

Revisions to the UTRSPA Assessment Report – Section 9

White Cells- original text

Grey cells- new text

Yellow highlight- area of original text to be changed

Bright Green highlight- area of new text

Section 9– Data Gaps and Next Steps

Section	Page	Text	Reason For Change	Changes Made
9.1	9-2	Several of the gaps identified in the Proposed Assessment Report are now filled. These include the Tier 2 water budget drought scenario analysis, the delineation, vulnerability assessment and threats assessment (vulnerability scoring approach) of WHPA-E, and threats assessment of sewer line threats. Filling of those data gaps in early 2011 allowed them to be included in the current Amended Proposed Assessment Report, thus allowing for the materials to be available to the Source Protection Committee for the development of the Source Protection Plan. The Source Protection Plan is required to be submitted in August 2012.	Reflect completed work	
		Several of the gaps identified in the Amended Proposed Assessment Report are now filled. These include the Tier 3 water budget and the delineation of Woodstock ICA.		
9.1	9-2	It is important that this information be completed in a timely fashion so that it is available to the Source Protection Committee for use in developing the Source Protection Plan	Statement no longer valid	
		<i>Delete sentence</i>		
9.1	9-3	Also, as described in Section 7.3, a site-specific risk assessment to confirm the number of locations at which significant threats occur would be conducted while developing the source protection plans, if needed. The tier 2 work involves the examination of land use activities and the circumstances under which they are undertaken, through site visits and discussions with the landowners. The outcome of the tier 2 risk assessment will be part of a subsequent Assessment Report.		
		<i>Delete paragraph</i>		
9.1	9-2	<i>Table 9-1 Work Plan to fill Data and Analysis Gaps</i>	Whole Table needs to be updated	

Section	Page	Text	Reason For Change	Changes Made
		See revised table below		
9	4	Prior to the submission of the Assessment Report to the Director, the Clean Water Act identifies consultation requirements. The required consultation is part of a more comprehensive consultation plan being conducted in the Thames-Sydenham and Region involving local and regional consultation on the draft proposed and the proposed Assessment Report, and the technical work that has informed it. See Section 1 - Introduction and Background for more information on the Assessment Report consultation process. Once consultation is complete and the Source Protection Committee has considered input received through the consultation, the Assessment Report is submitted to the Director (Ministry of Environment) for approval. The Director can approve the Assessment Report or request amendments to it. Amendments which the Director requests will not require consultation.	Needs to be changed to reflect current round of consultation.	
		Prior to the submission of an Assessment Report to the Director, the Clean Water Act identifies consultation requirements. The required consultation is part of a more comprehensive consultation plan being conducted in the Thames-Sydenham and Region involving local and regional consultation on the draft proposed, proposed Assessment Report, and Updated Assessment Reports as well as the technical work that has informed it. See Section 1 - Introduction and Background for more information on the Assessment Report consultation process. Once consultation is complete and the Source Protection Committee has considered input received through the consultation, the Assessment Report is submitted to the Director (Ministry of Environment) for approval. The Director can approve the Assessment Report or request amendments to it. Amendments which the Director requests will not require consultation.		

Table Error! No text of specified style in document.-1 Work Plan to fill Data and Analysis Gaps

Gap	Description	Work Plan	Planned Completion Schedule
Edge-matching of HVA and SGRA with neighbouring regions	<ul style="list-style-type: none"> ▪ Edge-matching of HVA and SGRA with neighbouring regions is to be completed in order to form seamless mapping between source protection regions 	<ul style="list-style-type: none"> ▪ This work will be considered when neighbouring regions' HVA and SGRA maps are complete ▪ Methodologies will be determined in consultation with the neighbouring regions once the extent of the challenges are known. 	Dependent on when neighbouring regions complete HVA and SGRA maps
Impact of Climate Change	<ul style="list-style-type: none"> ▪ Work undertaken in Upper Thames River Source Protection Area although focused more on flooding and infrastructure than on water supply ▪ Requires an understanding of the local climatic conditions resulting from global climate change which is not yet available ▪ Impact on source water protection is unknown 	<ul style="list-style-type: none"> ▪ Examine data available for the Upper Thames River Source Protection Area and assess relevancy to source protection ▪ Consider local climactic conditions when information becomes available ▪ Prepare draft section on climate change if data allows ▪ Update Assessment Report if warranted 	To be determined
Improved understanding of water use	<ul style="list-style-type: none"> ▪ Use actual water use data in water budget work 	<ul style="list-style-type: none"> ▪ Obtain actual water use data from all significant water users through the PTTW reporting system ▪ Requires reassessment after sufficient data has been reported, perhaps when Assessment Report requires future update ▪ Where Tier 3 assessment will be undertaken, updated PTTW will be considered to the extent that the data is available 	Subsequent Assessment Report, dependent on other programs
Compare Capture zones with those from Tier 3 Model	<ul style="list-style-type: none"> ▪ Tier 3 Water Budget model has improved the level of understanding in some of the capture zones in the UTRSPA ▪ An assessment of the impact of that improved understanding on the capture zones should be undertaken 	<ul style="list-style-type: none"> ▪ Compare conceptual models used for WHPA delineation with those used for T3WB ▪ Determine the likely impacts on capture zone delineation ▪ If appropriate run models to delineate revised WHPA 	Subsequent Assessment Report dependent on available resources
Woodstock ICA	<ul style="list-style-type: none"> ▪ An assessment of nitrate levels in 2014 suggests that levels may be decreasing in the Tabor wells. Additional sampling is needed to confirm the trend and assess whether Nitrate is still an Issue at the Thorton wellfield. 	<ul style="list-style-type: none"> ▪ Continue with enhanced nutrient management plans on County owned farmland within the wellfield ▪ U. of Waterloo to monitor nitrate migration across landscape to improve conceptual understanding and refine model ▪ Monitor nitrate levels at each well ▪ Prioritize negotiation of RMP associated with nitrate application within the wellfield ▪ Retain consultant to analyze data and provide recommendation regarding nitrate issue designation ▪ If necessary delineate ICA using T3WB model and U of Waterloo conceptual understanding of nitrate movement through the aquifer, identify associated significant drinking water threats and amend AR as appropriate. 	Subsequent Assessment Report

*Dependent upon submission of the updated Assessment Report and/or approved funding