

Revisions to the LTVSPA 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	1	These items include work related to threats contributing to issues, Tier 3 Water Budget, Wellhead Protection Area-E (WHPA-E) and WHPA-F associated with Groundwater Under Direct Influence (GUDI) of surface water systems and Intake Protection Zone-3 (IPZ-3).	Remove work that is not relevant to LTVSPA	
		Of the items which allow for work plans to be included the only item which remains relevant to the LTVSPA is work related to threats contributing to issues, While microcystin was identified as an issue under the CWA (rule 115.1) and as such does not allow for the establishment of an ICA, results from further monitoring may in the future suggest that it should be identified as an issue under the rules (114) and an ICA and threats contributing to the issue would then be required.		
9.1	1	The MOE directed that the workplans for WHPA-E and WHPA-F for the Highgate system not be included in the Assessment Report as information available at this time indicates that the system does not meet the test in Rule 49 (3). Highgate is currently classified as a GUDI system.	Confirmation that Highgate not GUDI.	
		The MOE directed that the workplans for WHPA-E and WHPA-F for the Highgate system not be included in the approved Assessment Report as information available at that time indicated that the system did not meet the test in Rule 49 (3). Subsequent technical work undertaken by the Municipality of Chatham-Kent has confirmed that Highgate is not a GUDI system.		
9.1	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. The Source Protection Plan is required to be submitted in August 2012. Filling of the data gaps in early 2011 to be included in an Assessment Report submitted in mid 2011 will allow for the materials to be available to the Source Protection Committee for the development of the Source Protection Plan.	Statement no longer valid	
		Delete section		
9	2	Table 9-1 Work Plan to fill Data and Analysis Gaps	Whole Table needs to be updated	
		See revised table below		

Section	Page	Text	Reason For Change	Changes Made
9	4	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.	Needs to be changed to reflect current round of consultation.	
		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, and updated Assessment Reports, and the technical work that has informed these reports.		

Table 9-1 Work Plan to fill Data and Analysis Gaps

Gap	Description	Work Plan	Planned Completion Schedule
Better drainage information	<ul style="list-style-type: none"> ▪ Better drainage information to refine IPZ-2 transport pathways and storm sewersheds 	<ul style="list-style-type: none"> ▪ Obtain better drainage information determined through a site-specific (Tier 2) Risk Assessment ▪ Adjustments may be made to IPZ-2 transport pathways and storm sewersheds 	Next updated AR
IPZ-3 for Lake Erie Intakes	<ul style="list-style-type: none"> ▪ Gap is allowed in <i>technical rules</i>, provided the work plan is included to fill the gap and included in an amended Assessment Report submitted 	<ul style="list-style-type: none"> ▪ Continue working with Essex Region Source Protection Authority and its Source Protection Committee to consider extent of IPZ-3 along shoreline ▪ Consider wind events and conditions to be used as the "extreme event" ▪ Delineate extent of contributing subwatersheds with the offshore IPZ-3 ▪ Review land use within the areas to determine if containment specific modelling is required 	Next updated AR
Edge matching of HVA and SGRA with neighboring regions	<ul style="list-style-type: none"> ▪ Edge matching of HVA and SGRA with neighboring 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 neighboring 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 neighboring regions complete HVA and SGRA maps 	Next updated AR
Lake Erie Lake-wide Issues	<ul style="list-style-type: none"> ▪ Regions with drinking water systems using Lake Erie as a source have met together with the system operators to consider lake-wide issues ▪ Group will meet again once Assessment Reports have been completed so that issues have been identified ▪ Potential to establish a more formal working group to consider lake-wide issues if warranted 	<ul style="list-style-type: none"> ▪ Continue to collaborate with other regions ▪ Participate in next meeting and working group if established ▪ Focus on algae growth and phosphorous contributions to microcystin levels 	Next updated AR
Conditions Assessment	<ul style="list-style-type: none"> ▪ MOE data delivered to consultants, but not all consultants have reviewed or considered it ▪ A few potential conditions have been identified which require further investigation 	<ul style="list-style-type: none"> ▪ Have consultants review and report on data distributed by MOE ▪ Request same data for the rest of the vulnerable areas ▪ Investigate potential conditions ▪ Submit report to Source Protection Committee for consideration ▪ Include in amended Assessment Report if appropriate 	Next updated AR
Impact of Climate Change	<ul style="list-style-type: none"> ▪ Little work related to climate change in the Lower Thames Valley Source Protection Area ▪ Work undertaken in Upper Thames River Source Protection Area although focused more on flooding and infrastructure than on water supply ▪ Impact on source water protection is unknown 	<ul style="list-style-type: none"> ▪ Revisit this section following the completion of this section in the Upper Thames River Source Protection Area Assessment Report to determine the relevance to the Lower Thames Valley Source Protection Area ▪ Amend Assessment Report if warranted 	To be determined
Inland takings drawing from Great Lakes	<ul style="list-style-type: none"> ▪ Determine Inland takings that draw from Great Lakes 	<ul style="list-style-type: none"> ▪ Confirm location and watercourse conditions related to water takings near Lake Erie and Lake St. Clair ▪ Recalculate percent water demand ▪ Reassess potential for stress in these areas ▪ Update Assessment Report only if warranted ▪ This work would be dependant on other programs as the potential stress does not impact drinking water systems included in the Terms of Reference, however if updated information becomes available future Assessment Reports should be updated to reflect that information 	Subsequent Assessment Report, dependant on other programs

Table 9-1 Work Plan to fill Data and Analysis Gaps

Gap	Description	Work Plan	Planned Completion Schedule
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 ▪ This work would be dependant on other programs as the potential stress does not impact drinking water systems included in the Terms of Reference, however if updated information becomes available future Assessment Reports should be updated to reflect that information 	Subsequent Assessment Report, dependant on other programs