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Table 4-1
Classification of Possible Drinking Water Threats
Mississippi-Rideau Source Protection Region

Threat Type	Vulnerable Area	Vulnerability Score	Threat Classification and Provincial Table Reference Code		
			Significant	Moderate	Low
			Table Number (Table Name)		
Chemical	WHPA	10	1 (CW10S)	3 (CW10M)	6 (CW10L)
	WHPA	8	2 (CW8S)	4 (CW8M)	7 (CW8L)
	WHPA	6		5 (CW6M)	8 (CW6L)
	WHPA	4			
	WHPA	2			
Dense Non-Aqueous Phase Liquids (DNAPLs)	WHPA A, B, C, C1	10	9 (DWAS)		
	WHPA A, B, C, C1	8	9 (DWAS)		
	WHPA A, B, C, C1	6	9 (DWAS)		
	WHPA A, B, C, C1	4	9 (DWAS)		
	WHPA A, B, C, C1	2	9 (DWAS)		
	WHPA D	6		10 (DW6M)	11 (DW6L)
Pathogen	WHPA A, B	10	12 (PW10S)	13 (PW10M)	
	WHPA A, B	8		14 (PW8M)	15 (PW8L)
	WHPA A, B	6			16 (PW6L)
Chemical	SGRA	6		17 (CSGRAHVA6M)	
	SGRA	6			18 (CSGRAHVA6L)
	HVA	6		17 (CSGRAHVA6M)	

Threat Type	Vulnerable Area	Vulnerability Score	Threat Classification and Provincial Table Reference Code		
			Significant	Moderate	Low
			Table Number (Table Name)		
	HVA	6			18 (CSGRAHVA6L)
	IPZ	10	19 (CIPZ10S)	23 (CIPZ10M)	31 (CIPZWE10L)
	IPZ or WHPA E	9	20 (CIPZWE9S)	24 (CIPZWE9M)	32 (CIPZWE9L)
	IPZ or WHPA E	8.1	21 (CIPZWE8.1S)	25 (CIPZWE8.1M)	33 (CIPZWE8.1L)
	IPZ or WHPA E	8	22 (CIPZWE8S)	26 (CIPZWE8M)	34 (CIPZWE8L)
	IPZ or WHPA E	7.2		27 (CIPZWE7.2M)	35 (CIPZWE7.2L)
	IPZ or WHPA E	7		28 (CIPZWE7M)	36 (CIPZWE7L)
	IPZ or WHPA E	6.4		29 (CIPZWE6.4M)	37 (CIPZWE6.4L)
	IPZ or WHPA E	6.3		30 (CIPZWE6.3M)	38 (CIPZWE6.3L)
	IPZ or WHPA E	6		75 (CIPZWE6M)	76 (CIPZWE6L)
	IPZ or WHPA E	5.6			39 (CIPZWE5.6L)
	IPZ or WHPA E	5.4			40 (CIPZWE5.4L)
	IPZ or WHPA E	5			74 (CIPZWE5L)
	IPZ or WHPA E	4.9			41 (CIPZWE4.9L)
	IPZ or WHPA E	4.8			42 (CIPZWE4.8L)
	IPZ or WHPA E	4.5			43 (CIPZWE4.5L)

Threat Type	Vulnerable Area	Vulnerability Score	Threat Classification and Provincial Table Reference Code		
			Significant	Moderate	Low
			Table Number (Table Name)		
	IPZ or WHPA E	4.2			44 (CIPZWE4.2L)
Pathogen	IPZ	10	45 (PIPZ10S)	49 (PIPZWE10M)	58 (PIPZ10L)
	IPZ or WHPA E	9	46 (PIPZWE9S)	50 (PIPZWE9M)	59 (PIPZWE9L)
	IPZ or WHPA E	8.1	47 (PIPZWE8.1S)	51 (PIPZWE8.1M)	60 (PIPZWE8.1L)
	IPZ or WHPA E	8	48 (PIPZWE8S)	52 (PIPZWE8M)	61 (PIPZWE8L)
	IPZ or WHPA E	7.2		53 (PIPZWE7.2M)	62 (PIPZWE7.2L)
	IPZ or WHPA E	7		54 (PIPZWE7M)	63 (PIPZWE7L)
	IPZ or WHPA E	6.4		55 (PIPZWE6.4M)	64 (PIPZWE6.4L)
	IPZ or WHPA E	6.3		56 (PIPZWE6.3M)	65 (PIPZWE6.3L)
	IPZ	6		57 (PIPZ6M)	66 (PIPZ6L)
	IPZ or WHPA E	5.6			67 (PIPZWE5.6L)
Pathogen	IPZ or WHPA E	5.4			68 (PIPZWE5.4L)
	IPZ or WHPA E	5			69 (PIPZ5L)
	IPZ or WHPA E	4.9			70 (PIPZWE4.9L)
	IPZ or WHPA E	4.8			71 (PIPZWE4.8L)
	IPZ or WHPA E	4.5			72 (PIPZWE4.5L)

Threat Type	Vulnerable Area	Vulnerability Score	Threat Classification and Provincial Table Reference Code		
			Significant	Moderate	Low
			Table Number (Table Name)		
	IPZ or WHPA E	4.2			73 (PIPZWE4.2L)

Table 4-2
Provincial Tables of Circumstances
Mississippi-Rideau Source Protection Region

Provincial Table Number	Table Name	Table Title (click Table Titles to Open Individual Tables)
1	CW10S	Chemicals in a WHPA with a vulnerability score of 10 where threats are significant
2	CW8S	Chemicals in a WHPA with a vulnerability score of 8 where threats are significant
3	CW10M	Chemicals in a WHPA with a vulnerability score of 10 where threats are moderate
4	CW8M	Chemicals in a WHPA with a vulnerability score of 8 where threats are moderate
5	CW6M	Chemicals in a WHPA with a vulnerability score of 6 where threats are moderate
6	CW10L	Chemicals in a WHPA with a vulnerability score of 10 where threats are low
7	CW8L	Chemicals in a WHPA with a vulnerability score of 8 where threats are low
8	CW6L	Chemicals in a WHPA with a vulnerability score of 6 where threats are low
9	DWAS	DNAPLS in WHPA A, B, C, C1, with any vulnerability where threats are significant
10	DW6M	DNAPLS in WHPA D with a vulnerability of 6 where threats are moderate
11	DW6L	DNAPLS in WHPA D with a vulnerability of 6 where threats are low
12	PW10S	Pathogens in WHPA A, B with a vulnerability of 10 where threats are significant
13	PW10M	Pathogens in WHPA A, B with a vulnerability of 10 where threats are moderate
14	PW8M	Pathogens in WHPA A, B with a vulnerability of 8 where threats are moderate
15	PW8L	Pathogens in WHPA A, B with a vulnerability of 8 where threats are low

Provincial Table Number	Table Name	Table Title (click Table Titles to Open Individual Tables)
16	PW6L	Pathogens in WHPA A, B with a vulnerability of 6 where threats are low
17	CSGRAHVA6M	Chemicals in an SGRA or HVA with a vulnerability score of 6 where threats are moderate
18	CSGRAHVA6L	Chemicals in an SGRA or HVA with a vulnerability score of 6 where threats are low
19	CIPZ10S	Chemicals in an IPZ with a vulnerability of 10 where threats are significant
20	CIPZWE9S	Chemicals in an IPZ or WHPA E where the vulnerability score is 9 where threats are significant
21	CIPZWE8.1S	Chemicals in an IPZ or WHPA E where the vulnerability score is 8.1 where threats are significant
22	CIPZWE8S	Chemicals in an IPZ or WHPA E where the vulnerability score is 8 where threats are significant
23	CIPZ10M	Chemicals in an IPZ with a vulnerability of 10 where threats are moderate
24	CIPZWE9M	Chemicals in an IPZ or WHPA E where the vulnerability score is 9 where threats are moderate
25	CIPZWE8.1M	Chemicals in an IPZ or WHPA E where the vulnerability score is 8.1 where threats are moderate
26	CIPZWE8M	Chemicals in an IPZ or WHPA E where the vulnerability score is 8 where threats are moderate
27	CIPZWE7.2M	Chemicals in an IPZ or WHPA E where the vulnerability score is 7.2 where threats are moderate
28	CIPZWE7M	Chemicals in an IPZ or WHPA E where the vulnerability score is 7 where threats are moderate
29	CIPZWE6.4M	Chemicals in an IPZ or WHPA E where the vulnerability score is 6.4 where threats are moderate
30	CIPZWE6.3M	Chemicals in an IPZ or WHPA E where the vulnerability score is 6.3 where threats are moderate
31	CIPZWE10L	Chemicals in an IPZ with a vulnerability of 10 where threats are low

Provincial Table Number	Table Name	Table Title (click Table Titles to Open Individual Tables)
32	CIPZWE9L	Chemicals in an IPZ or WHPA E where the vulnerability score is 9 where threats are low
33	CIPZWE8.1L	Chemicals in an IPZ or WHPA E where the vulnerability score is 8.1 where threats are low
34	CIPZWE8L	Chemicals in an IPZ or WHPA E where the vulnerability score is 8 where threats are low
35	CIPZWE7.2L	Chemicals in an IPZ or WHPA E where the vulnerability score is 7.2 where threats are low
36	CIPZWE7L	Chemicals in an IPZ or WHPA E where the vulnerability score is 7 where threats are low
37	CIPZWE6.4L	Chemicals in an IPZ or WHPA E where the vulnerability score is 6.4 where threats are low
38	CIPZWE6.3L	Chemicals in an IPZ or WHPA E where the vulnerability score is 6.3 where threats are low
39	CIPZWE5.6L	Chemicals in an IPZ or WHPA E where the vulnerability score is 5.6 where threats are low
40	CIPZWE5.4L	Chemicals in an IPZ or WHPA E where the vulnerability score is 5.4 where threats are low
41	CIPZWE4.9L	Chemicals in an IPZ or WHPA E where the vulnerability score is 4.9 where threats are low
42	CIPZWE4.8L	Chemicals in an IPZ or WHPA E where the vulnerability score is 4.8 where threats are low
43	CIPZWE4.5L	Chemicals in an IPZ or WHPA E where the vulnerability score is 4.5 where threats are low
44	CIPZWE4.2L	Chemicals in an IPZ or WHPA E where the vulnerability score is 4.2 where threats are low
45	PIPZ10S	Pathogens in an IPZ with a vulnerability of 10 where threats are significant
46	PIPZWE9S	Pathogens in an IPZ or WHPA E with a vulnerability of 9 where threats are significant
47	PIPZWE8.1S	Pathogens in an IPZ or WHPA E with a vulnerability of 8.1 where threats are significant

Provincial Table Number	Table Name	Table Title (click Table Titles to Open Individual Tables)
48	PIPZWE8S	Pathogens in an IPZ or WHPA E with a vulnerability of 8 where threats are significant
49	PIPZWE10M	Pathogens in an IPZ with a vulnerability of 10 where threats are moderate
50	PIPZWE9M	Pathogens in an IPZ or WHPA E with a vulnerability of 9 where threats are moderate
51	PIPZWE8.1M	Pathogens in an IPZ or WHPA E with a vulnerability of 8.1 where threats are moderate
52	PIPZWE8M	Pathogens in an IPZ or WHPA E with a vulnerability of 8 where threats are moderate
53	PIPZWE7.2M	Pathogens in an IPZ or WHPA E with a vulnerability of 7.2 where threats are moderate
54	PIPZWE7M	Pathogens in an IPZ or WHPA E with a vulnerability of 7 where threats are moderate
55	PIPZWE6.4M	Pathogens in an IPZ or WHPA E with a vulnerability of 6.4 where threats are moderate
56	PIPZWE6.3M	Pathogens in an IPZ or WHPA E with a vulnerability of 6.3 where threats are moderate
57	PIPZ6M	Pathogens in an IPZ with a vulnerability of 6 where threats are moderate
58	PIPZ10L	Pathogens in an IPZ with a vulnerability of 10 where threats are low
59	PIPZWE9L	Pathogens in an IPZ or WHPA E with a vulnerability of 9 where threats are low
60	PIPZWE8.1L	Pathogens in an IPZ or WHPA E with a vulnerability of 8.1 where threats are low
61	PIPZWE8L	Pathogens in an IPZ or WHPA E with a vulnerability of 8 where threats are low
62	PIPZWE7.2L	Pathogens in an IPZ or WHPA E with a vulnerability of 7.2 where threats are low
63	PIPZWE7L	Pathogens in an IPZ or WHPA E with a vulnerability of 7 where threats are low

Provincial Table Number	Table Name	Table Title (click Table Titles to Open Individual Tables)
64	PIPZWE6.4L	Pathogens in an IPZ or WHPA E with a vulnerability of 6.4 where threats are low
65	PIPZWE6.3L	Pathogens in an IPZ or WHPA E with a vulnerability of 6.3 where threats are low
66	PIPZ6L	Pathogens in an IPZ with a vulnerability of 6 where threats are low
67	PIPZWE5.6L	Pathogens in an IPZ with a vulnerability of 6 where threats are low
68	PIPZWE5.4L	Pathogens in an IPZ or WHPA E with a vulnerability of 5.4 where threats are low
69	PIPZ5L	Pathogens in an IPZ with a vulnerability of 5 where threats are low
70	PIPZWE4.9L	Pathogens in an IPZ or WHPA E with a vulnerability of 4.9 where threats are low
71	PIPZWE4.8L	Pathogens in an IPZ or WHPA E with a vulnerability of 4.8 where threats are low
72	PIPZWE4.5L	Pathogens in an IPZ or WHPA E with a vulnerability of 4.5 where threats are low
73	PIPZWE4.2L	Pathogens in an IPZ or WHPA E with a vulnerability of 4.2 where threats are low
74	CIPZWE5L	Chemicals in an IPZ or WHPA E where the vulnerability score is 5 where threats are low
75	CIPZWEM6	Chemicals in an IPZ or WHPA E where the vulnerability score is 6 where threats are moderate
76	CIPZWEL6	Chemicals in an IPZ or WHPA E where the vulnerability score is 6 where threats are low

Table 4-3
Provincial Threat Categories with Circumstances That Could Pose a Significant Threat in an IPZ Mississippi-Rideau Source Protection Region

Contaminant released:		Intake Protection Zone (IPZ) Vulnerability Scoring							
		Chemical				Pathogen			
1	The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> .	X	X			X	X	X	
2	The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	X	X	X		X	X	X	
3	The application of agricultural source material to land.	X	X			X	X	X	
4	The storage of agricultural source material.	X	X			X	X	X	
5	The management of agricultural source material.								
6	The application of non-agricultural source material to land.	X	X			X	X	X	
7	The handling and storage of non-agricultural source material.	X	X			X	X	X	
8	The application of commercial fertilizer to land.	X	X						
9	The handling and storage of commercial fertilizer.	X							
10	The application of pesticide to land.	X	X	X					
11	The handling and storage of pesticide.	X	X						
12	The application of road salt.	X	X						
13	The handling and storage of road salt.	X	X						

Contaminant released:		Intake Protection Zone (IPZ) Vulnerability Scoring							
		Chemical				Pathogen			
14	The storage of snow.	X	X						
15	The handling and storage of fuel.	X							
16	The handling and storage of a dense non-aqueous phase liquid (DNAPLS)*.	X							
17	The handling and storage of an organic solvent.	X							
18	The management of runoff that contains chemicals used in the de-icing of aircraft.	X	X						
19	An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body.**								
20	An activity that reduces the recharge of an aquifer.**								
21	The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard.	X	X			X	X	X	

*DNAPLs are chemicals that are heavy and sink in water (e.g. trichloroethylene)

**Water quantity threats will be evaluated as a part of the Water Budget studies

Table 4-4
Provincial Threat Categories with Circumstances That Could Pose a Significant Threat in a Wellhead Protection Area
Mississippi-Rideau Source Protection Region

Contaminant released:		Wellhead Protection Area (WHPA) Vulnerability Scoring									
		Chemical					Pathogen				
Prescribed Drinking Water Threats (Ontario Regulation 287/07)		10	8	6	4	2	10	8	6	4	2
1	The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> .	X	X				X				
2	The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	X	X				X				
3	The application of agricultural source material to land.	X					X				
4	The storage of agricultural source material.	X					X				
5	The management of agricultural source material.										
6	The application of non-agricultural source material to land.	X					X				
7	The handling and storage of non-agricultural source material.	X					X				
8	The application of commercial fertilizer to land.	X									
9	The handling and storage of commercial fertilizer.	X									
10	The application of pesticide to land.	X									

Contaminant released:		Wellhead Protection Area (WHPA) Vulnerability Scoring									
		Chemical					Pathogen				
11	The handling and storage of pesticide.	X									
12	The application of road salt.	X									
13	The handling and storage of road salt.	X									
14	The storage of snow.	X									
15	The handling and storage of fuel.	X									
16	The handling and storage of a dense non-aqueous phase liquid (DNAPLs)*.	Anywhere in 5 year time of travel									
17	The handling and storage of an organic solvent.	X									
18	The management of runoff that contains chemicals used in the de-icing of aircraft.	X									
19	An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body.**										
20	An activity that reduces the recharge of an aquifer.**										
21	The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard.	X					X				