

SCRCA – AR Change Log

Section 9 – Data Gaps

Staff have been keeping a log of all changes to date to the SPP. These changes are colour coded to make review and discussion easier. Please refer to the legend below.

Legend

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 / Policy	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, WHPA-E and WHPA-F associated with Groundwater Under Direct Influence (GUDI) of surface water and Intake Protection Zone-3 (IPZ-3) for surface water intakes.	Addition of ICA work to SCRSPA	
		These items include work related to the delineation of issues contributing areas and identification of threats contributing to issues , Tier 3 Water Budget, <i>Wellhead Protection Area, WHPA-E and WHPA-F</i> associated with <i>Groundwater Under Direct Influence (GUDI)</i> of surface water and <i>Intake Protection Zone-3 (IPZ-3)</i> for surface water intakes.		
9.1	2	Data gaps, data limitations, analysis gaps and any data or information that were not available at the time of this publication will be incorporated into an Amended Assessment Report planned for mid-2011 where time and budget allow.	Reference to updated Assessment Reports	
		While some data gaps were addressed in the Updated Assessment Report of November 2011 as well as in this Updated Assessment Report dated November 2014, additional gaps have been identified in Table 9-1 as requiring further review and may be incorporated into a future Assessment Report where time and budget allow.		
9.1	2	The Source Protection Plan is required to be submitted in August 2012.	Date reference updated	
		The Source Protection Plan was submitted in November 2012 and is being amended for November 2014.		
9		Table 9-1 Work Plan to fill Data and Analysis Gaps	Updated table to reflect changes in data gaps	
		See revised table below		
9.2	9-5	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 has approved the Amended Proposed Assessment Report for the St. Clair Region SPA.		
		Once consultation is complete and the Source Protection Committee has considered input received through the consultation, this Updated Assessment Report is submitted to the Director (Ministry of Environment) for approval. The Director has approved the previous (Nov 2011) Updated Assessment Report for the St. Clair Region SPA.		
		Work will continue on filling the data gaps discussed above. That work will require amendments or updates to the Assessment Report which will also be consulted on. The Assessment Report will then be submitted to the Director for approval. The site-specific risk assessment (see Section 7.3 of this report)		

Section / Policy	Page	Text	Reason For Change	Changes Made
		will be conducted as part of the development of source protection policies for the SPA if needed.		
		Work will continue on filling the data gaps discussed above. That work may require updates to the Assessment Report which will also be consulted on. The Assessment Report will then be submitted to the Director for approval.		

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
Drainage information	<ul style="list-style-type: none"> ▪ Better drainage information to refine IPZ-2 transport pathways and storm sewersheds for the LAWSS, Petrolia and Wallaceburg intakes ▪ Drainage information to refine Wallaceburg intake IPZ-2 up-tributary extents, for channels connecting Running Creek and Chenal Ecarte ▪ Information regarding the flow of water from St. Anne Island into the Chenal Ecarte has been collected; however additional drainage information would be required to denote specific areas which could provide water to the intake within the two hour time of travel, to help delineate the upland extent of Wallaceburg intake IPZ-2 	<ul style="list-style-type: none"> ▪ Obtain better drainage information determined through a site-specific assessment of risk as part of implementation by Risk Management Officials and Inspectors for the LAWSS, Petrolia and Wallaceburg intakes ▪ Adjustments may be made to IPZ-2 up-tributary extents, transport pathways and storm sewersheds for the LAWSS, Petrolia and Wallaceburg intakes ▪ Delineate upland extent of Wallaceburg intake IPZ-2 on St. Anne Island side of the Chenal Ecarte 	Dependent upon submission of a subsequent Assessment Report
Pump information	<ul style="list-style-type: none"> ▪ Location, drainage area and pump regimes of pump located at the west end of Cram Drain, to refine the Wallaceburg intake IPZ-2 	<ul style="list-style-type: none"> ▪ Obtain information on Cram Drain pump to further refine Wallaceburg intake upland IPZ-2 	Dependent upon submission of a subsequent Assessment Report
Additional analysis for LAWSS, Petrolia and Wallace-burg IPZ-3	<ul style="list-style-type: none"> ▪ Additional work will assist in identifying significant threats in the IPZs and in possibly extending the delineated IPZ-3s 	<ul style="list-style-type: none"> ▪ Consider additional spill modelling scenarios (contaminant type, location, volume) through the events based modelling approach 	Dependent upon submission of a subsequent Assessment Report
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 	Subsequent Assessment Report to be coordinated with neighbouring regions
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 a subsequent Assessment Report if appropriate 	Dependent upon submission of a subsequent Assessment Report
Impact of Climate Change	<ul style="list-style-type: none"> ▪ Little work related to climate change in the St. Clair Region 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 St. Clair Region Source Protection Area ▪ Amend Assessment Report if warranted 	To be determined
Inland takings drawing from Great Lakes and connecting channels	<ul style="list-style-type: none"> ▪ Determine Inland takings that draw from Great Lakes and connecting channels 	<ul style="list-style-type: none"> ▪ Confirm location and watercourse conditions related to water takings near Lake St. Clair, Lake Huron and the St. Clair River ▪ Recalculate percent water demand ▪ Reassess potential for stress in these areas ▪ Update Assessment Report only if warranted ▪ This work would be dependent 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, dependent on other programs
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 dependent 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, dependent on other programs
Issues Contributing Area for Wallaceburg	<ul style="list-style-type: none"> ▪ Delineate area relating to the issue of elevated Nitrate levels at Wallaceburg water intake 	<ul style="list-style-type: none"> ▪ Staff continue to carry out modelling exercise to identify cause and extent of Nitrate issues relating to Wallaceburg 	Subsequent Assessment Report,