General Chemistry

Ammonia (un-ionized)

All PWQMN samples within the MVC (11 sites, 374 samples in total) were found to be below the un-ionized ammonia Provincial Water Quality Objective (PWQO) criterion of 0.020 mg/L. All PWQMN samples within the RVCA (ten sites, 283samples in total) were found to be below the PWQO criterion. All PWQMN samples on the Ottawa River (one site, 42 samples in total) were found to be below the PWQO criterion.

One sample from the RVCA surface water quality monitoring program was found to exceed the PWQO criterion of 0.020 mg/L for un-ionized ammonia (one sample from Station BRN-03 – Barnes Creek, Kemptville, representing 7% of the samples from this location). The remaining samples from the RVCA surface water quality monitoring program were found to be below the PWQO (53 sites, 774 samples in total).

The following samples from the City of Ottawa Baseline Water Quality monitoring program were found to exceed the PWQO for un-ionized ammonia:

- 1 of 61 samples (2%) from station CK7-01 – Stillwater Creek, Carling Ave.;
- 1 of 82 samples (1%) from station CK18-03-00 – Sawmill Creek, NE tributary, Lester Rd. & Albion Rd.;
- 1 of 70 samples (1%) from station CK22-001 – Bilberry Creek, Bilberry Dr. N.;
- 1 of 62 samples (2%) from station CK42-05-03 – Taylor Drain, Fourth Line Rd.;
- 2 of 62 samples (3%) from station CK67-001 – Flowing Creek, Perth Rd.;
- 1 of 39 samples (3%) from station MUDLK-03 – Mud Lake, West part of Lake; and
- 1 of 58 samples (2%) from station R010-09 – Carp River, Richardson Side Rd.

The remaining City of Ottawa Baseline Water Quality monitoring program samples (85 sites, 4768 samples in total) were found to be below the PWQO criterion for un-ionized ammonia.

Chloride

One sample from the PWQMN program within the MVC was found to exceed the Ontario Drinking Water Standard, Objectives and Guidelines (ODWSOG) criterion of 250 mg/L for chloride (one sample from Station 18337010102 – Carp River, downstream of Carp, representing 3% of the samples from this location). The remaining PWQMN samples within the MVC (11 sites, 377 samples in total) were found to be below the ODWSOG chloride criterion. All PWQMN samples within the RVCA (ten sites, 298 samples in total) were found to be below the ODWSOG criterion. All PWQMN samples on the Ottawa River (one site, 42 samples in total) were found to be below the ODWSOG criterion.

All samples from the RVCA surface water quality monitoring program were found to be below the ODWSOG (53 sites, 1,160 samples in total) criterion for chloride.

The following samples from the City of Ottawa Baseline Water Quality monitoring program were found to exceed the ODWSOG for chloride:

- 13 of 57 samples (23%) from station CK6-001 – Watts Creek, Shirley Blvd.;
- 59 of 74 samples (80%) from station CK6-312 – Watts Creek, Corkstown Rd. W.;
- 19 of 63 samples (30%) from station CK7-01 – Stillwater Creek, Carling Ave.;
- 26 of 73 samples (36%) from station CK8-01 – Graham Creek, Carling Ave.;
- 7 of 67 samples (10%) from station CK8-35 – Graham Creek, Siskin Crt.;

- 153 of 210 samples (73%) from station CK9-I – Pinecrest Creek, Ottawa River Pkwy.;
- 32 of 78 samples (41%) from station CK14-14 – Nepean Creek, downstream of Fisher Glen STF;
- 6 of 83 samples (7%) from station CK18-03-00 – Sawmill Creek, NE tributary, Lester Rd. and Albion Rd.;
- 20 of 81 samples (25%) from station CK18-J – Sawmill Creek, Johnson Rd.;
- 32 of 78 samples (41%) from station CK18-M – Sawmill Creek, Brookfield Rd. and Junction Ave.;
- 29 of 69 samples (42%) from station CK18-Q – Sawmill Creek, Riverside Dr.;
- 13 of 50 samples (26%) from station CK18-S – Sawmill Creek, Walkley Rd. and Airport Pkwy;
- 4 of 70 samples (6%) from station CK19-01 – Hunt Club Creek, Riverside Dr.;
- 3 of 74 samples (4%) from station CK19-10 – Hunt Club Creek, Country Club Dr.;
- 5 of 81 samples (6%) from station CK19-12 – Hunt Club Creek, DeNiverville Dr.;
- 40 of 73 samples (55%) from station CK21-002 – Greens Creek, Montreal Rd.;
- 43 of 73 samples (59%) from station CK21-003 – Greens Creek, Innes Rd.,
- 5 of 56 samples (9%) from station CK21-009 – Greens Creek, downstream of Ramsay Creek;
- 61 of 79 samples (77%) from station CK22-001 – Bilberry Creek, Bilberry Dr. N.;
- 43 of 110 samples (39%) from station CK23-001 – Taylor Creek, North Service Rd.;
- 39 of 72 samples (54%) from station CK35-004 – Voyager Creek, Youville Dr.;
- 1 of 63 samples (2%) from station CK41-01 – Mud Creek, Bankfield Rd.;
- 1 of 62 samples (2%) from station CK42-07 – Stevens Creek, Roger Stevens Rd.;
- 7 of 59 samples (12%) from station CK65-04 – Harwood Creek, Dunrobin Rd.;
- 1 of 40 samples (3%) from station CRS-105B – Rideau Canal, Bronson St.; and
- 6 of 60 samples (10%) from station R010-09 – Carp River, Richardson Side Rd.

The remaining City of Ottawa Baseline Water Quality monitoring program samples (85 sites, 4534 samples in total) were found to be below the ODWSOG criterion for chloride.

Nitrate

All PWQMN samples within the MVC (11 sites, 378 samples in total) were found to be below the Ontario Drinking Water Quality Standard (ODWQS) nitrate criterion of 10 mg/L. All PWQMN samples within the RVCA (ten sites, 288 samples in total) were found to be below the ODWQS criterion. All PWQMN samples on the Ottawa River (one site, 42 samples in total) were found to be below the ODWQS criterion.

All samples from the RVCA surface water quality monitoring program were found to be below the ODWQS (53 sites, 838 samples in total) criterion for nitrate.

All samples from the City of Ottawa Baseline Water Quality monitoring program were found to be below the ODWQS (78 sites, 1,957 samples in total) criterion for nitrate.

Nitrite

One sample from the PWQMN program within the MVC was found to exceed the Canadian Water Quality Guidelines (CWQG) criterion of 0.06 mg/L for nitrite (one sample from Station 18337012102 – Carp River, downstream of Kinburn, representing 3% of the samples from this location). The remaining PWQMN samples within the MVC (11 sites, 377 samples in total) were

found to be below the nitrite CWQG criterion. One sample from the PWQMN program within the RVCA was found to exceed the CWQG criterion for nitrite (one sample from Station 18003303602 – Jock River at Moodie Drive, representing 3% of the samples from this location). The remaining PWQMN samples within the RVCA (10 sites, 287 samples in total) were found to be below the nitrite CWQG criterion. All PWQMN samples on the Ottawa River (one site, 42 samples in total) were found to be below the CWQG criterion.

The following samples from the City of Ottawa Baseline Water Quality monitoring program were found to exceed the CWQG for nitrite:

- 5 of 24 samples (21%) from station CK3-01 – Cody Creek, Hansen Side Rd.;
- 23 of 29 samples (79%) from station CK5-01 – Shirley's Brook, Fourth Line Rd.;
- 7 of 27 samples (26%) from station CK5-07 – Shirley's Brook, Hines Rd.;
- 23 of 26 samples (88%) from station CK6-001 – Watts Creek, Shirley Blvd.;
- 26 of 28 samples (93%) from station CK6-312 – Watts Creek, Corkstown Rd. W.;
- 23 of 27 samples (85%) from station CK7-01 – Stillwater Creek;
- 26 of 29 samples (90%) from station CK8-01 – Graham Creek, Carling Ave.;
- 26 of 28 samples (93%) from station CK8-35 – Graham Creek, Siskin Court;
- 24 of 27 samples (89%) from station CK9-I – Pinecrest Creek;
- 24 of 27 samples (89%) from station CK13-01 – Black Rapids Creek;
- 27 of 34 samples (79%) from station CK14-14 – Nepean Creek
- 34 of 36 samples (94%) from station CK18-03-00 – Sawmill Creek, NE tributary;
- 34 of 35 samples (97%) from station CK18-J – Sawmill Creek, Johnston Rd.;
- 31 of 32 samples (97%) from station CK18-M – Sawmill Creek, Brookfield Rd.;
- 28 of 29 samples (97%) from station CK18-Q – Sawmill Creek, Riverside Dr.;
- 29 of 30 samples (97%) from station CK18-S – Sawmill Creek, Walkley Rd.;
- 25 of 30 samples (83%) from station CK19-01 – Hunt Club Creek, Riverside Dr.;
- 22 of 28 samples (79%) from station CK19-10 – Hunt Club Creek, Country Club Rd.;
- 33 of 36 samples (92%) from station CK19-12 – Hunt Club Creek, DeNiverville Dr.;
- 13 of 26 samples (50%) from station CK20-16 – Mosquito Creek, Limebank Rd.;
- 21 of 25 samples (84%) from station CK20-22 – Mosquito Creek, Rideau Rd.;
- 23 of 27 samples (85%) from station CK21-002 – Greens Creek, Montreal Rd.;
- 23 of 27 samples (85%) from station CK21-003 – Greens Creek, Innes Rd.;
- 7 of 25 samples (28%) from station CK21-009 – Ramsay Creek, Baseline Rd.;
- 25 of 29 samples (86%) from station CK22-001 – Bilberry Creek;
- 26 of 29 samples (90%) from station CK23-001 – Taylor Creek;
- 20 of 25 samples (80%) from station CK24-002 – Cardinal Creek;
- 28 of 31 samples (90%) from station CK35-004 – Voyager Creek;
- 27 of 29 samples (93%) from station CK41-01 – Mud Creek;
- 2 of 27 samples (7%) from station CK42-05-03 – Taylor Drain;
- 5 of 28 samples (18%) from station CK42-06 – Stevens Creek, Second Line Rd.;
- 2 of 26 samples (8%) from station CK43-02 – Cranberry Creek;
- 7 of 24 samples (29%) from station CK65-04 – Harwood Creek, Dunrobin Rd.;
- 19 of 28 samples (68%) from station CK67-001 – Flowing Creek;
- 2 of 12 samples (17%) from station CRS-101A – Rideau Canal, Rideau St.;
- 4 of 18 samples (22%) from station CRS-105B – Rideau Canal, Bronson St.;
- 2 of 32 samples (6%) from station JR-01 – Jock River, Prince of Wales Dr.;
- 1 of 33 samples (3%) from station JR-02 – Jock River, Jockvale Rd.;
- 1 of 25 samples (4%) from station JR-12 – Jock River, Ottawa St.;

- 18 of 25 samples (72%) from station R010-01 – Carp River, Carp Rd.;
- 19 of 25 samples (76%) from station R010-06 – Carp River, Craig Side Rd.;
- 24 of 25 samples (96%) from station R010-09 – Carp River, Richardson Side Rd.;
- 14 of 21 samples (67%) from station R010-14 – Carp River, John Shaw Rd.; and
- 1 of 14 samples (7%) from station RRS-167B – Rideau River, Mooney's Bay.

The remaining City of Ottawa Baseline Water Quality monitoring program samples (82 sites, 1248 samples in total) were found to be below the CWQG criterion for nitrite.

pH

Seven samples from the PWQMN program within the MVC were found to be outside of the PWQO range of 6.5 to 8.5 for pH (one sample from Station 18343004002 – Mississippi River, Almonte, representing 3% of the samples from this location and six samples from Station 18343006102 – Mississippi River, Appleton, representing 17% of the samples from this location). The remaining PWQMN samples within the MVC (11 sites, 374 samples in total) were found to be with the PWQO range for pH. Eleven samples from the PWQMN program within the RVCA were found outside of the PWQO range for pH (one sample from Station 18003302902 – Rideau River at Kars, representing 3% of the samples from this location; one sample from Station 18003303702 – Rideau River at Long Island, representing 3% of the samples from this location; eight samples at Station 18003302602 – Rideau River at Kilmarnock, representing 27% of the samples from this location; and one sample at Station 18003300802 – Tay River at Tay Marsh, representing 4% of the samples from this location). The remaining PWQMN samples within the RVCA (10 sites, 286 samples in total) were found to be within the PWQO pH range. All PWQMN samples on the Ottawa River (one site, 42 samples in total) were found to be below the PWQMN criterion.

The following samples from the MVC watershed watch lake monitoring program were found outside of the PWQO range for pH:

- 2 of 8 samples (25%) from Station 18343070801 – Grindstone Lake, North Basin;
- 6 of 15 samples (40%) from Station 1834070501 – Canoto Lake (North & South Basins);
- 2 of 8 samples (25%) from Station 19343074901 – Clyde Lake;
- 1 of 8 samples (13%) from Station 19343076401 – Joe's Lake;
- 3 of 12 samples (25%) from Station 18343074301 – Palmerston Lake (North & South Basins);
- 1 of 8 samples (13%) from Station 19343075901 – Upper Park Lake;
- 3 of 8 samples (38%) from Station 19343070101 – Robertson Lake;
- 2 of 8 samples (25%) from Station 19343076301 – Widow Lake;
- 4 of 9 samples (44%) from Station 19343073401 – Dalhousie Lake;
- 2 of 7 samples (29%) from Station 18343075301 – Patterson Lake;
- 3 of 19 samples (25%) from Station 18343072701 – Bennett Lake (North & South Basins);
- 1 of 7 samples (14%) from Station (unknown station number) – Black Lake;
- 2 of 7 samples (29%) from Station 18343074801 – Clear Lake;
- 3 of 7 samples (43%) from Station 18343073601 – Sharbot Lake (East Basin);
- 2 of 7 samples (29%) from Station 18343072501 – Sharbot Lake (Main Basin);
- 3 of 8 samples (38%) from Station 18343074501 – Sharbot Lake (South-West Basin);
- 3 of 8 samples (38%) from Station 18343074401 – Sharbot Lake (West Basin);
- 3 of 11 samples (27%) from Station 18343072601 – Silver Lake;
- 4 of 6 samples (67%) from Station 18343074601 – White Lake;

- 3 of 8 samples (38%) from Station 19343073101 – Clayton Lake;
- 2 of 8 samples (25%) from Station 19343077101 – Taylor Lake;
- 1 of 3 samples (33%) from Station 18343071401 – Marble Lake;
- 1 of 3 samples (33%) from Station 19343071601 – Mississagagon Lake (East Basin);
- 1 of 3 samples (33%) from Station 19343071501 – Mississagagon Lake (West Basin);
- 2 of 9 samples (22%) from Station 18343070701 – Fawn Lake;
- 2 of 6 samples (33%) from Station 18343071301 – Malcolm Lake; and
- 1 of 18 samples (6%) from Station 18343071901 – Mosque Lake (North, South & West Basins).

The remaining MVC watershed watch samples (54 sites, 332 samples in total) were found to be within the PWQO criteria for pH.

Ten samples from the RVCA surface water monitoring program were found outside of the PWQO range for pH (one sample from Station BAR-01 – Barbers Creek at County Rd. 16, representing 4% of the samples at this location; one sample from Station BRA-01 – Brassils Creek at Donnelly Dr., representing 4% of the samples at this location; one sample from Station DAL-01 – Dales Creek at County Rd. 23, representing 4% of the samples at this location; one sample from Station RCK-01 – Rideau Creek at Donnelly Dr., representing 4% of the samples at this location; one sample from Station TAY-01 – Tay River at Port Elmsley, representing 4% of the samples at this location; three samples from Station TAY-11 – Tay River upstream of Tay Marsh, representing 13% of the samples from this location; and one sample from Station WES-01 – Westport Dam, representing 6% of the samples from this location). The remaining RVCA surface water monitoring samples (53 sites, 1,151 samples in total) were found to be within the PWQO pH range.

The following samples from the City of Ottawa Baseline Water Quality monitoring program were found to exceed the PWQO for pH:

- 1 of 70 samples (1%) from station CK5-01 – Shirley's Brook, Fourth Line Rd.;
- 1 of 66 samples (2%) from station CK5-07 – Shirley's Brook, Hines Rd.;
- 6 of 57 samples (11%) from station CK6-001 – Watts Creek, Shirley Blvd.;
- 1 of 74 samples (1%) from station CK6-312 – Watts Creek, Corkstown Rd. W.;
- 1 of 63 samples (2%) from station CK7-01 – Stillwater Creek, Carling Ave.;
- 1 of 67 samples (67%) from station CK8-35 – Graham Creek, Siskin Crt.;
- 3 of 54 samples (6%) from station CK25-001 – Beckets Creek, Hwy. 17;
- 1 of 53 samples (2%) from station CK64-02 – Casey Creek, Dunrobin Rd.;
- 1 of 59 samples (2%) from station CK65-04 – Harwood Creek, Dunrobin Rd.;
- 10 of 38 samples (26%) from station CLL-01 – Constance Lake, 0.5 km from boat launch;
- 3 of 34 samples (9%) from station CRS-101A – Rideau Canal, Rideau St.;
- 4 of 40 samples (10%) from station CRS-105B – Rideau Canal, Bronson St.;
- 7 of 38 samples (18%) from station MKL-01 – MacKay Lake, NW portion of lake;
- 10 of 39 samples (26%) from station MUDLK-03 – Mud Lake, W part of lake; and
- 13 of 60 samples (22%) from station R010-01 – Carp River, Carp Rd.

The remaining City of Ottawa Baseline Water Quality monitoring program samples (85 sites, 4914 samples in total) were found to be below the PWQO criterion for pH.

Total Kjeldhal Nitrogen

The following samples from the PWQMN program within the MVC were found to exceed the Environment Canada (EC) guideline of 0.5 mg/L for TKN:

- 26 of 33 samples (79%) from Station 18337010102 – Carp River, downstream of Carp;
- 29 of 33 samples (88%) from Station 18337012102 – Carp River, downstream of Kinburn;
- 10 of 35 samples (29%) from Station 18343052002 – Clyde River, downstream of Lanark;
- 11 of 33 samples (33%) from Station 18343053002 – Clyde River, Kerr Lake outlet;
- 2 of 36 samples (6%) from Station 18343017502 – Mississippi River, Dalhousie Lake outlet;
- 14 of 36 samples (39%) from Station 18343061002 – Fall River, Bennett Lake outlet;
- 11 of 31 samples (35%) from Station 18343003002 – Mississippi River at Galetta;
- 13 of 36 samples (36%) from Station 18343003402 – Mississippi River, downstream of Pakenham;
- 12 of 36 samples (33%) from Station 18343004002 – Mississippi River at Almonte;
- 7 of 36 samples (19%) from Station 18343006102 – Mississippi River at Appleton; and
- 2 of 36 samples (6%) from Station 18343023002 – Mississippi River, Mazinaw Lake outlet.

The remaining PWQMN samples within the MVC (11 sites, 244 samples in total) were found to be below the TKN EC guideline. The following samples from the PWQMN program within the RVCA were found to exceed the EC guideline of 0.5 mg/L for TKN:

- 28 of 29 samples (97%) from Station 18003303602 – Jock River at Moodie Dr.;
- 27 of 30 samples (90%) from Station 18003300302 – Kemptville Creek at County Rd. 43;
- 27 of 30 samples (90%) from Station 18003302902 – Rideau River at Kars;
- 27 of 30 samples (90%) from Station 18003303102 – Rideau River at Hogs Back Rd.;
- 26 of 30 samples (87%) from Station 18003303402 – Rideau River at St. Patrick St.;
- 28 of 30 samples (93%) from Station 18003303702 – Rideau River at Long Island;
- 22 of 30 samples (73%) from Station 18003302602 – Rideau River at Kilmarnock;
- 26 of 30 samples (87%) from Station 18003303502 – Rideau River at Andrewsville; and
- 22 of 28 samples (79%) from Station 18003300802 – Tay River at Tay Marsh.

The remaining PWQMN samples within the RVCA (10 sites, 55 samples in total) were found to be below the TKN EC guideline. All PWQMN samples on the Ottawa River (one site, 42 samples in total) were found to be below the TKN EC guideline.

The following samples from the RVCA surface water monitoring program were found to exceed the EC guideline of 0.5 mg/L for TKN:

- 18 of 18 samples (100%) from Station ADR-01 – Adrians Creek near County Rd. 42;
- 30 of 30 samples (100%) from Station ARC-01 – Arcand Drain at County Rd. 19;
- 32 of 32 samples (100%) from Station BAR-01 – Barbers Creek at County Rd. 16;
- 20 of 22 samples (91%) from Station BLA-01 – Black Creek in Murphys Point Provincial Park;
- 25 of 32 samples (78%) from Station BRA-01 – Brassils Creek at Donnelly Dr.;
- 31 of 31 samples (100%) from Station BRN-03 – Barnes Creek at Kemptville;
- 31 of 31 samples (100%) from Station COC-02 – Cockburn Creek at Highway 43;
- 29 of 31 samples (94%) from Station DAL-01 – Dales Creek at County Rd. 23;
- 11 of 21 samples (52%) from Station EAG-01 – Eagle Creek, upstream of Bobs Lake;
- 5 of 7 samples (71%) from Station FIS-01 – Fish Creek;
- 18 of 22 samples (82%) from Station FIS-03 – Fish Creek at County Rd. 38;

- 12 of 13 samples (92%) from Station FIS-A – Fish Creek upstream of Bobs Lake;
- 28 of 32 samples (88%) from Station GRT-01 – Grants Creek at Glen Tay Rd.;
- 22 of 32 samples (69%) from Station GRT-02 – Grants Creek at Upper Scotch Line;
- 13 of 32 samples (41%) from Station GRT-03 – Grants Creek at County Rd. 10;
- 8 of 32 samples (25%) from Station GRT-04 – Grants Creek at Pike Lake Dam;
- 11 of 17 samples (65%) from Station GRT-05 – Grants Creek downstream of Upper Scotch Line;
- 28 of 29 samples (97%) from Station HUT-02 – Hutton Creek at Townline Rd.;
- 27 of 31 samples (87%) from Station IRI-02 – Irish Creek at County Rd. 15;
- 28 of 31 samples (90%) from Station JEB-01 – Jebbs Creek at County Rd. 1;
- 31 of 32 samples (97%) from Station KEM-01 – Kemptville Creek at Hwy. 43;
- 31 of 32 samples (97%) from Station KEM-04 – Kemptville Creek at Hurd St.;
- 29 of 32 samples (91%) from Station KEM-06 – Kemptville Creek at County Rd. 18;
- 31 of 32 samples (97%) from Station KEM-07 – Kemptville Creek at Oxford Mills;
- 22 of 24 samples (92%) from Station KEM-08 – Kemptville Creek at Pattersons Corners;
- 30 of 32 samples (94%) from Station KEM-09 – Kemptville Creek at County Rd. 20;
- 29 of 32 samples (91%) from Station KEM-10 – Kemptville Creek at Limerick Rd;
- 29 of 32 samples (91%) from Station KEM-11 – Kemptville Creek at Garretton;
- 20 of 24 samples (83%) from Station KEM-14 – Kemptville Creek at Kyle Rd.;
- 20 of 23 samples (87%) from Station KEM-16 – Kemptville Creek upstream of North Augusta;
- 29 of 29 samples (100%) from Station MCD-02 – McDermott Drain at County Rd. 19;
- 20 of 21 samples (91%) from Station MCD-03 – McDermott Drain at County Rd. 19;
- 26 of 30 samples (87%) from Station MUR-01 – Murphy Drain at County Rd. 22;
- 21 of 24 samples (87%) from Station NKE-02 – North Kemptville Creek at Bishops Mills;
- 22 of 24 samples (88%) from Station NKE-06 – North Kemptville Creek, downstream of Cranberry Lake;
- 29 of 31 samples (94%) from Station OTT-01 – Otter Creek at Highway 29;
- 26 of 31 samples (84%) from Station RCK-01 – Rideau Creek at Donnelly Dr.;
- 29 of 31 samples (94%) from Station ROS-01 – Rosedale Creek at Highway 43;
- 27 of 28 samples (96%) from Station RUD-01 – Ruddsdale Creek at Christie Lake Rd.;
- 17 of 17 samples (100%) from Station SHE-01 – Sheldons Creek at Old Kingston Rd.;
- 2 of 22 samples (9%) from Station SNY-01 – Scotts Snye at Upper Scotch Line;
- 11 of 21 samples (52%) from Station STU-01 – Stub Creek at Babcock Rd.;
- 24 of 32 samples (75%) from Station TAY-01 – Tay River at Port Elmsley;
- 12 of 32 samples (38%) from Station TAY-04 – Tay River at Rogers Rd.;
- 9 of 33 samples (27%) from Station TAY-05 – Tay River at Glen Tay;
- 11 of 34 samples (32%) from Station TAY-08 – Tay River at Gore St.;
- 24 of 32 samples (75%) from Station TAY-11 – Tay River upstream of Tay Marsh;
- 1 of 31 samples (3%) from Station TAY-15 – Tay River downstream of Christie Lake;
- 1 of 31 samples (3%) from Station TAY-16 – Tay River at Bolingbroke;
- 14 of 32 samples (44%) from Station TAY-19 – Tay River at Craig St.;
- 16 of 17 samples (94%) from Station UEN-01 – Uens Creek at Babcock Rd.; and
- 8 of 17 samples (47%) from Station WES-01 – Westport Dam.

The remaining samples from the RVCA surface water monitoring program (47 sites, 373 samples in total) were found to be below the TKN EC guideline.

The following samples from the RVCA watershed watch lake monitoring program were found to exceed the EC guideline of 0.5 mg/L for TKN:

- 74 of 234 samples (32%) from Station RVL-01 – Pike Lake;
- 5 of 14 samples (36%) from Station RVL-02 – O'Brien Lake;
- 1 of 48 samples (2%) from Station RVL-03 – Farren Lake;
- 4 of 54 samples (7%) from Station RVL-04 – Crosby Lake;
- 3 of 19 samples (16%) from Station RVL-05 – Little Crosby Lake;
- 2 of 25 samples (8%) from Station RVL-06 – Davern Lake;
- 10 of 61 samples (16%) from Station RVL-07 – Little Silver Lake;
- 16 of 18 samples (89%) from Station RVL-08 – Rainbow Lake;
- 2 of 57 samples (4%) from Station RVL-09 – Eagle Lake;
- 40 of 63 samples (63%) from Station RVL-10 – Otty Lake;
- 130 of 214 samples (61%) from Station RVL-11 – Black Lake;
- 3 of 34 samples (9%) from Station RVL-12 – Burridge Lake;
- 5 of 101 samples (5%) from Station RVL-13 – Long Lake (East);
- 16 of 48 samples (33%) from Station RVL-14 – Westport Sand Lake;
- 5 of 35 samples (14%) from Station RVL-16 – Bobs Lake, Buck Bay;
- 5 of 91 samples (5%) from Station RVL-17 – Bobs Lake, Green Bay;
- 12 of 95 samples (13%) from Station RVL-18 – Bobs Lake, West Basin;
- 7 of 39 samples (18%) from Station RVL-19 – Bobs Lake, Mud Bay;
- 2 of 37 samples (5%) from Station RVL-20 – Bobs Lake, Norris Bay;
- 5 of 61 samples (8%) from Station RVL-21 – Bobs Lake, East Basin, Long Bay;
- 20 of 22 samples (91%) from Station RVL-23 – Bobs Lake, Mill Bay;
- 2 of 143 samples (1%) from station RVL-25 – Christie Lake;
- 7 of 72 samples (10%) from Station RVL-26 – Otter Lake;
- 1 of 94 samples (1%) from Station RVL-27 – Wolfe Lake;
- 1 of 58 samples (2%) from Station RVL-28 – Leggatt Lake;
- 44 of 66 samples (67%) from Station RVL-29 – Long Lake (West);
- 36 of 53 samples (68%) from Station RVL-30 – Elbow Lake;
- 54 of 54 samples (100%) from Station RVL-31 – Carnahan Lake;
- 11 of 72 samples (15%) from Station RVL-32 – Adam Lake;
- 2 of 54 samples (4%) from Station RVL-33 – Round Lake;
- 34 of 39 samples (87%) from Station RVL-34 – Loon Lake;
- 7 of 91 samples (8%) from Station RVL-35 – Bass Lake;
- 11 of 36 samples (31%) from Station RVL-36 – Big Rideau Lake, Hoggs Bay;
- 23 of 107 samples (21%) from Station RVL-37 – Upper Rideau Lake;
- 51 of 328 samples (16%) from Station RVL-38 – Lower Rideau Lake; and
- 20 of 272 samples (7%) from Station RVL-39 – Big Rideau Lake.

The remaining samples from the RVCA watershed watch lake monitoring program (37 sites, 2,356 samples in total) were found to be below the TKN EC guideline.

The following samples from the City of Ottawa Baseline Water Quality monitoring program were found to exceed the EC guideline for TKN:

- 49 of 55 samples (89%) from station CK3-01 – Cody Creek, Hansen Side Rd.;
- 24 of 24 samples (100%) from station CK3-03 – Cody Creek, Hwy. 44;
- 28 of 32 samples (88%) from station CK3-04 – Cody Creek, March Rd.;
- 54 of 59 samples (92%) from station CK4-02 – Constance Creek, Vances Side Rd.;
- 33 of 70 samples (47%) from station CK5-01 – Shirley's Brook, Fourth Line Rd.;

- 23 of 66 samples (35%) from station CK5-07 – Shirley's Brook, Hines Rd.;
- 42 of 57 samples (74%) from station CK6-001 – Watts Creek, Shirley Blvd.;
- 19 of 74 samples (26%) from station CK6-312 – Watts Creek, Corkstown Rd.;
- 56 of 63 samples (89%) from station CK7-01 – Stillwater Creek, Carling Ave.;
- 25 of 73 samples (34%) from station CK8-01 – Graham Creek, Carling Ave.;
- 33 of 67 samples (49%) from station CK8-35 – Graham Creek, Siskin Crt.;
- 18 of 67 samples (27%) from station CK9-I – Pinecrest Creek, Ottawa River Pkwy.;
- 47 of 66 samples (71%) from station CK13-01 – Black Rapids Creek, 230 m upstream of Rideau River;
- 59 of 78 samples (76%) from station CK14-14 – Nepean Creek, downstream of Fisher Glen STF;
- 46 of 83 samples (55%) from station CK18-03-00 – Sawmill Creek, NE tributary, Lester Rd. & Albion Rd.;
- 58 of 81 samples (72%) from station CK18-J – Sawmill Creek, Johnston Rd.;
- 53 of 78 samples (70%) from station CK18-M – Sawmill Creek, Brookfield Rd.;
- 50 of 69 samples (72%) from station CK18-Q – Sawmill Creek, Riverside Dr.;
- 34 of 50 samples (68%) from station CK18-S – Sawmill Creek, Walkley Rd. & Airport Pkwy.;
- 47 of 70 samples (67%) from station CK19-01 – Hunt Club Creek, Riverside Dr.;
- 39 of 74 samples (53%) from station CK19-10 – Hunt Club Creek, Country Club Rd.;
- 4 of 81 samples (5%) from station CK19-12 – Hunt Club Creek, DeNiverville Dr.;
- 64 of 67 samples (96%) from station CK20-10 – Mosquito Creek, Leitrim Rd.;
- 60 of 61 samples (98%) from station CK20-16 – Mosquito Creek, Limebank Rd.;
- 52 of 57 samples (91%) from station CK20-22 – Mosquito Creek, Rideau Rd.;
- 66 of 67 samples (99%) from station CK21-002 – Greens Creek, Montreal Rd.;
- 61 of 67 samples (91%) from station CK21-003 – Greens Creek, Innes Rd.;
- 56 of 56 samples (100%) from station CK21-009 – Greens Creek, downstream of Ramsay Creek;
- 54 of 54 samples (100%) from station CK21-502 – Black Creek, Anderson Rd.;
- 42 of 71 samples (59%) from station CK22-001 – Bilberry Creek, Bilberry Dr. N.;
- 31 of 68 samples (46%) from station CK23-001 – Taylor Creek, North Service Rd.;
- 41 of 61 samples (67%) from station CK24-002 – Cardinal Creek, Old Montreal Rd.;
- 42 of 54 samples (78%) from station CK25-001 – Beckets Creek, Hwy. 17;
- 43 of 72 samples (60%) from station CK35-004 – Voyager Creek, Youville Dr.;
- 46 of 63 samples (73%) from station CK41-01 – Mud Creek, Bankfield Rd.;
- 61 of 67 samples (91%) from station CK42-04 – Stevens Creek, Church St.;
- 63 of 63 samples (100%) from station CK42-05-03 – Taylor Drain, Fourth Line Rd.;
- 60 of 62 samples (97%) from station CK42-06 – Stevens Creek, Second Line Rd.;
- 39 of 62 samples (63%) from station CK42-07 – Stevens Creek, Roger Stevens Rd.;
- 60 of 60 samples (100%) from station CK43-02 – Cranberry Creek, Third Line Rd. S.;
- 48 of 77 samples (62%) from station CK44-02 – Brassils Creek, Dwyer Hill Rd.;
- 72 of 86 samples (84%) from station CK53-06 – Kemptville Creek, Prescott St.;
- 46 of 53 samples (87%) from station CK64-02 – Casey Creek, Dunrobin Rd.;
- 31 of 59 samples (53%) from station CK65-04 – Harwood Creek, Dunrobin Rd.;
- 61 of 62 samples (98%) from station CK67-001 – Flowing Creek, Perth Rd.;
- 66 of 78 samples (85%) from station CK70-05 – Poole Creek, Stittsville Main St.;
- 39 of 39 samples (100%) from station CLL-01 – Constance Lake, 500 m from boat launch;

- 34 of 34 samples (100%) from station CRS-101A – Rideau Canal, Rideau St.;
- 40 of 40 samples (100%) from station CRS-105B – Rideau Canal, Bronson St.;
- 67 of 72 samples (93%) from station JR-01 – Jock River, Prince of Wales Dr.;
- 71 of 75 samples (95%) from station JR-02 – Jock River, Jockvale Rd.;
- 64 of 68 samples (94%) from station JR-05 – Jock River, Moodie Dr.;
- 53 of 57 samples (93%) from station JR-12 – Jock River, Ottawa St.;
- 62 of 65 samples (95%) from station JR-20 – Jock River, Bleeks Side Rd.;
- 37 of 38 samples (97%) from station MKL-01 – MacKay Lake, NW portion of lake;
- 39 of 39 samples (100%) from station MUDLK-03 – Mud Lake, W park of lake;
- 1 of 41 samples (2%) from station ORS-430.10 – Ottawa River, Upper Duck Island;
- 1 of 41 samples (2%) from station ORS-430.70 – Ottawa River, Kettle Island;
- 2 of 24 samples (8%) from station ORS-450.10 – Ottawa River, Hiawatha; 100 m from Ontario shore;
- 3 of 24 samples (13%) from station ORS-450.20 – Ottawa River, Hiawatha, 170 m from Ontario shore;
- 1 of 24 samples (4%) from station ORS-450.30 – Ottawa River, Hiawatha, 170 m from Quebec shore;
- 2 of 24 samples (8%) from station ORS-450.40 – Ottawa River, Hiawatha, 100 m from Quebec shore;
- 8 of 40 samples (20%) from station ORS-500.10 – Ottawa River, Petrie Island, 150 m from Ontario shore;
- 2 of 41 samples (5%) from station ORS-500.20 – Ottawa River, Petrie Island, midway between ORS-500.10 and mid channel;
- 40 of 82 samples (49%) from station R9-01 – Mississippi River, Galetta Side Rd.;
- 57 of 60 samples (95%) from station R010-01 – Carp River, Carp Rd.;
- 58 of 60 samples (97%) from station R010-06 – Carp River, Craig Side Rd.;
- 59 of 60 samples (98%) from station R010-09 – Carp River, Richardson Side Rd.;
- 57 of 58 samples (98%) from station R010-14 – Carp River, John Shaw Rd.;
- 62 of 67 samples (93%) from station RRS-103C – Rideau River, St. Patrick St.;
- 75 of 83 samples (89%) from station RRS-108C – Rideau River, Bank St.;
- 4 of 4 samples (100%) from station RRS-117B – Rideau River, downstream of Black Rapids Dam;
- 55 of 57 samples (97%) from station RRS-118A – Rideau River, Black Rapids Dam, open dam channel;
- 59 of 62 samples (95%) from station RRS-118B – Rideau River, Black Rapids Dam, centre sluice;
- 65 of 69 samples (94%) from station RRS-119B – Rideau River, Long Island Locks;
- 78 of 86 samples (91%) from station RRS-119C – Rideau River, Barnsdale Rd.;
- 60 of 66 samples (91%) from station RRS-121C – Rideau River, Roger Stevens Rd.;
- 70 of 88 samples (80%) from station RRS-124B – Rideau River, Burritts Rapids;
- 37 of 37 samples (100%) from station RRS-167B – Rideau River, Mooney's Bay

The remaining City of Ottawa Baseline Water Quality monitoring program samples (74 sites, 1512 samples in total) were found to be below the EC guideline for TKN.

Total Phosphorus

The following samples from the PWQMN program within the MVC were found to exceed the PWQO criterion of 0.03 mg/L for total phosphorus:

- 28 of 33 samples (85%) from Station 18337010102 – Carp River, downstream of Carp;

- 28 of 33 samples (85%) from Station 18337012102 – Carp River, downstream of Kinburn;
- 1 of 35 samples (3%) from Station 18343052002 – Clyde River, downstream of Lanark;
- 1 of 33 samples (3%) from Station 18343053002 – Clyde River, Kerr Lake outlet;
- 3 of 31 samples (10%) from Station 18343003002 – Mississippi River at Galetta;
- 1 of 36 samples (3%) from Station 18343003402 – Mississippi River, downstream of Pakenham;
- 1 of 36 samples (3%) from Station 18343006102 – Mississippi River at Appleton; and
- 2 of 36 samples (6%) from Station 18343023002 – Mississippi River, Mazinaw Lake outlet.

The remaining PWQMN samples within the MVC (11 sites, 316 samples in total) were found to be below the PWQO total phosphorus criterion. The following samples from the PWQMN program within the RVCA were found to exceed the PWQO criteria for total phosphorus:

- 20 of 30 samples (67%) from Station 18003303602 – Jock River at Moodie Dr.;
- 13 of 30 samples (43%) from Station 18003300302 – Kemptville Creek at County Rd. 43;
- 12 of 30 samples (38%) from Station 18003302902 – Rideau River at Kars;
- 16 of 30 samples (53%) from Station 18003303102 – Rideau River at Hogs Back Rd.;
- 14 of 30 samples (47%) from Station 18003303402 – Rideau River at St. Patrick St.;
- 13 of 30 samples (43%) from Station 18003303702 – Rideau River at Long Island;
- 6 of 30 samples (20%) from Station 18003302602 – Rideau River at Kilmarnock;
- 6 of 30 samples (20%) from Station 18003303502 – Rideau River at Andrewsville; and
- 4 of 28 samples (14%) from Station 18003300802 – Tay River at Tay Marsh.

The remaining PWQMN samples within the RVCA (10 sites, 194 samples in total) were found to be below the PWQO total phosphorus criterion. All PWQMN samples on the Ottawa River (one site, 42 samples in total) were found to be below the PWQO total phosphorus criterion.

The following samples from the MVC watershed watch lake monitoring program were found to exceed the PWQO criterion for total phosphorus:

- 2 of 11 samples (18%) from Station 18343070801 – Grindstone Lake, North Basin;
- 1 of 11 samples (9%) from Station 18343070901 – Grindstone Lake, South Basin;
- 1 of 8 samples (13%) from Station 19343075001 – Flower Round Lake;
- 2 of 17 samples (12%) from Station 18343074301 – Palmerston Lake (North & South Basins);
- 3 of 8 samples (38%) from Station 19343076501 – Paddys Lake;
- 1 of 8 samples (13%) from Station 19343075901 – Upper Park Lake;
- 1 of 8 samples (13%) from Station 19343070101 – Robertson Lake;
- 2 of 9 samples (22%) from Station 19343003601 – Sunday Lake;
- 1 of 17 samples (6%) from Station 18343072701 – Bennett Lake (North & South Basins);
- 2 of 9 samples (22%) from Station 18343073301 – Crotch Lake (North Basin);
- 1 of 9 samples (11%) from Station 18343073201 – Crotch Lake (South Basin);
- 1 of 9 samples (11%) from Station 18343070701 – Fawn Lake; and
- 4 of 26 samples (15%) from Station 18343071901 – Mosque Lake (North, South & West Basins).

The remaining MVC watershed watch samples (43 sites, 324 samples in total) were found to be below the PWQO criteria for total phosphorus.

The following samples from the RVCA surface water monitoring program were found to exceed the PWQO criterion of 0.03 mg/L for total phosphorus:

- 14 of 18 samples (78%) from Station ADR-01 – Adrians Creek near County Rd. 42;
- 23 of 28 samples (82%) from Station ARC-01 – Arcand Drain at County Rd. 19;
- 21 of 32 samples (66%) from Station BAR-01 – Barbers Creek at County Rd. 16;
- 11 of 22 samples (50%) from Station BLA-01 – Black Creek in Murphys Point Provincial Park;
- 2 of 31 samples (6%) from Station BRA-01 – Brassils Creek at Donnelly Dr.;
- 27 of 31 samples (87%) from Station BRN-03 – Barnes Creek at Kemptville;
- 21 of 31 samples (68%) from Station COC-02 – Cockburn Creek at Highway 43;
- 9 of 32 samples (28%) from Station DAL-01 – Dales Creek at County Rd. 23;
- 8 of 21 samples (38%) from Station EAG-01 – Eagle Creek, upstream of Bobs Lake;
- 2 of 7 samples (29%) from Station FIS-01 – Fish Creek;
- 13 of 22 samples (59%) from Station FIS-03 – Fish Creek at County Rd. 38;
- 4 of 13 samples (31%) from Station FIS-A – Fish Creek upstream of Bobs Lake;
- 25 of 32 samples (78%) from Station GRT-01 – Grants Creek at Glen Tay Rd.;
- 12 of 32 samples (38%) from Station GRT-02 – Grants Creek at Upper Scotch Line;
- 2 of 32 samples (6%) from Station GRT-03 – Grants Creek at County Rd. 10;
- 1 of 32 samples (3%) from Station GRT-04 – Grants Creek at Pike Lake Dam;
- 9 of 17 samples (53%) from Station GRT-05 – Grants Creek downstream of Upper Scotch Line;
- 21 of 29 samples (72%) from Station HUT-02 – Hutton Creek at Townline Rd.;
- 3 of 31 samples (10%) from Station IRI-02 – Irish Creek at County Rd. 15;
- 2 of 31 samples (6%) from Station JEB-01 – Jebbs Creek at County Rd. 1;
- 17 of 32 samples (53%) from Station KEM-01 – Kemptville Creek at Hwy. 43;
- 1 of 32 samples (3%) from Station KEM-07 – Kemptville Creek at Oxford Mills;
- 2 of 24 samples (8%) from Station KEM-08 – Kemptville Creek at Pattersons Corners;
- 11 of 32 samples (34%) from Station KEM-09 – Kemptville Creek at County Rd. 20;
- 12 of 32 samples (38%) from Station KEM-10 – Kemptville Creek at Limerick Rd;
- 17 of 32 samples (53%) from Station KEM-11 – Kemptville Creek at Garretton;
- 12 of 24 samples (50%) from Station KEM-14 – Kemptville Creek at Kyle Rd.;
- 4 of 23 samples (17%) from Station KEM-16 – Kemptville Creek upstream of North Augusta;
- 29 of 29 samples (100%) from Station MCD-02 – McDermott Drain at County Rd. 19;
- 20 of 21 samples (95%) from Station MCD-03 – McDermott Drain at County Rd. 19;
- 21 of 30 samples (70%) from Station MUR-01 – Murphy Drain at County Rd. 22;
- 1 of 24 samples (4%) from Station NKE-02 – North Kemptville Creek at Bishops Mills;
- 1 of 24 samples (4%) from Station NKE-06 – North Kemptville Creek, downstream of Cranberry Lake;
- 25 of 31 samples (81%) from Station OTT-01 – Otter Creek at Highway 29;
- 3 of 31 samples (10%) from Station RCK-01 – Rideau Creek at Donnelly Dr.;
- 25 of 31 samples (81%) from Station ROS-01 – Rosedale Creek at Highway 43;
- 10 of 28 samples (36%) from Station RUD-01 – Ruddsdale Creek at Christie Lake Rd.;
- 12 of 17 samples (71%) from Station SHE-01 – Sheldons Creek at Old Kingston Rd.;
- 6 of 21 samples (29%) from Station STU-01 – Stub Creek at Babcock Rd.;
- 2 of 32 samples (6%) from Station TAY-01 – Tay River at Port Elmsley;
- 1 of 32 samples (3%) from Station TAY-04 – Tay River at Rogers Rd.;
- 1 of 32 samples (3%) from Station TAY-05 – Tay River at Glen Tay;
- 5 of 32 samples (16%) from Station TAY-11 – Tay River upstream of Tay Marsh;
- 1 of 31 samples (3%) from Station TAY-16 – Tay River at Bolingbroke;

- 6 of 17 samples (35%) from Station UEN-01 – Uens Creek at Babcock Rd.; and
- 2 of 17 samples (12 %) from Station WES-01 – Westport Dam.

The remaining samples from the RVCA surface water monitoring program (53 sites, 973 samples in total) were found to be below the PWQO total phosphorus criterion.

The following samples from the RVCA watershed watch lake monitoring program were found to exceed the PWQO total phosphorus criterion of 0.03 mg/L:

- 9 of 235 samples (4%) from Station RVL-01 – Pike Lake;
- 1 of 19 samples (5%) from Station RVL-05 – Little Crosby Lake;
- 3 of 61 samples (5%) from Station RVL-07 – Little Silver Lake;
- 1 of 18 samples (6%) from Station RVL-08 – Rainbow Lake;
- 3 of 63 samples (5%) from Station RVL-10 – Otty Lake;
- 8 of 214 samples (4%) from Station RVL-11 – Black Lake;
- 2 of 101 samples (2%) from Station RVL-13 – Long Lake (East);
- 2 of 48 samples (4%) from Station RVL-14 – Westport Sand Lake;
- 1 of 91 samples (1%) from Station RVL-17 – Bobs Lake, Green Bay;
- 1 of 95 samples (1%) from Station RVL-18 – Bobs Lake, West Basin;
- 1 of 37 samples (3%) from Station RVL-20 – Bobs Lake, Norris Bay;
- 2 of 61 samples (3%) from Station RVL-21 – Bobs Lake, East Basin, Long Bay;
- 3 of 22 samples (14%) from Station RVL-23 – Bobs Lake, Mill Bay;
- 1 of 72 samples (1%) from Station RVL-26 – Otter Lake;
- 1 of 58 samples (2%) from Station RVL-28 – Leggatt Lake;
- 4 of 66 samples (6%) from Station RVL-29 – Long Lake (West);
- 3 of 53 samples (6%) from Station RVL-30 – Elbow Lake;
- 8 of 54 samples (15%) from Station RVL-31 – Carnahan Lake;
- 1 of 72 samples (1%) from Station RVL-32 – Adam Lake;
- 1 of 54 samples (2%) from Station RVL-33 – Round Lake;
- 2 of 39 samples (5%) from Station RVL-34 – Loon Lake;
- 1 of 91 samples (1%) from Station RVL-35 – Bass Lake;
- 5 of 36 samples (14%) from Station RVL-36 – Big Rideau Lake, Hoggs Bay;
- 25 of 107 samples (23%) from Station RVL-37 – Upper Rideau Lake;
- 14 of 328 samples (4%) from Station RVL-38 – Lower Rideau Lake; and
- 9 of 272 samples (3%) from Station RVL-39 – Big Rideau Lake.

The remaining samples from the RVCA watershed watch lake monitoring program (38 sites, 2,916 samples in total) were found to be below the PWQO total phosphorus criterion.

The following samples from the City of Ottawa Baseline Water Quality monitoring program were found to exceed the PWQO criterion for total phosphorus:

- 47 of 55 samples (85%) from station CK3-01 – Cody Creek, Hansen Side Rd.;
- 5 of 24 samples (21%) from station CK3-03 – Cody Creek, Hwy. 44;
- 39 of 58 samples (67%) from station CK4-02 – Constance Creek, Vances Side Rd.;
- 41 of 69 samples (60%) from station CK5-01 – Shirley's Brook, Fourth Line Rd.;
- 50 of 65 samples (77%) from station CK5-07 – Shirley's Brook, Hines Rd.;
- 53 of 56 samples (95%) from station CK6-001 – Watts Creek, Shirley Blvd.;
- 42 of 73 samples (58%) from station CK6-312 – Watts Creek, Corkstown Rd.;
- 51 of 62 samples (82%) from station CK7-01 – Stillwater Creek, Carling Ave.;
- 41 of 72 samples (60%) from station CK8-01 – Graham Creek, Carling Ave.;
- 53 of 67 samples (79%) from station CK8-35 – Graham Creek, Siskin Crt.;

- 30 of 66 samples (45%) from station CK9-I – Pinecrest Creek, Ottawa River Pkwy.;
- 53 of 65 samples (82%) from station CK13-01 – Black Rapids Creek, 230 m upstream of Rideau River;
- 71 of 78 samples (91%) from station CK14-14 – Nepean Creek, downstream of Fisher Glen STF;
- 28 of 81 samples (35%) from station CK18-03-00 – Sawmill Creek, NE tributary, Lester Rd. & Albion Rd.;
- 70 of 79 samples (89%) from station CK18-J – Sawmill Creek, Johnston Rd.;
- 56 of 76 samples (74%) from station CK18-M – Sawmill Creek, Brookfield Rd.;
- 58 of 67 samples (87%) from station CK18-Q – Sawmill Creek, Riverside Dr.;
- 31 of 48 samples (65%) from station CK18-S – Sawmill Creek, Walkley Rd. & Airport Pkwy.;
- 54 of 68 samples (79%) from station CK19-01 – Hunt Club Creek, Riverside Dr.;
- 52 of 72 samples (72%) from station CK19-10 – Hunt Club Creek, Country Club Rd.;
- 11 of 79 samples (14%) from station CK19-12 – Hunt Club Creek, DeNiverville Dr.;
- 60 of 65 samples (92%) from station CK20-10 – Mosquito Creek, Leitrim Rd.;
- 58 of 59 samples (98%) from station CK20-16 – Mosquito Creek, Limebank Rd.;
- 47 of 55 samples (85%) from station CK20-22 – Mosquito Creek, Rideau Rd.;
- 66 of 66 samples (100%) from station CK21-002 – Greens Creek, Montreal Rd.;
- 61 of 66 samples (92%) from station CK21-003 – Greens Creek, Innes Rd.;
- 56 of 56 samples (100%) from station CK21-009 – Greens Creek, downstream of Ramsay Creek;
- 52 of 54 samples (96%) from station CK21-502 – Black Creek, Anderson Rd.;
- 67 of 69 samples (97%) from station CK22-001 – Bilberry Creek, Bilberry Dr. N.;
- 63 of 68 samples (93%) from station CK23-001 – Taylor Creek, North Service Rd.;
- 58 of 60 samples (97%) from station CK24-002 – Cardinal Creek, Old Montreal Rd.;
- 53 of 53 samples (100%) from station CK25-001 – Beckets Creek, Hwy. 17;
- 46 of 71 samples (65%) from station CK35-004 – Voyager Creek, Youville Dr.;
- 38 of 61 samples (62%) from station CK41-01 – Mud Creek, Bankfield Rd.;
- 42 of 64 samples (66%) from station CK42-04 – Stevens Creek, Church St.;
- 46 of 61 samples (75%) from station CK42-05-03 – Taylor Drain, Fourth Line Rd.;
- 49 of 59 samples (83%) from station CK42-06 – Stevens Creek, Second Line Rd.;
- 2 of 60 samples (3%) from station CK42-07 – Stevens Creek, Roger Stevens Rd.;
- 53 of 58 samples (91%) from station CK43-02 – Cranberry Creek, Third Line Rd. S.;
- 12 of 84 samples (14%) from station CK53-06 – Kemptville Creek, Prescott St.;
- 52 of 52 samples (100%) from station CK64-02 – Casey Creek, Dunrobin Rd.;
- 42 of 58 samples (72%) from station CK65-04 – Harwood Creek, Dunrobin Rd.;
- 54 of 60 samples (90%) from station CK67-001 – Flowing Creek, Perth Rd.;
- 27 of 77 samples (35%) from station CK70-05 – Poole Creek, Stittsville Main St.;
- 13 of 37 samples (35%) from station CLL-01 – Constance Lake, 500 m from boat launch;
- 31 of 35 samples (89%) from station CRS-101A – Rideau Canal, Rideau St.;
- 34 of 41 samples (83%) from station CRS-105B – Rideau Canal, Bronson St.;
- 40 of 71 samples (56%) from station JR-01 – Jock River, Prince of Wales Dr.;
- 45 of 74 samples (61%) from station JR-02 – Jock River, Jockvale Rd.;
- 50 of 67 samples (75%) from station JR-05 – Jock River, Moodie Dr.;
- 26 of 56 samples (46%) from station JR-12 – Jock River, Ottawa St.;
- 30 of 64 samples (47%) from station JR-20 – Jock River, Bleeks Side Rd.;
- 2 of 38 samples (5%) from station MKL-01 – MacKay Lake, NW portion of lake;

- 38 of 39 samples (97%) from station MUDLK-03 – Mud Lake, W park of lake;
- 1 of 24 samples (4%) from station ORS-450.10 – Ottawa River, Hiawatha; 100 m from Ontario shore;
- 2 of 39 samples (5%) from station ORS-500.10 – Ottawa River, Petrie Island, 150 m from Ontario shore;
- 1 of 39 samples (3%) from station ORS-500.50 – Ottawa River, Petrie Island, 150 m from Quebec shore;
- 11 of 81 samples (14%) from station R9-01 – Mississippi River, Galetta Side Rd.;
- 42 of 59 samples (71%) from station R010-01 – Carp River, Carp Rd.;
- 51 of 59 samples (86%) from station R010-06 – Carp River, Craig Side Rd.;
- 49 of 59 samples (83%) from station R010-09 – Carp River, Richardson Side Rd.;
- 54 of 57 samples (95%) from station R010-14 – Carp River, John Shaw Rd.;
- 48 of 66 samples (73%) from station RRS-103C – Rideau River, St. Patrick St.;
- 50 of 82 samples (61%) from station RRS-108C – Rideau River, Bank St.;
- 4 of 4 samples (100%) from station RRS-117B – Rideau River, downstream of Black Rapids Dam;
- 42 of 56 samples (75%) from station RRS-118A – Rideau River, Black Rapids Dam, open dam channel;
- 48 of 61 samples (79%) from station RRS-118B – Rideau River, Black Rapids Dam, centre sluice;
- 37 of 67 samples (55%) from station RRS-119B – Rideau River, Long Island Locks;
- 45 of 83 samples (54%) from station RRS-119C – Rideau River, Barnsdale Rd.;
- 32 of 63 samples (51%) from station RRS-121C – Rideau River, Roger Stevens Rd.;
- 16 of 85 samples (19%) from station RRS-124B – Rideau River, Burritts Rapids;
- 32 of 35 samples (91%) from station RRS-167B – Rideau River, Mooney's Bay

The remaining City of Ottawa Baseline Water Quality monitoring program samples (80 sites, 1966 samples in total) were found to be below the PWQO criterion for total phosphorus.

Total Suspended Solids

The following samples from the PWQMN program within the MVC were found to exceed the SSWQO of 10 mg/L for total suspended solids (TSS):

- 2 of 33 samples (6%) from Station 18337010102 – Carp River, downstream of Carp;
- 8 of 33 samples (24%) from Station 18337012102 – Carp River, downstream of Kinburn;
- 1 of 33 samples (3%) from Station 18343053002 – Clyde River, Kerr Lake outlet; and
- 1 of 36 samples (3%) from Station 18343003402 – Mississippi River, downstream of Pakenham.

The remaining PWQMN samples within the MVC (11 sites, 366 samples in total) were found to be below the SSWQO TSS criterion. The following samples from the PWQMN program within the RVCA were found to exceed the SSWQO criterion of 10 mg/L for TSS:

- 3 of 29 samples (10%) from Station 18003303602 – Jock River at Moodie Dr.;
- 1 of 30 samples (3%) from Station 18003300302 – Kemptville Creek at County Rd. 43; and
- 3 of 30 samples (10%) from Station 18003302602 – Rideau River at Kilmarnock.

The remaining PWQMN samples within the RVCA (10 sites, 291 samples in total) were found to be below the SSWQO TSS criterion. All PWQMN samples on the Ottawa River (one site, 42 samples in total) were found to be below the SSWQO TSS criterion.

The following samples from the RVCA surface water monitoring program were found to exceed the SSWQO criterion of 0.5 mg/L for TSS:

- 7 of 18 samples (39%) from Station ADR-01 – Adrians Creek near County Rd. 42;
- 12 of 28 samples (43%) from Station ARC-01 – Arcand Drain at County Rd. 19;
- 3 of 32 samples (9%) from Station BAR-01 – Barbers Creek at County Rd. 16;
- 20 of 30 samples (67%) from Station BRN-03 – Barnes Creek at Kemptville;
- 1 of 31 samples (3%) from Station DAL-01 – Dales Creek at County Rd. 23;
- 7 of 31 samples (23%) from Station GRT-01 – Grants Creek at Glen Tay Rd.;
- 1 of 16 samples (6%) from Station GRT-05 – Grants Creek downstream of Upper Scotch Line;
- 5 of 29 samples (17%) from Station HUT-02 – Hutton Creek at Townline Rd.;
- 4 of 31 samples (13%) from Station KEM-09 – Kemptville Creek at County Rd. 20;
- 1 of 31 samples (3%) from Station KEM-10 – Kemptville Creek at Limerick Rd;
- 6 of 28 samples (21%) from Station MCD-02 – McDermott Drain at County Rd. 19;
- 5 of 21 samples (24%) from Station MCD-03 – McDermott Drain at County Rd. 19;
- 3 of 30 samples (10%) from Station MUR-01 – Murphy Drain at County Rd. 22;
- 2 of 23 samples (9%) from Station NKE-02 – North Kemptville Creek at Bishops Mills;
- 4 of 31 samples (13%) from Station OTT-01 – Otter Creek at Highway 29;
- 22 of 31 samples (71%) from Station ROS-01 – Rosedale Creek at Highway 43;
- 1 of 17 samples (6%) from Station SHE-01 – Sheldons Creek at Old Kingston Rd.;
- 1 of 32 samples (3%) from Station TAY-19 – Tay River at Craig St.; and
- 1 of 16 samples (6%) from Station WES-01 – Westport Dam.

The remaining samples from the RVCA surface water monitoring program (53 sites, 1,315 samples in total) were found to be below the TSS SSWQO of 10 mg/L.

The following samples from the City of Ottawa Baseline Water Quality monitoring program were found to exceed the SSWQO for TSS:

- 28 of 55 samples (51%) from station CK3-01 – Cody Creek, Hansen Side Rd.;
- 1 of 24 samples (4%) from station CK3-03 – Cody Creek, Hwy. 44;
- 2 of 59 samples (3%) from station CK4-02 – Constance Creek, Vances Side Rd.;
- 33 of 70 samples (47%) from station CK5-01 – Shirley's Brook, Fourth Line Rd.;
- 27 of 66 samples (41%) from station CK5-07 – Shirley's Brook, Hines Rd.;
- 44 of 57 samples (77%) from station CK6-001 – Watts Creek, Shirley Blvd.;
- 35 of 74 samples (47%) from station CK6-312 – Watts Creek, Corkstown Rd.;
- 30 of 63 samples (48%) from station CK7-01 – Stillwater Creek, Carling Ave.;
- 30 of 72 samples (42%) from station CK8-01 – Graham Creek, Carling Ave.;
- 56 of 67 samples (84%) from station CK8-35 – Graham Creek, Siskin Crt.;
- 14 of 67 samples (21%) from station CK9-I – Pinecrest Creek, Ottawa River Pkwy.;
- 28 of 66 samples (42%) from station CK13-01 – Black Rapids Creek, 230 m upstream of Rideau River;
- 45 of 79 samples (57%) from station CK14-14 – Nepean Creek, downstream of Fisher Glen STF;
- 18 of 83 samples (22%) from station CK18-03-00 – Sawmill Creek, NE tributary, Lester Rd. & Albion Rd.;
- 52 of 81 samples (64%) from station CK18-J – Sawmill Creek, Johnston Rd.;
- 45 of 78 samples (58%) from station CK18-M – Sawmill Creek, Brookfield Rd.;
- 47 of 69 samples (68%) from station CK18-Q – Sawmill Creek, Riverside Dr.;

- 11 of 50 samples (22%) from station CK18-S – Sawmill Creek, Walkley Rd. & Airport Pkwy.;
- 18 of 70 samples (26%) from station CK19-01 – Hunt Club Creek, Riverside Dr.;
- 10 of 74 samples (14%) from station CK19-10 – Hunt Club Creek, Country Club Rd.;
- 5 of 81 samples (6%) from station CK19-12 – Hunt Club Creek, DeNiverville Dr.;
- 20 of 67 samples (30%) from station CK20-10 – Mosquito Creek, Leitrim Rd.;
- 21 of 61 samples (34%) from station CK20-16 – Mosquito Creek, Limebank Rd.;
- 14 of 57 samples (25%) from station CK20-22 – Mosquito Creek, Rideau Rd.;
- 61 of 67 samples (91%) from station CK21-002 – Greens Creek, Montreal Rd.;
- 35 of 67 samples (52%) from station CK21-003 – Greens Creek, Innes Rd.;
- 40 of 56 samples (71%) from station CK21-009 – Greens Creek, downstream of Ramsay Creek;
- 8 of 54 samples (15%) from station CK21-502 – Black Creek, Anderson Rd.;
- 51 of 71 samples (72%) from station CK22-001 – Bilberry Creek, Bilberry Dr. N.;
- 25 of 69 samples (36%) from station CK23-001 – Taylor Creek, North Service Rd.;
- 52 of 61 samples (85%) from station CK24-002 – Cardinal Creek, Old Montreal Rd.;
- 25 of 54 samples (46%) from station CK25-001 – Beckets Creek, Hwy. 17;
- 44 of 72 samples (61%) from station CK35-004 – Voyager Creek, Youville Dr.;
- 10 of 63 samples (16%) from station CK41-01 – Mud Creek, Bankfield Rd.;
- 16 of 67 samples (24%) from station CK42-04 – Stevens Creek, Church St.;
- 23 of 63 samples (37%) from station CK42-05-03 – Taylor Drain, Fourth Line Rd.;
- 19 of 62 samples (31%) from station CK42-06 – Stevens Creek, Second Line Rd.;
- 1 of 62 samples (2%) from station CK42-07 – Stevens Creek, Roger Stevens Rd.;
- 8 of 60 samples (13%) from station CK43-02 – Cranberry Creek, Third Line Rd. S.;
- 1 of 86 samples (1%) from station CK53-06 – Kemptville Creek, Prescott St.;
- 45 of 53 samples (85%) from station CK64-02 – Casey Creek, Dunrobin Rd.;
- 8 of 59 samples (14%) from station CK65-04 – Harwood Creek, Dunrobin Rd.;
- 43 of 62 samples (69%) from station CK67-001 – Flowing Creek, Perth Rd.;
- 18 of 78 samples (23%) from station CK70-05 – Poole Creek, Stittsville Main St.;
- 1 of 37 samples (3%) from station CLL-01 – Constance Lake, 500 m from boat launch;
- 1 of 34 samples (3%) from station CRS-101A – Rideau Canal, Rideau St.;
- 4 of 72 samples (6%) from station JR-01 – Jock River, Prince of Wales Dr.;
- 2 of 75 samples (3%) from station JR-02 – Jock River, Jockvale Rd.;
- 4 of 68 samples (6%) from station JR-05 – Jock River, Moodie Dr.;
- 2 of 57 samples (4%) from station JR-12 – Jock River, Ottawa St.;
- 4 of 65 samples (6%) from station JR-20 – Jock River, Bleeks Side Rd.;
- 4 of 38 samples (11%) from station MUDLK-03 – Mud Lake, W park of lake;
- 1 of 41 samples (2%) from station ORS-500.20 – Ottawa River, Petrie Island, midway between ORS-500.10 and mid channel;
- 3 of 82 samples (4%) from station R9-01 – Mississippi River, Galetta Side Rd.;
- 9 of 60 samples (15%) from station R010-01 – Carp River, Carp Rd.;
- 9 of 60 samples (15%) from station R010-06 – Carp River, Craig Side Rd.;
- 19 of 60 samples (32%) from station R010-09 – Carp River, Richardson Side Rd.;
- 20 of 58 samples (35%) from station R010-14 – Carp River, John Shaw Rd.;
- 7 of 68 samples (10%) from station RRS-103C – Rideau River, St. Patrick St.;
- 7 of 84 samples (8%) from station RRS-108C – Rideau River, Bank St.;
- 4 of 58 samples (7%) from station RRS-118A – Rideau River, Black Rapids Dam, open dam channel;

- 11 of 63 samples (18%) from station RRS-118B – Rideau River, Black Rapids Dam, centre sluice;
- 1 of 69 samples (1%) from station RRS-119B – Rideau River, Long Island Locks;
- 8 of 86 samples (9%) from station RRS-119C – Rideau River, Barnsdale Rd.;
- 1 of 66 samples (2%) from station RRS-121C – Rideau River, Roger Stevens Rd.;
- 3 of 88 samples (3%) from station RRS-124B – Rideau River, Burritts Rapids;
- 2 of 37 samples (5%) from station RRS-167B – Rideau River, Mooney's Bay

The remaining City of Ottawa Baseline Water Quality monitoring program samples (85 sites, 3682 samples in total) were found to be below the SSWQO for TSS.

Metals

Copper

One sample from the PWQMN program within the MVC was found to exceed the PWQO criterion of 0.005 mg/L for copper (one sample from Station 18343061002 – Fall River, Bennett Lake outlet, representing 3% of the total samples from this location). The remaining PWQMN samples within the MVC (11 sites, 380 samples in total) were found to be below the PWQO copper criterion. All PWQMN samples within the RVCA (ten sites, 297samples in total) were found to be below the PWQO copper criterion. All PWQMN samples on the Ottawa River (one site, 42 samples in total) were found to be below the PWQO copper criterion.

The following samples from the RVCA surface water monitoring program were found to exceed the PWQO copper criterion of 0.005 mg/L:

- 1 of 18 samples (6%) from Station ADR-01 – Adrians Creek near County Rd. 42;
- 5 of 22 samples (23%) from Station ARC-01 – Arcand Drain at County Rd. 19;
- 3 of 24 samples (13%) from Station BAR-01 – Barbers Creek at County Rd. 16;
- 1 of 22 samples (5%) from Station BLA-01 – Black Creek in Murphys Point Provincial Park;
- 3 of 23 samples (13%) from Station BRA-01 – Brassils Creek at Donnelly Dr.;
- 5 of 23 samples (22%) from Station BRN-03 – Barnes Creek at Kemptville;
- 5 of 23 samples (22%) from Station COC-02 – Cockburn Creek at Highway 43;
- 2 of 23 samples (9%) from Station DAL-01 – Dales Creek at County Rd. 23;
- 1 of 21 samples (5%) from Station EAG-01 – Eagle Creek, upstream of Bobs Lake;
- 1 of 7 samples (14%) from Station FIS-01 – Fish Creek;
- 1 of 22 samples (5%) from Station FIS-03 – Fish Creek at County Rd. 38;
- 2 of 22 samples (9%) from Station GRT-01 – Grants Creek at Glen Tay Rd.;
- 1 of 22 samples (5%) from Station GRT-02 – Grants Creek at Upper Scotch Line;
- 1 of 22 samples (5%) from Station GRT-03 – Grants Creek at County Rd. 10;
- 1 of 22 samples (5%) from Station GRT-04 – Grants Creek at Pike Lake Dam;
- 1 of 17 samples (6%) from Station GRT-05 – Grants Creek downstream of Upper Scotch Line;
- 2 of 21 samples (10%) from Station HUT-02 – Hutton Creek at Townline Rd.;
- 1 of 23 samples (4%) from Station IRI-02 – Irish Creek at County Rd. 15;
- 2 of 24 samples (8%) from Station KEM-01 – Kemptville Creek at Hwy. 43;
- 1 of 24 samples (4%) from Station KEM-04 – Kemptville Creek at Hurd St.;
- 1 of 24 samples (4%) from Station KEM-06 – Kemptville Creek at County Rd. 18;
- 1 of 24 samples (4%) from Station KEM-07 – Kemptville Creek at Oxford Mills;
- 1 of 24 samples (4%) from Station KEM-09 – Kemptville Creek at County Rd. 20;

- 1 of 24 samples (4%) from Station KEM-10 – Kemptville Creek at Limerick Rd;
- 1 of 24 samples (4%) from Station KEM-11 – Kemptville Creek at Garretton;
- 2 of 24 samples (8%) from Station KEM-14 – Kemptville Creek at Kyle Rd.;
- 4 of 22 samples (18%) from Station MCD-02 – McDermott Drain at County Rd. 19;
- 4 of 21 samples (19%) from Station MCD-03 – McDermott Drain at County Rd. 19;
- 4 of 22 samples (18%) from Station MUR-01 – Murphy Drain at County Rd. 22;
- 1 of 24 samples (4%) from Station NKE-06 – North Kemptville Creek, downstream of Cranberry Lake;
- 3 of 24 samples (13%) from Station RCK-01 – Rideau Creek at Donnelly Dr.;
- 5 of 23 samples (22%) from Station ROS-01 – Rosedale Creek at Highway 43;
- 1 of 21 samples (5%) from Station RUD-01 – Ruddsdale Creek at Christie Lake Rd.;
- 1 of 18 samples (6%) from Station SHE-01 – Sheldons Creek at Old Kingston Rd.;
- 1 of 22 samples (5%) from Station SNY-01 – Scotts Snye at Upper Scotch Line;
- 1 of 21 samples (5%) from Station STU-01 – Stub Creek at Babcock Rd.;
- 2 of 23 samples (9%) from Station TAY-05 – Tay River at Glen Tay;
- 2 of 22 samples (9%) from Station TAY-09 – Tay River at Adams Pond;
- 1 of 20 samples (5%) from Station TAY-15 – Tay River downstream of Christie Lake;
- 1 of 22 samples (5%) from Station TAY-16 – Tay River at Bolingbroke;
- 2 of 17 samples (12%) from Station UEN-01 – Uens Creek at Babcock Rd.; and
- 1 of 17 samples (6%) from Station WES-01 – Westport Dam.

The remaining samples from the RVCA surface water monitoring program (53 sites, 1,071 samples in total) were found to be below the PWQO copper criterion.

The following samples from the City of Ottawa Baseline Water Quality monitoring program were found to exceed the PWQO criterion for copper:

- 6 of 55 samples (11%) from station CK3-01 – Cody Creek, Hansen Side Rd.;
- 2 of 24 samples (8%) from station CK3-03 – Cody Creek, Hwy. 44;
- 2 of 31 samples (6%) from station CK3-04 – Cody Creek, March Rd.;
- 3 of 63 samples (5%) from station CK4-02 – Constance Creek, Vances Side Rd.;
- 7 of 69 samples (10%) from station CK5-01 – Shirley's Brook, Fourth Line Rd.;
- 8 of 65 samples (12%) from station CK5-07 – Shirley's Brook, Hines Rd.;
- 22 of 56 samples (39%) from station CK6-001 – Watts Creek, Shirley Blvd.;
- 35 of 73 samples (48%) from station CK6-312 – Watts Creek, Corkstown Rd.;
- 20 of 62 samples (32%) from station CK7-01 – Stillwater Creek, Carling Ave.;
- 24 of 72 samples (33%) from station CK8-01 – Graham Creek, Carling Ave.;
- 15 of 67 samples (22%) from station CK8-35 – Graham Creek, Siskin Crt.;
- 51 of 209 samples (24%) from station CK9-I – Pinecrest Creek, Ottawa River Pkwy.;
- 7 of 65 samples (11%) from station CK13-01 – Black Rapids Creek, 230 m upstream of Rideau River;
- 29 of 78 samples (37%) from station CK14-14 – Nepean Creek, downstream of Fisher Glen STF;
- 8 of 81 samples (10%) from station CK18-03-00 – Sawmill Creek, NE tributary, Lester Rd. & Albion Rd.;
- 23 of 79 samples (29%) from station CK18-J – Sawmill Creek, Johnston Rd.;
- 30 of 76 samples (39%) from station CK18-M – Sawmill Creek, Brookfield Rd.;
- 34 of 67 samples (51%) from station CK18-Q – Sawmill Creek, Riverside Dr.;
- 13 of 48 samples (27%) from station CK18-S – Sawmill Creek, Walkley Rd. & Airport Pkwy.;

- 15 of 68 samples (22%) from station CK19-01 – Hunt Club Creek, Riverside Dr.;
- 19 of 72 samples (26%) from station CK19-10 – Hunt Club Creek, Country Club Rd.;
- 16 of 79 samples (20%) from station CK19-12 – Hunt Club Creek, DeNiverville Dr.;
- 7 of 65 samples (11%) from station CK20-10 – Mosquito Creek, Leitrim Rd.;
- 7 of 59 samples (12%) from station CK20-16 – Mosquito Creek, Limebank Rd.;
- 3 of 55 samples (5%) from station CK20-22 – Mosquito Creek, Rideau Rd.;
- 49 of 72 samples (68%) from station CK21-002 – Greens Creek, Montreal Rd.;
- 35 of 72 samples (49%) from station CK21-003 – Greens Creek, Innes Rd.;
- 35 of 56 samples (63%) from station CK21-009 – Greens Creek, downstream of Ramsay Creek;
- 8 of 54 samples (15%) from station CK21-502 – Black Creek, Anderson Rd.;
- 42 of 78 samples (54%) from station CK22-001 – Bilberry Creek, Bilberry Dr. N.;
- 48 of 107 samples (45%) from station CK23-001 – Taylor Creek, North Service Rd.;
- 26 of 74 samples (35%) from station CK24-002 – Cardinal Creek, Old Montreal Rd.;
- 19 of 53 samples (36%) from station CK25-001 – Beckets Creek, Hwy. 17;
- 30 of 71 samples (42%) from station CK35-004 – Voyager Creek, Youville Dr.;
- 9 of 61 samples (15%) from station CK41-01 – Mud Creek, Bankfield Rd.;
- 5 of 64 samples (8%) from station CK42-04 – Stevens Creek, Church St.;
- 15 of 61 samples (25%) from station CK42-05-03 – Taylor Drain, Fourth Line Rd.;
- 5 of 59 samples (8%) from station CK42-06 – Stevens Creek, Second Line Rd.;
- 1 of 60 samples (2%) from station CK42-07 – Stevens Creek, Roger Stevens Rd.;
- 4 of 58 samples (7%) from station CK43-02 – Cranberry Creek, Third Line Rd. S.;
- 7 of 75 samples (9%) from station CK44-02 – Brassils Creek, Dwyer Hill Rd.;
- 5 of 84 samples (6%) from station CK53-06 – Kemptville Creek, Prescott St.;
- 9 of 52 samples (17%) from station CK64-02 – Casey Creek, Dunrobin Rd.;
- 5 of 58 samples (9%) from station CK65-04 – Harwood Creek, Dunrobin Rd.;
- 11 of 60 samples (18%) from station CK67-001 – Flowing Creek, Perth Rd.;
- 16 of 77 samples (21%) from station CK70-05 – Poole Creek, Stittsville Main St.;
- 2 of 37 samples (5%) from station CLL-01 – Constance Lake, 500 m from boat launch;
- 4 of 35 samples (11%) from station CRS-101A – Rideau Canal, Rideau St.;
- 1 of 41 samples (2%) from station CRS-105B – Rideau Canal, Bronson St.;
- 7 of 71 samples (10%) from station JR-01 – Jock River, Prince of Wales Dr.;
- 4 of 74 samples (5%) from station JR-02 – Jock River, Jockvale Rd.;
- 5 of 67 samples (7%) from station JR-05 – Jock River, Moodie Dr.;
- 2 of 56 samples (4%) from station JR-12 – Jock River, Ottawa St.;
- 7 of 64 samples (11%) from station JR-20 – Jock River, Bleeks Side Rd.;
- 2 of 38 samples (5%) from station MKL-01 – MacKay Lake, NW portion of lake;
- 3 of 39 samples (8%) from station MUDLK-03 – Mud Lake, W park of lake;
- 4 of 37 samples (11%) from station ORS-100.20 – Ottawa River, Woolsey Narrows;
- 5 of 36 samples (14%) from station ORS-210.10 – Ottawa River, Deschenes Rapids, Ontario Shore;
- 1 of 36 samples (3%) from station ORS-210.30 – Ottawa River, Deschenes Rapids, midway between second and third rapid markers;
- 1 of 36 samples (3%) from station ORS-210.40 – Ottawa River, Deschenes Rapids, fourth rapid marker;
- 2 of 40 samples (5%) from station ORS-430.10 – Ottawa River, Upper Duck Island, 20 m from Ontario shore;

- 2 of 40 samples (5%) from station ORS-430.30 – Ottawa River, between Upper Duck Island and Kettle Island, 1/3 from Upper Duck Island;
- 3 of 40 samples (8%) from station ORS-430.60 – Ottawa River, between Kettle Island and Quebec shore, mid channel;
- 2 of 40 samples (5%) from station ORS-430.70 – Ottawa River, Kettle Island, 20 m from Quebec shore;
- 3 of 24 samples (13%) from station ORS-450.10 – Ottawa River, Hiawatha; 100 m from Ontario shore;
- 3 of 24 samples (13%) from station ORS-450.20 – Ottawa River, Hiawatha, 170 m from Ontario shore;
- 2 of 24 samples (8%) from station ORS-450.30 – Ottawa River, Hiawatha, 170 m from Quebec shore;
- 3 of 24 samples (13%) from station ORS-450.40 – Ottawa River, Hiawatha, 100 m from Quebec shore;
- 5 of 39 samples (13%) from station ORS-500.10 – Ottawa River, Petrie Island, 150 m from Ontario shore;
- 3 of 40 samples (8%) from station ORS-500.20 – Ottawa River, Petrie Island, midway between ORS-500.10 and mid channel;
- 3 of 39 samples (8%) from station ORS-500.50 – Ottawa River, Petrie Island, 150 m from Quebec shore;
- 3 of 81 samples (4%) from station R9-01 – Mississippi River, Galetta Side Rd.;
- 5 of 59 samples (8%) from station R010-01 – Carp River, Carp Rd.;
- 10 of 59 samples (17%) from station R010-06 – Carp River, Craig Side Rd.;
- 10 of 59 samples (17%) from station R010-09 – Carp River, Richardson Side Rd.;
- 7 of 57 samples (12%) from station R010-14 – Carp River, John Shaw Rd.;
- 5 of 66 samples (8%) from station RRS-103C – Rideau River, St. Patrick St.;
- 6 of 82 samples (7%) from station RRS-108C – Rideau River, Bank St.;
- 1 of 4 samples (25%) from station RRS-117B – Rideau River, downstream of Black Rapids Dam;
- 6 of 56 samples (11%) from station RRS-118A – Rideau River, Black Rapids Dam, open dam channel;
- 7 of 61 samples (11%) from station RRS-118B – Rideau River, Black Rapids Dam, centre sluice;
- 5 of 67 samples (7%) from station RRS-119B – Rideau River, Long Island Locks;
- 6 of 83 samples (7%) from station RRS-119C – Rideau River, Barnsdale Rd.;
- 4 of 63 samples (6%) from station RRS-121C – Rideau River, Roger Stevens Rd.;
- 7 of 85 samples (8%) from station RRS-124B – Rideau River, Burritts Rapids;
- 3 of 35 samples (9%) from station RRS-167B – Rideau River, Mooney's Bay

The remaining City of Ottawa Baseline Water Quality monitoring program samples (85 sites, 4145 samples in total) were found to be below the PWQO criterion for copper.

Lead

The PWQO for lead varies from 0.005 to 0.025 mg/L depending upon the concentration of alkalinity in the water sample. One sample from the PWQMN program within the MVC was found to exceed the PWQO criterion for lead (one sample from Station 18343023002 – Mississippi River, Mazinaw Lake outlet, representing 3% of the samples at this location). The remaining PWQMN samples within the MVC (11 sites, 380 samples in total) were found to be below the PWQO lead criterion. Two samples from the PWQMN program within the RVCA

were also found to exceed the PWQO criterion for lead (two samples at Station 18003303502 – Rideau River at Andrewsville, representing 7% of the samples at this location). All remaining PWQMN samples within the RVCA (ten sites, 296samples in total) were found to be below the PWQO criterion. One sample from the PWQMN program on the Ottawa River was found to exceed the PWQO criterion for lead (one sample from Station 18000017002 – Ottawa River, Chats Falls, representing 2% of the samples at this location). All remaining PWQMN samples on the Ottawa River (one site, 41 samples in total) were found to be below the PWQO copper criterion.

All samples from the RVCA surface water quality monitoring program were found to be below the PWQO (53 sites, 1,150 samples in total) criterion for lead.

The following samples from the City of Ottawa Baseline Water Quality monitoring program were found to exceed the PWQO criterion for lead:

- 1 of 60 samples (2%) from station CK24-002 – Cardinal Creek, Old Montreal Rd.;
- 1 of 39 samples (3%) from station ORS-500.10 – Ottawa River, Petrie Island, 150 m from Ontario shore.

The remaining City of Ottawa Baseline Water Quality monitoring program samples (85 sites, 4875 samples in total) were found to be below the PWQO criterion for lead.

Zinc

One sample from the PWQMN program within the MVC was found to exceed the PWQO criterion of 0.03 mg/L for zinc (one sample from Station 18343061002 – Fall River, Bennett Lake outlet, representing 3% of the samples from this location). The remaining PWQMN samples within the MVC (11 sites, 380 samples in total) were found to be below the PWQO zinc criterion. Two samples from the PWQMN program within the RVCA were also found to exceed the PWQO criterion for zinc (one sample at Station 18003302902 – Rideau River at Kars, representing 3% of the samples from this location and one sample at Station 18003303102 – Rideau River at Hogs Back, representing 3% of the samples at this location). All remaining PWQMN samples within the RVCA (ten sites, 295samples in total) were found to be below the PWQO criterion. All PWQMN samples on the Ottawa River (one site, 42 samples in total) were found to be below the PWQO zinc criterion.

The following samples from the RVCA surface water monitoring program were found to exceed the PWQO zinc criterion of 0.03 mg/L:

- 1 of 24 samples (4%) from Station BAR-01 – Barbers Creek at County Rd. 16;
- 2 of 23 samples (9%) from Station BRN-03 – Barnes Creek at Kemptville;
- 1 of 23 samples (4%) from Station DAL-01 – Dales Creek at County Rd. 23;
- 1 of 23 samples (4%) from Station ROS-01 – Rosedale Creek at Highway 43;
- 1 of 23 samples (4%) from Station TAY-04 – Tay River at Rogers Rd.; and
- 1 of 22 samples (5%) from Station TAY-09 – Tay River at Adams Pond.

The remaining samples from the RVCA surface water monitoring program (53 sites, 1,143 samples in total) were found to be below the PWQO zinc criterion.

The following samples from the City of Ottawa Baseline Water Quality monitoring program were found to exceed the PWQO criterion for zinc:

- 1 of 55 samples (2%) from station CK3-01 – Cody Creek, Hansen Side Rd.;
- 1 of 24 samples (4%) from station CK3-03 – Cody Creek, Hwy. 44;
- 3 of 56 samples (5%) from station CK6-001 – Watts Creek, Shirley Blvd.;

- 7 of 73 samples (10%) from station CK6-312 – Watts Creek, Corkstown Rd.;
- 1 of 62 samples (2%) from station CK7-01 – Stillwater Creek, Carling Ave.;
- 6 of 72 samples (8%) from station CK8-01 – Graham Creek, Carling Ave.;
- 1 of 67 samples (1%) from station CK8-35 – Graham Creek, Siskin Crt.;
- 8 of 66 samples (12%) from station CK9-I – Pinecrest Creek, Ottawa River Pkwy.;
- 1 of 65 samples (2%) from station CK13-01 – Black Rapids Creek, 230 m upstream of Rideau River;
- 9 of 78 samples (12%) from station CK14-14 – Nepean Creek, downstream of Fisher Glen STF;
- 2 of 81 samples (2%) from station CK18-03-00 – Sawmill Creek, NE tributary, Lester Rd. & Albion Rd.;
- 5 of 79 samples (6%) from station CK18-J – Sawmill Creek, Johnston Rd.;
- 6 of 76 samples (8%) from station CK18-M – Sawmill Creek, Brookfield Rd.;
- 8 of 67 samples (12%) from station CK18-Q – Sawmill Creek, Riverside Dr.;
- 3 of 48 samples (6%) from station CK18-S – Sawmill Creek, Walkley Rd. & Airport Pkwy.;
- 2 of 68 samples (3%) from station CK19-01 – Hunt Club Creek, Riverside Dr.;
- 5 of 72 samples (7%) from station CK19-10 – Hunt Club Creek, Country Club Rd.;
- 5 of 79 samples (6%) from station CK19-12 – Hunt Club Creek, DeNiverville Dr.;
- 1 of 59 samples (2%) from station CK20-16 – Mosquito Creek, Limebank Rd.;
- 1 of 55 samples (2%) from station CK20-22 – Mosquito Creek, Rideau Rd.;
- 9 of 66 samples (14%) from station CK21-002 – Greens Creek, Montreal Rd.;
- 5 of 66 samples (8%) from station CK21-003 – Greens Creek, Innes Rd.;
- 1 of 56 samples (2%) from station CK21-009 – Greens Creek, downstream of Ramsay Creek;
- 1 of 54 samples (2%) from station CK21-502 – Black Creek, Anderson Rd.;
- 6 of 70 samples (9%) from station CK22-001 – Bilberry Creek, Bilberry Dr. N.;
- 3 of 68 samples (4%) from station CK23-001 – Taylor Creek, North Service Rd.;
- 1 of 60 samples (2%) from station CK24-002 – Cardinal Creek, Old Montreal Rd.;
- 1 of 53 samples (2%) from station CK25-001 – Beckets Creek, Hwy. 17;
- 9 of 71 samples (13%) from station CK35-004 – Voyager Creek, Youville Dr.;
- 1 of 64 samples (2%) from station CK42-04 – Stevens Creek, Church St.;
- 1 of 61 samples (2%) from station CK42-05-03 – Taylor Drain, Fourth Line Rd.;
- 1 of 75 samples (1%) from station CK44-02 – Brassils Creek, Dwyer Hill Rd.;
- 1 of 84 samples (1%) from station CK53-06 – Kemptville Creek, Prescott St.;
- 1 of 52 samples (2%) from station CK64-02 – Casey Creek, Dunrobin Rd.;
- 1 of 60 samples (2%) from station CK67-001 – Flowing Creek, Perth Rd.;
- 1 of 64 samples (2%) from station JR-20 – Jock River, Bleeks Side Rd.;
- 1 of 39 samples (3%) from station MUDLK-03 – Mud Lake, W park of lake;
- 1 of 40 samples (3%) from station ORS-430.10 – Ottawa River, Upper Duck Island;
- 1 of 81 samples (1%) from station R9-01 – Mississippi River, Galetta Side Rd.;
- 1 of 59 samples (2%) from station R010-01 – Carp River, Carp Rd.;
- 1 of 59 samples (2%) from station R010-09 – Carp River, Richardson Side Rd.;
- 2 of 66 samples (3%) from station RRS-103C – Rideau River, St. Patrick St.;
- 1 of 61 samples (2%) from station RRS-118B – Rideau River, Black Rapids Dam, centre sluice;
- 1 of 63 samples (2%) from station RRS-121C – Rideau River, Roger Stevens Rd.;
- 2 of 85 samples (2%) from station RRS-124B – Rideau River, Burritts Rapids;

- 4 of 34 samples (12%) from station RRS-167B – Rideau River, Mooney's Bay

The remaining City of Ottawa Baseline Water Quality monitoring program samples (85 sites, 4742 samples in total) were found to be below the PWQO criterion for zinc.

Biological

Escherichia Coli

The following samples from the PWQMN program within the RVCA were found to exceed the PWQO criterion for *E. Coli* of 100 colony forming units (cfu) per 100 mL of water:

- 4 of 8 samples (50%) from Station 18003303602 – Jock River at Moodie Dr.;
- 1 of 9 samples (11%) from Station 18003300302 – Kemptville Creek at County Rd. 43;
- 2 of 9 samples (22%) from Station 18003303102 – Rideau River at Hogs Back Rd.;
- 3 of 9 samples (33%) from Station 18003303402 – Rideau River at St. Patrick St.;
- 1 of 9 samples (11%) from Station 18003303702 – Rideau River at Long Island; and
- 2 of 7 samples (29%) from Station 18003300802 – Tay River at Tay Marsh.

The remaining PWQMN samples within the RVCA (10 sites, 73 samples in total) were found to be below the PWQO *E. Coli* criterion.

The following samples from the RVCA surface water monitoring program were found to exceed the PWQO criterion of 100 cfu / 100 mL for *E. Coli*:

- 11 of 18 samples (61%) from Station ADR-01 – Adrians Creek near County Rd. 42;
- 7 of 28 samples (25%) from Station ARC-01 – Arcand Drain at County Rd. 19;
- 22 of 30 samples (73%) from Station BAR-01 – Barbers Creek at County Rd. 16;
- 4 of 22 samples (18%) from Station BLA-01 – Black Creek in Murphys Point Provincial Park;
- 6 of 30 samples (20%) from Station BRA-01 – Brassils Creek at Donnelly Dr.;
- 22 of 28 samples (79%) from Station BRN-03 – Barnes Creek at Kemptville;
- 12 of 30 samples (40%) from Station COC-02 – Cockburn Creek at Highway 43;
- 17 of 30 samples (57%) from Station DAL-01 – Dales Creek at County Rd. 23;
- 4 of 21 samples (19%) from Station EAG-01 – Eagle Creek, upstream of Bobs Lake;
- 3 of 7 samples (43%) from Station FIS-01 – Fish Creek;
- 10 of 22 samples (45%) from Station FIS-03 – Fish Creek at County Rd. 38;
- 2 of 13 samples (15%) from Station FIS-A – Fish Creek upstream of Bobs Lake;
- 10 of 32 samples (31%) from Station GRT-01 – Grants Creek at Glen Tay Rd.;
- 24 of 31 samples (77%) from Station GRT-02 – Grants Creek at Upper Scotch Line;
- 4 of 32 samples (13%) from Station GRT-03 – Grants Creek at County Rd. 10;
- 2 of 32 samples (6%) from Station GRT-04 – Grants Creek at Pike Lake Dam;
- 14 of 17 samples (82%) from Station GRT-05 – Grants Creek downstream of Upper Scotch Line;
- 20 of 28 samples (71%) from Station HUT-02 – Hutton Creek at Townline Rd.;
- 1 of 30 samples (3%) from Station IRI-02 – Irish Creek at County Rd. 15;
- 3 of 30 samples (10%) from Station JEB-01 – Jebbs Creek at County Rd. 1;
- 13 of 30 samples (43%) from Station KEM-01 – Kemptville Creek at Hwy. 43;
- 10 of 30 samples (33%) from Station KEM-04 – Kemptville Creek at Hurd St.;
- 5 of 28 samples (18%) from Station KEM-06 – Kemptville Creek at County Rd. 18;
- 1 of 30 samples (3%) from Station KEM-07 – Kemptville Creek at Oxford Mills;
- 2 of 23 samples (9%) from Station KEM-08 – Kemptville Creek at Pattersons Corners;
- 4 of 29 samples (14%) from Station KEM-09 – Kemptville Creek at County Rd. 20;
- 3 of 30 samples (10%) from Station KEM-10 – Kemptville Creek at Limerick Rd;

- 2 of 29 samples (7%) from Station KEM-11 – Kemptville Creek at Garretton;
- 7 of 23 samples (30%) from Station KEM-14 – Kemptville Creek at Kyle Rd.;
- 7 of 22 samples (32%) from Station KEM-16 – Kemptville Creek upstream of North Augusta;
- 11 of 27 samples (41%) from Station MCD-02 – McDermott Drain at County Rd. 19;
- 11 of 20 samples (55%) from Station MCD-03 – McDermott Drain at County Rd. 19;
- 12 of 29 samples (41%) from Station MUR-01 – Murphy Drain at County Rd. 22;
- 10 of 22 samples (45%) from Station NKE-02 – North Kemptville Creek at Bishops Mills;
- 5 of 23 samples (22%) from Station NKE-06 – North Kemptville Creek, downstream of Cranberry Lake;
- 22 of 30 samples (73%) from Station OTT-01 – Otter Creek at Highway 29;
- 11 of 30 samples (37%) from Station RCK-01 – Rideau Creek at Donnelly Dr.;
- 24 of 30 samples (80%) from Station ROS-01 – Rosedale Creek at Highway 43;
- 9 of 28 samples (32%) from Station RUD-01 – Ruddsdale Creek at Christie Lake Rd.;
- 5 of 18 samples (28%) from Station SHE-01 – Sheldons Creek at Old Kingston Rd.;
- 6 of 22 samples (27%) from Station SNY-03 – Scotts Snye at Upper Scotch Lane;
- 3 of 21 samples (14%) from Station STU-01 – Stub Creek at Babcock Rd.;
- 6 of 32 samples (19%) from Station TAY-01 – Tay River at Port Elmsley;
- 10 of 31 samples (32%) from Station TAY-04 – Tay River at Rogers Rd.;
- 6 of 33 samples (18%) from Station TAY-05 – Tay River at Glen Tay;
- 6 of 34 samples (18%) from Station TAY-08 – Tay River at Gore St.;
- 2 of 32 samples (6%) from Station TAY-09 – Tay River at Adams Pond;
- 7 of 32 samples (22%) from Station TAY-11 – Tay River upstream of Tay Marsh;
- 2 of 31 samples (6%) from Station TAY-15 – Tay River downstream of Christie Lake;
- 1 of 31 samples (3%) from Station TAY-16 – Tay River at Bolingbroke; and
- 13 of 32 samples (41%) from Station TAY-19 – Tay River at Craig St.

The remaining samples from the RVCA surface water monitoring program (53 sites, 1,006 samples in total) were found to be below the PWQO total phosphorus criterion.

The following samples from the RVCA watershed watch lake monitoring program were found to exceed the EC guideline of 0.5 mg/L for TKN:

- 1 of 204 samples (<1%) from Station RVL-01 – Pike Lake;
- 1 of 175 samples (1%) from Station RVL-11 – Black Lake;
- 1 of 84 samples (1%) from Station RVL-13 – Long Lake (East);
- 4 of 86 samples (5%) from Station RVL-18 – Bobs Lake, West Basin;
- 2 of 46 samples (4%) from Station RVL-27 – Wolfe Lake;
- 1 of 34 samples (3%) from Station RVL-28 – Leggatt Lake;
- 1 of 47 samples (2%) from Station RVL-30 – Elbow Lake;
- 1 of 44 samples (2%) from Station RVL-31 – Carnahan Lake;
- 1 of 63 samples (2%) from Station RVL-32 – Adam Lake;
- 1 of 40 samples (3%) from Station RVL-33 – Round Lake;
- 1 of 29 samples (3%) from Station RVL-34 – Loon Lake;
- 7 of 82 samples (9%) from Station RVL-35 – Bass Lake;
- 2 of 90 samples (2%) from Station RVL-37 – Upper Rideau Lake; and
- 1 of 301 samples (<1%) from Station RVL-38 – Lower Rideau Lake.

The remaining samples from the RVCA watershed watch lake monitoring program (38 sites, 2,430 samples in total) were found to be below the PWQO *E. Coli* criterion.

The following samples from the City of Ottawa Baseline Water Quality monitoring program were found to exceed the PWQO criterion for *E*. coli:

- 38 of 56 samples (68%) from station CK3-01 – Cody Creek, Hansen Side Rd.;
- 1 of 23 samples (4%) from station CK3-03 – Cody Creek, Hwy. 44;
- 10 of 33 samples (30%) from station CK3-04 – Cody Creek, March Rd.;
- 14 of 64 samples (22%) from station CK4-02 – Constance Creek, Vances Side Rd.;
- 45 of 71 samples (63%) from station CK5-01 – Shirley's Brook, Fourth Line Rd.;
- 45 of 67 samples (67%) from station CK5-07 – Shirley's Brook, Hines Rd.;
- 35 of 58 samples (60%) from station CK6-001 – Watts Creek, Shirley Blvd.;
- 55 of 75 samples (73%) from station CK6-312 – Watts Creek, Corkstown Rd.;
- 45 of 63 samples (71%) from station CK7-01 – Stillwater Creek, Carling Ave.;
- 73 of 97 samples (75%) from station CK8-01 – Graham Creek, Carling Ave.;
- 38 of 67 samples (57%) from station CK8-35 – Graham Creek, Siskin Crt.;
- 227 of 270 samples (84%) from station CK9-I – Pinecrest Creek, Ottawa River Pkwy.;
- 31 of 66 samples (47%) from station CK13-01 – Black Rapids Creek, 230 m upstream of Rideau River;
- 35 of 78 samples (45%) from station CK14-14 – Nepean Creek, downstream of Fisher Glen STF;
- 19 of 81 samples (23%) from station CK18-03-00 – Sawmill Creek, NE tributary, Lester Rd. & Albion Rd.;
- 68 of 79 samples (86%) from station CK18-J – Sawmill Creek, Johnston Rd.;
- 66 of 76 samples (87%) from station CK18-M – Sawmill Creek, Brookfield Rd.;
- 60 of 67 samples (90%) from station CK18-Q – Sawmill Creek, Riverside Dr.;
- 40 of 48 samples (83%) from station CK18-S – Sawmill Creek, Walkley Rd. & Airport Pkwy.;
- 46 of 69 samples (67%) from station CK19-01 – Hunt Club Creek, Riverside Dr.;
- 37 of 72 samples (51%) from station CK19-10 – Hunt Club Creek, Country Club Rd.;
- 26 of 79 samples (33%) from station CK19-12 – Hunt Club Creek, DeNiverville Dr.;
- 28 of 66 samples (42%) from station CK20-10 – Mosquito Creek, Leitrim Rd.;
- 15 of 59 samples (25%) from station CK20-16 – Mosquito Creek, Limebank Rd.;
- 36 of 56 samples (64%) from station CK20-22 – Mosquito Creek, Rideau Rd.;
- 54 of 73 samples (74%) from station CK21-002 – Greens Creek, Montreal Rd.;
- 57 of 72 samples (79%) from station CK21-003 – Greens Creek, Innes Rd.;
- 32 of 56 samples (57%) from station CK21-009 – Greens Creek, downstream of Ramsay Creek;
- 13 of 54 samples (24%) from station CK21-502 – Black Creek, Anderson Rd.;
- 72 of 79 samples (91%) from station CK22-001 – Bilberry Creek, Bilberry Dr. N.;
- 125 of 157 samples (80%) from station CK23-001 – Taylor Creek, North Service Rd.;
- 31 of 74 samples (42%) from station CK24-002 – Cardinal Creek, Old Montreal Rd.;
- 17 of 54 samples (31%) from station CK25-001 – Beckets Creek, Hwy. 17;
- 78 of 107 samples (73%) from station CK35-004 – Voyager Creek, Youville Dr.;
- 29 of 62 samples (47%) from station CK41-01 – Mud Creek, Bankfield Rd.;
- 37 of 65 samples (57%) from station CK42-04 – Stevens Creek, Church St.;
- 31 of 60 samples (52%) from station CK42-05-03 – Taylor Drain, Fourth Line Rd.;
- 20 of 61 samples (33%) from station CK42-06 – Stevens Creek, Second Line Rd.;
- 11 of 60 samples (18%) from station CK42-07 – Stevens Creek, Roger Stevens Rd.;
- 17 of 60 samples (28%) from station CK43-02 – Cranberry Creek, Third Line Rd. S.;

- 14 of 77 samples (18%) from station CK44-02 – Brassils Creek, Dwyer Hill Rd.;
- 23 of 86 samples (27%) from station CK53-06 – Kemptville Creek, Prescott St.;
- 41 of 54 samples (76%) from station CK64-02 – Casey Creek, Dunrobin Rd.;
- 32 of 60 samples (53%) from station CK65-04 – Harwood Creek, Dunrobin Rd.;
- 54 of 62 samples (87%) from station CK67-001 – Flowing Creek, Perth Rd.;
- 51 of 79 samples (65%) from station CK70-05 – Poole Creek, Stittsville Main St.;
- 8 of 35 samples (23%) from station CRS-101A – Rideau Canal, Rideau St.;
- 2 of 41 samples (5%) from station CRS-105B – Rideau Canal, Bronson St.;
- 15 of 71 samples (21%) from station JR-01 – Jock River, Prince of Wales Dr.;
- 12 of 74 samples (16%) from station JR-02 – Jock River, Jockvale Rd.;
- 14 of 68 samples (21%) from station JR-05 – Jock River, Moodie Dr.;
- 14 of 57 samples (25%) from station JR-12 – Jock River, Ottawa St.;
- 26 of 64 samples (41%) from station JR-20 – Jock River, Bleeks Side Rd.;
- 3 of 38 samples (8%) from station MUDLK-03 – Mud Lake, W park of lake;
- 1 of 38 samples (3%) from station ORS-100.20 – Ottawa River, Woolsey Narrows;
- 2 of 37 samples (5%) from station ORS-210.10 – Ottawa River, Deschenes Rapids, Ontario Shore;
- 1 of 37 samples (3%) from station ORS-210.30 – Ottawa River, Deschenes Rapids, midway between second and third rapid markers;
- 1 of 37 samples (3%) from station ORS-210.40 – Ottawa River, Deschenes Rapids, fourth rapid marker;
- 10 of 41 samples (24%) from station ORS-430.10 – Ottawa River, Upper Duck Island, 20 m from Ontario shore;
- 13 of 41 samples (32%) from station ORS-430.30 – Ottawa River, between Upper Duck Island and Kettle Island, 1/3 from Upper Duck Island;
- 10 of 41 samples (24%) from station ORS-430.60 – Ottawa River, between Kettle Island and Quebec shore, mid channel;
- 12 of 40 samples (30%) from station ORS-430.70 – Ottawa River, Kettle Island, 20 m from Quebec shore;
- 8 of 24 samples (33%) from station ORS-450.10 – Ottawa River, Hiawatha; 100 m from Ontario shore;
- 9 of 24 samples (38%) from station ORS-450.20 – Ottawa River, Hiawatha, 170 m from Ontario shore;
- 11 of 24 samples (46%) from station ORS-450.30 – Ottawa River, Hiawatha, 170 m from Quebec shore;
- 22 of 23 samples (96%) from station ORS-450.40 – Ottawa River, Hiawatha, 100 m from Quebec shore;
- 5 of 40 samples (13%) from station ORS-500.10 – Ottawa River, Petrie Island, 150 m from Ontario shore;
- 7 of 41 samples (17%) from station ORS-500.20 – Ottawa River, Petrie Island, midway between ORS-500.10 and mid channel;
- 26 of 40 samples (65%) from station ORS-500.50 – Ottawa River, Petrie Island, 150 m from Quebec shore;
- 8 of 83 samples (10%) from station R9-01 – Mississippi River, Galetta Side Rd.;
- 22 of 61 samples (36%) from station R010-01 – Carp River, Carp Rd.;
- 38 of 61 samples (62%) from station R010-06 – Carp River, Craig Side Rd.;
- 28 of 61 samples (46%) from station R010-09 – Carp River, Richardson Side Rd.;
- 18 of 58 samples (31%) from station R010-14 – Carp River, John Shaw Rd.;
- 12 of 68 samples (18%) from station RRS-103C – Rideau River, St. Patrick St.;

- 7 of 84 samples (8%) from station RRS-108C – Rideau River, Bank St.;
- 3 of 58 samples (5%) from station RRS-118A – Rideau River, Black Rapids Dam, open dam channel;
- 7 of 63 samples (11%) from station RRS-118B – Rideau River, Black Rapids Dam, centre sluice;
- 3 of 69 samples (4%) from station RRS-119B – Rideau River, Long Island Locks;
- 14 of 86 samples (16%) from station RRS-119C – Rideau River, Barnsdale Rd.;
- 3 of 65 samples (5%) from station RRS-121C – Rideau River, Roger Stevens Rd.;
- 1 of 88 samples (1%) from station RRS-124B – Rideau River, Burritts Rapids;
- 2 of 37 samples (5%) from station RRS-167B – Rideau River, Mooney's Bay

The remaining City of Ottawa Baseline Water Quality monitoring program samples (85 sites, 2975 samples in total) were found to be below the PWQO criterion for *E*. coli.