Appendix 2-1

Surface Water Quality Monitoring Sites

Mississippi-Rideau Source Protection Region

Appendix 2-1
MVC (MVSPA) Subwatersheds
List of CCME Water Quality Sites - Surface Water

Big Gull Subwatershed

Three sampling sites are monitored as part of the Mississippi Valley Conservation (MVC) watershed watch lake monitoring program in the Big Gull subwatershed. All of the sites in the Big Gull subwatershed indicated excellent water quality with regards to the indicator parameters pH and TP.

Buckshot Creek Subwatershed

Eight sampling sites are monitored as part of the MVC watershed watch lake monitoring program in the Buckshot Creek subwatershed. All of the sites in the Buckshot Creek subwatershed indicated excellent water quality with regards to the indicator parameters pH and TP, with the exception of the following locations:

- Grindstone Lake, North Basin had fair water quality results for pH and good water quality results for TP; and
- Grindstone Lake, South basin had good water quality results for TP.

Carp River Watershed

Seven sampling sites are monitored in the Carp River watershed (two PWQMN and five OBSWQ monitoring program). A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:
  - un-ionized ammonia,
  - chloride (all stations except Carp – Richardson Side Rd. OBSWQ station),
  - copper (Carp and Kinburn PWQMN stations),
  - lead,
  - nitrate,
  - nitrite (Carp and Kinburn PWQMN stations),
  - pH (all stations except Carp Fitzroy OBSWQ station), and
  - zinc;
- Good water quality with regards to the following indicator parameters:
  - chloride (Carp Richardson Side Rd. OBSWQ station),
  - copper (Carp OBSWQ stations), and
  - TSS (Carp PWQMN station and Carp – Fitzroy and Carp – Craig Side Rd. OBSWQ stations);
- Fair water quality with regards to the following indicator parameters:
  - copper (Poole Creek OBSWQ station),
  - *E. coli* (Carp – Kinburn OBSWQ station),
  - pH (Carp Fitzroy OBSWQ station),
  - TP (Poole Creek OBSWQ station), and
  - TSS (Kinburn PWQMN station and Carp – Kinburn, Carp – Richardson Side Rd. and Poole Creek OBSWQ stations);
- Marginal water quality with regards to the following indicator parameters:
  - *E. coli* (Carp – Fitzroy and Carp – Richardson Side Rd. OBSWQ stations); and
- Poor water quality with regards to the following indicator parameters:
  - *E. coli* (Carp – Craig Side Rd. and Poole Creek OBSWQ stations),

- nitrite (all OBSWQ stations),
- TKN, and
- TP (all stations except Poole Creek OBSWQ station).

Clyde River Subwatershed

Fifteen sampling sites are monitored in the Clyde River subwatershed (two PWQMN and thirteen MVC watershed watch). A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:
  - un-ionized ammonia,
  - chloride,
  - copper,
  - lead,
  - nitrate,
  - nitrite,
  - pH (Lanark and Kerr Lake PWQMN stations, Flower Round, Horne, Paddys and Sunday Lakes MVC watershed watch stations),
  - TP (Lanark and Kerr Lake PWQMN stations, Canonto, Clyde, Horne, Joes and Widow Lakes MVC watershed watch stations),
  - TSS and
  - zinc;
- Good water quality with regards to the following indicator parameters:
  - pH (Joes and Upper Park Lakes MVC watershed watch stations) and
  - TP (Flower Round, Palmerston, Robertson and Upper Park Lakes MVC watershed watch stations);
- Fair water quality with regards to the following indicator parameters:
  - pH (Clyde, Palmerston and Widow Lakes MVC watershed watch stations),
  - TKN, and
  - TP (Sunday Lake MVC watershed watch station); and
- Marginal water quality with regards to the following indicator parameters:
  - pH (Canonto and Robertson Lakes MVC watershed watch stations) and
  - TP (Paddys Lake MVC watershed watch station).

Carleton Place Dam Subwatershed

Five sampling sites are monitored in the Carleton Place Dam subwatershed (one PWQMN and four MVC watershed watch). A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:
  - un-ionized ammonia,
  - chloride,
  - copper,
  - lead,
  - nitrate,
  - nitrite,
  - pH (Dalhousie Lake PWQMN station and Mississippi Lake (Big & Second Lakes) MVC watershed watch stations),
  - TP,
  - TSS and
  - zinc;
- Good water quality with regards to the following indicator parameter – TKN;

- Fair water quality with regards to the following indicator parameter – pH (Patterson Lake MVC watershed watch station); and
- Marginal water quality with regards to the following indicator parameter – pH (Dalhousie Lake MVC watershed watch station).

Fall River Subwatershed

Eleven sampling sites are monitored in the Fall River subwatershed (one PWQMN and ten MVC watershed watch). A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:
  - un-ionized ammonia,
  - chloride,
  - copper,
  - lead,
  - nitrate,
  - nitrite,
  - pH (Bennett Lake PWQMN station),
  - TP (all stations except Bennett Lake MVC watershed watch station),
  - TSS and
  - zinc;
- Good water quality with regards to the following indicator parameters:
  - pH (Bennett and Black Lakes MVC watershed watch stations) and
  - TP (Bennett Lake MVC watershed watch station);
- Fair water quality with regards to the following indicator parameter – pH (Clear, Sharbot – Main Basin and Silver Lakes MVC watershed watch stations);
- Marginal water quality with regards to the following indicator parameters:
  - pH (Sharbot Lake – East, South-West and West Basins MVC watershed watch stations) and
  - TKN; and
- Poor water quality with regards to the following indicator parameter – pH (White Lake MVC watershed watch station).

Indian River Subwatershed

Two sampling sites are monitored as part of the MVC watershed watch lake monitoring program in the Indian River subwatershed. A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameter – TP;
- Fair water quality with regards to the following indicator parameters – pH (Taylor Lake MVC watershed watch station); and
- Marginal water quality with regards to the following indicator parameter – pH (Clayton Lake MVC watershed watch station).

Lower Mississippi Subwatershed

Eight sampling sites are monitored in the Lower Mississippi River subwatershed (four PWQMN and four City of Ottawa Baseline Surface Water Quality Monitoring program). A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:
  - un-ionized ammonia,
  - chloride,

  - copper (all PWQMN stations and Mississippi – Galetta OBSWQ station),
  - *E. coli* (Cody – Hwy 44 OBSWQ station),
  - lead,
  - nitrate,
  - nitrite (all stations except Cody – Hansen Side Rd. OBSWQ station),
  - pH (all stations except Appleton PWQMN station),
  - TP (Almonte, Appleton and Pakenham PWQMN stations and Cody – March Rd. OBSWQ station),
  - TSS (all stations except Cody – Hansen Side Rd. OBSWQ station), and
  - zinc;
- Good water quality with regards to the following indicator parameters:
  - copper (Cody OBSWQ stations),
  - *E. coli* (Mississippi – Galetta OBSWQ station),
  - pH (Appleton PWQMN station),
  - TKN (Appleton PWQMN station), and
  - TP (Galetta PWQMN station and Mississippi – Galetta OBSWQ station);
- Fair water quality with regards to the following indicator parameters:
  - *E. coli* (Cody – March Rd. OBSWQ station),
  - nitrite (Cody – Hansen Side Rd. OBSWQ station),
  - TKN (Almonte and Galetta PWQMN stations), and
  - TP (Cody – Hwy 44 OBSWQ station);
- Marginal water quality with regards to the following indicator parameter:
  - TKN (Pakenham PWQMN station and Mississippi – Galetta OBSWQ station), and
  - TSS (Cody – Hansen Side Rd. OBSWQ station); and
- Poor water quality with regards to the following indicator parameters:
  - *E. coli* (Cody – Hansen Side Rd. OBSWQ station),
  - TKN (Cody OBSWQ stations), and
  - TP (Cody – Hansen Side Rd. OBSWQ station).

Mazinaw Subwatershed

Nine sampling sites are monitored in the Mazinaw subwatershed (one PWQMN and eight MVC watershed watch). A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:
  - un-ionized ammonia,
  - chloride,
  - copper,
  - lead,
  - nitrate,
  - nitrite,
  - pH (Mazinaw PWQMN station, Kishkebus, Makavoy Mazinaw and McCausland Lakes MVC watershed watch stations),
  - TP (Mazinaw Lake MVC watershed watch station),
  - TSS and
  - zinc;
- Good water quality with regards to the following indicator parameters:
  - TKN and
  - TP (Mazinaw PWQMN station); and
- Fair water quality with regards to the following indicator parameter – pH (Marble and Mississagagon Lakes MVC watershed watch stations).

Upper Mississippi Subwatershed

Nine sampling sites are monitored as part of the MVC watershed watch lake monitoring program in the Upper Mississippi River subwatershed. A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:
  - pH (Ardoch, Crotch, Kashwakamak and Pine Lakes MVC watershed watch stations) and
  - TP (Ardoch, Malcolm and Pine Lakes MVC watershed watch stations);
- Good water quality with regards to the following indicator parameters:
  - pH (Mosque Lake MVC watershed watch station) and
  - TP (Crotch – South Basin, Fawn and Mosque Lakes MVC watershed watch stations); and
- Fair water quality with regards to the following indicator parameters:
  - pH (Fawn and Malcolm Lakes MVC watershed watch stations) and
  - TP (Crotch Lake – North Basin MVC watershed watch station).

MVC Ottawa River Subwatersheds

Eight sampling sites are monitored in the MVC Ottawa River subwatersheds in the OBSWQ monitoring program. A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:
  - un-ionized ammonia,
  - chloride (Casey Creek, Constance Creek, Constance Lake, and Shirleys Brook OBSWQ stations),
  - copper (Constance Creek and Constance Lake OBSWQ stations),
  - *E. coli* (Constance Lake OBSWQ station),
  - lead,
  - nitrate,
  - nitrite (Casey Creek, Constance Creek and Constance Lake OBSWQ stations),
  - pH (Casy Creek, Constance Creek, Harwood Creek, Shirley's Brook, Watts Creek – Corkstown Rd. OBSWQ stations),
  - TSS (Constance Creek and Constance Lake OBSWQ stations), and
  - zinc (all stations except Watts Creek – Corkstown Rd. OBSWQ station);
- Good water quality with regards to the following indicator parameters:
  - chloride (Harwood Creek OBSWQ station),
  - copper (Casey Creek, Harwood Creek and Shirley's Brook OBSWQ stations),
  - pH (Watts Creek – Shirley Blvd. OBSWQ station),
  - TSS (Harwood Creek OBSWQ station), and
  - zinc (Watts Creek – Corkstown Rd. OBSWQ station);
- Fair water quality with regards to the following indicator parameters:
  - chloride (Watts Creek – Shirley Blvd. OBSWQ station),
  - *E. coli* (Constance Creek OBSWQ station),
  - nitrite (Harwood Creek and Shirley's Brook – Hines Rd. OBSWQ stations),
  - pH (Constance Lake OBSWQ station),
  - TKN (Shirley's Brook – Hines Rd. and Watts Creek – Corkstown Rd. OBSWQ stations), and
  - TP (Constance Lake OBSWQ station);
- Marginal water quality with regards to the following indicator parameters:
  - copper (Watts Creek OBSWQ stations),

  - *E. coli* (Harwood Creek OBSWQ station),
  - TKN (Harwood Creek and Shirley's Brook – Fourth Line Rd. OBSWQ stations), and
  - TSS (Shirley's Brook and Watts Creek – Corkstown Rd. OBSWQ stations); and
- Poor water quality with regards to the following indicator parameters:
  - chloride (Watts Creek – Corkstown Rd. OBSWQ station),
  - *E. coli* (Casey Creek, Shirley's Brook and Watts Creek OBSWQ stations),
  - nitrite (Shirley's Brook – Fourth Line Rd. and Watts Creek OBSWQ stations),
  - TKN (Casey Creek, Constance Creek, Constance Lake, Watts Creek – Shirley Blvd. OBSWQ stations),
  - TP (all stations except Constance Lake OBSWQ station), and
  - TSS (Casey Creek and Watts Creek – Shirley Blvd. OBSWQ stations).

Ottawa River

Sixteen sampling sites are monitored in the Ottawa River (one PWQMN site and 15 OBSWQ site). A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:
  - un-ionized ammonia,
  - chloride,
  - copper (Chats Falls PWQMN station and Deschenes Rapids – 210.30, Deschenes Rapids – 210.40, Kettle Island – 430.70, Upper Duck Island – 430.10 and Upper Duck Island – 430.30 OBSWQ stations),
  - *E. coli* (Deschenes Rapids and Woolsey Narrows OBSWQ stations),
  - lead,
  - nitrate,
  - nitrite,
  - pH,
  - TKN (Chats Falls PWQMN station and Deschenes Rapids, Hiawatha – 450.30, Kettle Island, Petrie Island – 500.20, Petrie Island – 500.50, Upper Duck Island, Woolsey Narrows OBSWQ stations),
  - TP,
  - TSS, and
  - zinc;
- Good water quality with regards to the following indicator parameters:
  - copper (Deschenes Rapids – 210.10, Hiawatha, Kettle Island – 430.60, Petrie Island and Woolsey Narrows OBSWQ stations),
  - *E. coli* (Petrie Island – 500.10 and Petrie Island – 500.20 OBSWQ stations), and
  - TKN (Hiawatha – 450.10, Hiawatha – 450.20, Hiawatha – 450.40 and Petrie Island – 500.10 OBSWQ stations);
- Fair water quality with regards to the following indicator parameter:
  - *E. coli* (Kettle Island and Upper Duck Island OBSWQ stations);
- Marginal water quality with regards to the following indicator parameter:
  - *E. coli* (Hiawatha – 450.20 and Hiawatha – 450.30 OBSWQ stations); and
- Poor water quality with regards to the following indicator parameter:
  - *E. coli* (Hiawatha – 450.40 and Petrie Island – 500.50 OBSWQ stations).

RVCA Subwatersheds

Jock River Subwatershed

Seven sampling sites are monitored in the Jock River subwatershed (one PWQMN and six OBSWQ monitoring program). A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:
  - un-ionized ammonia,
  - chloride,
  - copper (Jock River PWQMN station and Jock River – Jockvale Rd. and Jock River – Ottawa St. OBSWQ stations),
  - lead,
  - nitrate,
  - nitrite (Jock River PWQMN station and Jock River – Bleeks Side Rd., Jock River – Jockvale Rd., Jock River – Moodie Dr. and Jock River – Ottawa St. OBSWQ stations),
  - pH,
  - TSS (Jock River – Jockvale Rd. and Jock River – Ottawa St. OBSWQ stations), and
  - zinc;
- Good water quality with regards to the following indicator parameters:
  - copper (Flowing Creek OBSWQ station and Jock River – Bleeks Side Rd., Jock River – Moodie Dr. and Jock River – Prince of Wales OBSWQ stations),
  - *E. coli* (Jock River – Jockvale Rd. OBSWQ station),
  - nitrite (Jock River – Prince of Wales OBSWQ station), and
  - TSS (Jock River PWQMN station and Jock River – Bleeks Side Rd., Jock River – Moodie Dr. and Jock River – Prince of Wales OBSWQ stations);
- Fair water quality with regards to the following indicator parameter:
  - *E. coli* (Jock River – Moodie Dr, Jock River – Ottawa St. and Jock River – Prince of Wales OBSWQ stations);
- Marginal water quality with regards to the following indicator parameters:
  - *E. coli* (Jock River PWQMN station and Jock River – Bleeks Side Rd. OBSWQ station), and
  - TP (Jock River – Bleeks Side Rd. and Jock River – Ottawa St. OBSWQ stations); and
- Poor water quality with regards to the following indicator parameters:
  - *E. coli* (Flowing Creek OBSWQ station),
  - nitrite (Flowing Creek OBSWQ station),
  - TKN,
  - TP (Jock River PWQMN station and Flowing Creek, Jock River – Jockvale Rd., Jock River – Moodie Dr. and Jock River – Prince of Wales OBSWQ stations), and
  - TSS (Flowing Creek OBSWQ station).

Kemptville Creek Subwatershed

Fifteen sampling sites are monitored in the Kemptville Creek subwatershed (one PWQMN, one OBSWQ monitoring program and 13 RVCA surface water monitoring program). A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:
  - un-ionized ammonia (all stations with the exception of Barnes Creek RVCA surface water station),
  - chloride,

  - copper (all stations with the exception of Kemptville Creek OBSWQ station and Barnes Creek, Kemptville Creek – Highway 43 and Kyle Rd. RVCA surface water stations),
  - *E. coli* (Kemptville Creek – Oxford Mills RVCA surface water station),
  - lead,
  - nitrate,
  - nitrite,
  - pH,
  - TP (Kemptville Creek - Hurd St., County Rd. 18 and Oxford Mills and North Kemptville Creek – Bishops Mills and County Rd. 15 RVCA surface water stations),
  - TSS (all stations with the exception of Barnes Creek, Kemptville Creek – County Rd. 20 and North Kemptville Creek – Bishops Mills RVCA surface water stations), and
  - zinc (all stations with the exception of Barnes Creek and Kemptville Creek – Garretton RVCA surface water stations);
- Good water quality with regards to the following indicator parameters:
  - un-ionized ammonia (Barnes Creek RVCA surface water station),
  - copper (Kemptville Creek OBSWQ station and Kemptville Creek – Highway 43 and Kyle Rd. RVCA surface water stations),
  - *E. coli* (Kemptville Creek PWQMN, Kemptville Creek – County Rd. 18, County Rd. 20, Garretton, Limerick Rd. and Pattersons Corners RVCA surface water stations),
  - TP (Kemptville Creek OBSWQ station and Kemptville Creek – Pattersons Corners and North Augusta RVCA surface water stations),
  - TSS (Kemptville Creek – County Rd. 20 and North Kemptville Creek – Bishops Mills RVCA surface water stations), and
  - zinc (Barnes Creek and Kemptville Creek – Garretton RVCA surface water stations);
- Fair water quality with regards to the following indicator parameters:
  - copper (Barnes Creek RVCA surface water station),
  - *E. coli* (Kemptville Creek OBSWQ station and Kemptville Creek – Hurd St., Kyle Rd. and North Augusta and North Kemptville Creek – County Rd. 15 RVCA surface water stations), and
  - TP (Kemptville Creek – County Rd. 20 RVCA surface water station);
- Marginal water quality with regards to the following indicator parameters:
  - *E. coli* (Kemptville Creek – Highway 43 and North Kemptville Creek – Bishops Mills RVCA surface water stations), and
  - TP (Kemptville Creek – Limerick Rd., Garretton and Kyle Rd. RVCA surface water stations); and
- Poor water quality with regards to the following indicator parameters:
  - *E. coli* (Barnes Creek surface water station),
  - TKN,
  - TP (Barnes Creek RVCA surface water station), and
  - TSS (Barnes Creek RVCA surface water station).

Lower Rideau Subwatershed

Thirty-eight sampling sites are monitored in the Lower Rideau River subwatershed (four PWQMN, 29 OBSWQ monitoring program and five RVCA surface water monitoring program). A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:
  - un-ionized ammonia,
  - chloride (all stations except Hunt Club Creek – DeNiverville Dr., Hunt Club Creek – Riverside Dr., Nepean Creek and Sawmill Creek OBSWQ stations),
  - copper (Mosquito Creek – Rideau Rd., and Stevens Creek – Roger Stevens Rd. OBSWQ stations and all PWQMN stations),
  - *E. coli* (Rideau River – Black Rapids Dam (dam channel), Rideau River – Burritts Rapids, Rideau River – Long Island, Rideau River – Mooney's Bay and Rideau River – Roger Stevens Rd. OBSWQ stations and Kars PWQMN station),
  - lead,
  - nitrate,
  - nitrite (Brassils Creek, Stevens Creek – Church St., and Stevens Creek – Roger Stevens Rd. OBSWQ stations, all Rideau River OBSWQ stations except Rideau River – Mooney's Bay and all PWQMN stations),
  - pH,
  - TKN (Hunt Club Creek – DeNiverville Dr. OBSWQ station),
  - TKN (Brassils Creek, and Stevens Creek – Roger Stevens Rd. OBSWQ stations),
  - TSS (Brassils Creek, Rideau River – Burritts Rapids, Rideau River – Long Island, Rideau River – Mooney's Bay, Rideau River – Roger Stevens Rd., and Stevens Creek – Roger Stevens Rd. OBSWQ stations, all PWQMN stations and Brassils Creek RVCA surface water station), and
  - zinc (Black Rapids Creek, Brassils Creek, Cranberry Creek, Hunt Club Creek – Riverside Dr., Mosquito Creek, Mud Creek, Sawmill Creek – NE tributary, Stevens Creek and Taylor Drain OBSWQ stations, all Rideau River OBSWQ stations except Rideau River – Mooney's Bay, all PWQMN stations and all RVCA surface water stations);
- Good water quality with regards to the following indicator parameters:
  - chloride (Hunt Club Creek – DeNiverville Dr., Hunt Club Creek – Riverside Dr., and Sawmill Creek – NE tributary OBSWQ station),
  - copper (Black Rapids Creek, Brassils Creek, Cranberry Creek, Hunt Club Creek – DeNiverville Dr., Mosquito Creek – Leitrim Rd., Mosquito Creek – Limebank Rd., Mud Creek, Rideau River, Sawmill Creek – NE tributary, Stevens Creek – Church St., and Stevens Creek – Second Line Rd. OBSWQ stations and Brassils Creek, McDermott and Murphy Drains RVCA surface water stations),
  - *E. coli* (Brassils Creek, Rideau River – Bank St., Rideau River – Barnsdale Rd., Rideau River – Black Rapids Dam (centre sluice), Rideau River – St. Patrick St., and Stevens Creek – Roger Stevens Rd. OBSWQ stations, Long Island PWQMN station and Brassils Creek RVCA surface water station),
  - nitrite (Cranberry Creek, Rideau River – Mooney's Bay, Stevens Creek – Second Line Rd., and Taylor Drain OBSWQ stations),
  - TP (Hunt Club Creek – DeNiverville Dr., and Rideau River – Buritts Rapids OBSWQ stations and Brassils Creek RVCA surface water station),
  - TSS (Cranberry Creek, Hunt Club Creek – Country Club Rd., Hunt Club Creek – DeNiverville Dr., Mud Creek, Rideau River – Bank St., Rideau River – Barnsdale Rd., Rideau River – Black Rapids Dam, and Rideau River – St. Patrick St. OBSWQ stations and Murphy Drain RVCA surface water station), and

  - zinc (Hunt Club Creek – Country Club Rd., Hunt Club Creek – DeNiverville Dr., Nepean Creek, Rideau River – Mooney's Bay, Sawmill Creek – Brookfield Rd., Sawmill Creek – Johnston Rd., Sawmill Creek – Riverside Dr., and Sawmill Creek – Walkley Rd. OBSWQ stations);
- Fair water quality with regards to the following indicator parameters:
  - chloride (Sawmill Creek – Johnston Rd., and Sawmill Creek – Walkley Rd. OBSWQ stations),
  - copper, (Hunt Club Creek – Country Club Rd., Hunt Club Creek – Riverside Dr., Sawmill Creek – Johnston Rd., Sawmill Creek – Walkley Rd., and Taylor Drain OBSWQ stations and Arcand Drain RVCA surface water station),
  - *E. coli* (Cranberry Creek, Hunt Club Creek – DeNiverville Dr., Mosquito Creek – Limebank Rd., Sawmill Creek – NE tributary, and Stevens Creek – Second Line Rd. OBSWQ station, Hogs Back and St. Patrick St. PWQMN stations and Arcand Drain RVCA surface water station),
  - TP (Sawmill Creek – NE tributary OBSWQ station), and
  - TSS (Hunt Club Creek – Riverside Dr., Mosquito Creek, Sawmill Creek – NE tributary, Sawmill Creek – Walkley Rd., Stevens Creek – Church St., and Stevens Creek – Second Line Rd. OBSWQ stations and McDermott Drain RVCA surface water stations);
- Marginal water quality with regards to the following indicator parameters:
  - chloride (Nepean Creek, Sawmill Creek – Brookfield Rd. and Sawmill Creek – Riverside Dr. OBSWQ stations),
  - copper (Nepean Creek, Sawmill Creek – Brookfield Rd., and Sawmill Creek – Riverside Dr. OBSWQ stations),
  - *E. coli* (Black Rapids Creek, Hunt Club Creek – Country Club Rd., Mosquito Creek – Leitrim Rd., Mud Creek, Nepean Creek and Taylor Drain OBSWQ stations and McDermott and Murphy Drains RVCA surface water stations),
  - nitrite (Mosquito Creek – Limebank Rd. OBSWQ station),
  - TKN (Hunt Club Creek – Country Club Rd., and Sawmill Creek – NE tributary OBSWQ stations),
  - TP (Rideau River – Barnsdale Rd., Rideau River – Long Island, and Rideau River – Roger Stevens Rd. OBSWQ stations and Hogs Back, Kars, Long Island and St. Patrick St. PWQMN stations), and
  - TSS (Black Rapids Creek, and Taylor Drain OBSWQ stations and Arcand Drain RVCA surface water station); and
- Poor water quality with regards to the following indicator parameters:
  - *E. coli* (Hunt Club Creek – Riverside Dr., Mosquito Creek – Rideau Rd., Sawmill Creek – Brookfield Rd., Sawmill Creek – Johnston Rd., Sawmill Creek – Riverside Dr., Sawmill Creek – Walkley Rd., Stevens Creek – Church St. OBSWQ stations),
  - nitrite (Black Rapids Creek, Hunt Club Creek, Mosquito Creek – Rideau Rd., Mud Creek, Nepean Creek, and Sawmill Creek OBSWQ stations),
  - TKN (all stations except Hunt Club Creek – Country Club Rd., Hunt Club Creek – DeNiverville Dr., and Sawmill Creek – NE tributary OBSWQ stations),
  - TP (Black Rapids Creek, Cranberry Creek, Hunt Club Creek – Country Club Rd., Hunt Club Creek – Riverside Dr., Mosquito Creek, Mud Creek, Nepean Creek, Rideau River – Bank St., Rideau River – Black Rapids Dam, Rideau River – Mooney's Bay, Rideau River – St. Patrick St., Sawmill Creek – Brookfield Rd., Sawmill Creek – Johnston Rd., Sawmill Creek – Riverside Dr., Sawmill Creek – Walkley Rd., Stevens Creek – Church St., Stevens Creek – Second Line Rd., and

Taylor Drain OBSWQ stations and Arcand, McDermott and Murphy Drains RVCA surface water stations), and
- TSS (Nepean Creek, Sawmill Creek – Brookfield Rd., Sawmill Creek – Johnston Rd., and Sawmill Creek – Riverside Dr. OBSWQ stations).

Middle Rideau Subwatershed

Eleven sampling sites are monitored in the Middle Rideau River subwatershed (two PWQMN, eight RVCA surface water monitoring program and one RVCA watershed watch monitoring program). A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:
  - un-ionized ammonia,
  - chloride,
  - copper (Andrewsville and Kilmarnock PWQMN stations and Irish and Otter Creeks RVCA surface water stations),
  - *E. coli* (Andrewsville and Kilmarnock PWQMN stations, Irish Creek RVCA surface water station and Otter Lake RVCA watershed watch station),
  - lead (all stations with the exception of Andrewsville PWQMN station),
  - nitrate,
  - nitrite,
  - pH (all stations with the exception of Kilmarnock PWQMN station),
  - TP (Otter Lake RVCA watershed watch station),
  - TSS (Andrewsville PWQMN station and Cockburn, Dales, Irish and Rideau Creeks RVCA surface water stations) and
  - zinc;
- Good water quality with regards to the following indicator parameters:
  - copper (Barbers, Dales, Hutton and Rideau Creeks RVCA surface water stations),
  - lead (Andrewsville PWQMN station),
  - TKN (Otter Lake RVCA watershed watch station),
  - TP (Andrewsville and Kilmarnock PWQMN stations and Irish and Rideau Creeks RVCA surface water stations) and
  - TSS (Kilmarnock PWQMN station and Barbers, Hutton and Otter Creeks RVCA surface water stations);
- Fair water quality with regards to the following indicator parameters:
  - copper (Cockburn and Rosedale Creeks RVCA surface water stations),
  - pH (Kilmarnock PWQMN station) and
  - TP (Dales Creek RVCA surface water station);
- Marginal water quality with regards to the following indicator parameter:
  - *E. coli* (Cockburn and Rideau Creeks RVCA surface water stations); and
- Poor water quality with regards to the following indicator parameters:
  - *E. coli* (Barbers, Dales, Hutton, Otter and Rosedale Creeks RVCA surface water stations),
  - TKN (all stations with the exception of Otter Lake RVCA watershed watch station),
  - TP (Barbers, Cockburn, Hutton, Otter and Rosedale Creeks RVCA surface water stations) and
  - TSS (Rosedale Creek RVCA surface water station).

Rideau Lakes Subwatershed

Twenty sampling sites are monitored in the Rideau Lakes subwatershed (five RVCA surface water monitoring program and thirteen lakes within the RVCA watershed watch monitoring program). A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:
  - un-ionized ammonia,
  - chloride,
  - copper (Blacks Creek RVCA surface water station),
  - *E. coli* (Westport Dam RVCA surface water station and Adam, Big Rideau, Big Rideau – Hoggs Bay, Black, Burridge, Long – East, Loon, Lower Rideau, Round, Upper Rideau, Westport Sand and Wolfe Lakes RVCA watershed watch stations),
  - lead,
  - nitrate,
  - pH (all stations with the exception of Westport Dam RVCA surface water station),
  - TKN (Wolfe Lake RVCA watershed watch station),
  - TP (Adam, Bass, Big Rideau, Black, Burridge, Long – East, Loon, Lower Rideau, Round, Westport Sand and Wolfe Lakes RVCA watershed watch stations),
  - TSS (Black Creek RVCA surface water station) and
  - zinc;
- Good water quality with regards to the following indicator parameters:
  - copper (Adrains and Sheldons Creeks and Westport Dam RVCA surface water stations),
  - *E. coli* (Black Creek RVCA surface water station and Bass Lake RVCA watershed watch station),
  - pH (Westport Dam RVCA surface water station),
  - TKN (Adam, Bass, Big Rideau, Burridge, Long – East and Lower Rideau Lakes RVCA watershed watch stations),
  - TP (Westport Dam RVCA surface water station and Big Rideau – Hoggs Bay RVCA watershed watch station) and
  - TSS (Sheldons Creek and Westport Dam RVCA surface water stations);
- Fair water quality with regards to the following indicator parameters:
  - *E. coli* (Sheldons Creek RVCA surface water station),
  - TKN (Big Rideau – Hoggs Bay, Upper Rideau and Westport Sand Lakes RVCA watershed watch stations) and
  - TP (Upper Rideau Lake RVCA watershed watch station);
- Marginal water quality with regards to the following indicator parameters:
  - TKN (Westport Dam RVCA surface water station),
  - TP (Black Creek RVCA surface water station) and
  - TSS (Adrains Creek RVCA surface water station); and
- Poor water quality with regards to the following indicator parameters:
  - *E. coli* (Adrains Creek RVCA surface water station),
  - TKN (Adrains, Black and Sheldons Creeks RVCA surface water stations and Black and Loon Lakes RVCA watershed watch stations) and
  - TP (Adrains and Sheldons Creeks RVCA surface water stations).

Tay River Subwatershed

Fifty-seven sampling sites are monitored in the Tay River subwatershed (two PWQMN, 23 RVCA surface water monitoring program and 32 RVCA watershed watch monitoring program). A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:

  - un-ionized ammonia,
  - chloride,
  - copper (Bolingbroke and Tay Marsh PWQMN stations and Eagle Creek, Fish Creek – County Rd. 38 and upstream of Bobs Lake, Grants Creek – Upper Scotch Line, County Rd. 10. and Pike Lake Dam, Jebbs Creek, Ruddsdale Creek, Scotts Snye, Stub Creek and Tay River – Port Elmsley, Rogers Rd., Gore St., upstream of Tay Marsh, downstream of Christie Lake, Bolingbroke and Craig St. RVCA surface water stations),
  - *E. Coli* (Bolingbroke PWQMN station, Tay River – Bolingbroke and Uens Creek RVCA surface water stations and all RVCA watershed watch stations),
  - lead,
  - nitrate,
  - nitrite,
  - pH (all samples with the exception of Tay River – upstream of Tay Marsh RVCA surface water station),
  - TKN (Bolingbroke PWQMN station, Tay River – Adams Pond, Bolingbroke and downstream of Christie Lake RVCA surface water stations and Bobs Lake – Narrows, Green Bay and Norris Bay, Christie Lake, Crow Lake, Eagle Lake, Farren Lake and Leggatt Lake RVCA watershed watch stations),
  - TP (Bolingbroke PWQMN station, Grants Creek – Pike Lake Dam, Scotts Snye and Tay River – Adams Pond, Bolingbroke, downstream of Christie Lake, Glen Tay, Craig St., Gore St. and Rogers Rd. RVCA surface water stations and Bobs Lake – Buck Bay, Narrows, Green Bay, Long Bay, Mud Bay, Norris Bay and West Basin, Christie Lake, Crosby Lake, Crow Lake, Davern Lake, Eagle Lake, Farren Lake, Leggatt Lake, Little Crosby Lake, Little Silver, O'Brien Lake, Otty Lake, Pike Lake RVCA watershed watch stations),
  - TSS (all stations with the exception of Grants Creek – Glen Tay Rd. and downstream of Upper Scotch Line RVCA surface water station) and
  - zinc;
- Good water quality with regards to the following indicator parameters:
  - copper (Fish Creek, Grants Creek – Glen Tay Rd. and downstream of Upper Scotch Line, Tay River – Glen Tay and Adams Pond, and Uens Creek),
  - *E. Coli* (Eagle Creek, Fish Creek – upstream of Bobs Lake, Grants Creek – County Rd. 10 and Pike Lake Dam, Jebbs Creek, Stub Creek and Tay River – Port Elmsley, Glen Tay, Gore St., Adams Pond and downstream of Christie Lake RVCA surface water stations),
  - pH (Tay River – upstream of Tay Marsh RVCA surface water station),
  - TKN (Scotts Snye RVCA surface water station and Bobs Lake – Buck Bay, Long Bay, Mud Bay and West Basin, Crosby Lake, Davern Lake, Little Crosby Lake and Little Silver Lake RVCA watershed watch stations),
  - TP (Tay Marsh PWQMN station, Grants Creek – County Rd. 10, Jebbs Creek and Tay River – Port Elmsley and upstream of Tay Marsh RVCA surface water stations and Bobs Lake – Mill Bay, Carnahan Lake, Elbow Lake, Long Lake – West and Rainbow Lake RVCA watershed watch stations) and
  - TSS (Grants Creek - Glen Tay Rd. RVCA surface water station);
- Fair water quality with regards to the following parameters:
  - *E. Coli* (Tay Marsh PWQMN station, and Grants Creek – Glen Tay Rd., Ruddsdale Creek, Scotts Snye and Tay River – Rogers Rd. and upstream of Tay Marsh RVCA surface water stations),

  - TKN (Grants Creek – Pike Lake Dam and Tay River – Glen Tay and Gore St. RVCA surface water station and Pike Lake RVCA watershed watch station),
  - TP (Fish Creek – upstream of Bobs Lake, Fish Creek, Stub Creek and Uens Creek RVCA surface water stations) and
  - TSS (Grants Creek – Glen Tay Rd. RVCA surface water stations);
- Marginal water quality with regards to the following parameters:
  - *E. Coli* (Fish Creek – Fish Creek and County Rd. 38 and Tay River – Craig St. RVCA surface water stations),
  - TKN (Grants Creek – County Rd. 10, Stub Creek and Tay River – Rogers Rd. and Craig St. RVCA surface water station and O'Brien Lake RVCA watershed watch station) and
  - TP (Eagle Creek, Grants Creek – Upper Scotch Line and Ruddsdale Creek RVCA surface water stations); and
- Poor water quality with regards to the following indicator parameters:
  - *E. Coli* (Grants Creek – Upper Scotch Line and downstream of Upper Scotch Line RVCA surface water stations),
  - TKN (Tay Marsh PWQMN station, Eagle Creek, Fish Creek, Grants Creek – Glen Tay Rd., Upper Scotch Line, and downstream of Upper Scotch Line, Jebbs Creek, Ruddsdale Creek, Tay River – Port Elmsley and upstream of Tay Marsh and Uens Creek RVCA surface water stations and Bobs Lake – Mill Bay, Carnahan Lake, Elbow Lake, Long Lake – West, Otty Lake and Rainbow Lake RVCA watershed watch stations) and
  - TP (Fish Creek – County Rd. 38, Grants Creek – Glen Tay Rd. and downstream of Upper Scotch Line RVCA surface water station).

RVCA Ottawa River East Subwatersheds

Ten sampling sites are monitored in the RVCA Ottawa River East subwatersheds in the OBSWQ monitoring program. A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:
  - un-ionized ammonia,
  - chloride (Becketts Creek, Black Creek, Cardinal Creek and MacKay Lake OBSWQ stations),
  - copper (MacKay Lake OBSWQ station),
  - *E. coli* (MacKay Lake OBSWQ station),
  - lead,
  - nitrate,
  - nitrite (Becketts Creek, Black Creek and MacKay Lake OBSWQ station),
  - pH (all stations except Becketts Creek and MacKay Lake OBSWQ stations),
  - TP (MacKay Lake OBSWQ station),
  - TSS (MacKay Lake OBSWQ station), and
  - zinc (Becketts Creek, Black Creek, Cardinal Creek, MacKay Lake, Ramsay Creek, and Taylor Creek OBSWQ stations);
- Good water quality with regards to the following indicator parameters:
  - chloride (Ramsay Creek OBSWQ station),
  - copper (Black Creek OBSWQ station),
  - pH (Becketts Creek and MacKay Lake OBSWQ stations),
  - TSS (Black Creek OBSWQ station), and
  - zinc (Bilberry Creek, Greens Creek and Voyager Creek OBSWQ stations);
- Fair water quality with regards to the following indicator parameters:

  - copper (Cardinal Creek OBSWQ station),
  - *E. coli* (Becketts Creek and Black Creek OBSWQ stations), and
  - nitrite (Ramsay Creek OBSWQ station);
- Marginal water quality with regards to the following indicator parameters:
  - chloride (Greens Creek – Montreal Rd., Taylor Creek and Voyager Creek OBSWQ stations),
  - copper (Becketts Creek, Bilberry Creek, Greens Creek – Innes Rd., Taylor Creek and Voyager Creek OBSWQ stations),
  - *E. coli* (Cardinal Creek OBSW station),
  - TKN (Taylor Creek OBSWQ station), and
  - TSS (Becketts Creek, Greens Creek – Innes Rd. and Taylor Creek OBSWQ stations); and
- Poor water quality with regards to the following indicator parameters:
  - chloride (Bilberry Creek and Greens Creek – Innes Rd. OBSWQ stations),
  - copper (Greens Creek – Montreal Rd. and Ramsay Creek OBSWQ stations),
  - *E. coli* (Bilberry Creek, Greens Creek, Ramsay Creek, Taylor Creek and Voyager Creek OBSWQ stations),
  - nitrite (Bilberry Creek, Cardinal Creek, Greens Creek, Taylor Creek and Voyager Creek OBSWQ stations),
  - TKN (all stations except Taylor Creek OBSWQ station),
  - TP (all stations except MacKay Lake OBSWQ station), and
  - TSS (Bilberry Creek, Cardinal Creek, Greens Creek – Montreal Rd., Ramsay Creek, and Voyager Creek OBSWQ stations).

RVCA Ottawa River West Subwatersheds

Seven sampling sites are monitored in the RVCA Ottawa River East subwatersheds in the OBSWQ monitoring program. A summary of the water quality is presented below:

- Excellent water quality with regards to the following indicator parameters:
  - un-ionized ammonia,
  - chloride (Mud Lake and Rideau Canal OBSWQ stations),
  - copper (Rideau Canal – Bronson St. OBSWQ station),
  - *E. coli* (Rideau Canal – Bronson St. OBSWQ station),
  - lead,
  - nitrate,
  - nitrite (Mud Lake OBSWQ station),
  - pH (Graham Creek, Pinecrest Creek and Stillwater Creek OBSWQ stations),
  - TSS (Rideau Canal OBSWQ stations), and
  - zinc (Graham Creek – Siskin Court, Mud Lake, Rideau Canal, and Stillwater Creek OBSWQ stations);
- Good water quality with regards to the following indicator parameters:
  - chloride (Graham Creek – Siskin Court OBSWQ station),
  - copper (Mud Lake and Rideau Canal – Rideau St. OBSWQ stations),
  - *E. coli* (Mud Lake OBSWQ station),
  - nitrite (Rideau Canal – Rideau St. OBSWQ station),
  - pH (Rideau Canal OBSWQ stations),
  - TSS (Mud Lake OBSWQ station), and
  - zinc (Graham Creek – Carling Ave., and Pinecrest Creek OBSWQ stations);
- Fair water quality with regards to the following indicator parameters:
  - chloride (Stillwater Creek OBSWQ station),

  - copper (Graham Creek, Pinecrest Creek and Stillwater Creek OBSWQ stations),
  - *E. coli* (Rideau Canal – Rideau St. OBSWQ station),
  - nitrite (Rideau Canal – Bronson St. OBSWQ station),
  - pH (Mud Lake OBSWQ station),
  - TKN (Graham Creek – Carling Ave and Pinecrest Creek OBSWQ stations), and
  - TSS (Pinecrest Creek OBSWQ station);
- Marginal water quality with regards to the following indicator parameters:
  - chloride (Graham Creek – Carling Ave OBSWQ station),
  - TKN (Graham Creek – Siskin Court OBSWQ station),
  - TP (Pinecrest Creek OBSWQ station), and
  - TSS (Graham Creek – Carling Ave., Stillwater Creek OBSWQ stations); and
- Poor water quality with regards to the following indicator parameters:
  - chloride (Pinecrest Creek OBSWQ station),
  - *E. coli* (Graham Creek, Pincrest Creek and Stillwater Creek OBSWQ stations),
  - nitrite (Graham Creek, Pinecrest Creek and Stillwater Creek OBSWQ stations),
  - TKN (Mud Lake, Rideau Canal, and Stillwater Creek OBSWQ stations),
  - TP (all stations except Pinecrest Creek OBSWQ station), and
  - TSS (Graham Creek – Siskin Court OBSWQ station).

Notes: CCME - Canadian Council of Ministers of the Environment
CCME Water Quality Scoring System
MVC - Mississippi Valley Conservation
RVCA - Rideau Valley Conservation Authority
Excellent Water Quality - 95-100% of the samples in compliance with criterion
Good Water Quality - 80-94% of the samples in compliance with criterion
Fair Water Quality - 65-79% of the samples in compliance with criterion
Marginal Water Quality - 45-64% of the samples in compliance with criterion
Poor Water Quality - 0-44% of the samples in compliance with criterion

Appendix 2-2

CCME Surface Water – Water Quality Scores in the MRSPR

Mississippi-Rideau Source Protection Region

Appendix 2-2

Surface Water - CCME Water Quality Score
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Station Location	Un-Ionized Ammonia	Chloride	Nitrate	Nitrite	pH	TKN
MVC/MVSPA	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin					Excellent	
		19343072901	Big Gull (Clarendon) Lake, Main Basin					Excellent	
		19343072801	Big Gull (Clarendon) Lake, West Basin					Excellent	
	Buckshot Creek	18343077201	Blue Lake					Excellent	
		18343070401	Buckshot (Indian) Lake					Excellent	
		18343070801	Grindstone Lake, North Basin					Fair	
		18343070901	Grindstone Lake, South Basin					Excellent	
		18343072101	Sand Lake					Excellent	
		18343072201	Shabomeka (Buck) Lake					Excellent	
		19343072301	Shawenegog (McClintock) Lake, North Basin					Excellent	
		19343072401	Shawenegog (McClintock) Lake, South Basin					Excellent	
	Carp River	18337010102	Carp River, Craig Side Rd, downstream Carp	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		18337012102	Carp River, John Shaw Rd, downstream of Kinburn	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour	Excellent	Excellent	Excellent	Poor	Fair	Poor
		R010-06	Carp River, at Craig Side Rd., downstream of bridge	Excellent	Excellent	Excellent	Poor	Excellent	Poor
		R010-09	Carp River, at Richardson Side Rd., downstream of bridge	Excellent	Good	Excellent	Poor	Excellent	Poor
		R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road	Excellent	Excellent	Excellent	Poor	Excellent	Poor
		CK70-05	Poole Creek, Stittsville Main St	Excellent	Excellent	Excellent	Poor	Excellent	Poor
	Clyde River	18343052002	At dam, downstream of Lanark	Excellent	Excellent	Excellent	Excellent	Excellent	Fair
		18343053002	Kerr Lake outlet, upstream of Lanark	Excellent	Excellent	Excellent	Excellent	Excellent	Fair
		18343070501	Canonto Lake (North & South Basins)					Marginal	
		19343074901	Clyde Lake					Fair	
		19343075001	Flower Round Lake					Excellent	
		19343076001	Horne Lake					Excellent	
		19343076401	Joes Lake					Good	
		18343074301	Palmerston Lake (North & South Basins)					Fair	
		19343076501	Paddys Lake					Excellent	
		19343075901	Upper Park Lake					Good	
		19343070101	Robertson Lake					Marginal	
		19343003601	Sunday Lake					Excellent	
		19343076301	Widow Lake					Fair	
	CP Dam	18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8	Excellent	Excellent	Excellent	Excellent	Excellent	Good
		19343073401	Dalhousie Lake					Marginal	
		19343073501	Mississippi Lake, Big Lake					Excellent	
		19343001401	Mississippi Lake, Second Lake					Excellent	
		18343075301	Patterson Lake					Fair	
	Fall River	18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook	Excellent	Excellent	Excellent	Excellent	Excellent	Marginal
		18343072701	Bennett Lake (North & South Basins)					Good	
		Unknown	Black Lake					Good	
		18343074801	Clear Lake					Fair	

source: Watershed Characterization Report
Version 2.1

Appendix 2-2
Surface Water - CCME Water Quality Score
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Station Location	Un-Ionized Ammonia	Chloride	Nitrate	Nitrite	pH	TKN
		18343073601	Sharbot Lake, East Basin					Marginal	
		18343072501	Sharbot Lake, Main Basin					Fair	
		18343074501	Sharbot Lake, South-West Basin					Marginal	
		18343074401	Sharbot Lake, West Basin					Marginal	
		18343072601	Silver Lake					Fair	
		18343074601	White Lake					Poor	
	Indian River	19343073101	Clayton Lake					Marginal	
		19343077101	Taylor Lake					Fair	
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta	Excellent	Excellent	Excellent	Excellent	Excellent	Marginal
		18343003402	Mississippi River, At dam, downstream of Pakenham	Excellent	Excellent	Excellent	Excellent	Excellent	Marginal
		18343004002	Mississippi River, Almonte St, Almonte	Excellent	Excellent	Excellent	Excellent	Excellent	Fair
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton	Excellent	Excellent	Excellent	Excellent	Good	Good
		CK3-01	Cody Creek, at Hansen Side Rd.	Excellent	Excellent	Excellent	Fair	Excellent	Poor
		CK3-03	Cody Creek, at Highway 44, E of Road 10	Excellent	Excellent			Excellent	Poor
		CK3-04	Cody Creek, March Rd.	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)	Excellent	Excellent	Excellent	Excellent	Excellent	Marginal
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41	Excellent	Excellent	Excellent	Excellent	Excellent	Good
		18343071101	Kishkebus Lake					Excellent	
		18343073901	Mackavoy Lake					Excellent	
		18343071401	Marble Lake					Fair	
		19343074101	Mazinaw Lake, North Basin					Excellent	
		19343073701	Mazinaw Lake, South Basin					Excellent	
		Unknown	McCausland Lake					Excellent	
		19343071601	Mississagagon Lake, East Basin					Fair	
		19343071501	Mississagagon Lake, West Basin					Fair	
	Upper Mississippi	18343070201	Ardoch (Green) Lake					Excellent	
		18343073301	Crotch (Cross) Lake, North Basin					Excellent	
		18343073201	Crotch (Cross) Lake, South Basin					Excellent	
		18343070701	Fawn Lake					Fair	
		19343071001	Kashwakamak Lake, East Basin					Excellent	
		19343073801	Kashwakamak Lake, West Basin					Excellent	
		18343071301	Malcolm Lake					Fair	
		18343071901	Mosque Lake (North, South & West Basins)					Good	
		18343072001	Pine Lake					Excellent	
Ottawa	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.	Excellent	Excellent	Excellent	Poor	Excellent	Marginal
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert	Excellent	Excellent	Excellent	Fair	Excellent	Fair
		CK6-001	Watts Creek, at Shirley Blvd.	Excellent	Fair	Excellent	Poor	Good	Poor
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd. 49)	Excellent	Poor	Excellent	Poor	Excellent	Fair
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.	Excellent	Good	Excellent	Fair	Excellent	Marginal

source: Watershed Characterization Report
Version 2.1

Appendix 2-2

Surface Water - CCME Water Quality Score
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Station Location	Un-Ionized Ammonia	Chloride	Nitrate	Nitrite	pH	TKN
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat launch	Excellent	Excellent	Excellent	Excellent	Fair	Poor
	RVCA - Ottawa East	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstream of culv	Excellent	Marginal	Excellent	Poor	Excellent	Poor
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream of culvert	Excellent	Poor	Excellent	Poor	Excellent	Poor
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.	Excellent	Good	Excellent	Fair	Excellent	Poor
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of Renaud R	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr. N	Excellent	Poor	Excellent	Poor	Excellent	Poor
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), upstream of	Excellent	Marginal	Excellent	Poor	Excellent	Marginal
		CK24-002	Cardinal Creek, Old Montreal Rd.	Excellent	Excellent	Excellent	Poor	Excellent	Poor
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of culvert	Excellent	Excellent	Excellent	Excellent	Good	Poor
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert	Excellent	Marginal	Excellent	Poor	Excellent	Poor
		MKL-01	MacKay Lake, deepest basin, NW portion of lake	Excellent	Excellent	Excellent	Excellent	Good	Poor
	RVCA - Ottawa West	CK7-01	Stillwater Creek, Carling Ave.	Excellent	Fair	Excellent	Poor	Excellent	Poor
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of culvert	Excellent	Marginal	Excellent	Poor	Excellent	Fair
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)	Excellent	Good	Excellent	Poor	Excellent	Marginal
		CK9-I	Pinecrest Creek, at Ottawa River Parkway, westbound lane, midstream	Excellent	Poor	Excellent	Poor	Excellent	Fair
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore	Excellent	Excellent	Excellent	Excellent	Fair	Poor
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa River	Excellent	Excellent	Excellent	Good	Good	Poor
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream	Excellent	Excellent	Excellent	Fair	Good	Poor
	Ottawa River	18000017002	Ottawa River, Chats Falls	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		ORS-100.20	Woolsey Narrows/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		ORS-210.10	Deschenes Rapids/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		ORS-210.30	Deschenes Rapids/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		ORS-210.40	Deschenes Rapids/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		ORS-430.10	Upper Duck Island/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		ORS-430.60	Kettle Island/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		ORS-430.70	Kettle Island/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		ORS-450.10	Hiawatha/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Good
		ORS-450.20	Hiawatha/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Good
		ORS-450.30	Hiawatha/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		ORS-450.40	Hiawatha/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Good
		ORS-500.10	Petrie Island/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Good
		ORS-500.20	Petrie Island/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		ORS-500.50	Petrie Island/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
RVCA/RVSPA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with Jock Rive	Excellent	Excellent	Excellent	Poor	Excellent	Poor
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)	Excellent	Excellent	Excellent	Good	Excellent	Poor
		JR-02	Jock River, at Jockvale Rd.	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		JR-05	Jock River, at Moodie Dr.	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		JR-12	Jock River, at Ottawa St., Richmond	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		JR-20	Jock River, at Bleeks Side Rd.	Excellent	Excellent	Excellent	Excellent	Excellent	Poor

source: Watershed Characterization Report
Version 2.1

Appendix 2-2

Surface Water - CCME Water Quality Score
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Station Location	Un-Ionized Ammonia	Chloride	Nitrate	Nitrite	pH	TKN
	Kemptville Creek	18003300302	Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptville	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)	Good	Excellent	Excellent		Excellent	Poor
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		KEM-01	Kemptville Creek @ Hwy. 43 (Kemptville)	Excellent	Excellent	Excellent		Excellent	Poor
		KEM-04	Kemptville Creek @ Hurd Street (Kemptville)	Excellent	Excellent	Excellent		Excellent	Poor
		KEM-06	Kemptville Creek @ County Road 18 d/s Oxford Mills	Excellent	Excellent	Excellent		Excellent	Poor
		KEM-07	Kemptville Creek @ Oxford Mills	Excellent	Excellent	Excellent		Excellent	Poor
		KEM-08	Kemptville Creek @ Pattersons Corners	Excellent	Excellent	Excellent		Excellent	Poor
		KEM-09	Kemptville Creek @ County Road 20	Excellent	Excellent	Excellent		Excellent	Poor
		KEM-10	Kemptville Creek @ Limerick Road	Excellent	Excellent	Excellent		Excellent	Poor
		KEM-11	Kemptville Creek @ Garretton	Excellent	Excellent	Excellent		Excellent	Poor
		KEM-14	Kemptville Creek @ Kyle Road	Excellent	Excellent	Excellent		Excellent	Poor
		KEM-16	Kemptville Creek u/s N. Augusta	Excellent	Excellent	Excellent		Excellent	Poor
		NKE-02	North Kemptville Creek @ Bishops Mills	Excellent	Excellent	Excellent		Excellent	Poor
		NKE-06	North Kemptville Creek @ County Road 15 d/s Cranberry Lake	Excellent	Excellent	Excellent		Excellent	Poor
	Lower Rideau	18003302902	Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of Kars	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		18003303102	Rideau River, Hogs Back Rd, Ottawa	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		18003303402	Rideau River, St. Patrick St, Ottawa	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		18003303702	Rideau River, Long Island gauging station, downstream of Manotick	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		ARC-01	Arcand Drain @ County Road 19	Excellent	Excellent	Excellent		Excellent	Poor
		BRA-01	Brassils Creek @ Donnelly Drive	Excellent	Excellent	Excellent		Excellent	Poor
		CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Rideau Rive	Excellent	Excellent	Excellent	Poor	Excellent	Poor
		CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass outlet	Excellent	Marginal	Excellent	Poor	Excellent	Poor
		CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.	Excellent	Good	Excellent	Poor	Excellent	Poor
		CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluence)	Excellent	Fair	Excellent	Poor	Excellent	Poor
		CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.	Excellent	Marginal	Excellent	Poor	Excellent	Poor
		CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)	Excellent	Marginal	Excellent	Poor	Excellent	Poor
		CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.	Excellent	Fair	Excellent	Poor	Excellent	Poor
		CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.	Excellent	Good	Excellent	Poor	Excellent	Poor
		CK19-10	Hunt Club Creek, at Country Club Rd.	Excellent	Excellent	Excellent	Poor	Excellent	Marginal
		CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)	Excellent	Good	Excellent	Poor	Excellent	Excellent
		CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau River	Excellent	Excellent			Excellent	Poor
		CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau River	Excellent	Excellent	Excellent	Marginal	Excellent	Poor
		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., downstream	Excellent	Excellent	Excellent	Poor	Excellent	Poor
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts	Excellent	Excellent	Excellent	Poor	Excellent	Poor
		CK42-04	Stevens Creek, at Church St. weir, North Gower	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger Stevens	Excellent	Excellent	Excellent	Good	Excellent	Poor
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens Rd. and P	Excellent	Excellent	Excellent	Good	Excellent	Poor
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit of Marlbord	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstream of culv	Excellent	Excellent	Excellent	Good	Excellent	Poor
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		MCD-02	McDermott Drain @ County Road 19	Excellent	Excellent	Excellent		Excellent	Poor
		MCD-03	McDermott Drain @ County Road 19	Excellent	Excellent	Excellent		Excellent	Poor
		MUR-01	Murphy Drain @ County Road 22	Excellent	Excellent	Excellent		Excellent	Poor
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa River)	Excellent	Excellent	Excellent	Excellent	Excellent	Poor

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Surface Water - CCME Water Quality Score
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Station Location	Un-Ionized Ammonia	Chloride	Nitrate	Nitrite	pH	TKN
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km upstream	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstream)	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstream)	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)	Excellent	Excellent	Excellent	Good	Excellent	Poor
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock	Excellent	Excellent	Excellent	Excellent	Fair	Poor
		18003303502	Rideau River, Nicholsons Lock, Andrewsville	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		BAR-01	Barbers Creek @ County Road 16	Excellent	Excellent	Excellent		Excellent	Poor
		COC-02	Cockburn Creek @ Hwy. 43	Excellent	Excellent	Excellent		Excellent	Poor
		DAL-01	Dales Creek @ County Road 23	Excellent	Excellent	Excellent		Excellent	Poor
		HUT-02	Hutton Creek @ Townline Road	Excellent	Excellent	Excellent		Excellent	Poor
		IRI-02	Irish Creek @ County Road 15 (Jasper)	Excellent	Excellent	Excellent		Excellent	Poor
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls	Excellent	Excellent	Excellent		Excellent	Poor
		RCK-01	Rideau Creek @ Donnelly Drive	Excellent	Excellent	Excellent		Excellent	Poor
		ROS-01	Rosedale Creek @ Hwy. 43	Excellent	Excellent	Excellent		Excellent	Poor
		RVL-26	Otter Lake						Good
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42	Excellent	Excellent	Excellent		Excellent	Poor
		BLA-01	Black Creek in Murphys Pt. Prov. Park	Excellent	Excellent	Excellent		Excellent	Poor
		RVL-11	Black Lake						Poor
		RVL-12	Burridge Lake						Good
		RVL-13	Long Lake (East)						Excellent
		RVL-14	Westport Sand Lake						Fair
		RVL-27	Wolfe Lake						Excellent
		RVL-32	Adam Lake						Good
		RVL-33	Round Lake						Excellent
		RVL-34	Loon Lake						Poor
		RVL-35	Bass Lake						Good
		RVL-36	Big Rideau Lake, Hoggs Bay						Fair
		RVL-37	Upper Rideau Lake						Fair
		RVL-38	Lower Rideau Lake						Good
		RVL-39	Big Rideau Lake						Good
		SHE-01	Sheldons Creek @ Old Kingston Road	Excellent	Excellent	Excellent		Excellent	Poor
		WES-01	Westport Dam	Excellent	Excellent	Excellent		Good	Marginal
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		EAG-01	Eagle Creek u/s Bobs Lake	Excellent	Excellent	Excellent		Excellent	Marginal
		FIS-01	Fish Creek	Excellent	Excellent	Excellent		Excellent	Poor
		FIS-03	Fish Creek @ County Road 38	Excellent	Excellent	Excellent		Excellent	Poor
		FIS-A	Fish Creek u/s Bobs Lake	Excellent	Excellent	Excellent		Excellent	Poor
		GRT-01	Grants Creek @ Glen Tay Road	Excellent	Excellent	Excellent		Excellent	Poor

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Surface Water - CCME Water Quality Score
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Station Location	Un-Ionized Ammonia	Chloride	Nitrate	Nitrite	pH	TKN
		GRT-02	Grants Creek @ Upper Scotch Line	Excellent	Excellent	Excellent		Excellent	Poor
		GRT-03	Grants Creek @ County Road 10	Excellent	Excellent	Excellent		Excellent	Marginal
		GRT-04	Grants Creek @ Pike Lake Dam	Excellent	Excellent	Excellent		Excellent	Fair
		GRT-05	Grants Creek d/s Upper Scotch Line	Excellent	Excellent	Excellent		Excellent	Poor
		JEB-01	Jebbs Creek @ County Road 1	Excellent	Excellent	Excellent		Excellent	Poor
		RUD-01	Ruddsdale Creek @ Christie Lake Road	Excellent	Excellent	Excellent		Excellent	Poor
		RVL-01	Pike Lake						Fair
		RVL-02	O'Brien Lake						Marginal
		RVL-03	Farren Lake						Excellent
		RVL-04	Crosby Lake						Good
		RVL-05	Little Crosby Lake						Good
		RVL-06	Davern Lake						Good
		RVL-07	Little Silver Lake						Good
		RVL-08	Rainbow Lake						Poor
		RVL-09	Eagle Lake						Excellent
		RVL-10	Otty Lake						Poor
		RVL-16	Bob's Lake, Buck Bay						Good
		RVL-17	Bob's Lake, Green Bay						Good
		RVL-18	Bob's Lake, West Basin						Good
		RVL-19	Bob's Lake, Mud Bay						Good
		RVL-20	Bob's Lake, Norris Bay						Good
		RVL-21	Bob's Lake, E. Basin, Long Bay						Good
		RVL-22	Bob's Lake, C. Narrows						Excellent
		RVL-23	Bob's Lake, Mill Bay						Poor
		RVL-24	Crow Lake						Excellent
		RVL-25	Christie Lake						Excellent
		RVL-28	Leggatt Lake						Excellent
		RVL-29	Long Lake (West)						Poor
		RVL-30	Elbow Lake						Poor
		RVL-31	Carnahan Lake						Poor
		SNY-03	Scotts Snye @ Upper Scotch Line	Excellent	Excellent	Excellent		Excellent	Good
		STU-01	Stub Creek @ Babcock Road u/s Long Lake	Excellent	Excellent	Excellent		Excellent	Marginal
		TAY-01	Tay River @ Port Elmsley	Excellent	Excellent	Excellent		Excellent	Poor
		TAY-04	Tay River @ Rogers Road (Perth)	Excellent	Excellent	Excellent		Excellent	Marginal
		TAY-05	Tay River @ Glen Tay	Excellent	Excellent	Excellent		Excellent	Fair
		TAY-08	Tay River @ Gore Street (Perth)	Excellent	Excellent	Excellent		Excellent	Fair
		TAY-09	Tay River @ Adams Pond	Excellent	Excellent	Excellent		Excellent	Excellent
		TAY-11	Tay River u/s of Tay Marsh	Excellent	Excellent	Excellent		Good	Poor
		TAY-15	Tay River d/s of Christie Lake	Excellent	Excellent	Excellent		Excellent	Excellent
		TAY-16	Tay River @ Bolingbroke	Excellent	Excellent	Excellent		Excellent	Excellent
		TAY-19	Tay River @ Craig St. (Perth)	Excellent	Excellent	Excellent		Excellent	Marginal
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake	Excellent	Excellent	Excellent		Excellent	Poor

source: Watershed Characterization Report
Version 2.1

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Surface Water - CCME Water Quality Score
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Station Location	Total Phosphorus	TSS	Copper	Lead	Zinc	*E. coli*
MVC/MVSPA	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin	Excellent					
		19343072901	Big Gull (Clarendon) Lake, Main Basin	Excellent					
		19343072801	Big Gull (Clarendon) Lake, West Basin	Excellent					
	Buckshot Creek	18343077201	Blue Lake	Excellent					
		18343070401	Buckshot (Indian) Lake	Excellent					
		18343070801	Grindstone Lake, North Basin	Good					
		18343070901	Grindstone Lake, South Basin	Good					
		18343072101	Sand Lake	Excellent					
		18343072201	Shabomeka (Buck) Lake						
		19343072301	Shawenegog (McClintock) Lake, North Basin	Excellent					
		19343072401	Shawenegog (McClintock) Lake, South Basin	Excellent					
	Carp River	18337010102	Carp River, Craig Side Rd, downstream Carp	Poor	Good	Excellent	Excellent	Excellent	
		18337012102	Carp River, John Shaw Rd, downstream of Kinburn	Poor	Fair	Excellent	Excellent	Excellent	
		R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour	Poor	Good	Good	Excellent	Excellent	Marginal
		R010-06	Carp River, at Craig Side Rd., downstream of bridge	Poor	Good	Good	Excellent	Excellent	Poor
		R010-09	Carp River, at Richardson Side Rd., downstream of bridge	Poor	Fair	Good	Excellent	Excellent	Marginal
		R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road	Poor	Fair	Good	Excellent	Excellent	Fair
		CK70-05	Poole Creek, Stittsville Main St	Marginal	Fair	Fair	Excellent	Excellent	Poor
	Clyde River	18343052002	At dam, downstream of Lanark	Excellent	Excellent	Excellent	Excellent	Excellent	
		18343053002	Kerr Lake outlet, upstream of Lanark	Excellent	Excellent	Excellent	Excellent	Excellent	
		18343070501	Canonto Lake (North & South Basins)	Excellent					
		19343074901	Clyde Lake	Excellent					
		19343075001	Flower Round Lake	Good					
		19343076001	Horne Lake	Excellent					
		19343076401	Joes Lake	Excellent					
		18343074301	Palmerston Lake (North & South Basins)	Good					
		19343076501	Paddys Lake	Marginal					
		19343075901	Upper Park Lake	Good					
		19343070101	Robertson Lake	Good					
		19343003601	Sunday Lake	Fair					
		19343076301	Widow Lake	Excellent					
	CP Dam	18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8	Excellent	Excellent	Excellent	Excellent	Excellent	
		19343073401	Dalhousie Lake	Excellent					
		19343073501	Mississippi Lake, Big Lake						
		19343001401	Mississippi Lake, Second Lake						
		18343075301	Patterson Lake	Excellent					
	Fall River	18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook	Excellent	Excellent	Excellent	Excellent	Excellent	
		18343072701	Bennett Lake (North & South Basins)	Good					
		Unknown	Black Lake	Excellent					
		18343074801	Clear Lake	Excellent					

source: Watershed Characterization Report
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Surface Water - CCME Water Quality Score
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Station Location	Total Phosphorus	TSS	Copper	Lead	Zinc	*E. coli*
		18343073601	Sharbot Lake, East Basin	Excellent					
		18343072501	Sharbot Lake, Main Basin	Excellent					
		18343074501	Sharbot Lake, South-West Basin	Excellent					
		18343074401	Sharbot Lake, West Basin	Excellent					
		18343072601	Silver Lake	Excellent					
		18343074601	White Lake	Excellent					
	Indian River	19343073101	Clayton Lake	Excellent					
		19343077101	Taylor Lake	Excellent					
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta	Good	Excellent	Excellent	Excellent	Excellent	
		18343003402	Mississippi River, At dam, downstream of Pakenham	Excellent	Excellent	Excellent	Excellent	Excellent	
		18343004002	Mississippi River, Almonte St, Almonte	Excellent	Excellent	Excellent	Excellent	Excellent	
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton	Excellent	Excellent	Excellent	Excellent	Excellent	
		CK3-01	Cody Creek, at Hansen Side Rd.	Poor	Marginal	Good	Excellent	Excellent	Poor
		CK3-03	Cody Creek, at Highway 44, E of Road 10	Fair	Excellent	Good	Excellent	Excellent	Excellent
		CK3-04	Cody Creek, March Rd.	Excellent	Excellent	Good	Excellent	Excellent	Fair
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)	Good	Excellent	Excellent	Excellent	Excellent	Good
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41	Good	Excellent	Excellent	Excellent	Excellent	
		18343071101	Kishkebus Lake						
		18343073901	Mackavoy Lake						
		18343071401	Marble Lake						
		19343074101	Mazinaw Lake, North Basin	Excellent					
		19343073701	Mazinaw Lake, South Basin	Excellent					
		Unknown	McCausland Lake						
		19343071601	Mississagagon Lake, East Basin						
		19343071501	Mississagagon Lake, West Basin						
	Upper Mississippi	18343070201	Ardoch (Green) Lake	Excellent					
		18343073301	Crotch (Cross) Lake, North Basin	Fair					
		18343073201	Crotch (Cross) Lake, South Basin	Good					
		18343070701	Fawn Lake	Good					
		19343071001	Kashwakamak Lake, East Basin						
		19343073801	Kashwakamak Lake, West Basin						
		18343071301	Malcolm Lake	Excellent					
		18343071901	Mosque Lake (North, South & West Basins)	Good					
		18343072001	Pine Lake	Excellent					
Ottawa	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.	Poor	Excellent	Excellent	Excellent	Excellent	Fair
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.	Poor	Marginal	Good	Excellent	Excellent	Poor
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert	Poor	Marginal	Good	Excellent	Excellent	Poor
		CK6-001	Watts Creek, at Shirley Blvd.	Poor	Poor	Marginal	Excellent	Good	Poor
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd. 49)	Poor	Marginal	Marginal	Excellent	Good	Poor
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway	Poor	Poor	Good	Excellent	Excellent	Poor
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.	Poor	Good	Good	Excellent	Excellent	Marginal

source: Watershed Characterization Report
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Surface Water - CCME Water Quality Score
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Station Location	Total Phosphorus	TSS	Copper	Lead	Zinc	*E. coli*
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat launch	Marginal	Excellent	Good	Excellent	Excellent	Excellent
	RVCA - Ottawa East	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstream of culv	Poor	Poor	Poor	Excellent	Good	Poor
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream of culvert	Poor	Marginal	Marginal	Excellent	Good	Poor
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.	Poor	Poor	Poor	Excellent	Excellent	Poor
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of Renaud R	Poor	Good	Good	Excellent	Excellent	Fair
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr. N	Poor	Poor	Marginal	Excellent	Good	Poor
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), upstream of	Poor	Marginal	Marginal	Excellent	Excellent	Poor
		CK24-002	Cardinal Creek, Old Montreal Rd.	Poor	Poor	Marginal	Excellent	Excellent	Marginal
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of culvert	Poor	Marginal	Marginal	Excellent	Excellent	Fair
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert	Poor	Poor	Marginal	Excellent	Good	Poor
		MKL-01	MacKay Lake, deepest basin, NW portion of lake	Good	Excellent	Good	Excellent	Excellent	Excellent
	RVCA - Ottawa West	CK7-01	Stillwater Creek, Carling Ave.	Poor	Marginal	Fair	Excellent	Excellent	Poor
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of culvert	Poor	Marginal	Fair	Excellent	Good	Poor
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)	Poor	Poor	Fair	Excellent	Excellent	Poor
		CK9-I	Pinecrest Creek, at Ottawa River Parkway, westbound lane, midstream	Marginal	Fair	Fair	Excellent	Good	Poor
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore	Poor	Good	Good	Excellent	Excellent	Good
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa River	Poor	Excellent	Good	Excellent	Excellent	Fair
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream	Poor	Excellent	Excellent	Excellent	Excellent	Excellent
	Ottawa River	18000017002	Ottawa River, Chats Falls	Excellent	Excellent	Excellent	Excellent	Excellent	
		ORS-100.20	Woolsey Narrows/Ottawa River	Excellent	Excellent	Good	Excellent	Excellent	Excellent
		ORS-210.10	Deschenes Rapids/Ottawa River	Excellent	Excellent	Good	Excellent	Excellent	Good
		ORS-210.30	Deschenes Rapids/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		ORS-210.40	Deschenes Rapids/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		ORS-430.10	Upper Duck Island/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Fair
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Fair
		ORS-430.60	Kettle Island/Ottawa River	Excellent	Excellent	Good	Excellent	Excellent	Fair
		ORS-430.70	Kettle Island/Ottawa River	Excellent	Excellent	Excellent	Excellent	Excellent	Fair
		ORS-450.10	Hiawatha/Ottawa River	Excellent	Excellent	Good	Excellent	Excellent	Fair
		ORS-450.20	Hiawatha/Ottawa River	Excellent	Excellent	Good	Excellent	Excellent	Marginal
		ORS-450.30	Hiawatha/Ottawa River	Excellent	Excellent	Good	Excellent	Excellent	Marginal
		ORS-450.40	Hiawatha/Ottawa River	Excellent	Excellent	Good	Excellent	Excellent	Poor
		ORS-500.10	Petrie Island/Ottawa River	Good	Excellent	Good	Excellent	Excellent	Good
		ORS-500.20	Petrie Island/Ottawa River	Excellent	Excellent	Good	Excellent	Excellent	Good
		ORS-500.50	Petrie Island/Ottawa River	Excellent	Excellent	Good	Excellent	Excellent	Poor
RVCA/RVSPA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416	Poor	Good	Excellent	Excellent	Excellent	Marginal
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with Jock River	Poor	Poor	Good	Excellent	Excellent	Poor
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)	Poor	Good	Good	Excellent	Excellent	Fair
		JR-02	Jock River, at Jockvale Rd.	Poor	Excellent	Good	Excellent	Excellent	Good
		JR-05	Jock River, at Moodie Dr.	Poor	Good	Good	Excellent	Excellent	Fair
		JR-12	Jock River, at Ottawa St., Richmond	Marginal	Excellent	Excellent	Excellent	Excellent	Fair
		JR-20	Jock River, at Bleeks Side Rd.	Marginal	Good	Good	Excellent	Excellent	Marginal

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Surface Water - CCME Water Quality Score
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Station Location	Total Phosphorus	TSS	Copper	Lead	Zinc	*E. coli*
	Kemptville Creek	18003300302	Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptville	Marginal	Excellent	Excellent	Excellent	Excellent	Good
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)	Poor	Poor	Fair	Excellent	Good	Poor
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)	Good	Excellent	Good	Excellent	Excellent	Fair
		KEM-01	Kemptville Creek @ Hwy. 43 (Kemptville)	Marginal	Excellent	Good	Excellent	Excellent	Marginal
		KEM-04	Kemptville Creek @ Hurd Street (Kemptville)	Excellent	Excellent	Excellent	Excellent	Excellent	Fair
		KEM-06	Kemptville Creek @ County Road 18 d/s Oxford Mills	Excellent	Excellent	Excellent	Excellent	Excellent	Good
		KEM-07	Kemptville Creek @ Oxford Mills	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		KEM-08	Kemptville Creek @ Pattersons Corners	Good	Excellent	Excellent	Excellent	Excellent	Good
		KEM-09	Kemptville Creek @ County Road 20	Fair	Good	Excellent	Excellent	Excellent	Good
		KEM-10	Kemptville Creek @ Limerick Road	Marginal	Excellent	Excellent	Excellent	Excellent	Good
		KEM-11	Kemptville Creek @ Garretton	Marginal	Excellent	Excellent	Excellent	Good	Good
		KEM-14	Kemptville Creek @ Kyle Road	Marginal	Excellent	Good	Excellent	Excellent	Fair
		KEM-16	Kemptville Creek u/s N. Augusta	Good	Excellent	Excellent	Excellent	Excellent	Fair
		NKE-02	North Kemptville Creek @ Bishops Mills	Excellent	Good	Excellent	Excellent	Excellent	Marginal
		NKE-06	North Kemptville Creek @ County Road 15 d/s Cranberry Lake	Excellent	Excellent	Excellent	Excellent	Excellent	Fair
	Lower Rideau	18003302902	Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of Kars	Marginal	Excellent	Excellent	Excellent	Excellent	Excellent
		18003303102	Rideau River, Hogs Back Rd, Ottawa	Marginal	Excellent	Excellent	Excellent	Excellent	Fair
		18003303402	Rideau River, St. Patrick St, Ottawa	Marginal	Excellent	Excellent	Excellent	Excellent	Fair
		18003303702	Rideau River, Long Island gauging station, downstream of Manotick	Marginal	Excellent	Excellent	Excellent	Excellent	Good
		ARC-01	Arcand Drain @ County Road 19	Poor	Marginal	Fair	Excellent	Excellent	Fair
		BRA-01	Brassils Creek @ Donnelly Drive	Good	Excellent	Good	Excellent	Excellent	Good
		CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Rideau Rive	Poor	Marginal	Good	Excellent	Excellent	Marginal
		CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass outlet	Poor	Poor	Marginal	Excellent	Good	Marginal
		CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.	Fair	Fair	Good	Excellent	Excellent	Fair
		CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluence)	Poor	Poor	Fair	Excellent	Good	Poor
		CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.	Poor	Poor	Marginal	Excellent	Good	Poor
		CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)	Poor	Poor	Marginal	Excellent	Good	Poor
		CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.	Poor	Fair	Fair	Excellent	Good	Poor
		CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.	Poor	Fair	Fair	Excellent	Excellent	Poor
		CK19-10	Hunt Club Creek, at Country Club Rd.	Poor	Good	Fair	Excellent	Good	Marginal
		CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)	Good	Good	Fair	Excellent	Good	Fair
		CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau River	Poor	Fair	Good	Excellent	Excellent	Marginal
		CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau River	Poor	Fair	Good	Excellent	Excellent	Fair
		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., downstream	Poor	Fair	Good	Excellent	Excellent	Poor
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts	Poor	Good	Good	Excellent	Excellent	Marginal
		CK42-04	Stevens Creek, at Church St. weir, North Gower	Poor	Fair	Good	Excellent	Excellent	Poor
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger Stevens	Poor	Marginal	Fair	Excellent	Excellent	Marginal
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens Rd. and P	Poor	Fair	Good	Excellent	Excellent	Fair
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit of Marlbord	Excellent	Excellent	Excellent	Excellent	Excellent	Good
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstream of culv	Poor	Good	Good	Excellent	Excellent	Fair
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.	Excellent	Excellent	Good	Excellent	Excellent	Good
		MCD-02	McDermott Drain @ County Road 19	Poor	Fair	Good	Excellent	Excellent	Marginal
		MCD-03	McDermott Drain @ County Road 19	Poor	Fair	Good	Excellent	Excellent	Marginal
		MUR-01	Murphy Drain @ County Road 22	Poor	Good	Good	Excellent	Excellent	Marginal
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa River)	Poor	Good	Good	Excellent	Excellent	Good

source: Watershed Characterization Report

Appendix 2-2

Surface Water - CCME Water Quality Score
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Station Location	Total Phosphorus	TSS	Copper	Lead	Zinc	*E. coli*
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)	Poor	Good	Good	Excellent	Excellent	Good
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km upstream	Poor	Good	Good	Excellent	Excellent	Good
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstream)	Poor	Good	Good	Excellent	Excellent	Good
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)	Poor	Excellent	Good	Excellent	Excellent	Excellent
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)	Marginal	Good	Good	Excellent	Excellent	Good
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)	Marginal	Excellent	Good	Excellent	Excellent	Excellent
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstream)	Good	Excellent	Good	Excellent	Excellent	Excellent
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)	Poor	Good	Good	Excellent	Good	Good
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock	Good	Good	Excellent	Excellent	Excellent	Excellent
		18003303502	Rideau River, Nicholsons Lock, Andrewsville	Good	Excellent	Excellent	Good	Excellent	Excellent
		BAR-01	Barbers Creek @ County Road 16	Poor	Good	Good	Excellent	Excellent	Poor
		COC-02	Cockburn Creek @ Hwy. 43	Poor	Excellent	Fair	Excellent	Excellent	Marginal
		DAL-01	Dales Creek @ County Road 23	Fair	Excellent	Good	Excellent	Excellent	Poor
		HUT-02	Hutton Creek @ Townline Road	Poor	Good	Good	Excellent	Excellent	Poor
		IRI-02	Irish Creek @ County Road 15 (Jasper)	Good	Excellent	Excellent	Excellent	Excellent	Excellent
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls	Poor	Good	Excellent	Excellent	Excellent	Poor
		RCK-01	Rideau Creek @ Donnelly Drive	Good	Excellent	Good	Excellent	Excellent	Marginal
		ROS-01	Rosedale Creek @ Hwy. 43	Poor	Poor	Fair	Excellent	Excellent	Poor
		RVL-26	Otter Lake	Excellent					Excellent
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42	Poor	Marginal	Good	Excellent	Excellent	Poor
		BLA-01	Black Creek in Murphys Pt. Prov. Park	Marginal	Excellent	Excellent	Excellent	Excellent	Good
		RVL-11	Black Lake	Excellent					Excellent
		RVL-12	Burridge Lake	Excellent					Excellent
		RVL-13	Long Lake (East)	Excellent					Excellent
		RVL-14	Westport Sand Lake	Excellent					Excellent
		RVL-27	Wolfe Lake	Excellent					Excellent
		RVL-32	Adam Lake	Excellent					Excellent
		RVL-33	Round Lake	Excellent					Excellent
		RVL-34	Loon Lake	Good					Excellent
		RVL-35	Bass Lake	Excellent					Good
		RVL-36	Big Rideau Lake, Hoggs Bay	Good					Excellent
		RVL-37	Upper Rideau Lake	Fair					Excellent
		RVL-38	Lower Rideau Lake	Excellent					Excellent
		RVL-39	Big Rideau Lake	Excellent					Excellent
		SHE-01	Sheldons Creek @ Old Kingston Road	Poor	Good	Good	Excellent	Excellent	Fair
		WES-01	Westport Dam	Good	Good	Good	Excellent	Excellent	Excellent
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons	Good	Excellent	Excellent	Excellent	Excellent	Fair
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		EAG-01	Eagle Creek u/s Bobs Lake	Marginal	Excellent	Excellent	Excellent	Excellent	Good
		FIS-01	Fish Creek	Fair	Excellent	Good	Excellent	Excellent	Marginal
		FIS-03	Fish Creek @ County Road 38	Poor	Excellent	Excellent	Excellent	Excellent	Marginal
		FIS-A	Fish Creek u/s Bobs Lake	Fair	Excellent	Excellent	Excellent	Excellent	Good
		GRT-01	Grants Creek @ Glen Tay Road	Poor	Fair	Good	Excellent	Excellent	Fair

source: Watershed Characterization Report
Version 2.1

Appendix 2-2

Surface Water - CCME Water Quality Score
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Station Location	Total Phosphorus	TSS	Copper	Lead	Zinc	*E. coli*
		GRT-02	Grants Creek @ Upper Scotch Line	Marginal	Excellent	Excellent	Excellent	Excellent	Poor
		GRT-03	Grants Creek @ County Road 10	Good	Excellent	Excellent	Excellent	Excellent	Good
		GRT-04	Grants Creek @ Pike Lake Dam	Excellent	Excellent	Excellent	Excellent	Excellent	Good
		GRT-05	Grants Creek d/s Upper Scotch Line	Marginal	Good	Good	Excellent	Excellent	Poor
		JEB-01	Jebbs Creek @ County Road 1	Good	Excellent	Excellent	Excellent	Excellent	Good
		RUD-01	Ruddsdale Creek @ Christie Lake Road	Marginal	Excellent	Excellent	Excellent	Excellent	Fair
		RVL-01	Pike Lake	Excellent					Excellent
		RVL-02	O'Brien Lake	Excellent					Excellent
		RVL-03	Farren Lake	Excellent					Excellent
		RVL-04	Crosby Lake	Excellent					Excellent
		RVL-05	Little Crosby Lake	Good					Excellent
		RVL-06	Davern Lake	Excellent					Excellent
		RVL-07	Little Silver Lake	Excellent					Excellent
		RVL-08	Rainbow Lake	Good					Excellent
		RVL-09	Eagle Lake	Excellent					Excellent
		RVL-10	Otty Lake	Excellent					Excellent
		RVL-16	Bob's Lake, Buck Bay	Excellent					Excellent
		RVL-17	Bob's Lake, Green Bay	Excellent					Excellent
		RVL-18	Bob's Lake, West Basin	Excellent					Excellent
		RVL-19	Bob's Lake, Mud Bay	Excellent					Excellent
		RVL-20	Bob's Lake, Norris Bay	Excellent					Excellent
		RVL-21	Bob's Lake, E. Basin, Long Bay	Excellent					Excellent
		RVL-22	Bob's Lake, C. Narrows	Excellent					Excellent
		RVL-23	Bob's Lake, Mill Bay	Good					Excellent
		RVL-24	Crow Lake	Excellent					Excellent
		RVL-25	Christie Lake	Excellent					Excellent
		RVL-28	Leggatt Lake	Excellent					Excellent
		RVL-29	Long Lake (West)	Good					Excellent
		RVL-30	Elbow Lake	Good					Excellent
		RVL-31	Carnahan Lake	Good					Excellent
		SNY-03	Scotts Snye @ Upper Scotch Line	Excellent	Excellent	Excellent	Excellent	Excellent	Fair
		STU-01	Stub Creek @ Babcock Road u/s Long Lake	Fair	Excellent	Excellent	Excellent	Excellent	Good
		TAY-01	Tay River @ Port Elmsley	Good	Excellent	Excellent	Excellent	Excellent	Good
		TAY-04	Tay River @ Rogers Road (Perth)	Excellent	Excellent	Excellent	Excellent	Excellent	Fair
		TAY-05	Tay River @ Glen Tay	Excellent	Excellent	Good	Excellent	Excellent	Good
		TAY-08	Tay River @ Gore Street (Perth)	Excellent	Excellent	Excellent	Excellent	Excellent	Good
		TAY-09	Tay River @ Adams Pond	Excellent	Excellent	Good	Excellent	Excellent	Good
		TAY-11	Tay River u/s of Tay Marsh	Good	Excellent	Excellent	Excellent	Excellent	Fair
		TAY-15	Tay River d/s of Christie Lake	Excellent	Excellent	Excellent	Excellent	Excellent	Good
		TAY-16	Tay River @ Bolingbroke	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
		TAY-19	Tay River @ Craig St. (Perth)	Excellent	Excellent	Excellent	Excellent	Excellent	Marginal
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake	Marginal	Excellent	Good	Excellent	Excellent	Excellent

source: Watershed Characterization Report
Version 2.1

Appendix 2-2
Surface Water - CCME Water Quality Score
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Station Location

Notes:
CCME - Canadian Council of Ministers of the Environment
CCME Water Quality Scoring System
MVC - Mississippi Valley Conservation
RVCA - Rideau Valley Conservation Authority
Excellent Water Quality - 95-100% of the samples in compliance with criterion
Good Water Quality - 80-94% of the samples in compliance with criterion
Fair Water Quality - 65-79% of the samples in compliance with criterion
Marginal Water Quality - 45-64% of the samples in compliance with criterion
Poor Water Quality - 0-44% of the samples in compliance with criterion

Appendix 2-3

Surface Water - Water Quality Summary Results

Mississippi-Rideau Source Protection Region

Appendix 2-3
Surface Water - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Un-Ionized Ammonia (mg/L)				
			# of Samples	PWQO criteria	# Samples Exceeding	% Samples Meeting Criteria	CCME Score
MVC/MVSPA	Big Gull	Total					
	Buckshot Creek	Total					
	Carp River	Total	372	0.02	1	100%	Excellent
	Clyde River	Total	68	0.02	0	100%	Excellent
	CP Dam	Total	35	0.02	0	100%	Excellent
	Fall River	Total	34	0.02	0	100%	Excellent
	Indian River	Total					
	Lower Mississippi	Total	324	0.02	0	100%	Excellent
	Mazinaw	Total	35	0.02	0	100%	Excellent
	Upper Mississippi	Total					
Ottawa	MVC - Ottawa	Total	464	0.02	0	100%	Excellent
	RVCA - Ottawa East	Total	598	0.02	1	100%	Excellent
	RVCA - Ottawa West	Total	375	0.02	2	99%	Excellent
	Ottawa River	Total	464	0.02	0	100%	Excellent
RVCA/RVSPA	Jock River	Total	426	0.02	2	100%	Excellent
	Kemptville Creek	Total	306	0.02	1	100%	Excellent
	Lower Rideau	Total	2128	0.02	2	100%	Excellent
	Middle Rideau	Total	184	0.02	0	100%	Excellent
	Rideau Lakes	Total	53	0.02	0	100%	Excellent
	Tay River	Total	384	0.02	0	100%	Excellent

Notes:
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CWQG - Canadian Water Quality Guidelines, CCME
EC - Environment Canada
MOE - Ontario Ministry of the Environment
MVC WW - Mississippi Valley Conservation - Watershed Watch
ODWQS - Ontario Drinking Water Quality Standards, MOE
ODWSOG - Ontario Drinking Water Standards, Objectives and Guidelines, MOE
Ottawa - City of Ottawa - Surface Water Quality Monitoring
PWQMN - Provincial Water Quality Monitoring Network
PWQO - Provincial Water Quality Objectives, MOE
RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring
RVCA WW - Rideau Valley Conservation Authority - Watershed Watch

1 - PWQO criteria for pH must be between the range of 6.5 - 8.5
2 - PWQO criteria for lead varies depending on alkalinity concentration - see PWQO, MOE

Appendix 2-3
Surface Water - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Chloride (mg/L)				
			# of Samples	ODWSOG criteria	# Samples Exceeding	% Samples Meeting Criteria	CCME Score
MVC/MVSPA	Big Gull	Total					
	Buckshot Creek	Total					
	Carp River	Total	382	250	7	98%	Excellent
	Clyde River	Total	68	250	0	100%	Excellent
	CP Dam	Total	35	250	0	100%	Excellent
	Fall River	Total	35	250	0	100%	Excellent
	Indian River	Total					
	Lower Mississippi	Total	332	250	0	100%	Excellent
	Mazinaw	Total	35	250	0	100%	Excellent
	Upper Mississippi	Total					
Ottawa	MVC - Ottawa	Total	481	250	79	84%	Good
	RVCA - Ottawa East	Total	684	250	231	66%	Fair
	RVCA - Ottawa West	Total	525	250	206	61%	Marginal
	Ottawa River	Total	572	250	0	100%	Excellent
RVCA/RVSPA	Jock River	Total	428	250	0	100%	Excellent
	Kemptville Creek	Total	426	250	0	100%	Excellent
	Lower Rideau	Total	2218	250	146	93%	Good
	Middle Rideau	Total	243	250	0	100%	Excellent
	Rideau Lakes	Total	72	250	0	100%	Excellent
	Tay River	Total	545	250	0	100%	Excellent

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ODWSOG - Ontario Drinking Water Standards,
Ottawa - City of Ottawa - Surface Water Quality
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1 - PWQO criteria for pH must be between the r
2 - PWQO criteria for lead varies depending on

Appendix 2-3
Surface Water - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Nitrate (mg/L)				
			# of Samples	ODWQS criteria	# Samples Exceeding	% Samples Meeting Criteria	CCME Score
MVC/MVSPA	Big Gull	Total					
	Buckshot Creek	Total					
	Carp River	Total	196	10	0	100%	Excellent
	Clyde River	Total	68	10	0	100%	Excellent
	CP Dam	Total	35	10	0	100%	Excellent
	Fall River	Total	35	10	0	100%	Excellent
	Indian River	Total					
	Lower Mississippi	Total	222	10	0	100%	Excellent
	Mazinaw	Total	35	10	0	100%	Excellent
	Upper Mississippi	Total					
Ottawa	MVC - Ottawa	Total	196	10	0	100%	Excellent
	RVCA - Ottawa East	Total	248	10	0	100%	Excellent
	RVCA - Ottawa West	Total	156	10	0	100%	Excellent
	Ottawa River	Total	272	10	0	100%	Excellent
RVCA/RVSPA	Jock River	Total	207	10	0	100%	Excellent
	Kemptville Creek	Total	290	10	0	100%	Excellent
	Lower Rideau	Total	1028	10	0	100%	Excellent
	Middle Rideau	Total	186	10	0	100%	Excellent
	Rideau Lakes	Total	57	10	0	100%	Excellent
	Tay River	Total	402	10	0	100%	Excellent

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Appendix 2-3
Surface Water - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Nitrite (mg/L)				
			# of Samples	CWQG criteria	# Samples Exceeding	% Samples Meeting Criteria	CCME Score
MVC/MVSPA	Big Gull	Total					
	Buckshot Creek	Total					
	Carp River	Total	196	0.06	97	51%	Marginal
	Clyde River	Total	68	0.06	0	100%	Excellent
	CP Dam	Total	35	0.06	0	100%	Excellent
	Fall River	Total	35	0.06	0	100%	Excellent
	Indian River	Total					
	Lower Mississippi	Total	222	0.06	5	98%	Excellent
	Mazinaw	Total	35	0.06	0	100%	Excellent
	Upper Mississippi	Total					
Ottawa	MVC - Ottawa	Total	196	0.06	86	56%	Marginal
	RVCA - Ottawa East	Total	248	0.06	152	39%	Poor
	RVCA - Ottawa West	Total	156	0.06	105	33%	Poor
	Ottawa River	Total	272	0.06	0	100%	Excellent
RVCA/RVSPA	Jock River	Total	207	0.06	24	88%	Good
	Kemptville Creek	Total	68	0.06	0	100%	Excellent
	Lower Rideau	Total	947	0.06	358	62%	Marginal
	Middle Rideau	Total	60	0.06	0	100%	Excellent
	Rideau Lakes	Total					
	Tay River	Total	49	0.06	0	100%	Excellent

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Appendix 2-3
Surface Water - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	pH (unitless)				
			# of Samples	PWQO criteria[1]	# Samples Exceeding	% Samples Meeting Criteria	CCME Score
MVC/MVSPA	Big Gull	Total	33	6.5 - 8.5	0	100%	Excellent
	Buckshot Creek	Total	42	6.5 - 8.5	2	95%	Excellent
	Carp River	Total	382	6.5-8.5	13	97%	Excellent
	Clyde River	Total	168	6.5 - 8.5	18	89%	Good
	CP Dam	Total	67	6.5 - 8.5	6	91%	Good
	Fall River	Total	116	6.5 - 8.5	24	79%	Fair
	Indian River	Total	16	6.5 - 8.5	5	69%	Fair
	Lower Mississippi	Total	332	6.5-8.5	7	98%	Excellent
	Mazinaw	Total	63	6.5 - 8.5	3	95%	Excellent
	Upper Mississippi	Total	66	6.5 - 8.5	5	92%	Good
Ottawa	MVC - Ottawa	Total	476	6.5-8.5	21	96%	Excellent
	RVCA - Ottawa East	Total	608	6.5-8.5	10	98%	Excellent
	RVCA - Ottawa West	Total	383	6.5-8.5	19	95%	Excellent
	Ottawa River	Total	572	6.5-8.5	0	100%	Excellent
RVCA/RVSPA	Jock River	Total	428	6.5-8.5	0	100%	Excellent
	Kemptville Creek	Total	425	6.5 - 8.5	0	100%	Excellent
	Lower Rideau	Total	2216	6.5-8.5	3	100%	Excellent
	Middle Rideau	Total	243	6.5 - 8.5	11	95%	Excellent
	Rideau Lakes	Total	74	6.5 - 8.5	1	99%	Excellent
	Tay River	Total	544	6.5 - 8.5	5	99%	Excellent

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2 - PWQO criteria for lead varies depending on

Appendix 2-3
Surface Water - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	TKN (mg/L)				
			# of Samples	EC guideline	# Samples Exceeding	% Samples Meeting Criteria	CCME Score
MVC/MVSPA	Big Gull	Total					
	Buckshot Creek	Total					
	Carp River	Total	382	0.5	352	8%	Poor
	Clyde River	Total	68	0.5	21	69%	Fair
	CP Dam	Total	36	0.5	2	94%	Good
	Fall River	Total	36	0.5	14	61%	Marginal
	Indian River	Total					
	Lower Mississippi	Total	332	0.5	184	45%	Poor
	Mazinaw	Total	36	0.5	2	94%	Good
	Upper Mississippi	Total					
Ottawa	MVC - Ottawa	Total	477	0.5	287	40%	Poor
	RVCA - Ottawa East	Total	608	0.5	473	22%	Poor
	RVCA - Ottawa West	Total	383	0.5	245	36%	Poor
	Ottawa River	Total	572	0.5	20	97%	Excellent
RVCA/RVSPA	Jock River	Total	428	0.5	406	5%	Poor
	Kemptville Creek	Total	490	0.5	445	9%	Poor
	Lower Rideau	Total	2247	0.5	1789	20%	Poor
	Middle Rideau	Total	379	0.5	286	25%	Poor
	Rideau Lakes	Total	1564	0.5	377	76%	Fair
	Tay River	Total	2129	0.5	680	68%	Fair

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Source: Watershed Characterization Report
Version 1.5

Appendix 2-3
Surface Water - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Total Phosphorus (mg/L)				
			# of Samples	PWQO criteria	# Samples Exceeding	% Samples Meeting Criteria	CCME Score
MVC/MVSPA	Big Gull	Total	24	0.03	0	100%	Excellent
	Buckshot Creek	Total	45	0.03	3	93%	Good
	Carp River	Total	377	0.03	279	26%	Poor
	Clyde River	Total	176	0.03	12	93%	Good
	CP Dam	Total	53	0.03	0	100%	Excellent
	Fall River	Total	115	0.03	1	99%	Excellent
	Indian River	Total	16	0.03	0	100%	Excellent
	Lower Mississippi	Total	330	0.03	68	79%	Fair
	Mazinaw	Total	48	0.03	2	96%	Excellent
	Upper Mississippi	Total	62	0.03	8	87%	Good
Ottawa	MVC - Ottawa	Total	468	0.03	332	29%	Poor
	RVCA - Ottawa East	Total	601	0.03	524	13%	Poor
	RVCA - Ottawa West	Total	382	0.03	278	27%	Poor
	Ottawa River	Total	561	0.03	4	99%	Excellent
RVCA/RVSPA	Jock River	Total	422	0.03	265	37%	Poor
	Kemptville Creek	Total	488	0.03	130	73%	Fair
	Lower Rideau	Total	2188	0.03	1380	37%	Poor
	Middle Rideau	Total	380	0.03	141	63%	Marginal
	Rideau Lakes	Total	1564	0.03	109	93%	Good
	Tay River	Total	2140	0.03	155	93%	Good

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2 - PWQO criteria for lead varies depending on

Appendix 2-3
Surface Water - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	TSS (mg/L)				
			# of Samples	CWQG criteria	# Samples Exceeding	% Samples Meeting Criteria	CCME Score
MVC/MVSPA	Big Gull	Total					
	Buckshot Creek	Total					
	Carp River	Total	382	10	85	78%	Fair
	Clyde River	Total	68	10	1	99%	Excellent
	CP Dam	Total	36	10	0	100%	Excellent
	Fall River	Total	36	10	0	100%	Excellent
	Indian River	Total					
	Lower Mississippi	Total	329	10	33	90%	Good
	Mazinaw	Total	36	10	0	100%	Excellent
	Upper Mississippi	Total					
Ottawa	MVC - Ottawa	Total	475	10	195	59%	Marginal
	RVCA - Ottawa East	Total	608	10	341	44%	Poor
	RVCA - Ottawa West	Total	381	10	135	65%	Marginal
	Ottawa River	Total	571	10	1	100%	Excellent
RVCA/RVSPA	Jock River	Total	428	10	62	86%	Good
	Kemptville Creek	Total	476	10	29	94%	Good
	Lower Rideau	Total	2248	10	481	79%	Fair
	Middle Rideau	Total	307	10	38	88%	Good
	Rideau Lakes	Total	73	10	9	88%	Good
	Tay River	Total	662	10	9	99%	Excellent

Notes:
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Source: Watershed Characterization Report

Appendix 2-3
Surface Water - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Copper (mg/L)				
			# of Samples	PWQO criteria	# Samples Exceeding	% Samples Meeting Criteria	CCME Score
MVC/MVSPA	Big Gull	Total					
	Buckshot Creek	Total					
	Carp River	Total	377	0.005	48	87%	Good
	Clyde River	Total	68	0.005	0	100%	Excellent
	CP Dam	Total	36	0.005	0	100%	Excellent
	Fall River	Total	36	0.005	1	97%	Excellent
	Indian River	Total					
	Lower Mississippi	Total	330	0.005	13	96%	Excellent
	Mazinaw	Total	36	0.005	0	100%	Excellent
	Upper Mississippi	Total					
Ottawa	MVC - Ottawa	Total	473	0.005	91	81%	Good
	RVCA - Ottawa East	Total	675	0.005	294	56%	Marginal
	RVCA - Ottawa West	Total	525	0.005	118	78%	Fair
	Ottawa River	Total	561	0.005	42	93%	Good
RVCA/RVSPA	Jock River	Total	421	0.005	36	91%	Good
	Kemptville Creek	Total	424	0.005	21	95%	Excellent
	Lower Rideau	Total	2159	0.005	326	85%	Good
	Middle Rideau	Total	243	0.005	21	91%	Good
	Rideau Lakes	Total	75	0.005	4	95%	Good
	Tay River	Total	532	0.005	20	96%	Excellent

Notes:
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RVCA WW - Rideau Valley Conservation Autho

1 - PWQO criteria for pH must be between the r
2 - PWQO criteria for lead varies depending on

Appendix 2-3
Surface Water - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Lead (mg/L)				
			# of Samples	PWQO criteria[2]	# Samples Exceeding	% Samples Meeting Criteria	CCME Score
MVC/MVSPA	Big Gull	Total					
	Buckshot Creek	Total					
	Carp River	Total	377	0.005 - 0.025	0	100%	Excellent
	Clyde River	Total	68	0.005 - 0.025	0	100%	Excellent
	CP Dam	Total	36	0.005 - 0.025	0	100%	Excellent
	Fall River	Total	36	0.005 - 0.025	0	100%	Excellent
	Indian River	Total					
	Lower Mississippi	Total	330	0.005 - 0.025	0	100%	Excellent
	Mazinaw	Total	36	0.005 - 0.025	1	97%	Excellent
	Upper Mississippi	Total					
Ottawa	MVC - Ottawa	Total	468	0.005 - 0.025	0	100%	Excellent
	RVCA - Ottawa East	Total	602	0.005 - 0.025	1	100%	Excellent
	RVCA - Ottawa West	Total	382	0.005 - 0.025	0	100%	Excellent
	Ottawa River	Total	561	0.005 - 0.025	2	100%	Excellent
RVCA/RVSPA	Jock River	Total	421	0.005 - 0.025	0	100%	Excellent
	Kemptville Creek	Total	424	0.005 - 0.025	0	100%	Excellent
	Lower Rideau	Total	2159	0.005 - 0.025	0	100%	Excellent
	Middle Rideau	Total	243	0.005 - 0.025	2	99%	Excellent
	Rideau Lakes	Total	73	0.005 - 0.025	0	100%	Excellent
	Tay River	Total	532	0.005 - 0.025	0	100%	Excellent

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Source: Watershed Characterization Report
Version 1.5

Appendix 2-3
Surface Water - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	Zinc (mg/L)				
			# of Samples	PWQO criteria	# Samples Exceeding	% Samples Meeting Criteria	CCME Score
MVC/MVSPA	Big Gull	Total					
	Buckshot Creek	Total					
	Carp River	Total	377	0.03	2	99%	Excellent
	Clyde River	Total	68	0.03	0	100%	Excellent
	CP Dam	Total	36	0.03	0	100%	Excellent
	Fall River	Total	36	0.03	1	97%	Excellent
	Indian River	Total					
	Lower Mississippi	Total	330	0.03	3	99%	Excellent
	Mazinaw	Total	36	0.03	0	100%	Excellent
	Upper Mississippi	Total					
Ottawa	MVC - Ottawa	Total	468	0.03	11	98%	Excellent
	RVCA - Ottawa East	Total	602	0.03	36	94%	Good
	RVCA - Ottawa West	Total	382	0.03	17	96%	Excellent
	Ottawa River	Total	561	0.03	1	100%	Excellent
RVCA/RVSPA	Jock River	Total	421	0.03	2	100%	Excellent
	Kemptville Creek	Total	424	0.03	5	99%	Excellent
	Lower Rideau	Total	2158	0.03	63	97%	Excellent
	Middle Rideau	Total	243	0.03	3	99%	Excellent
	Rideau Lakes	Total	75	0.03	0	100%	Excellent
	Tay River	Total	532	0.03	2	100%	Excellent

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Appendix 2-3
Surface Water - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Watershed	Subwatershed	Station ID	E.coli (cfu / 100 mL)				
			# of Samples	PWQO criteria	# Samples Exceeding	% Samples Meeting Criteria	CCME Score
MVC/MVSPA	Big Gull	Total					
	Buckshot Creek	Total					
	Carp River	Total	320	100	157	51%	Marginal
	Clyde River	Total					
	CP Dam	Total					
	Fall River	Total					
	Indian River	Total					
	Lower Mississippi	Total	195	100	57	71%	Fair
	Mazinaw	Total					
	Upper Mississippi	Total					
Ottawa	MVC - Ottawa	Total	487	100	267	45%	Marginal
	RVCA - Ottawa East	Total	763	100	479	37%	Poor
	RVCA - Ottawa West	Total	611	100	396	35%	Poor
	Ottawa River	Total	528	100	138	74%	Fair
RVCA/RVSPA	Jock River	Total	404	100	139	66%	Fair
	Kemptville Creek	Total	442	100	115	74%	Fair
	Lower Rideau	Total	2130	100	771	64%	Marginal
	Middle Rideau	Total	307	100	129	58%	Marginal
	Rideau Lakes	Total	1300	100	37	97%	Excellent
	Tay River	Total	1822	100	157	91%	Good

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Appendix 2-4

Groundwater – Water Quality Summary Results

Mississippi-Rideau Source Protection Region

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
1	Munster Beckers		251		0.018		76		691.5				0.7		**283**				0.01
2	Munster School / Community Centre																		
3	1						**690**								**175**				
4	10						80		827.0				0.3		**260**				0.12
5	100						206								**576**				
6	1000-1				0.120		48											<	0.1
7	1000-2		249		0.160		79		744.0		0.3		0.6		**257**		0.01	<	0.1
8	1000-3				0.070		116											<	0.1
9	100-1 (TW1)		239	<	0.020		71		743.0		0.3		0.2		**396**		0.01		0.81
10	100-2				0.090		86											<	0.1
11	100-3				0.040		78											<	0.1
12	100-4				0.030		45											<	0.1
13	101						106								**386**				0.1
14	102				0.100		2		383.0				0.3		**173**				0.1
15	103						23												0.1
16	104						8								**267**				
17	105						3								**242**				0.1
18	106						196								**454**				1.0
19	107						86												0.4
20	108						185								**391**				0.1
21	109						96												0.2
22	11						**2410**								**904**				
23	1-1		357		1.550		40		766.0		4.2		1.4		98		**0.06**		0.05
24	110						1												0.1
25	1100-1			<	0.020		22											<	0.1
26	1100-2		219		0.220		194		1040.0		0.3		0.8		**266**		0.03	<	0.1
27	1100-3			<	0.020		24											<	0.1
28	1100-4				0.160		97											<	0.1
29	1100-5				0.030		112											<	0.1
30	1100-6		254		0.040		43		707.0		0.3		0.2		**315**		0.05	<	0.1
31	1100-7				0.100		74											<	0.1
32	1100-8				0.430		147											<	0.1
33	1100-8 dup				0.720		148											<	0.1
34	111						3												0.68
35	11-1		193		0.130		129		861.0		0.3		0.5		**236**		**0.11**		0.05
36	112						0												
37	11-2		314		0.160		92		934.0		1.8		0.2		**352**		0.05		0.05
38	113			<	0.100		1								**140**				0.1
39	11-3		281		0.070		106		916.0		1.3		0.1		**376**		0.01		0.62
40	114				0.080		1		307.0				0.1		**150**				
41	115						0												

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
42	116						40								**137**				
43	117						88								**429**				0.1
44	118						28								**230**				**18.1**
45	119						2								86				
46	12						8								83				
47	1-2		182		0.150		12		432.0		0.9		0.4		**179**		0.03		0.05
48	120						3								**142**				
49	1200-1				0.110		180											<	0.1
50	1200-10				0.070		168												0.16
51	1200-11			<	0.020		138											<	0.1
52	1200-12		314		0.150		80		940.0		2.2		0.5		**427**		0.01	<	0.1
53	1200-12 dup		313						940.0		2.0		0.5		**375**	<	0.01		
54	1200-14				0.060		91												0.62
55	1200-15				0.070		105											<	0.1
56	1200-16				0.090		62											<	0.1
57	1200-19		288		0.270		90		889.0		0.7		0.5		**395**	<	0.01	<	0.1
58	1200-2		237		0.070		132		962.0		0.5		0.5	<	**1**		0.01	<	0.1
59	1200-3		271		0.180		94		902.0		0.6		0.5		**344**		**0.06**	<	0.1
60	1200-4			<	0.020		**416**												3.96
61	1200-5				0.140		221											<	0.1
62	1200-6				0.220		93											<	0.1
63	1200-7		282		0.100		114		966.0		1.0		0.3		**405**		0.01	<	0.1
64	1200-8				0.040		189											<	0.1
65	1200-8 dup				0.040		185											<	0.1
66	1200-9				0.190		49											<	0.1
67	121						4								**115**				
68	122						2								**307**				2.20
69	123						2								**158**				
70	124						188								**870**				8.90
71	125						68								**254**				0.1
72	126						31								**150**				
73	127						16								**296**				1.34
74	128				0.040		26		720.0				0.1		**348**				
75	129				0.100		1		210.0				0.2						0.1
76	12a-1		243		0.160		48		628.0		1.6		0.3		**289**		0.02		0.05
77	12b-1		275		0.280		**546**		2090.0		1.4		0.5		**587**		0.02		0.05
78	13				2.210		278		3000.0				0.1		**213**				0.05
79	1-3		192		0.080		13		451.0		0.9		0.4		**183**		0.05		0.05
80	130						20								**389**				1.41
81	131						2												0.1
82	132				0.100		1		320.0				0.2		**140**				0.1
83	133						31								**294**				

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
84	134				0.050		22		590.0				0.1		**252**				0.05
85	135						3								**117**				0.82
86	136						0								**119**				0.1
87	137						2												0.1
88	138						82								**312**				
89	139						218								**400**				0.02
90	14				0.100		127		1660.0				0.1		**242**				0.05
91	1-4		198		0.120		28		529.0		1.1		0.5		**199**		**1.02**		0.05
92	140						14								**124**				0.02
93	141			<	0.100		155								**447**				0.1
94	142						2								**269**				
95	143						31								88				
96	144				0.100		11		460.0				0.5		**198**				0.1
97	145						192								**178**				
98	146						15												0.1
99	147						46								**292**				0.17
100	148						46								**345**				0.69
101	149						21								**198**				0.1
102	15						7								**275**				
103	1-5		200		0.040		139		872.0		0.9		0.1		**193**		0.01		2.84
104	150						0												
105	151						1								**281**				1.21
106	152						85								**256**				1.80
107	153						2								**265**				
108	154						49												0.38
109	155						6								**258**				0.14
110	156						8								**102**				0.5
111	157						49								**240**				0.1
112	158						1								**293**				0.18
113	159						13								**6.2**				0.19
114	16						186								**170**				0.05
115	1-6		355		0.070		139		1110.0		1.4		0.1		**534**		0.01		0.05
116	1-6 dup		354		0.080		137		1100.0		1.8		0.1		**534**		0.01		0.05
117	160						16								**236**				2.59
118	161						63								**267**				0.18
119	162						1								**334**				0.14
120	163						0								**251**				0.21
121	164						128								**404**				0.72
122	165						223								**581**				0.28
123	166						**275**								**498**				0.13
124	167						16								**237**				0.48
125	168						**708**								**382**				0.08

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
126	169						**363**								**507**				
127	17						**351**								**193**				
128	1-7		313		1.910		17		585.0		2.1		0.8		**125**		0.01		0.05
129	17 Channonhouse (K.P.2D)																		
130	170						9								**139**				0.21
131	171						0								79				
132	172						2								**240**				0.32
133	173						19								**290**				
134	174						19								**294**				8.01
135	175						8								**137**				5.40
136	176						35								**267**				
137	177						26								**338**				
138	178						18								**325**				
139	179						26								**316**				0.44
140	18						28								**413**				
141	180						17								**286**				
142	181						18								**217**				0.1
143	182						14								**204**				
144	183						1								**225**				0.1
145	184						25								**204**				0.1
146	185						13								**257**				
147	186						7								**297**				
148	187						6								**230**				
149	188						125								**418**				1.96
150	189						1								**225**				
151	19						**280**								**275**				
152	190						4								**203**				
153	191						4								**275**				0.22
154	192						44								**254**				0.1
155	193						4								**155**				0.1
156	194						7								**164**				0.1
157	195						72								**279**				2.04
158	196			<	0.100		1								**205**				0.1
159	197						8								**254**				0.1
160	198						0												
161	199						152								**439**				0.1
162	2						98								**75**				
163	20						6								**413**				
164	200						11								**215**				0.23
165	200-1				0.030		60											<	0.1
166	200-2		280		0.080		97		907.0		1.0		0.3		**405**		0.04	<	0.1
167	200-3				0.230		102											<	0.1

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
168	200-4				0.270		51											<	0.1
169	201						5								**201**				
170	202						6								**200**				
171	203						25								**218**				
172	204						7								**198**				0.07
173	205						44								**290**				7.55
174	206						35								**309**				0.34
175	207						23								**101**				
176	208						19								**210**				
177	209						58								**364**				
178	21						2								**231**				
179	2-1		246		0.080		10		575.0		0.8		0.4		**273**		0.01		0.05
180	210						10								**185**				
181	211						32								**264**				
182	212						26								**310**				
183	213						32								**246**				0.01
184	214						9								**312**				3.66
185	215						18								**229**				0.06
186	216						129								**263**	<	0.01		0.1
187	217						48								**323**				
188	218						137								**433**				2.48
189	219						**748**								**462**				
190	22						26								**215**				
191	2-2		253		0.230		11		520.0		1.2		0.7		**103**		**0.20**		0.05
192	220						13								**216**				0.78
193	221						10								**136**				
194	222						**2056**								**752**				
195	223						130								**236**				0.1
196	224						61								**338**				0.71
197	225						**625**								**566**				4
198	226						**253**								**575**				1.02
199	227						168								**421**				10
200	228						194								**452**				6.2
201	229						160								**444**				8
202	23						244								**265**				
203	2-3		200		0.100		43		554.0		0.7		0.9		**184**		**0.33**		0.05
204	230						62								**391**				5
205	231						30								**266**				0.54
206	232						17								**320**				1.14
207	233						0												
208	234				1.100		21						0.3		**298**				0.1
209	235						0												

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
210	236						0												
211	237						30								**266**				0.54
212	238						26								**169**				0.1
213	239				0.010		17		623.0				0.9		**304**				
214	24						**890**								**332**				
215	2-4		197		0.110		43		537.0		0.9		0.9		**170**		**0.06**		0.05
216	240				0.250		12		510.0				0.6		**148**				0.1
217	241				0.120		16						0.3		**283**				0.1
218	242						34								**312**				0.1
219	243						23								**280**				
220	244						79								**47.6**				0.1
221	245				0.120		14		525.0				0.5		**219**				0.1
222	246				0.160		0		670.0				0.1		**288**				0.1
223	247				0.080		1		520.0				0.1		**260**				0.1
224	248						12								**285**				
225	249						11								**337**				0.52
226	25						1								**241**				0.1
227	2-5		267		0.090		41		686.0		1.8		0.2		**317**		0.01		0.05
228	250						100								**396**				0.05
229	251						26								**333**				3.95
230	252						**301**								**64**				0.1
231	253						204								**732**				
232	254				0.020		11		629.0				0.2		**378**				1.03
233	255						55								**544**				1.29
234	256						75								**621**				0.1
235	257				0.030		6		647.0				0.1		**337**				2.30
236	258						66								**438**				0.18
237	259						47								**258**				0.1
238	26						94								**315**				0.1
239	2-6		289		0.020		146		1120.0		2.1		0.3		**5**		**0.07**		0.05
240	260				2.200		14		719.0				0.1		**360**				
241	261						1								**220**				0.4
242	262						13								**337**				2.3
243	263						27								**280**				
244	264						116								**387**				
245	265						49								**277**				0.1
246	266						40								**371**				1.6
247	267						0								**273**				
248	268						13								**238**				0.01
249	269				0.100		122						0.5		**474**				0.1
250	27						69								**455**				
251	270						86								**422**				0.2

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
252	271						**421**								**518**				**11.39**
253	272						26								**299**				0.25
254	273						50								**346**				0.3
255	274						0												0.34
256	275						0												0.25
257	276						0												0.2
258	277						0												0.2
259	278						87								**307**				
260	279						50								**341**				0.1
261	28						73								**1**				0.1
262	280						144								**244**				0.2
263	281				0.100		10		553.0				0.1						0.1
264	282						29								98				0.1
265	283						3								**272**				0.1
266	284						3								**246**				0.1
267	285						17								**263**				0.1
268	286						67								**292**				0.2
269	287						56								**262**				0.53
270	288						**281**								97				3.81
271	289						25								**381**				0.89
272	29						41								**234**				
273	290						6								**285**				1.0
274	291						34								**55**				0.1
275	292						53								**135**				
276	293						75								**330**				0.1
277	294						4								**178**				0.1
278	295						8								**237**				0.58
279	296						1								**178**				0.19
280	297						74												0.3
281	298						4								**747**				0.58
282	299						4												0.04
283	3						12								**31**				
284	30						16								95				
285	300						7								**157**				0.2
286	300-1				0.300		48											<	0.1
287	300-2				0.340		94											<	0.1
288	301						77								**311**				0.08
289	302						3								**273**				0.1
290	303						5								**242**				0.1
291	304						14								**326**				0.1
292	305						2								**205**				
293	306						17								**260**				0.2

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
294	307						30								**232**				0.1
295	308						10								**262**				0.55
296	309						1								**239**				0.1
297	31						6								**234**				
298	3-1		151		0.050		148		859.0		0.3		0.2		**334**		0.01		0.37
299	310						2												0.1
300	3-10		237		0.760		**582**		2390.0		2.5		0.4		**698**		**0.35**		0.05
301	311						11								**172**				1.14
302	3-11		238		0.050		9		477.0		0.9		0.2		**234**		0.01		0.05
303	312						3												0.15
304	313						16								**324**				0.1
305	314						**509**								**242**				
306	315						28								**176**				**14.0**
307	316			<	0.100		77								96				1.2
308	317						86								**252**				0.1
309	318						16								**330**				0.46
310	319						1								**334**				
311	32						2								**117**				0.1
312	3-2		192		0.780		2		358.0		1.7		0.8		**33**		**0.14**		0.05
313	3-2 dup		190		0.800		2		361.0		1.6		0.8		**33**		**0.17**		0.05
314	320						16								**330**				0.46
315	321						54								**277**				0.1
316	322						185								**500**				1.2
317	323						13								**228**				1.52
318	324						32								**141**				
319	325						48								**261**				0.17
320	326						16								**280**				0.2
321	327						20								**269**				
322	328						23								**269**				
323	329						9								**268**				
324	33						22								**258**				0.18
325	3-3		231		0.040		33		557.0		1.5		0.7		**215**		0.01		0.05
326	330				0.100		11						0.2		**326**				5.19
327	331				0.100		78		950.0				0.1		**366**				1.8
328	332						10												
329	333						11												0.02
330	334						11												
331	335						9								**314**				
332	336						178								**858**				0.02
333	337						135								**374**				
334	338						178								**239**				0.1
335	339						16								**440**				1.0

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Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
336	34						68								**135**				
337	3-4		238		0.210		48		625.0		1.3		0.9		**198**		**0.82**		0.05
338	340						169								**37**				0.1
339	341						**1685**								**118**				
340	342						1								**256**				0.34
341	343						20								97				
342	344						48								95				0.1
343	345						7								**240**				0.14
344	346				0.180		2		370.0						**225**				0.01
345	347						1								**134**				0.1
346	348						2								**210**				0.01
347	349						41								**23**				0.31
348	35						11								**155**				0.1
349	3-5		319		0.210		176		1160.0		3.1		0.3		**472**		0.03		0.05
350	350						3								**160**				0.1
351	351						7								**235**				0.1
352	352				0.190		6		510.0				0.3		**249**				0.1
353	353						0												
354	354						34								**15.7**				0.1
355	355						35								**194**				0.24
356	356						**363**	+	1999.0						**617**				9.08
357	357				0.000		21		586.0				0.1		**294**				0.82
358	358						19								**263**				0.1
359	359						1								**210**				0.44
360	36						**337**								**24**				0.36
361	3-6		253		0.070		222		1270.0		0.7		0.2		**451**		0.01		1.32
362	360						11								**193**				
363	361						122								**296**				2.04
364	362						10								**170**				
365	363				0.100		3						0.1		**276**				0.1
366	364				0.100		1		436.0				0.1		**231**				0.42
367	365				0.000		9		529.0				0.0		**258**				1.7
368	366				0.100		3		450.0				0.1		**234**				0.87
369	367						6								**276**				0.1
370	368						70								**348**				0.38
371	369				0.100		10		588.0				0.1		**308**				0.1
372	37						21								**172**				0.1
373	3-7		317		0.170		**252**		1540.0		3.6		0.2		**532**		0.04		0.05
374	370				0.080		44						0.1		**396**				1.96
375	371				0.030		14		680.0				0.1		**305**				0.35
376	372						6								**252**				0.78
377	373						6								**311**				0.1

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Groundwater - Water Quality Summary Results
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Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
378	374						**272**								**352**				6.8
379	375						36								**175**				0.1
380	376						**272**								**352**				6.8
381	377				0.100		2						0.1		**247**				0.1
382	378				0.100		2						0.6		**259**				0.1
383	379				0.100		12		628.0				0.1						0.3
384	38						5								**27**				
385	3-8		353		0.100		54		1020.0		3.1		0.1		**368**		0.01		5.93
386	380				0.100		4		460.0				0.3						
387	381						135								**570**				6.11
388	382						23								**340**				0.69
389	383				0.100		11		595.0				0.1		**312**				0.81
390	384						2								**155**				0.1
391	385						28								**291**				1.23
392	386						10								**262**				0.1
393	387						177								**220**				0.1
394	388						92								**294**				0.1
395	389						164								**546**				0.1
396	39				0.170		6		400.0				**1.7**						0.1
397	3-9		208		0.800		27		452.0		2.2		0.6		**65**		0.05		0.05
398	390						28								**291**				1.23
399	391						9								**298**				0.75
400	392						69								**332**				0.15
401	393						122								**144**				0.1
402	394						5						0.2						0.14
403	395						2								82				
404	396						2		377.0				1.0		**193**				
405	397				0.140		14		720.0				0.1		**309**				0.52
406	398			<	0.050		68								**337**				4.10
407	399				0.540		1		490.0				0.5						0.1
408	4						**420**								**180**				
409	40						12												0.1
410	400						182								**422**				
411	400-1				0.240		135											<	0.1
412	400-2		271		0.100		147		1060.0		0.3		0.3		**445**		0.01		1.35
413	400-3				0.060		152												0.31
414	400-4			<	0.020		163												0.45
415	401						2												0.1
416	402						14												0.31
417	403				0.100		16						0.1		**351**				0.39
418	404						31								**419**				1.52
419	405						**347**								**385**				2.12

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Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
420	406						36								**410**				0.1
421	407						5								**326**				0.18
422	408						1												0.1
423	409						0												
424	41						19								**375**				
425	4-1		174		0.120		53		583.0		0.7		0.3		**237**		0.05		0.05
426	410						4								**266**				0.37
427	411						34								**262**				0.1
428	412						60								**346**				
429	413						161								**344**	<	0.01		0.1
430	414				0.080		5		500.0				0.8		**172**				0.1
431	415				0.090		7		650.0				0.2		**322**				1.69
432	416				0.030		30		759.0				1.1		**220**				0.4
433	417						43			<	0.5				**360**				0.21
434	418						104								**317**				3.23
435	419						30								**270**				1.2
436	42						7								**207**				
437	4-2		188		0.020		54		626.0		0.8		0.3		**0.5**		0.01		0.05
438	4-2 dup		188		0.060		53		620.0		0.9		0.3		**0.5**		0.01		0.05
439	420				0.190		83		1148.0				1.5		**112**				0.1
440	421						66												1.1
441	422						6												0.16
442	423						58												0.97
443	424						32												0.44
444	425						0												
445	426						139								**325**				
446	427						2						0.4						0.2
447	428				0.000		1		527.0				0.1		**283**				
448	429				0.310		15		853.0				0.7		**165**				
449	43						193												0.1
450	430				0.100		13		433.0				0.4		**248**				
451	431						7								**270**				
452	432				0.050		3		620.0				0.1		**307**				0.05
453	433				0.100		20		567.0				0.1		**281**				9.61
454	434				0.100		2		465.0				0.2						0.14
455	435						**427**								**598**				0.1
456	436				0.070		1		670.0				0.2		**407**				0.05
457	437						7								**681**				
458	438						109								**298**				2.55
459	439				0.050		14		595.0				0.0		**293**				0.05
460	44						9												
461	440				0.100		1		399.0				0.7		**278**				0.1

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Groundwater - Water Quality Summary Results
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Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
462	441				0.100		4		500.0				0.1		**273**				0.36
463	442				0.100		2		500.0						**280**				0.89
464	443				0.100		1		485.0				0.1		**229**				1.26
465	444				0.100		4		637.0				0.7		**267**				0.14
466	445				0.100		2		377.0				0.8		81				
467	446						1		506.0						**268**				0.1
468	447						7								**355**				
469	448						8		7.5				0.1		**381**				0.01
470	449				0.100		1		484.0				0.1		**203**				0.1
471	45						15								**188**				
472	4-5		262		0.070		104		863.0		1.8		0.2		**355**		0.01		0.05
473	450				0.100		1		397.0				0.1		**152**				0.21
474	451						157								**560**				**11.9**
475	452						**288**								**621**				4.8
476	453						40								**1379**	<	0.01		0.1
477	454						**773**	+	1999.0						**590**				5.84
478	455						16								**391**				**12.0**
479	456						8								**56**				0.1
480	457				0.210		7		478.0						**191**				
481	458				0.100		2		160.0				0.0		**59**				
482	459				0.170		0		388.0				0.8		**173**				
483	46						73								**37**				
484	4-6		209		0.080		10		444.0		3.7		0.2		**209**		0.02		0.05
485	460				0.190		0		398.0				0.9		**195**				
486	461				0.240		0		386.0				0.9		**185**				
487	462						182												0.24
488	463						**2040**	+	1999.0			<	0.1		**1118**				1.05
489	464				0.050		2		441.0				0.2		**221**				
490	465						2						0.1						0.2
491	466				0.080		5		629.0				**1.9**		**188**				
492	467				0.080		0		433.0						**151**				0.1
493	468				0.060		11		569.0						82				0.1
494	469						1								**145**				0.1
495	47						177								**588**				
496	4-7		275		0.290		170		1140.0		1.0		0.4		**298**		0.03		0.05
497	470				0.060		1		231.0				0.5		**112**				
498	471						42	+	1999.0						**1553**				0.1
499	472						13								**256**				6.02
500	473						3								**22**				0.1
501	474				0.050		1		230.0				0.0		83				0.1
502	475				0.140		1		539.0				0.3		**144**				
503	476				0.120		42		482.0				0.2		**184**				0.1

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
504	477				0.100		4		306.0				0.1		**126**				2.23
505	478						1								**117**				0.12
506	479				0.100		1		265.0				0.1		**121**				0.1
507	48						82								**228**				
508	4-8		191		0.040		162		866.0		1.2		0.1		**223**		0.01		1.46
509	480				0.100		96		925.0				0.6		**373**				
510	481				0.100		11		548.0				1.5		**54**				0.1
511	482						3		278.0						**21**				0.1
512	483						2		176.0						**49**				0.1
513	484				0.100		8		381.0				0.1		**156**				0.6
514	485						134								**133**				2.74
515	486				0.100		4												0.1
516	487						64			<	0.5				95.5				4.04
517	488				0.050		2		207.0										
518	489						150								**283**				0.61
519	49						67								**242**				
520	4-9		293		0.210		57		768.0		1.3		0.4		**299**		**0.15**		0.05
521	490						16		130.0										
522	491						3								**72.3**				0.48
523	492						1								**156**				0.1
524	493				0.100		1		82.0						**27.1**				0.31
525	494						9								**56**				
526	495						8		292.0						**128**				
527	496						95								**681**				0.1
528	497						66								**281**				0.1
529	498				0.070		3								**34**				0.1
530	499						5								**54**				0.4
531	5				0.000		9		509.0				0.9		**134**				
532	50						**358**								**111**				
533	500						5								**154**				0.1
534	500-1				0.060		18											<	0.1
535	500-2		281	<	0.020		108		968.0		0.5		0.2		**438**		0.01	<	0.1
536	500-3			<	0.020		42												0.33
537	500-4				0.260		184												0.53
538	500-4 dup				0.340		51												0.53
539	501						36								87.5				
540	502						35			<	0.5				87.5	<	0.01		
541	503				0.020		5		180.0						**12**				0.1
542	504				0.100		2		201.0				0.6		84				0.1
543	505						0								**78**	<	0.01		0.1
544	506				0.100		3		98.0				0.1		**30**				0.35
545	507				0.100		3		164.0				0.7		**42**				

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
546	508						2		140.0										
547	509						**771**	+	1999.0			<	0.1		**517**				2.27
548	51						10								**191**				
549	5-1		252		0.200		**615**		2440.0		0.3		0.2		**529**		0.01		1.37
550	52						32								**16**				0.1
551	5-2		284		0.080		235		1330.0		1.8		0.2		**376**		0.05		0.72
552	53						145								**320**				
553	5-3		260		0.190		201		1180.0		1.5		0.5		**421**		**2.20**		0.05
554	54						10								**176**				
555	5-4		318		0.070		**453**		2000.0		1.5		0.1		**554**		0.05		3.01
556	55				0.190		14						**262.0**		**397**				0.11
557	5-5		258		0.130		68		752.0		1.5		0.3		**348**		0.03		0.05
558	56						0												
559	5-6		232		0.190		74		725.0		1.2		0.4		**317**		**0.09**		0.05
560	57				0.100		9		584.0				0.3		**261**				0.1
561	5-7		285		0.060		**269**		1570.0		1.6		0.2		**0.5**		0.02		0.05
562	5-7 dup		284		0.050		**269**		1580.0		1.8		0.2		**0.5**		0.02		0.05
563	58						**311**								**467**				0.05
564	5-8		280		0.090		**285**		1440.0		2.0		0.2		**540**		0.05		0.05
565	59						**315**								**563**				0.14
566	6						52								**333**				
567	60						0								**776**				2.98
568	600-1				0.030		17											<	0.1
569	600-2		305		0.050		**354**		1730.0		0.3		0.1		**680**		0.01	<	0.1
570	600-3			<	0.020		165												7.88
571	600-4			<	0.020		154												0.61
572	61				0.100		1		400.0				0.0						0.1
573	6-1		334		0.570		**479**		2170.0		2.4		0.4		**544**		**0.11**		0.05
574	62				0.160		38		930.0				0.1		**357**				0.05
575	6-2		430		0.570		**387**		2100.0		**10.6**		0.6		**563**		**1.22**		0.05
576	63				0.660		2		630.0				0.1		**305**				0.05
577	64						79								**284**				
578	6-4		328		0.510		**372**		1850.0		1.8		0.5		**586**		**0.14**		0.05
579	65						21												0.1
580	66						2								**269**				
581	67						27								**310**				0.01
582	6-7		182		0.500		**409**		1820.0		0.3		1.2		**372**		0.05		0.05
583	68						4		340.0				0.6		**133**				0.1
584	69						33								**283**				0.1
585	7				0.310		53		950.0				0.2		**293**				0.47
586	70						20								**258**				
587	700-1				0.100		54											<	0.1

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
588	700-2		244		0.080		43		643.0		0.9		0.4		**297**		0.03	<	0.1
589	700-3				0.040		162											<	0.1
590	700-4								18.0						**0.2**			<	0.02
591	71						47								**276**				0.1
592	7-1		315		0.050		**530**		2350.0		3.2		0.1		**551**		0.01		1.34
593	72						5								**303**				
594	73						33								**373**				1.37
595	74						2								**131**				
596	7-4		240		0.080		109		845.0		0.7		0.2		**407**		0.01		0.05
597	7-4 dup		240		0.090		112		866.0		0.7		0.2		**407**		0.01		0.05
598	75						10								**349**				
599	7-5		219		0.040		80		729.0		0.3		0.1		**324**		0.01		0.16
600	7-5 dup		220		0.030		82		708.0		0.3		0.1		**324**		0.01		0.21
601	76						1								**180**				0.14
602	77						14								**232**				
603	78						68								**492**				
604	79						30								**280**				0.22
605	8						4								**121**				
606	80						80								**318**				0.68
607	800-1				0.070		113												0.53
608	800-2		239		0.220		149		998.0		0.6		0.5		**418**		0.01	<	0.1
609	800-3				0.210		200												2.58
610	800-4				0.040		46												0.65
611	81						42								**273**				1.25
612	82						78								**312**				
613	83				0.100		11		593.0						**328**				2.6
614	84						8								**240**				0.11
615	85						4								**242**				
616	86						17								**260**				
617	87						8								**229**				1.0
618	88						8								**113**				0.1
619	89						53								**225**				0.1
620	9						4								**266**				
621	90						0								**147**				
622	900-1			<	0.020		47											<	0.1
623	900-2				0.040		86											<	0.1
624	900-3				0.170		79											<	0.1
625	900-4		209		0.100		38		590.0		0.7		0.5		**198**		0.02	<	0.1
626	91			<	0.030		10								**209**				0.05
627	92						5								**229**				0.1
628	93						24								**182**				
629	94						25								**126**				

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
630	95						1								**125**				
631	96						28								**424**				0.66
632	97				0.100		12		560.0				1.1						0.1
633	98						103								**382**				0.24
634	99						163								**471**				0.68
635	9a-5		161		0.090		5		364.0		1.3		0.3		**166**		0.02		0.50
636	A-1		118		0.040		69		566.0		2.1		0.1		**146**	<	0.01		1.13
637	A-10				0.060		23												5.32
638	A-11				0.050		94												2.45
639	A-12				0.150		32												1.55
640	A-13				0.100		33												7.47
641	A-13 dup				0.100		33												7.47
642	A-15		156		0.080		183		1080.0		2.5		0.1		**312**	<	0.01		1.64
643	A-2		120		0.120		63		527.0		1.8		0.1		**154**	<	0.01		2.5
644	A-3				0.030		3												2.07
645	A-4				0.030		7												2.02
646	A-5				2.870		56												**46.6**
647	A-6		115		0.050		49		424.0		0.5		0.1		**194**		0.02	<	0.1
648	A-7			<	0.020		8												1.53
649	A-8				0.140		114												1.01
650	A-9				0.120		50												0.5
651	B-1				0.020		106												3.76
652	B-10				0.040		92												6.93
653	B-11				0.040		26												1.82
654	B-12				0.040		43											<	0.1
655	B-13		72	<	0.020		166		730.0	<	0.5	<	0.1		**296**	<	0.01		8.35
656	B-13 dup				0.030		163												8.59
657	B-2		76		0.020	<	1		159.0		0.6	<	0.1		**76**	<	0.01		0.85
658	B-3			<	0.020		154												**23.2**
659	B-4		81		0.020		1		174.0		0.6	<	0.1		84	<	0.01		0.47
660	B-5			<	0.020		78												**11.2**
661	B-6				0.040		64												4.14
662	B-7			<	0.020		27											<	0.1
663	B-8			<	0.020		41												1.52
664	B-9				0.030		5											<	0.1
665	C-1			<	0.020		1											<	0.1
666	C-3		192	<	0.020		194		1040.0		1.1		0.1		**311**	<	0.01		0.53
667	Carleton Lodge 3rd Floor (dist # 2)				0.012		43												0.01
668	Carleton Lodge Kitchen (dist #1)		239		0.022		45		674.7				0.2		**57.7**				
669	Carleton Lodge #4 Well		237		0.028		44		583.9		0.0		0.1		**334**				
670	Carleton Lodge #5 Well		250		0.087		44		658.7		1.4		0.2		**330**				
671	Carp #1 Well		230		0.197		49		630.1		1.9		0.7		**178**				

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
672	Carp #2 Well		216		0.122		53		638.4		1.4		0.5		**213**				
673	Carp Arena				0.017														
674	Carp School / Video (dist #1)				0.026		59						0.5						0.01
675	Carp School/Medical Centre				0.020		64												
676	D-1		**24**		0.050		12		233.0		1.1	<	0.1		87	<	0.01		3.08
677	D-10			<	0.020		6												0.44
678	D-11			<	0.020		8												1.34
679	D-12		31	<	0.020		46		331.0	<	0.5		0.1		96	<	0.01		7.75
680	D-13			<	0.020		47												1.19
681	D-14		85	<	0.020		12		227.0		0.8		0.1		96	<	0.01	<	0.1
682	D-14 dup			<	0.020		11											<	0.1
683	D-2				0.050		12												3.78
684	D-3				0.020		18												2.21
685	D-4			<	0.020		127												2.40
686	D-5			<	0.020		19												3.41
687	D-6				0.060		79												1.43
688	D-7		82	<	0.020		42		440.0		1.5	<	0.1		**124**	<	0.01		**13.3**
689	D-8			<	0.020		32												2.24
690	D-9			<	0.020		8												0.22
691	Dist 17 Channonhouse (K.P.1D.)																		
692	E-1			<	0.020		41												1.23
693	E-10				0.030		**321**												3.97
694	E-11				0.020		149												0.20
695	E-12			<	0.020		98												**16.7**
696	E-13		**805**		1.510		**1340**		5120.0		**7.9**		**3.4**		**147**		0.02	<	0.1
697	E-13 dup		**809**		1.490		**1320**		5120.0		**5.5**		**3.4**		**155**		0.02	<	0.1
698	E-15				0.040		**350**												**14.4**
699	E-2				0.370		**297**												0.1
700	E-3				0.480		**467**											<	0.1
701	E-4				1.210		**402**											<	0.1
702	E-5		106	<	0.020		4		256.0		0.5		0.1		**125**	<	0.01	<	0.1
703	E-6			<	0.020		**353**												6.84
704	E-7		203	<	0.020		**273**		1220.0		1.3		0.2		**332**	<	0.01		0.16
705	E-8				0.030		**257**												**15.1**
706	E-9			<	0.020		190												0.2
707	F-1			<	0.020		11												**15.7**
708	F-10				0.030		156												**22.6**
709	F-12		214		0.360		121		862.0		4.5		0.2		**226**	<	0.01	<	0.1
710	F-13		161	<	0.020		**445**		1850.0		0.7		0.1		**310**	<	0.01		4.63
711	F-13 dup		163	<	0.020		**442**		1780.0		0.5		0.1		**293**	<	0.01		4.60
712	F-2			<	0.020		69												9.29
713	F-3			<	0.020		83												1.28

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
714	F-4			<	0.020		99												9.43
715	F-5				0.050		**277**												**21.5**
716	F-6				0.060		142												**10.4**
717	F-7			<	0.020		55												0.79
718	F-8				0.050		101												**12.5**
719	F-9		170	<	0.020		105		798.0		1.3		0.1		**227**	<	0.01		**11.3**
720	GAC #1																		
721	GAC #2																		
722	K.P#2		271		0.073		138		1027.0				0.4		**350**				5.52
723	K.P. Dist#1		264		0.023		140		989.0				0.5		**319**				
724	K.P. Dist#2		274		0.017		142		910.8				0.5		**354**				0.01
725	K.P.#1		248		0.056		139		949.3				0.5		**289**				
726	King's Park #1 Dist		260		0.023		139		916.5				0.4		**308**				
727	King's Park #1 Well		256		0.073		135		898.2		1.1		0.4		**296**				
728	King's Park #2 Dist		274		0.020		147		961.4				0.4		**357**				0.01
729	King's Park #2 Well		273		0.063		142		951.3		1.1		0.4		**354**				0.01
730	KP #1 Dist - 17 Channonhouse & Mc Storey																		
731	KP #2 Dist - 17 Channonhouse and Mc Storey																		
732	Munster #1 Well		238		0.106		70		787.2		1.2		0.7		**248**				0.02
733	Munster #2 Well		257		0.102		62		772.3		0.0		0.6		**293**				
734	Munster Beckers/Mac's (dist #1)		256		0.016		71		817.2				0.7		**253**				0.02
735	Munster School				0.020		74												0.01
736	Munster School/23 Dogwood (dist #2, Dogwood in summer)				0.017		68						0.7						0.01
737	Munster School/Community Centre-in summer				0.010														
738	Raw Water Sample Line																		
739	Rideau Valley		224				101		837.6		2.2		0.4		**252**				
740	Vars #1 Well		194		0.127		30		451.6		2.8		0.2		**166**				
741	Vars #2 Well		155		0.188		22		382.4		**212.9**		0.3		**193**				8.64
742	Vars Grocery		197		0.506		28		467.9		0.0		0.1		**175**				
743	Vars Grocery (Dist #1)		201		0.028		32		489.3				0.1		**193**				0.01
744	Vars School / Restaurant																		
745	Vars School / Restaurant (Dist #2)				0.029		33												0.01
746	Vars School/Restaurant				0.018		32												
747	W.C.Lodge (dist #2)		227		0.048		56		652.0				0.5		**192**				0.01
748	West Carleton Lodge		217		0.017		62		658.5				0.5		**213**				
749	MVC 1		271	<	0.02		12		565						**304**	<	0.01		0.25
750	MVC 2		226	<	0.02		35		573						**256**	<	0.01		2.24
751	MVC 3		189	<	0.02		18		541					<	**1**	<	0.01		0.74
752	MVC 4		236	<	0.02		8		466						**242**	<	0.01		0.64
753	MVC 5		235	<	0.02	<	1		480						**265**	<	0.01		0.18
754	MVC 6		158	<	0.02		1		329						**158**	<	0.01		0.23
755	MVC 7		236	<	0.02		7		484						**240**	<	0.01		0.58

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Alkalinity (mg/L)		Ammonia (mg/L)		Chloride (mg/L)		Conductivity (uS/cm)		Dissolved Organic Carbon (mg/L)		Fluoride (mg/L)		Hardness (mg/L as $CaCO_3$)		Hydrogen Sulphide (mg/L)		Nitrate (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
756	MVC 8		61	<	0.02		5		187						81	<	0.01		2.51
757	MVC 9		313	<	0.02		19		681						**344**	<	0.01		1.56
758	MVC 10		203	<	0.02		7		452						**214**	<	0.01		1.73
759	MVC 11		62	<	0.02		1		146						**66**	<	0.01		0.1
760	MVC 12		200		0.03		5		404						**188**	<	0.01		0.16
761	MVC 13		365	<	0.02		5		692						**385**	<	0.01		0.2
762	MVC 15		398	<	0.02		248		1580						**519**	<	0.01		7.77
763	MVC 16		344	<	0.02		116		1030						**432**	<	0.01		1.83
764	MVC 17 (MVC 3 Dup)		225		0.04		27		619						**39**	<	0.01	<	0.1

Notes: **1400 Criterion exceeded for this parameter, see Table 2.1-2 for criteria**

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
1	Munster Beckers				72.8		452		0.07		0.72				0.245				
2	Munster School / Community Centre										0.49								
3	1				6.1								17.7		0.290		31.8		24.5
4	10		8.21												**0.580**				
5	100				180								125		0.200		64		16
6	1000-1								0.12										
7	1000-2				39		484		0.18				47		0.140		34		7
8	1000-3								0.06										
9	100-1 (TW1)				74		483	<	0.05				86		0.120		44		2
10	100-2								0.2										
11	100-3								0.11										
12	100-4							<	0.05										
13	101				43														
14	102		7.98												0.170				
15	103				28														
16	104												40				41		4
17	105				37								45				32		1.5
18	106				107								109				44		5
19	107				24														
20	108				71														
21	109				16														
22	11				303								118		**0.800**		148		46.9
23	1-1				2		498		1.94				8		0.070		19		16
24	110												42				18		2
25	1100-1								0.1										
26	1100-2				51		**676**		0.31				47		**0.450**		36		11
27	1100-3							<	0.05										
28	1100-4								0.2										
29	1100-5							<	0.05										
30	1100-6				58		460		0.1				65		**1.350**		37		2
31	1100-7																		
32	1100-8								0.49										
33	1100-8 dup								0.46										
34	111				24														1
35	11-1				48		**560**		0.29				65		0.300		18		4
36	112																		
37	11-2				49		**607**		0.34				108		0.020		20		4
38	113				25														
39	11-3				48		**595**		0.11				129		0.005		13		3
40	114		**2.19**												0.130				
41	115																		

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
42	116												23.1				19.2		6.7
43	117				83														
44	118																		
45	119				5								13				13		3
46	12				19.3								19.7		0.050		8.1		6.6
47	1-2				29		281		0.29				47		**1.240**		15		3
48	120				2.11								18.7				13.5		3.45
49	1200-1								0.17										
50	1200-10								0.11										
51	1200-11							<	0.05										
52	1200-12				88		**611**		0.22				82		**0.590**		54		6
53	1200-12 dup				86		**611**						84		**0.610**		56		6
54	1200-14								0.12										
55	1200-15								0.07										
56	1200-16								0.13										
57	1200-19				72		**578**		0.32				74		**2.840**		51		6
58	1200-2				64		**625**		0.1			<	1		0.010	<	1	<	1
59	1200-3				69		**586**		0.26				65		**0.860**		44		5
60	1200-4								0.08										
61	1200-5								0.3										
62	1200-6								0.3										
63	1200-7				87		**628**		0.12				78		0.380		51		5
64	1200-8								0.1										
65	1200-8 dup								0.1										
66	1200-9								0.27										
67	121				3.1								21.2				14		5.37
68	122				55								65				35		1
69	123				23								32				19		2
70	124				170								152				119		170
71	125				36								62				24		3
72	126				31								32		**1.100**		17		4.2
73	127				123														
74	128		7.43												0.210				
75	129		8.29												0.050				
76	12a-1				34		408		0.33				76		0.170		24		3
77	12b-1				52		**1360**		0.4				67		0.090		102		8
78	13		**8.67**												0.239				
79	1-3				32		293		0.47				52		**0.640**		13		2
80	130				77														
81	131				25														
82	132		8.04												0.150				
83	133												51.2				40.5		6.1

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
84	134		7.71												0.070				
85	135				40														
86	136				21														
87	137				10														
88	138				34								67				35		
89	139				45								90				43		
90	14		8.05												0.224				
91	1-4				37		344		0.36				55		0.010		15		3
92	140				26														
93	141				62								113				40		4
94	142				38								60				29		2
95	143				0.7								10.6				13.4		5.6
96	144		7.87												0.140				
97	145				39.8								28.1				11.4		12.3
98	146				26														5
99	147				44														5
100	148				55.5								76				37.7		3.35
101	149				23								43				22		
102	15				39.7								77.1		0.040		20		3.5
103	1-5				24		500		0.39				56		0.005		13		3
104	150																		
105	151																		
106	152				25								70				19		5.3
107	153				40														
108	154												71				2		
109	155				16								62				25		
110	156				10														
111	157				51								45				31		7
112	158				12.5								56				27		
113	159												0.9				1		0.3
114	16				145								33.1				22.6		12.2
115	1-6				39		**722**		0.12				184		0.005		18		2
116	1-6 dup				38		**715**		0.09				184		0.005		18		2
117	160												51.6				26		1.2
118	161				45								59				29		4
119	162				17														
120	163				8								56				27		
121	164				40								88				45		
122	165				54								134				60		
123	166				50								115				51		
124	167				34								54				25		
125	168				65.3								85.2				32.5		

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
126	169				56								121.8				49.2		
127	17				66								26				31		15
128	1-7				2		380		1.97				9		0.080		25		18
129	17 Channonhouse (K.P.2D)										0.30				**0.320**				
130	170				10								21				21		6
131	171				4								10				13		4
132	172				16														
133	173												63.7				30		1.5
134	174												69.7				29		1.1
135	175												33.4				13		0.4
136	176				26.5								86.2				30		2.4
137	177				29								72				38		
138	178				29.2								75.8				34		1
139	179				55								72				33		2
140	18				19.2								106		**8.200**		37.2		5.4
141	180				33								60				33		3
142	181				41								54				20		
143	182				26								37				27		7
144	183				34								49				25		6
145	184				38								42				24		1
146	185				28								52				31		
147	186				43								63				34		
148	187				26								46				28		
149	188				58								90				47		
150	189				34								49				25		6
151	19				49								56.7		**0.610**		32.4		13.3
152	190				35								45				22		5
153	191				35								68				26		4
154	192				18														
155	193				27														
156	194				36														
157	195				17														
158	196				27														
159	197				50												30		2
160	198																		
161	199				54								95				49		2
162	2				14.2								14.8		**4.600**		9.3		12.2
163	20				27.2								94.6		**2.900**		42.9		4.4
164	200				37								43				26		1
165	200-1								0.14										
166	200-2				75		**590**		0.17				70		**1.020**		56		6
167	200-3								0.24										

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
168	200-4								0.28										
169	201												55				16		
170	202												66				7		
171	203												63.5				14		
172	204												69				6.9		
173	205												72.5				13		
174	206												101.4				13.5		
175	207												70				8.3		
176	208												65				12.5		
177	209												120				15.6		
178	21				27.5								61.5				18.9		15.2
179	2-1				53		374		0.36				63		0.170		28		4
180	210												59				9.4		
181	211												84.5				13		
182	212												64.5				36.1		2.7
183	213				12.3								85.3				8.0		
184	214				41								95				17.9		
185	215				22.5								101.4				20.5		
186	216				50								51				33		7
187	217				51														
188	218				57								114				36		2
189	219												9.6				15.3		
190	22				33.6								65.9		**1.000**		12.2		7.6
191	2-2				14		338		0.66				18		0.050		14		5
192	220				18.8														
193	221				38.7								1.8				0.4		
194	222												16.9				50.4		
195	223				47														
196	224				47								86				30		1
197	225												141				52		2.3
198	226												133				59		2.2
199	227												99				42		1.6
200	228												110				43		11.2
201	229												104				45		5
202	23												50				34		
203	2-3				20		360		0.41				44		0.060		18		4
204	230												95				38		12.7
205	231				28								61.2				27.4		3.35
206	232				14								59				42		
207	233																		
208	234		7.84												0.300				
209	235																		

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
210	236																		
211	237				28								61.2				27.4		3.35
212	238				19.9								29.7				23.1		
213	239		7.92												0.090				
214	24				38								58.3		0.090		45.3		24
215	2-4				19		349		0.28				40		0.350		17		3
216	240		8.40												**0.720**				
217	241		8.11												0.210				
218	242				32.6														
219	243				30								71				25		3
220	244				118								1				11		4
221	245		**8.69**												0.250				
222	246		7.74												0.230				
223	247		7.01												**1.120**				
224	248				23								76				23		1
225	249				67								54				49		1
226	25				19								85				7		2
227	2-5				42		446		0.37				99		**0.610**		17		1
228	250				52								94.4				38.8		16.1
229	251				44								82				31		3
230	252				177								14				7		6
231	253				117								232				37.4		57
232	254		7.45												0.020				
233	255				408														
234	256				**508**								153				58		6
235	257		7.10												0.060				
236	258				63														
237	259				52														6
238	26				93								80				28		6
239	2-6				58		**728**		0.42				2		0.040		0.5		0.5
240	260		7.06		0										0.040				
241	261				16												16		
242	262				0.01								75.6				36		
243	263				48.2								66.7				27.6		13.6
244	264				51								99				34		4
245	265				40														
246	266				48.9								96.3				31.8		3.1
247	267				45														
248	268																		
249	269		7.65												**1.360**				
250	27				120								93				54		4
251	270												94.2				45.4		5.45

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
252	271												141				40.4		8.45
253	272												73.6				28.1		2.3
254	273												85.8				32		2.35
255	274																		
256	275																		
257	276																		
258	277																		
259	278				33								75				29		2
260	279				165														
261	28				100								1				1		2
262	280				22												9		
263	281		7.25												0.060				
264	282				28														
265	283				36								74				22		2
266	284				28														
267	285				63														
268	286																		
269	287				31								67				23		1
270	288				277														
271	289				289								88				39		3
272	29				35.4								67.9		**0.810**		15.7		5.9
273	290				52														
274	291				40														
275	292				202														3
276	293				22														
277	294				11								61				7		
278	295				28														
279	296				41														
280	297				33														
281	298																		
282	299				15								45				2.4		3.7
283	3				1.7								9.5		**0.990**		1.8		12.5
284	30				25.6								18.9		0.150		11.6		11
285	300				33														
286	300-1								0.47										
287	300-2								0.37										
288	301												77.9				28.2		3.2
289	302				11														
290	303				20								72				15		2
291	304				51.6														
292	305				22								54				17		2
293	306				35														

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
294	307																		
295	308				35								67				23		3
296	309				45														
297	31				29.6								59.9				24.7		
298	3-1				52		**558**		0.25				96		0.005		23		2
299	310				2														
300	3-10				149		**1550**		1				126		0.050		93		9
301	311				27														
302	3-11				21		310		0.38				64		0.010		18		1
303	312				25														
304	313				38								82				29		5
305	314				97								54				26		0.4
306	315				14														
307	316				63														
308	317				36														
309	318				28								58				31		8.5
310	319																		
311	32																12		5
312	3-2				5		233		0.82				5		0.030		5		13
313	3-2 dup				5		235		0.82				5		0.020		5		13
314	320				28								58				31		8.5
315	321				3														
316	322																		
317	323																		
318	324				34.6								32.2				14.7		27.7
319	325				76														
320	326				44														
321	327												65				26		
322	328												68				24		
323	329												57				30		
324	33				19														
325	3-3				18		362		0.09				48		0.800		23		6
326	330		8.36												0.050				
327	331		7.00												0.050				
328	332				42														
329	333				35												0.1		
330	334				32												0.2		
331	335				38								93				20		
332	336				18								258				52		
333	337												111.5				23		
334	338				100														
335	339				275														

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
336	34				26								31				14		6
337	3-4				18		406		0.31				53		**0.590**		16		5
338	340				87														
339	341																		
340	342				17								66				22		1
341	343				16														
342	344				52														
343	345				30								74				13		
344	346		7.80												0.010				
345	347				36												12		2
346	348				1														
347	349				4								6				2		5
348	35				17														
349	3-5				64		**754**		0.38				138		**2.320**		31		2
350	350				42														
351	351				21								26				51		5
352	352		7.53												0.230				
353	353																		
354	354				7								3	<	0.010		2		2
355	355				14								53				15		
356	356				118								163	<	0.010		51		10
357	357		8.04		0										0.070				
358	358				35								74	<	0.010		19		4
359	359				22.1														
360	36				3														
361	3-6				47		**825**		0.19				128		0.005		32		3
362	360				33.6								73.8				2.7		1.3
363	361				28														
364	362				31.6								41				16.4		10.5
365	363		**1.00**												**1.610**				
366	364		7.71												0.050				
367	365		7.40												0.000				
368	366		7.50												0.050				
369	367				41														
370	368																		
371	369		7.20												**0.740**				
372	37				20								11						5
373	3-7				98		**1000**		0.33				172		**3.200**		25		2
374	370														0.010				
375	371		7.71												0.030				
376	372				21														3
377	373				25														

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
378	374				30								102				23.3		22
379	375				101												16		
380	376				30								102				23.3		2.2
381	377		7.80												0.260				
382	378		7.83												**1.220**				
383	379		8.19												0.050				
384	38				17.6								8.3		**0.570**		1.5		13.8
385	3-8				89		**663**		0.56				116		0.005		19		43
386	380		7.85												0.130				
387	381												152				45.6		2.6
388	382												91.4				27.2		
389	383		7.87												0.060				
390	384				29.8								53				5.5		2.1
391	385				15								77				24		
392	386				30														
393	387																		
394	388				138								78				24		
395	389				51														
396	39		**9.00**												0.210				
397	3-9				2		294		0.82				11		0.150		9		11
398	390				15								77				24		
399	391				14								78				25		
400	392				31								90				26		2
401	393				36														
402	394														0.040				
403	395				16.4								20.9				1.5		
404	396		7.67												**0.550**				
405	397		7.26												0.052				
406	398				37														
407	399		7.55												**2.420**				
408	4				7.4								43.3		0.090		17.5		17.5
409	40				7								3				2		2
410	400												26.1				53.1		
411	400-1								0.26										
412	400-2				81		**689**		0.22				71		0.380		65		5
413	400-3								0.18										
414	400-4								0.13										
415	401																		
416	402				35								78				23		
417	403		8.06												0.080				
418	404				141														
419	405												122				19.3		22.2

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
420	406				33.5								108				34.1		1.33
421	407				102								94				22		3
422	408				6														
423	409																		
424	41				22.8								122		**2.800**		17.1		26.9
425	4-1				48		379		0.19				57		0.060		23		4
426	410				44								90	<	0.010		10		2
427	411				111								82				14		3
428	412				248.6								134.7				69.8		
429	413				48								59				48		5
430	414		8.50												0.110				
431	415		7.30												0.190				
432	416		7.12												0.010				
433	417				42								85				36		2
434	418				22								89				23		1
435	419												79				18		
436	42				15.2								50.4		**0.730**		19.7		6.8
437	4-2				57		407		0.38				0.5		0.005		0.5		1
438	4-2 dup				57		403		0.15				0.5		0.005		0.5		1
439	420		8.20												0.050				
440	421				64														
441	422				62														
442	423				83														
443	424				50														
444	425													<	6.000				
445	426				29								87				0.26		2
446	427														0.150				
447	428		7.50												0.010				
448	429		7.99												0.090				
449	43				80								84				38		5
450	430		8.25												0.180				
451	431				44.2								81.7				16.1		5.6
452	432		7.17		0										0.020				
453	433		7.42												0.080				
454	434		8.10												**0.310**				
455	435				19								118				74		4
456	436		7.04												0.252				
457	437				724								238				21		3
458	438				34								80	<	0.010		24		6
459	439		7.60												0.020				
460	44				38								56				12		6
461	440		8.22												0.150				

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
462	441		7.00												0.010				
463	442		8.00												0.100				
464	443		7.70												0.090				
465	444		7.37												**0.550**				
466	445		8.86												0.050				
467	446		**1.00**												**5.880**				
468	447														**0.570**				
469	448														**0.480**				
470	449		7.30												**1.640**				
471	45				54.7								61.5		0.080		15.4		4.4
472	4-5				54		**561**		0.025				101		0.220		25		7
473	450		**6.40**												0.050				
474	451				66								170	<	0.010		33		8
475	452				101								196	<	0.010		32		9
476	453				**1210**								504				29		5
477	454				54								200				22		4
478	455				18								104	<	0.010		32		2
479	456				16								14				5		4
480	457		8.05												0.020				
481	458		7.20												0.050				
482	459		7.80												0.050				
483	46				4.4								9.9		0.220		2.9		10.7
484	4-6				17		289		0.17				64		**0.720**		12		2
485	460		7.74												0.210				
486	461		7.72												0.190				
487	462														0.070				
488	463				71								352				58		13
489	464		8.00												0.040				
490	465														0.110				
491	466		8.04												0.090				
492	467		**8.56**												**0.680**				
493	468		8.09												0.080				
494	469				5								25				20		5
495	47				59								118		0.050		71		4.7
496	4-7				50		**741**		0.45				65		0.250		33		8
497	470		8.26												0.030				
498	471				**1198**								495				77		8
499	472				8								86	<	0.010		10		2
500	473				5								4				3		3
501	474		**6.21**												**1.200**				
502	475		8.23												0.070				
503	476		**8.95**												0.270				

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
504	477		8.10												0.010				
505	478														0.050				
506	479		7.80												0.010				
507	48				29.6								50		**2.800**		25.1		12.1
508	4-8				21		**563**		0.27				68		0.020		13		3
509	480		8.02																
510	481		8.46												0.050				
511	482		**8.58**												0.310				
512	483		8.30												0.190				
513	484		**6.40**												0.020				
514	485				16								45				5		4
515	486																		
516	487				7								30				5		
517	488		8.30												0.210				
518	489				57								82	<	0.010		19		6
519	49				47.8								14.2				11.3		
520	4-9				54		499		0.37				67		**0.510**		32		7
521	490		**5.70**												0.230				
522	491				6								24	<	0.010		3		
523	492				32								36				16		2
524	493		6.80												**0.360**				
525	494		6.68												0.080				
526	495		7.35												0.060				
527	496				362								225				29		4
528	497				60								78				21		6
529	498		**6.20**												**6.120**				
530	499		8.13												**1.550**				
531	5		8.04												0.200				
532	50				117								31.5		0.170		7.9		17.6
533	500				29								50				7		2
534	500-1								0.16										
535	500-2				101		**629**		0.14				78		0.250		59		3
536	500-3								0.11										
537	500-4								0.58										
538	500-4 dup								0.71										
539	501				27								36				5		2
540	502				24								35				5		2
541	503		7.80												0.060				
542	504		8.34												**0.850**				
543	505				10								23				5		2
544	506		6.88												**0.590**				
545	507		8.07												0.090				

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
546	508		6.60												**4.340**				
547	509				23								128				48		7
548	51				19.8								38.9		**0.360**		22.8		4.5
549	5-1				74		**1590**		0.31				151		0.040		37		6
550	52				8														
551	5-2				72		**865**		0.51				121		0.040		18		2
552	53				41.2								75.6		**0.330**		31.9		11.9
553	5-3				36		**767**		0.4				119		0.080		30		5
554	54				51.8								35.6		0.100		21.2		3.5
555	5-4				77		**1300**		0.24				174		0.030		29		9
556	55														**0.400**				
557	5-5				51		489		0.38				95		**0.830**		27		4
558	56																		
559	5-6				45		471		0.28				89		**0.350**		23		3
560	57		6.65												0.050				
561	5-7				72		**1020**		0.24				0.5		0.005		0.5		1
562	5-7 dup				72		**1030**		0.21				0.5		0.010		0.5		1
563	58				56.5								155				71.9		7.2
564	5-8				50		**936**		0.19				190		0.180		16		3
565	59				117												57		6
566	6				44.6								132		**3.000**		18.3		15
567	60																96.1		8.3
568	600-1							<	0.05										
569	600-2				70		**1120**		0.06				129		0.780		87		3
570	600-3								0.24										
571	600-4							<	0.05										
572	61		7.78												0.250				
573	6-1				125		**1410**		0.64				127		0.140		55		10
574	62		7.49												0.006				
575	6-2				158		**1370**		1.3				110		0.030		70		9
576	63		7.70												**0.322**				
577	64				92								66		0.150		29		15
578	6-4				110		**1200**		0.62				124		0.070		67		10
579	65												10						
580	66				19.1								60.8		0.050		28.5		0.8
581	67				43								68				34		6
582	6-7				135		**1180**		0.57				73		0.030		46		8
583	68		7.40												0.090				
584	69				58								59				33		9
585	7		7.30												0.080				
586	70				45								62				25		6
587	700-1								0.13										

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
588	700-2				40		418		0.33				48		0.220		43		4
589	700-3							<	0.05										
590	700-4			<	0.1										**11.00**				
591	71				87														6
592	7-1				113		**1530**		2.66				186		0.040		21		4
593	72				52.8								72.3				38.8		1.0
594	73				75.9														
595	74				20.6								39.1				7		
596	7-4				48		**549**		0.025				115		**0.540**		29		2
597	7-4 dup				49		**563**		0.025				115		0.560		29		2
598	75				49.3								79.8				41.7		0.8
599	7-5				39		474		0.28				100		0.030		18		2
600	7-5 dup				39		460		0.025				100		0.020		18		2
601	76				36.1														
602	77				98								48.3		**0.370**		27.1		2.6
603	78				120								141		0.050		34		2.9
604	79				49														
605	8				3.9								25.2		0.150		14.1		8.5
606	80				32														
607	800-1								0.15										
608	800-2				64		**649**		0.25				70		0.160		59		7
609	800-3								0.21										
610	800-4								0.1										
611	81				47								78				19		3
612	82				38								88		0.050		22		2
613	83		8.42												**27.70**				
614	84				36														
615	85				46								54				26		2
616	86				24								76		**5.000**		17		1.4
617	87				35														
618	88				15								22				14		7
619	89				38								47				26		7
620	9				23.7								89		0.210		15		1.7
621	90				0.14								26				20		4
622	900-1							<	0.05										
623	900-2								0.06										
624	900-3								0.18										
625	900-4				39		384		0.26				33		0.240		28		6
626	91				26.8								53.6				16.2		2.1
627	92				40								62				18		3
628	93				18								56		0.040		10		1.8
629	94				19.7								29.9		0.390		12.5		4.8

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
630	95												22				17		4
631	96												72				60		
632	97		7.70												0.050				
633	98				82														
634	99												95				57		14.5
635	9a-5				28		237		0.18				50		0.130		10		2
636	A-1				52		368		0.14				42		0.100		10		1
637	A-10								1										
638	A-11								0.12										
639	A-12								0.28										
640	A-13								0.51										
641	A-13 dup								0.53										
642	A-15				113		**702**		0.26				92		**2.150**		20		3
643	A-2				34		343		0.21				45		0.280		10		2
644	A-3								0.08										
645	A-4								0.09										
646	A-5								3.21										
647	A-6				23		276	<	0.05				48		**2.850**		18		2
648	A-7							<	0.05										
649	A-8								0.22										
650	A-9								0.31										
651	B-1								0.14										
652	B-10								0.31										
653	B-11							<	0.05										
654	B-12								0.09										
655	B-13				19		475		0.19				79	<	0.030		24		2
656	B-13 dup								0.14										
657	B-2				8		103		0.1				19	<	0.030		7	<	1
658	B-3								0.18										
659	B-4				13		113		0.2				22	<	0.030		7	<	1
660	B-5								0.21										
661	B-6								0.09										
662	B-7							<	0.05										
663	B-8								0.11										
664	B-9							<	0.05										
665	C-1								0.07										
666	C-3				34		**676**	<	0.05				80	<	0.030		27		2
667	Carleton Lodge 3rd Floor (dist # 2)				39				0.05		0.23				0.110				
668	Carleton Lodge Kitchen (dist #1)		7.70		39		362		0.07		0.23				**1.060**				
669	Carleton Lodge #4 Well		7.65		43		314		0.07		0.31				**0.400**				
670	Carleton Lodge #5 Well		7.66		38		343		0.23		0.26				**0.374**				
671	Carp #1 Well		8.09		19		329		0.47		0.25				**0.436**				

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
672	Carp #2 Well		7.97		31		354		0.31		0.25				0.020				
673	Carp Arena																		
674	Carp School / Video (dist #1)				28				0.30		0.28								
675	Carp School/Medical Centre				31				0.11		0.45								
676	D-1				64		151		0.17				25		0.230		6		1
677	D-10								0.13										
678	D-11							<	0.05										
679	D-12				30		215		0.29				22		0.250		10		3
680	D-13							<	0.05										
681	D-14				17		148	<	0.05				27	<	0.030		7		2
682	D-14 dup							<	0.05										
683	D-2								0.31										
684	D-3								0.19										
685	D-4								0.17										
686	D-5							<	0.05										
687	D-6								0.3										
688	D-7				24		286		0.26				35	<	0.030		9		3
689	D-8								0.08										
690	D-9							<	0.05										
691	Dist 17 Channonhouse (K.P.1D.)										0.29								
692	E-1							<	0.05										
693	E-10								0.07										
694	E-11							<	0.05										
695	E-12							<	0.05										
696	E-13				88		**3330**		1.77				11		**7.030**		29		29
697	E-13 dup				88		**3330**		1.77				11		**10.40**		31		31
698	E-15								0.08										
699	E-2								0.75										
700	E-3								0.89										
701	E-4								1.37										
702	E-5				25		166	<	0.05				32	<	0.030		11		1
703	E-6							<	0.05										
704	E-7				21		**793**		0.07				80	<	0.030		32		3
705	E-8								0.29										
706	E-9								0.22										
707	F-1							<	0.05										
708	F-10								0.23										
709	F-12				30		**560**		0.5				56		**1.880**		21		3
710	F-13				42		**1200**		0.16				91		0.040		20		2
711	F-13 dup				42		**1160**		0.11				86		0.040		19		2
712	F-2								0.11										
713	F-3								0.09										

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
714	F-4							<	0.05										
715	F-5								0.2										
716	F-6								0.12										
717	F-7							<	0.05										
718	F-8								0.13										
719	F-9				34		**519**		0.12				63	<	0.030		17		4
720	GAC #1										0.27								
721	GAC #2										0.23								
722	K.P#2		7.53		55		**506**		2.25		0.39				**0.370**				
723	K.P. Dist#1				52		459		0.07		0.30				0.233				
724	K.P. Dist#2				57		425		0.07		0.32				0.240				
725	K.P.#1		7.62		52		**513**		0.17		0.17				**0.351**				
726	King's Park #1 Dist		7.45		52		496		0.08		0.27				0.231				
727	King's Park #1 Well		7.60		52		486		0.20		0.19				**0.357**				
728	King's Park #2 Dist		7.45		56		**537**		0.09		0.27				0.225				
729	King's Park #2 Well		7.49		57		**512**		0.18		0.21				**0.403**				
730	KP #1 Dist - 17 Channonhouse & Mc Storey										0.42								
731	KP #2 Dist - 17 Channonhouse and Mc Storey										0.40								
732	Munster #1 Well		7.68		69		442		0.28		0.29				**0.176**				
733	Munster #2 Well		7.59		70		442		0.28		0.73				**0.366**				
734	Munster Beckers/Mac's (dist #1)		7.65		69		442		0.12		0.33				**0.217**				
735	Munster School				71				0.08		0.40				**0.150**				
736	Munster School/23 Dogwood (dist #2, Dogwood in				70				0.19		0.33				**0.160**				
737	Munster School/Community Centre-in summer										0.32								
738	Raw Water Sample Line										1.60								
739	Rideau Valley		7.80		40		487		0.22				63.8		**611.3**		20.5		3.7
740	Vars #1 Well		7.75		2.3		244		0.34		0.28				**1.308**				
741	Vars #2 Well		7.65		5.2		249		2.88		0.38				**0.950**				
742	Vars Grocery				9.1		259		0.05		0.43								
743	Vars Grocery (Dist #1)				3.5		249		0.06		0.40				0.028				
744	Vars School / Restaurant										0.69								
745	Vars School / Restaurant (Dist #2)				3.6				0.07		0.31								
746	Vars School/Restaurant				6.3				0.04		0.47				0.093				
747	W.C.Lodge (dist #2)		8.00		26		304		0.25		0.27				0.010				
748	West Carleton Lodge				31		356		0.10		0.49				**0.408**				
749	MVC 1		7.86		21		367	<	0.01				84	<	0.03		23		4
750	MVC 2		7.8		17		372		0.24				81	<	0.03		13		3
751	MVC 3		8.05		57		352	<	0.01			<	1	<	0.03	<	1	<	1
752	MVC 4		7.89		6		303		0.14				64	<	0.03		20		2
753	MVC 5		7.84		23		312		0.27				78	<	0.03		17		2
754	MVC 6		7.86		11		214	<	0.01				50	<	0.03		8		4
755	MVC 7		7.81		11		315		0.22				50	<	0.03		28		3

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	pH (unitless)		Sulphate (mg/L)		Total Dissolved Solids (mg/L)		TKN (mg/L)		Turbidity (NTU)		Calcium (mg/L)		Iron (mg/L)		Magnesium (mg/L)		Potassium (mg/L)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
756	MVC 8		7.31		13		122		0.11				24	<	0.03		5	<	1
757	MVC 9		7.77		20		443	<	0.01				98	<	0.03		24		1
758	MVC 10		7.83		16		294	<	0.01				71	<	0.03		9		6
759	MVC 11		7.32		7		95		0.31				23		**1.99**		2	<	1
760	MVC 12		7.86		17		263		0.66				52		0.3		14	<	1
761	MVC 13		7.73		20		450	<	0.01				108	<	0.03		28		1
762	MVC 15		7.57		31		**1030**		0.17				142	<	0.03		40		6
763	MVC 16		7.86		27		**670**		0.11				112	<	0.03		37		5
764	MVC 17 (MVC 3 Dup)		7.13		57		402		0.66				9		**4.96**		4	<	1

Notes: **1400 Criterion exceeded for this parameter, see**

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
1	Munster Beckers				0		0
2	Munster School / Community Centre				0		0
3	1		**510**				
4	10						
5	100		86				
6	1000-1		27		0		**2**
7	1000-2		61		0		0
8	1000-3		22		0		0
9	100-1 (TW1)		12		0		0
10	100-2		33		0		0
11	100-3		13		0		0
12	100-4		15		0		0
13	101		35				
14	102						
15	103		43				
16	104		6				
17	105		3				
18	106		102				
19	107		33				
20	108		112				
21	109		89				
22	11						
23	1-1		128		0		0
24	110		4				
25	1100-1		10		0		0
26	1100-2		130		0		0
27	1100-3		14		0		0
28	1100-4		61		0		0
29	1100-5		199		0		0
30	1100-6		19		0		0
31	1100-7		45		0		0
32	1100-8		76		0		0
33	1100-8 dup		80		0		0
34	111		1				
35	11-1		77		0		0
36	112						
37	11-2		41		0		**2**
38	113		4				
39	11-3		42		0		0
40	114						
41	115						

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
42	116		62.7				
43	117		24				
44	118						
45	119		22				
46	12		50				
47	1-2		21		0		0
48	120		24				
49	1200-1		61		0		0
50	1200-10		91		0		0
51	1200-11		**279**		0		0
52	1200-12		35		0		0
53	1200-12 dup						
54	1200-14		53		0		0
55	1200-15		44		0		0
56	1200-16		39		0		0
57	1200-19		44		0		0
58	1200-2		**239**		0		**10**
59	1200-3		51		0		0
60	1200-4		**217**		**1**		**5**
61	1200-5		104		0		0
62	1200-6		58		0		0
63	1200-7		50		0		0
64	1200-8		85		0		0
65	1200-8 dup		85		0		0
66	1200-9		34		0		0
67	121		21.7				
68	122		1				
69	123		6				
70	124		50				
71	125		39				
72	126		53				
73	127		8				
74	128						
75	129						
76	12a-1		21		0		0
77	12b-1		185		0		0
78	13		0				
79	1-3		20		0		0
80	130		8.4				
81	131		11				
82	132						
83	133		20.8				

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
84	134						
85	135		4				
86	136						
87	137		4				
88	138						
89	139						
90	14						
91	1-4		24		0		0
92	140						
93	141		65				
94	142		7				
95	143		86.1				
96	144						
97	145		**246**				
98	146		33				
99	147		19				
100	148		26.4				
101	149		27				
102	15		17				
103	1-5		96		0		0
104	150						
105	151						
106	152		35				
107	153		5				
108	154						
109	155		1				
110	156						
111	157		40				
112	158		2.5				
113	159		114				
114	16		**246**				
115	1-6		23		0		**2**
116	1-6 dup		23		0		0
117	160		8.3				
118	161		43				
119	162		2				
120	163		3				
121	164		47				
122	165		110				
123	166		132				
124	167		7				
125	168		**502**				

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
126	169		**214**				
127	17		**343**				
128	1-7		73		0		0
129	17 Channonhouse (K.P.2D)				0		0
130	170		57				
131	171		10				
132	172		3				
133	173		8				
134	174		17				
135	175		55				
136	176		23				
137	177		8				
138	178		5				
139	179		12				
140	18		23.5				
141	180		10				
142	181		12				
143	182		21				
144	183		5				
145	184		25				
146	185		14				
147	186		4				
148	187		19				
149	188		64				
150	189		5				
151	19		200				
152	190		8				
153	191		8				
154	192		50				
155	193		8				
156	194		17				
157	195						
158	196		5				
159	197		4				
160	198						
161	199		67				
162	2		**208**				
163	20		27				
164	200		1				
165	200-1		26		0		0
166	200-2		35		0		0
167	200-3		40		0		0

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
168	200-4		35		0		0
169	201						
170	202		2				
171	203		7				
172	204		4				
173	205		20				
174	206		18				
175	207		22				
176	208		5				
177	209						
178	21		15.2				
179	2-1		12		0		**14**
180	210		3				
181	211		13				
182	212		14.8				
183	213		8.2				
184	214		7				
185	215		3.1				
186	216		71				
187	217		35				
188	218		50				
189	219		**686**				
190	22		60.2				
191	2-2		74		0		0
192	220		14.2				
193	221		102.1				
194	222		**1614**				
195	223		33				
196	224		32				
197	225		**241**				
198	226		102				
199	227		76				
200	228		86				
201	229		85				
202	23		**245**				
203	2-3		39		0		0
204	230		27				
205	231		23				
206	232		18				
207	233						
208	234						
209	235						

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
210	236						
211	237		23				
212	238		65				
213	239						
214	24		**585**				
215	2-4		38		0		0
216	240						
217	241						
218	242		10.3				
219	243		30				
220	244		108				
221	245						
222	246						
223	247						
224	248		8				
225	249		8				
226	25		8				
227	2-5		17		0		0
228	250		54				
229	251		15				
230	252		**356**				
231	253		57				
232	254						
233	255		78				
234	256		98				
235	257						
236	258		23				
237	259		43				
238	26		90				
239	2-6		**251**		0		0
240	260						
241	261		1				
242	262		1.7				
243	263		13.6				
244	264		60				
245	265		18				
246	266		28.2				
247	267						
248	268						
249	269						
250	27		49				
251	270		43.2				

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
252	271		**238**				
253	272		14.8				
254	273		24.8				
255	274						
256	275						
257	276						
258	277						
259	278		56				
260	279		83.8				
261	28		**223**				
262	280		63				
263	281						
264	282		10				
265	283		5				
266	284		5				
267	285		9				
268	286						
269	287		29				
270	288		**517**				
271	289		130				
272	29		60				
273	290		3				
274	291		169				
275	292		146				
276	293		24				
277	294		3				
278	295		17				
279	296		9				
280	297		26				
281	298						
282	299		18				
283	3		**265**				
284	30		90.2				
285	300		3				
286	300-1		32		0		0
287	300-2		27		0		0
288	301		53.5				
289	302		5				
290	303		6				
291	304		3				
292	305		5				
293	306		39				

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
294	307		71.3				
295	308		17				
296	309		7				
297	31		13.6				
298	3-1		34		0		0
299	310		39				
300	3-10		**205**		0		0
301	311		1				
302	3-11		9		0		**70**
303	312		12				
304	313		8				
305	314		**413**				
306	315		74				
307	316		140				
308	317		188				
309	318		5.6				
310	319						
311	32		10				
312	3-2		67		0		0
313	3-2 dup		67		0		0
314	320		5.6				
315	321		135				
316	322						
317	323						
318	324		27.7				
319	325		50				
320	326		11				
321	327						
322	328						
323	329						
324	33		44				
325	3-3		25		0		0
326	330						
327	331						
328	332						
329	333						
330	334						
331	335						
332	336						
333	337						
334	338		190				
335	339						

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
336	34		145				
337	3-4		46		0		0
338	340		**312**				
339	341		**1330**				
340	342		3				
341	343		50				
342	344		126				
343	345		4				
344	346						
345	347		2				
346	348		38				
347	349		101				
348	35		57				
349	3-5		48		0		0
350	350		3				
351	351		23				
352	352						
353	353						
354	354		188				
355	355		5				
356	356		**321**				
357	357						
358	358		16				
359	359		8.4				
360	36		**349**				
361	3-6		74		0		0
362	360		1.3				
363	361		82				
364	362		10.5				
365	363						
366	364						
367	365						
368	366						
369	367		4				
370	368		40				
371	369						
372	37		68				
373	3-7		93		0		0
374	370						
375	371						
376	372		4				
377	373		3				

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
378	374		138				
379	375		65				
380	376		138				
381	377						
382	378						
383	379						
384	38		**334**				
385	3-8		43		0		0
386	380						
387	381		53.6				
388	382						
389	383						
390	384		2.2				
391	385		5				
392	386		15				
393	387		160				
394	388		81				
395	389		53				
396	39						
397	3-9		69		0		0
398	390		5				
399	391		5				
400	392		36				
401	393		152				
402	394						
403	395		19.4				
404	396						
405	397						
406	398		42				
407	399						
408	4		**300**				
409	40		99				
410	400		129.8				
411	400-1		99		0		0
412	400-2		54		0		**540**
413	400-3		57		0		0
414	400-4		63		0		**2**
415	401		7				
416	402		7				
417	403						
418	404		14				
419	405		183				

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
420	406		13				
421	407		8				
422	408		7				
423	409						
424	41		44.4				
425	4-1		19		0		**38**
426	410		8				
427	411		19				
428	412		27.3				
429	413		77				
430	414						
431	415						
432	416						
433	417		26				
434	418		48				
435	419		19				
436	42		36.5				
437	4-2		147		0		0
438	4-2 dup		147		0		0
439	420						
440	421						
441	422						
442	423						
443	424						
444	425						
445	426		62.5				
446	427						
447	428						
448	429						
449	43		124				
450	430						
451	431		5.6				
452	432						
453	433						
454	434						
455	435		103				
456	436						
457	437		78				
458	438		45				
459	439						
460	44		3				
461	440						

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
462	441						
463	442						
464	443						
465	444						
466	445						
467	446						
468	447						
469	448						
470	449						
471	45		23.1				
472	4-5		27		0		0
473	450						
474	451		52				
475	452		136				
476	453		55				
477	454		**456**				
478	455		8				
479	456		53				
480	457						
481	458						
482	459						
483	46		**206**				
484	4-6		7		0		0
485	460						
486	461						
487	462						
488	463		**990**				
489	464						
490	465						
491	466						
492	467						
493	468						
494	469		9				
495	47		140				
496	4-7		105		0		**2**
497	470						
498	471		34				
499	472		6				
500	473		67				
501	474						
502	475						
503	476						

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
504	477						
505	478						
506	479						
507	48		117				
508	4-8		86		0		0
509	480						
510	481						
511	482						
512	483						
513	484						
514	485		59				
515	486						
516	487		17				
517	488						
518	489		46				
519	49		145.9				
520	4-9		38		0		**6**
521	490						
522	491		3				
523	492		9				
524	493						
525	494						
526	495						
527	496		34				
528	497		25				
529	498						
530	499						
531	5						
532	50		**382**				
533	500		10				
534	500-1		11		0		0
535	500-2		28		0		**2**
536	500-3		25		0		**3**
537	500-4		52		0		0
538	500-4 dup		53				
539	501		20				
540	502		19				
541	503						
542	504						
543	505		5				
544	506						
545	507						

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
546	508						
547	509		**322**				
548	51		21				
549	5-1		**301**		0		0
550	52		**388**				
551	5-2		121		0		0
552	53		160				
553	5-3		54		0		0
554	54		15				
555	5-4		195		0		0
556	55						
557	5-5		20		0		0
558	56						
559	5-6		23		0		0
560	57						
561	5-7		**311**		0		0
562	5-7 dup		**316**		0		0
563	58		76.5				
564	5-8		80		0		0
565	59		84				
566	6		31				
567	60						
568	600-1		9		0		
569	600-2		104		0		0
570	600-3		72		0		0
571	600-4		63		0		0
572	61						
573	6-1		**241**		0		0
574	62						
575	6-2		**227**		0		0
576	63						
577	64		81				
578	6-4		157		0		0
579	65		155				
580	66		3				
581	67		28				
582	6-7		**239**		0		0
583	68						
584	69		0.5				
585	7						
586	70		9				
587	700-1		23		0		0

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
588	700-2		13		0		0
589	700-3		65		0		0
590	700-4				0		0
591	71		45				
592	7-1		**270**		**5**		**34**
593	72		1.7				
594	73		9.9				
595	74		13.3				
596	7-4		12		0		0
597	7-4 dup		13		0		0
598	75		2.5				
599	7-5		16		0		**19**
600	7-5 dup		16		0		**16**
601	76		1.3				
602	77		7				
603	78		40				
604	79		9				
605	8		34				
606	80		24				
607	800-1		50		0		0
608	800-2		32		0		0
609	800-3		84		0		0
610	800-4		27		0		0
611	81		15				
612	82		38				
613	83						
614	84		11				
615	85		3				
616	86		10				
617	87		7				
618	88		38				
619	89		45				
620	9		1				
621	90		9				
622	900-1		29		0		**10**
623	900-2		58		0		0
624	900-3		56		0		0
625	900-4		35		0		0
626	91		6.5				
627	92		6				
628	93		16				
629	94		43				

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
630	95		9				
631	96		20				
632	97						
633	98		27				
634	99		83				
635	9a-5		7		0		0
636	A-1		61		0		0
637	A-10		20		0		0
638	A-11		80		0		0
639	A-12		31		0		0
640	A-13		56		0		0
641	A-13 dup		57		0		0
642	A-15		106		0		0
643	A-2		48		0		0
644	A-3		5		0		0
645	A-4		4		0		0
646	A-5		44		0		0
647	A-6		8		0		0
648	A-7		5		0		**1**
649	A-8		87		0		0
650	A-9		23		0		**2**
651	B-1		69		0		0
652	B-10		35		0		0
653	B-11		10		0		0
654	B-12		4		0		0
655	B-13		20		0		0
656	B-13 dup		20		0		0
657	B-2	<	2		0		0
658	B-3		126		0		0
659	B-4		3		0		0
660	B-5		73		0		0
661	B-6		11		0		0
662	B-7		3		0		0
663	B-8		10		0		0
664	B-9		2		0		0
665	C-1	<	2		0		0
666	C-3		88		0		0
667	Carleton Lodge 3rd Floor (dist # 2)				0		0
668	Carleton Lodge Kitchen (dist #1)				0		0
669	Carleton Lodge #4 Well				0		0
670	Carleton Lodge #5 Well				0		**1**
671	Carp #1 Well				0		0

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
672	Carp #2 Well				0		0
673	Carp Arena				0		0
674	Carp School / Video (dist #1)				0		0
675	Carp School/Medical Centre				0		0
676	D-1		9		0		0
677	D-10		3		0		**18**
678	D-11		11		0		0
679	D-12		30		0		0
680	D-13		23		0		0
681	D-14		10		0		0
682	D-14 dup		10		0		0
683	D-2		20		0		0
684	D-3		12		0		0
685	D-4		71		0		0
686	D-5		9		0		0
687	D-6		65		0		0
688	D-7		32		0		0
689	D-8		13		0		0
690	D-9		5		0		0
691	Dist 17 Channonhouse (K.P.1D.)				0		0
692	E-1		7		0		**17**
693	E-10		163		0		0
694	E-11		24		0		0
695	E-12		173		0		0
696	E-13		**1120**		0		0
697	E-13 dup		**1090**		0		0
698	E-15		**364**		0	>	**1500**
699	E-2		**484**		0		0
700	E-3		**592**		0		0
701	E-4		**499**		0		0
702	E-5		2		0		0
703	E-6		131		0		0
704	E-7		107		0		0
705	E-8		79		0		0
706	E-9		98		0		**1500**
707	F-1		11		0		0
708	F-10		117		0		0
709	F-12		94		0		0
710	F-13		**256**		0		0
711	F-13 dup		**246**		0		0
712	F-2		81		0		0
713	F-3		43		0		0

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
714	F-4		43		0		0
715	F-5		**350**		0		0
716	F-6		73		0		0
717	F-7		14		0		0
718	F-8		40		0		0
719	F-9		91		0		0
720	GAC #1						
721	GAC #2						
722	K.P#2				0		0
723	K.P. Dist#1				0		0
724	K.P. Dist#2				0		0
725	K.P.#1				0		0
726	King's Park #1 Dist				0		0
727	King's Park #1 Well				0		0
728	King's Park #2 Dist				0		0
729	King's Park #2 Well				0		0
730	KP #1 Dist - 17 Channonhouse & Mc Storey				0		0
731	KP #2 Dist - 17 Channonhouse and Mc Storey				0		0
732	Munster #1 Well				0		0
733	Munster #2 Well				0		0
734	Munster Beckers/Mac's (dist #1)				0		0
735	Munster School				0		0
736	Munster School/23 Dogwood (dist #2, Dogwood in				0		0
737	Munster School/Community Centre-in summer				0		0
738	Raw Water Sample Line				**6**		**68**
739	Rideau Valley		65.9				
740	Vars #1 Well				0		0
741	Vars #2 Well				0		0
742	Vars Grocery				0		0
743	Vars Grocery (Dist #1)				0		0
744	Vars School / Restaurant				0		0
745	Vars School / Restaurant (Dist #2)				0		0
746	Vars School/Restaurant				0		0
747	W.C.Lodge (dist #2)				0		0
748	West Carleton Lodge				0		0
749	MVC 1		10		0		0
750	MVC 2		22		0		0
751	MVC 3		126		0		0
752	MVC 4		6		0		**65**
753	MVC 5		4		0		0
754	MVC 6	<	2		0		0
755	MVC 7		3		0		0

Appendix 2-4
Groundwater - Water Quality Summary Results
Mississippi - Rideau Source Protection Region

Station ID	Interval Name	Sodium (mg/L)		E.coli (cfu / 100 mL)		Total Coliforms (cfu / 100 mL)	
		Qual.	Avg.	Qual.	Avg.	Qual.	Avg.
756	MVC 8	<	2		0		0
757	MVC 9		7		0		0
758	MVC 10		7		0		0
759	MVC 11		4		0		0
760	MVC 12		14				
761	MVC 13		4				
762	MVC 15		115				
763	MVC 16		39				
764	MVC 17 (MVC 3 Dup)		119				

Notes: **1400 Criterion exceeded for this parameter, see**