs);	Update spacing alignment to make text consistent between ARs and clearer to read.
O.REG 287/07 S.51(4) An amendment that is made to change references to a name, title, location, or address if the name, title, location or address of a body, office, person, place or thing has changed.	5-1; 5-3; 5-5; 5-6; 5-7; 5-8; 5-10; 5-12; 5-14; 5-40; 5-45; 5-60;	MOE to MOECC
	5-1; 5-8; 5-9; 5-10; 5-14; 5-15; 5-19; 5-22; 5-25; 5-28; 5-29; 5-31; 5-32; 5-34; 5-35; 5-61; 5-62; 5-64;	Update link to <a href="http://swpip.ca/Threats">http://swpip.ca/Threats</a>
	5-15; 5-16; 5-28;	Updated text on figure to direct to <a href="http://swpip.ca/Threats">http://swpip.ca/Threats</a>

## **NOTICE OF CHANGES TO THE APPROVED UPDATED ASSESSMENT REPORT: CENTRAL LAKE ONTARIO SOURCE PROTECTION AREA MADE UNDER SECTION 51 OF THE CLEAN WATER ACT**

Last Updated: January 2018

The following amendments were made to Chapter 6 of the **Approved Updated Assessment Report: Central Lake Ontario Source Protection Area** pursuant to Section 51 of Ontario Regulation 287/07 of the Clean Water Act.

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
O.REG 287/07 S.51(1) An amendment that is made to correct a clerical, grammatical or typographical error.	6-1 (assessment report, source protection plan, water treatment plants); 6-2 (creek, conservation authority, watershed protection, significant, moderate, low, source protection plan); 6-4 (source protection plan); 6-7 (source protection plan, source protection area, source protection regions, source protection plan, source protection authority, assessment reports);	Un-capitalize word when it is not a proper noun, or not the beginning of a sentence.
	6-7 (proposed);	Capitalize word when it is a proper noun, the beginning of a sentence, or for emphasis.
	6-1; 6-3; 6-4;	Remove double space after period.
	6-2;	Remove extra space between words or punctuation.
	6-2 (authority's);	Add "s" to agree with the plural subject.
	6-2 (.); 6-2 (-); 6-3 (,);	Remove punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	6-1 (,); 6-2 (,); 6-2 (-);6-3 (,); 6-4 (.); 6-4 (,); 6-5 (.); 6-6 (,);	Add punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	6-1 (; - ,); 6-4 (,); 6-4 (; - ,);	Replace punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	6-4 (eight)	Write out numbers under 10, and over 10,000. Use number when it is paired with a unit.
	6-1 (of); 6-3 (described about, (11)); 6-6 (CLOSPA updated);	Remove word to improve the clarity of text.
6-1 (interpretation – interpreting); 6-2 (Nov. – November); 6-3 (on – one); 6-4 (CLOSPA – CTC Source	Replace word to improve the clarity of text or if it is misspelled.	

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
	Protection Region);	
	6-1 (methods); 6-3 (and, a); 6-5 (of);	Add word improve the clarity of text.
	6-4 (WWTP); 6-4 (LOC); 6-5 (SPC); 6-6 (PSW);	Spell out acronym when it is the first time the acronym is used, or for clarity.
	6-2, 6-3 (IPZ-2); 6-3 (LOC); 6-4 (CSO, STS, IPZ, EBA); 6-7 (SPC);	Update acronym to be consistent with the rest of the text (e.g., remove acronyms when not used again in the chapter, remove plural when not appropriate, etc.)
	6-4 (; - .); 6-5 (run on sentence: in order to – This will);	Make one sentence two.
	6-1 (Ontario Regulation 903); 6-2 (Technical Rules 114 – 117); 6-7 (Proposed CTC Source Protection Plan, Amended Proposed Source Protection Plan);	Italics words that are the title of a publication, and are defined in definition boxes.
	6-3 (threshold);	Un-italics words when not the formal name of a report, nor the first time a “definition box” word is used, and when the emphasis is distracting from the clarity of the text.
	6-4;	Bulleted list is capitalized, with semi-colon after each point, with “and” at end of second last point, and a period after the last point.
	6-7 Change text from: The SPC must develop policies in its source protection plan to address the eleven significant drinking water quantity threats, and eight significant drinking water quality threats from activities (to municipal wells outside of CLOSPA and to CLOSPA Lake Ontario intakes respectively located within the CLOSPA jurisdiction) identified in this Assessment Report.	Change text to: The SPC must develop policies in its source protection plan to address the eleven significant drinking water quantity threats to municipal wells outside of CLOSPA, and eight significant drinking water quality threats to CLOSPA Lake Ontario intakes identified in this Assessment Report.
	6-1 Of course, extreme storm can occur at any time including the summer months.	Delete repetitive text or to improve the clarity of text.
	6-4 Based on the criteria above, the following list of preliminary scenarios was modelled:	
	6-6 Thus, Scenarios G and H represent a return to historic conditions.	



TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
<p>O.REG 287/07 S.51(2)</p> <p>An amendment that is made to alter the style or presentation of text or graphics in order to improve electronic or print presentation.</p>	6-1 (add around year);	Change brackets to be consistent.
	6-1 (Watershed Characterization); 6-2 (Water Budget, vulnerability, HVAs, SGRAs, IPZ-1s and 2s, WHAPs, potential, threats, must, may); 6-3 (potential, HVAs); 6-3 (quality, activities conditions or issues, SGRAs, eleven (11) existing moderate, quantity, eight significant, quality, activities); 6-4 (8, quality, conditions, or issues); 6-7 (must, eleven significant, quantity, eight significant, quality);	Un-bold text if emphasis is distracting.
	TOC;	Bold words that refer to other sections, chapters, figures, tables in the AR, or are titles in the report.
	6-3 (eight); 6-4 (8); 6-7 (eleven, eight);	Un-underline text if emphasis is distracting.
<p>O.REG 287/07 S.51(4)</p> <p>An amendment that is made to change references to a name, title, location, or address if the name, title, location or address of a body, office, person, place or thing has changed.</p>	6-4;	MOE to MOECC
	6-1 (The next step is to develop a source protection plan to protect these sources.);	Delete text
	6-2; 6-3;	Update website link to <a href="http://swpip.ca/Threats">http://swpip.ca/Threats</a>

**NOTICE OF CHANGES TO THE APPROVED UPDATED ASSESSMENT REPORT: CENTRAL LAKE ONTARIO SOURCE PROTECTION AREA MADE UNDER SECTION 51 OF THE CLEAN WATER ACT**

**Last Updated: January 2018**

*The following amendments were made to Chapter 7 of the **Approved Updated Assessment Report: Central Lake Ontario Source Protection Area** pursuant to Section 51 of Ontario Regulation 287/07 of the Clean Water Act.*

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
O.REG 287/07 S.51(1) An amendment that is made to correct a clerical, grammatical or typographical error.	Whole chapter	Update references to all have the same format.
O.REG 287/07 S.51(6) An amendment that is made to correct errors, if it is patent that an error has been made and what the correction should be.	Whole chapter	Add reference that are cited in Chapters 1-6 and missing from reference list.

## **NOTICE OF CHANGES TO THE APPROVED UPDATED ASSESSMENT REPORT: CENTRAL LAKE ONTARIO SOURCE PROTECTION AREA MADE UNDER SECTION 51 OF THE CLEAN WATER ACT**

**Last Updated: January 2018**

*The following amendments were made to Appendix A of the **Approved Updated Assessment Report: Central Lake Ontario Source Protection Area** pursuant to Section 51 of Ontario Regulation 287/07 of the Clean Water Act.*

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
O.REG 287/07 S.51 (1) An amendment that is made to correct a clerical, grammatical or typographical error.	A1-1 (internal, provincial);	Un-capitalize word when it is not a proper noun, or not the beginning of a sentence.
	A1 (TOC); A1-3;	Remove extra space between words or punctuation.
	A1-1 (of);	Remove word to improve the clarity of text.
	A1-1 (This includes – These include);	Replace word to improve the clarity of text or if it is misspelled.
O.REG 287/07 (2) An amendment that is made to alter the style or presentation of text or graphics in order to improve electronic or print presentation.	A1-1; A1-2;	Bulleted list is capitalized, with semi-colon after each point, with “and” at end of second last point, and a period after the last point.
	A1 (TOC to match rest of report);	Update spacing alignment to make text consistent between ARs and clearer to read.
O.REG 287/07 S.51(4) An amendment that is made to change references to a name, title, location, or address if the name, title, location or address of a body, office, person, place or thing has changed.	A1-1; A1-7;	MNR to MNRF
	A1-1; A1-7;	MOE to MOECC
	A1-2;	Ministry of Northern Development, Mines, and Forestry – Ministry of Northern Development, and Mines

## **NOTICE OF CHANGES TO THE APPROVED UPDATED ASSESSMENT REPORT: CENTRAL LAKE ONTARIO SOURCE PROTECTION AREA MADE UNDER SECTION 51 OF THE CLEAN WATER ACT**

**Last Updated: January 2018**

*The following amendments were made to Appendix B of the **Approved Updated Assessment Report: Central Lake Ontario Source Protection Area** pursuant to Section 51 of Ontario Regulation 287/07 of the Clean Water Act.*

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
O.REG 287/07 S.51(1) An amendment that is made to correct a clerical, grammatical or typographical error.	B1-1 (source water protection, planning, source protection, plan); B1-2 (conservation authorities); B-5 (creeks, planning); B1-12 (methodology handbook); B1-16 (folder, attachment, conservation authority);	Un-capitalize word when it is not a proper noun, or not the beginning of a sentence.
	B1-1 (Water Province,); B1-2, B1-16, B1-31 (Province); B1-26 (Rose); B1-33 (Piper, Stiff, Rose);	Capitalize word when it is a proper noun, the beginning of a sentence, or for emphasis.
	B1-15, B1-16 (-);	Remove punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	B1-16 (# - number); B1-35 (; - ,);	Replace punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	B1-2 (Error! Reference source not found – Table B-2); B-5 (Error! Reference source not found – Table B-3); B1-8 (Ph – pH); B-2 (the reference list – Chapter 7);	Replace word to improve the clarity of text or if it is misspelled.
	B1-1 (the, Authority); B1-2 (Figure B-1); B1-35 (monitoring stations with);	Add word to improve the clarity of text.
	B1-2 (three);	Remove word to improve the clarity and accuracy of text.
	B1-5 (EC); B1-8 (ORM); B1-33 (CA);	Spell out acronym when it is the first time the acronym is used, or for clarity.
	B1-5, B1-10, (SWP);	Update acronym to be consistent with the rest of the text (e.g., remove acronyms when not used again in the chapter, remove plural when not appropriate, etc.)
B1-12 (1998 – 1999); B1-16 (remove month);	Update reference to be in correct and consistent form.	

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
	B1-1; B1-12; B1-15; B1-17; B1-26; B1-33; B1-34; B1-35;	Bulleted list is capitalized, with semi-colon after each point, with “and” at end of second last point, and a period after the last point.
O.REG 287/07 S.51(2) An amendment that is made to alter the style or presentation of text or graphics in order to improve electronic or print presentation.	B1 (TOC update page number field);	Correct page numbering.
	B1-1, B1-15, B1-17, B1-26, B1-33, B1-34, B1-35 (square to round); B1-15 (add bullets to list); B1-25, B1-32;	Update bullets to be consistent within and across assessment reports. Shift figure/table title to bottom of figure/table to be consistent.
O.REG 287/07 S.51(3) If the source protection plan contains a provision that is contingent on the occurrence of a future event and the event occurs, an amendment that is made to remove the text referring to the contingency and to make any related changes.	B-8 Table B-5: PGMN Groundwater Monitoring Well Details	Update station ID remove W00000168-1 decommissioned on December 18, 2008, and remove W0000041-1 Decommissioned on March 9, 2010.
O.REG 287/07 S.51(4) An amendment that is made to change references to a name, title, location, or address if the name, title, location or address of a body, office, person, place or thing has changed.	B1-10;	MNR to MNRF
	B1-7; B1-8; B1-10;	MOE to MOECC
	B-6 ( <a href="http://www.climate.weatheroffice.ec.gc.ca/climateData/canada_e.html">http://www.climate.weatheroffice.ec.gc.ca/climateData/canada_e.html</a> to <a href="http://climate.weather.gc.ca/">http://climate.weather.gc.ca/</a> )	Update broken link

# **NOTICE OF CHANGES TO THE APPROVED UPDATED ASSESSMENT REPORT: CENTRAL LAKE ONTARIO SOURCE PROTECTION AREA MADE UNDER SECTION 51 OF THE CLEAN WATER ACT**

**Last Updated: January 2018**

*The following amendments were made to Appendix C of the **Approved Updated Assessment Report: Central Lake Ontario Source Protection Area** pursuant to Section 51 of Ontario Regulation 287/07 of the Clean Water Act.*

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
O.REG 287/07 S.51(1) An amendment that is made to correct a clerical, grammatical or typographical error.	C1-1 (the); C1-7 (municipal); C2-1 (supply, demand, reserve); C2-5 (current future conditions);	Un-capitalize word when it is not a proper noun, or not the beginning of a sentence.
	C1-6 (Report);	Capitalize word when it is a proper noun, the beginning of a sentence, or for emphasis.
	C1-6 (arises);	Add "s" to agree with the plural subject.
	C1-6 (.); C1-7 (.);	Remove punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	C1-5 (-); C2-1 (.); C2-2 (,);	Add punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	C1-1 (into account); C1-2 (in, then); C1-6 (that is undergoing of); C2-5 (however);	Remove word to improve the clarity of text.
	C1-2 (then); C1-6 (Interim); C1-6 (Gaps); C2-1 (Tier, and)	Add word improve the clarity of text.
	C1-1 (Environment Canada); C1-2 (ET); C1-5 (ORM); C2-5 (SGRA); C1-6 (db – database);	Spell out acronym when it is the first time the acronym is used, or for clarity.
	C1-1 (YPDT); C2-3 (GW use, SW use, WWIS)	Update acronym to be consistent with the rest of the text (e.g., remove acronyms when not used again in the chapter, remove plural when not appropriate, etc.)
	C1-5 (replace ; with .); C1-6 (separate 2 thoughts); C2-4 (at however);	Make one sentence two to improve the clarity of text or when there is a run-on sentence.
	C1-4 (Technical Rules, 2009); C1-6 (Conceptual Water Budget Interim Report);	Italics words that are the title of a publication, and are defined in definition boxes.
C1-1; C1-2; C1-3; C1-5; C1-6; C2-1; C2-4;	Bulleted list is capitalized, with semi-colon after each point, with "and" at end of second last point, and a period after the last point.	

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
<p>O.REG 287/07 S.51(2)</p> <p>An amendment that is made to alter the style or presentation of text or graphics in order to improve electronic or print presentation.</p>	C1-3 (figure note to font 9);	Change font size to match rest of report
	C1-1, C1-3, C1-5, C1-6, C2-9, C2-4, (square – round);	Update bullets to be consistent within and across assessment reports.
	C2-6 – C2-12;	Shift figure title to bottom of figure to be consistent.
	C1-6 (separate sentence from bullet point);	Paragraph split into two to improve clarity of ideas.
	TOC;	Update spacing alignment to make text consistent between ARs and clearer to read.
<p>O.REG 287/07 S.51(4)</p> <p>An amendment that is made to change references to a name, title, location, or address if the name, title, location or address of a body, office, person, place or thing has changed.</p>	C1-7;	MNR to MNRF
	C1-6; C1-7; C2-2	MOE to MOECC
	<p>C1-1  (<a href="http://sis.agr.gc.ca/cansis/nsdb/detailed/intro.html">http://sis.agr.gc.ca/cansis/nsdb/detailed/intro.html</a> - <a href="http://sis.agr.gc.ca/cansis/nsdb/index.html">http://sis.agr.gc.ca/cansis/nsdb/index.html</a>), delete links  (<a href="http://sis.agr.gc.ca/cansis/publications/manuals/cssc2.html">http://sis.agr.gc.ca/cansis/publications/manuals/cssc2.html</a>,  <a href="http://sis.agr.gc.ca/cansis/references/1998sc_a.html">http://sis.agr.gc.ca/cansis/references/1998sc_a.html</a>)</p>	Update website links

**NOTICE OF CHANGES TO THE APPROVED UPDATED ASSESSMENT REPORT: CENTRAL LAKE ONTARIO SOURCE PROTECTION AREA MADE UNDER SECTION 51 OF THE CLEAN WATER ACT**

Last Updated: January 2018

The following amendments were made to Appendix D of the **Approved Updated Assessment Report: Central Lake Ontario Source Protection Area** pursuant to Section 51 of Ontario Regulation 287/07 of the Clean Water Act.

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
<p>O.REG 287/07 S.51(1) An amendment that is made to correct a clerical, grammatical or typographical error.</p>	<p>D1-1 (section); D2-1 (see, highly vulnerable aquifers, high, low, issues, risk score, vulnerability); D2-4 (study area); D3-4 (high, Medium, low, municipal); D2-5 (study area); D2-6 (see); D2-7 (the, index); D2-6, D2-8, (factor); D2-10 (scores); D2-10, D2-11 (vulnerability score); D2-15 (high vulnerability, low vulnerability, vulnerability score); D2-19 (vulnerability score); D2-24 (conservation authorities); D2-26 (vulnerability score); D2-27 (vulnerability score, high, moderate, low, risk); D2-31 (high volume recharge areas); D2-41 (intake, lake); D2-45 (study); D2-47 (tributary, creeks, harbour); D2-48 (lake); D2-50 (percentage, land characteristics, transport pathways); D2-51 (conservation authorities); D3-1 (assessment reports, authorities, technical, managed, imperviousness); D3-2 (updated assessment report); D3-2 (groundwater vulnerability analysis, the); D3-4 (see); D3-6 (transport pathways inventory, appropriate score modifier, the, adjustment, risk management activities); D3-7 (boreholes, quarries); D2-20 (guidance); D3-22 (region); D3-25 (delineation); D3-30 (see); D3-37 (assessment reports, vulnerability analysis); D3-38 (see, management land, imperviousness); D3-39 (delineation); D3-39 (vulnerability, management land, imperviousness);</p>	<p>Un-capitalize word when it is not a proper noun, or not the beginning of a sentence.</p>
	<p>D1-7; D3-12; D3-23;</p>	<p>Space added to separate words, or after a period.</p>
	<p>D1-1; D1-5; D2-6; D2-7; D2-9; D2-11; D2-19; D2-24; D2-</p>	<p>Remove double space after period.</p>



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	25; D2-26; D2-27; D2-30; D2-31, D2-33; D2-39; D2-48; D3-1; D3-4; D3-5; D3-6; D3-7; D3-37; D3-38;	
	D1-1; D2-10; D2-24; D2-26; D2-51; D3-18; D3-21; D2-23; Figure and table numbering remove space after dash through whole chapter.	Remove extra space between words or punctuation.
	D2-26 (relates); D2-50 (intakes); D3-30 (WHPAs);	Add “s” to agree with the plural subject.
	D2-26 (lead); D2-41 (hour);	Remove “s” when it does not agree with the singular tense.
	D2-30 (“”); D2-41 (.); D2-41 (-); D2-45 (,); D2-45 (-); D2-46 (, -); D2-47 (;); D3-6 (,);	Remove punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	D2-3 (.); D2-4 (.); D2-10 (,); D2-15 (,); D2-29 (-); D2-30 (,); D2-33 (.); D2-42 (-); D2-45 (,); D2-48; D3-1 (,); D3-5 (,); D3-10, D3-11, D3-12, D3-13, D3-14, D3-16, D3-17, D3-18 (.); D3-30 (, .); D3-38 (.); D3-38 (,);	Add punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	D2-1 (-.); D2-5 (:-.); D2-25 (, - :); D3-20 (; to .); D3-22 (: to .); D3-3 (watershed – source protection); D3-20 (thirteen – thirty);	Replace punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	D2-41 (3); D2-50 (3); D3-1 (three);	Write out numbers under 10, and over 10,000. Use number when it is paired with a unit.
	D2-1 (area); D2-5 (SWP Region); D2-5 (Includes); D2-10, D2-11 (SPA); D2-19 (Region); D2-27 (Source Water Area (SPA), SPA); D2-30 (high volume recharge areas); D2-39 (process); D2-41 (however); D2-45 (the, is); D2-47 (to each other); D2-50 (and); D3-1 (2010, be, water); D3-2 (conservation); D3-7 (they); D3-16 (the); D2-39 (of);	Remove word to improve the clarity of text.
	D1-1 (Jun – June, Apr –April, Aug – August); D2-1 (is – are); D2-24 (remote – away); D2-26 (Error! Reference source not found. – <b>Table D2-7</b> ); D2-28 (See the following section: Transport Pathways Update to Groundwater Vulnerability, CTC SWP Region – Section D3); D2-39 (municipally – municipality, the – these, resultantly - therefore); D2-45 (while-the); D3-16 (and – or);	Replace word to improve the clarity of text or if it is misspelled.
	D2-4 (2006); D2-19 (Figure); D2-45 (one); D2-47 (and); D3-7 (were, be); D2-20 (and); D3-398 (in);	Add word improve the clarity of text.

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	D2-2 (SWP); D2-5 (SPR); D2-5 (ORAC); D2-11 (SPC); D2-31 (ORM); D2-41 (WTP, TOT); d3-1 (SPR, CVSPA, TRSPA, CLOSPA); D1-3 (SPC); D3-10, D3-11, D3-12, D3-30, D3-38 (AR);	Spell out acronym when it is the first time the acronym is used, or for clarity.
	D2-5, D2-10, D2-24, D2-25, D2-27 (SPR); D2-9, D2-10, (AVI); (SPR); D3-1 (SPR, WHAP, UAR); D3-2 (SPR); D3-2 (CVSPA, TRSPA, CLOSPA); D3-2 (WHPA); D3-9 (SPR); D3-20 (CVSPA, WHPA); D3-25 (WHPA); D2-37 (UAR); D3-38 (WHPA, SPR); D3-39 (WHPA);	Update acronym to be consistent with the rest of the text (e.g., remove acronyms when not used again in the chapter, remove plural when not appropriate, etc.)
	D2-25 (Vrba – Jaroslav); D2-49 (unitalic, remove a); D2-52, 53, D3-43,44 (Update reference list); D3-2 (Gerber);	Update reference to be in correct and consistent form.
	D2-4; D2-27; D2-39; D3-7; D3-21;	Correct e.g., i.e., format.
	D2-45 (: to .);	Make one sentence two to improve the clarity of text or when there is a run-on sentence.
	D2-1 (Part V.1 Rule 43, Part IV.1 Rules 37 and 38); D2-2 (Technical Rules, 2009); D2-4 (Clean Water Act); D2-30 (Technical Rule (V)); D2-49 (Technical Rules (88) (89)); D3-1 (Technical Rules #39 – 41); D3-25 (Technical Rules, 2009 (Rule (83)));	Italics words that are the title of a publication, and are defined in definition boxes.
	D1-1 (Assessment Report); D2-1 (not applicable to CLOSPA); D2-30 (block quote); D3-6 (may);	Un-italics words when not the formal name of a report, nor the first time a “definition box” word is used, and when the emphasis is distracting from the clarity of the text.
	D1-1; D2-15/16; D2-26; D2-29; D2-33; D2-39; D3-2; D3-4; D3-5; D3-7; D3-20; D3-22; D3-23; D3-24; D3-37;	Bulleted list is capitalized, with semi-colon after each point, with “and” at end of second last point, and a period after the last point.
	D2-9 (Index or numerical score reflects the relative amount of protection by the physical features that overlie the aquifer and are assigned to:);	Add text to improve the clarity of text.
	D3-4 The CTC applied a modified SWAT (UZAT + WWAT) in several of its WHPAs and assumed a zero time-of-travel in the unsaturated zone (UZAT), as approved by the MOECC Director as per the <i>Technical Rule 38(3)</i> . A more detailed description of methodologies used to delineate the WHPAs using this approach can be found	Deleted repeated wording.

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	<p>in Burnside (2010) and Earthfx Inc. (2010).</p> <p>D3-8 Assumptions used in the intrinsic vulnerability assessment:</p> <p>D3-20 (<b>Error! Reference source not found.</b>, - title of section referred to)</p>	
<p>O.REG 287/07 S.51(2)</p> <p>An amendment that is made to alter the style or presentation of text or graphics in order to improve electronic or print presentation.</p>	<p>D2-9 (vertical hydraulic conductivity measures superscript); D2-10, D2-11 (superscript); D3-5 (table note); D3- 20, D3-39 (ONE –one); D3-21 (NOT – not);</p> <p>D2-19 (add front bracket);</p> <p><i>D1-1 (Rule 5, Rules 13-15, Rules 37-41, Rules 42-53, Rules 55-75, Rules 79-85, Rules 79-85); D2-1 (not applicable to CLOSPA); D2-15 (score); D3-2 (The SWAT); D3-7 (only); D2-21 (Dufferin, Wellington, Halton); D3-22 (Peel, York, Durham); D3-38 (0.0012 ha, 0.0006 ha); D3-39 (0.0291 ha);</i></p> <p>D2-2 (Chapter 3); D2-6 (Figure D2-2, Table D2-3, Table D2.4); D2-15 (Table D2-5); D2-36 (Figure D2-1: High Volume Recharge Areas by Watershed);</p> <p>D3-7 (only); D3-21 (did not);</p> <p>D1-1 (square to round); D2-51 (add bullet to first point, update size); D3-2 (letter and number to round); D3-6 (add bullets);</p>	<p>Change font size to match rest of report</p> <p>Change brackets to be consistent.</p> <p>Un-bold text if emphasis is distracting.</p> <p>Bold words that refer to other sections, chapters, figures, tables in the AR, or are titles in the report.</p> <p>Un-underline text if emphasis is distracting.</p> <p>Update bullets to be consistent within and across assessment reports.</p>
<p>O.REG 287/07 S.51(4)</p> <p>An amendment that is made to change references to a name, title, location, or address if the name, title, location or address of a body, office, person, place or thing has changed.</p>	<p>D2-31;</p> <p>D2-4; D2-6; D1-7; D2-24; D2-25; D2-50; D3-4; D3-10; D3-20; D3-22;</p> <p>D3-6 (deleted - <a href="http://www.ene.gov.on.ca/en/water/cleanwater/cwa-guidance.php">www.ene.gov.on.ca/en/water/cleanwater/cwa-guidance.php</a>, <a href="http://www.ene.gov.on.ca/en/water/cleanwater/cwa-guidance.php">www.ene.gov.on.ca/en/water/cleanwater/cwa-guidance.php</a>);</p>	<p>MNR to MNRF</p> <p>MOE to MOECC</p> <p>Update website links</p>

# **NOTICE OF CHANGES TO THE APPROVED UPDATED ASSESSMENT REPORT: CENTRAL LAKE ONTARIO SOURCE PROTECTION AREA MADE UNDER SECTION 51 OF THE CLEAN WATER ACT**

**Last Updated: January 2018**

*The following amendments were made to Appendix E of the **Approved Updated Assessment Report: Central Lake Ontario Source Protection Area** pursuant to Section 51 of Ontario Regulation 287/07 of the Clean Water Act.*

TYPE OF TYPOGRAPHICAL ERROR	CENTRAL LAKE ONTARIO ASSESSMENT REPORT	DESCRIPTION OF CHANGE
O.REG 287/07 S.51(1) An amendment that is made to correct a clerical, grammatical or typographical error.	E1-1 (section); E2-95 (km); E2-100, ES-101 (see); E2-102 (computer); E2-107 (conservation authorities, identification); E2-112 (city’s, watershed, services); E2-116 (location, rivers); E2-118 (peak); E2-125 (levels); E2-127 (intakes); E2-132 (rivers, intakes); E2-137 (time); E2-139 (disinfection); E2-149 (identify);	Un-capitalize word when it is not a proper noun, or not the beginning of a sentence.
	E2-95 (Project Manager); E2-112 (Harbour);	Capitalize word when it is a proper noun, the beginning of a sentence, or for emphasis.
	E2-100;	Space added to separate words, or after a period.
	E2-95; E2-98; ES-100; E2-101; E2-103; E2-104; 2-105; E2-107; E2-110; E2-113; E2-114; E2-116; E2-117; E2-118; E2-125; E2-130; E2-137; E2-145; E2-148; E2-150;	Remove double space after period.
	E2-95; E2-125; E2-136; E2-145;  For entire chapter removed space after dash in Figures, Tables, and Sections.	Remove extra space between words or punctuation.
	E2-115 (hours);	Add “s” to agree with the plural subject.
	E2-130 (indicate); E2-145 (MOECC’s);	Remove “s” when it does not agree with the singular tense.
	E1-1 (-); E2-104 (-); E2-118 (/);	Remove punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	E2-100 (-); E2-103 (,); E2-110 (,); E2-111 (-); E2-113 (-); E2-115 (,); E2-117 (,); E2-118 (,); E2-126 (.); E2-134 (,); E2-139 (,); E2-149 (,);	Add punctuation to be consistent with the style of the rest of the AR, or to improve the clarity of text.
	E1-1 (: to .); E2-103 (& to and); E2-116 (; to ,); E2-139 (“-	Replace punctuation to be consistent with the style of the rest of

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	''); E2-149 (/ to ,); E2-150 (@ - at);	the AR, or to improve the clarity of text.
	E2-103 (2); E2-120 (3, 2);	Write out numbers under 10, and over 10,000. Use number when it is paired with a unit.
	E2-99 (published); E2-102 (or); E2-114 (is, the); E2-138 (which); E2-145 (EBA);	Remove word to improve the clarity of text.
	E1-1 (spell out month); E2-99 (Sept – September); E2-101 (Aug – August); E2-118 (doesn't – does not); E2-124 (E Coli – E. coli); E2-127 (the); E2-138 (Aug – August); E2-146 (creel – creek);	Replace word to improve the clarity of text or if it is misspelled.
	E2-101 (and);	Add word improve the clarity of text.
	E1-1 (CLOSPA); E2-97 (EBA); E2-98 (WTP); E2-100 (ODWS, SDWT), E2-101 (Great Lakes); E2-110, E2-139 (SPP);	Spell out acronym when it is the first time the acronym is used, or for clarity.
	E2-95, E2-97, E2-98, E2-100, E2-102 (LOC); E2-127 (SPR);	Update acronym to be consistent with the rest of the text (e.g., remove acronyms when not used again in the chapter, remove plural when not appropriate, etc.)
	E2-112 (separate reference with separate brackets); E2-151 (update reference list);	Update reference to be in correct and consistent form.
	E2-100; E2-107; E2-113;	Correct e.g., i.e., format.
	E2-118 (coli); E2-124 (E. coli); E2-145 (Technical Rules); E2-149 (E. coli, Clean Water Act, 2006);	Italics words that are the title of a publication, and are defined in definition boxes.
	E1-1 (Assessment Report); E2-102, E2-104, E2-112, E2-113, E2-118, E2-136 (Dewey, 2011), E2-136 (Fairlie, 2007);	Un-italics words when not the formal name of a report, nor the first time a “definition box” word is used, and when the emphasis is distracting from the clarity of the text.
	E1-1; E2-97; E2-98; E2-99; E2-100; E2-102; E2-115; E2-117; E2-118; E2-125; E2-136; E2-139; E2-145; E2-149;	Bulleted list is capitalized, with semi-colon after each point, with “and” at end of second last point, and a period after the last point.
	E2-97 (left align paragraph); E2-99 (combine similar bullet points – 4 and 5);	Improve text alignment for consistency.
	E2-131 (Figure E2.24);	Add missing figure.
	E1-12	Update image to not include pop up link.
	E2-1 Update text from: The findings in this appendix are	Update text to: The findings in this appendix have been peer

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	being peer reviewed, and therefore are subject to revision following the peer review.	reviewed.
<p>O.REG 287/07 S.51(2)</p> <p>An amendment that is made to alter the style or presentation of text or graphics in order to improve electronic or print presentation.</p>	E2-146 (o-superscript);	Change font size to match rest of report
	TOC (subheadings); E1-1 (Rule 97 to 109, Rule 110 to 113, Rule 114 to 138); E2-99 ( <i>extreme event</i> )	Un-bold text if emphasis is distracting.
	E2-98 ( <b>Error! Reference source not found.</b> ); E2-105 (figure reference); E2-124 (Section E6.2.4); E2-134 (Figure E2.26); E2-146 (Figure titles);	Bold words that refer to other sections, chapters, figures, tables in the AR, or are titles in the report.
	E2-97 (local knowledge); E2-98 (local knowledge, iterative process, significant, current, modelling)  E2-99;	Un-underline text if emphasis is distracting.
	E1-1 (square – round); E2-112 (add bullets to list);	Update bullets to be consistent within and across assessment reports.
<p>O.REG 287/07 S.51(4)</p> <p>An amendment that is made to change references to a name, title, location, or address if the name, title, location or address of a body, office, person, place or thing has changed.</p>	E1-1; E2-98; E2-101; E2-102;	MOE to MOECC
	E2-114 ( <a href="http://dsp-psd.pwgsc.gc.ca/collection_2009/bst-tsb/TU3-8-02-2E.pdf">http://dsp-psd.pwgsc.gc.ca/collection_2009/bst-tsb/TU3-8-02-2E.pdf</a> to <a href="http://publications.gc.ca/collections/collection_2009/bst-tsb/TU3-8-02-2E.pdf">http://publications.gc.ca/collections/collection_2009/bst-tsb/TU3-8-02-2E.pdf</a> );	Update link