# **Great Lakes Executive Committee Meeting Summary**

December 1-2, 2021

## **OPENING REMARKS**

Great Lakes Executive Committee (GLEC) Co-Chairs, Michael Goffin (Environment and Climate Change Canada, ECCC) and Chris Korleski (U.S. Environmental Protection Agency, EPA), welcomed everyone to the December 2021 GLEC meeting and made note of the Participants Briefing Book, which included the draft June 2021 GLEC meeting summary for GLEC review, the meeting agenda, and Annex Information Notes.

A list of meeting attendees can be found in Appendix A.

# 2022 GREAT LAKES PUBLIC FORUM / 50TH ANNIVERSARY OF THE GLWQA

GLEC Secretariat, Carla Torchia (ECCC) and James Schardt (EPA) discussed updates in planning for the 2022 Great Lakes Public Forum and the 50th anniversary celebrations of the signing of the 1972 Canada-United States Great Lakes Water Quality Agreement (GLWQA), the 2022 Progress Report of the Parties, and the 2023-2025 Binational Priorities for Science and Action.

#### **AREAS OF CONCERN**

Areas of Concern (AOC) Canadian Annex Co-Lead, Kate Taillon (ECCC), provided an update on Canadian AOC activities and an overview of recent habitat work in Detroit River; followed by Marc Tuchman (EPA), who provided an update on U.S. AOC activities and introduced the session's guest speaker, Robert Burns (Friends of the Detroit River / Detroit River Riverkeeper).

Robert Burns then discussed habitat restoration efforts on the U.S. side of the Detroit River AOC. He spoke to two of the 16 habitat restoration projects in the AOC, including the Stony Island project (completed) and the Sugar Island project (underway). Robert highlighted successes of these projects due to availability of the U.S. Great Lakes Restoration Initiative funding, partnerships, undertaking outreach and getting local buy-in, and implementing adaptive management practices.

#### LAKEWIDE MANAGEMENT SESSION

Lakewide Management U.S. Annex Co-Lead, James Schardt (EPA), provided an update on the June 2021 GLEC meeting action item examining the proposal to sunset the original Lakewide Management Annex Subcommittee now that the Lake Partnerships have been established for all Great Lakes. There was interest raised by Annex Subcommittee members for exploring additional roles for the Subcommittee, especially on multi-lake issues. James noted that there was an initial Subcommittee discussion of potential activities that could be pursued and that the Annex Co-Leads will continue the discussion to further understand what the specific deliverables would be for the key activities raised by Subcommittee members.

Sean Backus (ECCC), the Canadian Annex Co-Lead, then introduced Janette Anderson (ECCC) who spoke to the Canadian assessment of Great Lakes nearshore waters. Janette explained the approach for the project (classifying the nearshore into unique regional units, assessing cumulative stress in each regional unit, and identifying areas of high ecological value), as well as some of the findings, how they can be used, and the future availability of all of the data.

### **CHEMICALS OF MUTUAL CONCERN SESSION**

Chemicals of Mutual Concern Annex Co-Leads, Jennifer Vincent (ECCC) and Ted Smith (EPA), provided an overview of annex activities over the past several months, including finalizing of the Great Lakes Binational Strategy for Short-Chain Chlorinated Paraffins Risk Management; finalizing of the Canadian Great Lakes Strategy for PFOS, PFOA, and LC-PFCAs Risk Management; releasing the U.S. National PFAS Roadmap; and U.S. and Canadian PFAS monitoring efforts, as well as PFAS assessment and reduction projects and efforts. Future efforts were also discussed, including anticipating completing initial screenings of two of four chemical nominated for consideration as Chemicals of Mutual Concern (CMCs), which include sulphate, lead, PAHs, and radionuclides; as well as, continuing to implement management actions in the CMC binational strategies, conduct monitoring and surveillance to track trends of CMCs, and coordinating research, monitoring and surveillance activities to identify potential CMCs.

Ted also commented on the June 2021 GLEC action item to examine a path forward on PFAS Chemicals of Mutual Concern strategy with respect to a domestic or binational approach. He noted that they will need to consider the recently released U.S. National PFAS Roadmap with respect to a path forward on the action item.

#### **NUTRIENTS SESSION**

Before turning to Nutrients Annex Co-Leads, Jennifer Vincent (ECCC) and Santina Wortman (EPA), Michael Goffin discussed the June 2021 GLEC action item for the GLEC Co-Chairs ensuring appropriate integration of nutrient and productivity issues in the Great Lakes. Michael noted that initial conversations agreed that a meeting will be convened between senior managers of the Great Lakes Fishery Commission, responsible for the Lake Ontario fishery, and EPA and ECCC co-chairs responsible for the Lake Ontario Lakewide Action and Management Plan (LAMP) and the GLWQA Nutrient Annex. He noted that productivity is being considered in current nutrient targets and will also be considered for future nutrient target setting. Michael also noted that, starting with Lake Ontario, an assessment of what activities are addressing the issue will be undertaken, priority gaps identified, and a path forward to address the problem will be proposed.

Jennifer and Santina then provided Nutrients Annex updates and next steps. It was noted that initial modeling findings indicate that cladophora response to nutrients is complicated by other factors and not well predicted by phosphorus concentrations in the eastern basin of Lake Erie. The development of a binational Adaptive Management framework, to examine whether phosphorus reduction targets are sufficient to achieve Lake Ecosystem Objectives (LEOs), was also discussed. Finally, next steps were highlighted, such as new recommendations on Hypoxia, HABs monitoring, eastern basin cladophora and Lake Ontario nutrient targets; and annual update on Lake Erie nutrient reduction efforts.

Joy Mulinex (Ohio / Lake Erie Commission) then spoke to H2Ohio, a statewide strategy for clean and safe

water in Ohio. The five key actions of H2Ohio include, agricultural best management practices; wetland restoration for nutrient reduction to the water; support home sewage treatment system remediation; supporting cleaner drinking and waste water infrastructure (e.g., replacement of lead service lines); and funding water monitoring to support better and more informed decisions. Joy focused her presentation of the nutrient reduction efforts and relevance to the Nutrient Annex work, including highlighting information from the work supported (e.g., 1 million acres in voluntary nutrient management applications; 72 wetland projects supported and benefits; estimated load reduction for the Maumee River Watershed in Ohio 2021; the expansion of counties under the Western Lake Erie Basin Program).

# **AQUATIC INVASIVE SPECIES SESSION**

Aquatic Invasive Species Co-Leads, Gavin Christie (Fisheries and Oceans Canada, DFO) and Aaron Woldt (United States Fish and Wildlife Service) referenced the annex information note provided in the participant's meeting binder briefly noting priorities for Asian/Invasive carp and other invasive species, and the science to support this work; work on the federal mutual aid agreement for early detection and rapid response; and actively developing content to report on the annex over the past three years for the 2022 Progress Report of the Parties. Gavin then introduced the guest speaker, Jeff Zuercher (U.S. Army Corps of Engineers).

Jeff Zuercher provide an update about the Brandon Road barrier development on the Chicago Area Waterway System and prevent the spread of aquatic nuisance species. He discussed the federal risk management plan, which includes a layered system of structural controls (acoustic fish deterrent, bubble curtain, engineered channel, electric barrier, and flushing lock) and non-structural measures (monitoring and response zone; monitoring, management and control zone, which includes the electrical dispersal barrier; and the population reduction zone, where monitoring and harvesting).

### **HABITAT AND SPECIES SESSION**

Habitat and Species Canadian Annex Co-Lead, Sean Backus (ECCC), introduced Greg Mayne (ECCC) who spoke to working being done in Canada on assessing and enhancing the resilience of Great Lakes coastal wetlands. The study identified vulnerabilities and projected climate change impacts, developed strategies for enhancing resilience, and improved awareness and consensus on options for action. Field data collection, modeling and assessment was conducted for 20 different sites. Greg then discussed the findings from the study, including lake levels, wetland response and sensitivity, potential impact and adaptive capacity, as well as strategies to enhance resilience.

# **GROUNDWATER SESSION**

Groundwater Annex Co-Leads, Mohamed Mohamed (ECCC) and Howard Reeves (U.S. Geological Survey, USGS), provided an update on the development of the 2022 groundwater science report, which identifies gaps and emerging issues not highlighted in the 2016 report and highlights progress towards identified research needs. Mohamed and Howard discussed some of the work in the development of the chapters of the 2022 report, including assessment of the geographic distribution of known and potential sources of groundwater contaminants and challenges given the groundwater monitoring is not tailored specifically for this particular purpose; advancement of regional and local scale understanding of

groundwater; advancement of research on role of groundwater in Great Lakes aquatic habitats; understanding the effects of urban development on groundwater; emerging issues (e.g., PFAS/PFOA, phytoestrogens and neonicotinoids); and major needs and gaps (e.g., monitoring, improved modelling of groundwater transport).

# **CLIMATE CHANGE IMPACTS SESSION**

Climate Change Impacts Co-Leads, Shaffina Kassam (ECCC) and Jennifer Day (United States National Oceanic and Atmospheric Administration) provided an update of annex activities over the past six months, including the finalizing 2020 Annual Climate Trends Summary, as well as the June 2021 and September 2021 Quarterly Trends Reports; engaging with other annexes to coordinate future projects and address climate change knowledge gaps; hosting climate change webinar series with on for example climate change modeling, tools, case studies; producing the 2021 climate modeling workshop report; producing a 50 year climate change retrospectives and 50 year prospective examining water levels, water temperatures, precipitation and extreme precipitation, ice cover; completing a data visualization project to help communicate climate projection information.

#### **SCIENCE SESSION**

Canadian Science Annex Co-Lead, Ram Yerubandi (ECCC), on behalf of himself and U.S. Science Annex Co-Lead, Elizabeth Hinchey Malloy (EPA), provided a quick overview of annex activities, including an update on Cooperative Science and Monitoring Initiative (CSMI) (e.g., CSMI projects conducted in 2021, planning for 2022 CSMI projects, and drafting of CSMI Synthesis Reports); and an update on Traditional Ecological Knowledge (TEK) activities (e.g., the website <a href="https://greatlakestek.umn.edu/">https://greatlakestek.umn.edu/</a> highlighting TEK references and the GLWQA TEK speaker series recordings, identifying opportunities to increase use of TEK in GLWQA Annex activities, and Canadian supported Great Lakes restoration and protection projects utilizing TEK).

State of the Great Lakes (SOGL) leads, Nancy Stadler-Salt (ECCC) and Elizabeth Hinchey Malloy (EPA), then presented an overview of the draft SOGL assessments for 2022 and highlighted the key messages. They also identified process changes and improvements for the 2022 reporting cycle, and highlighted the next steps leading to the release and presentation of SOGL 2022 at the 2022 Great Lakes Public Forum.

### **NEWS AND COMMENTS FROM GLEC MEMBERS**

Michael Goffin (ECCC) provided an update on the creation of the Canada Water Agency and the expectation of the agency to have responsibility for federal engagement in freshwater, which may include our activities on the Great Lakes (these decisions and announcements would be made in the future).

Thomas Hoggarth, on behalf of Michelle Langan (Fisheries and Oceans Canada, DFO), provided updates including the new DFO Minister and implementation efforts related to the GLWQA annexes, including conducting baseline habitat surveys for the Great Lakes and use these to produce state of the habitat

reports; undertaking aquatic invasive species field work (no grass carp captured this year in Canadian waters); and conducting a risk assessment on the modeling and sampling efforts to inform and manage strategies in early surveillance and response programs.

Melissa Fabian Mendoza (Canadian Nuclear Safety Commission, CNSC) introduced herself as the new GLEC member representing the Canadian Nuclear Safety Commission, as well as other new CNSC members. Melissa noted that the CNSC regulatory oversight reports for 2020 are to be presented this month to the Commission, which includes information on licensees' safety performance. She also discussed the Nuclear Waste Management Organization's (NWMO) Adaptive Phased Management initiative, which is a process being followed to identify and inform a willing community to host a deep geological repository for Canada's used high-level nuclear fuel waste. The process is currently at the site selection phase with two potential sites being considered (Ignace and South Bruce), with NWMO's indicating their intent to apply for a CNSC license and submit a project description to the Impact Assessment Agency of Canada in 2024.

Jill Greenberg (Michigan Department of Environment, Great Lakes, and Energy, EAGLE) provided an update on the Revere Copper aggregate collapse into boat slip on the Detroit River. Jill indicated that the Revere placed absorbent blooms and turbidity curtains, and water monitoring was put into place at various locations. The results of the monitoring are expected to be provided to EAGLE, EPA and U.S. Coast Guard this week. Jill also noted that the City of Detroit issued a cease and desist order to Revere for improper storage of aggregate.

Javier Laureano (EPA Region 2) provided an EPA Region 2 update on Lake Ontario activities, including: Javier also provided an update on beneficial use impairments (BUI) at the Rochester Embayment Area of Concern (AOC) (one BUI removed since the June 2021 GLEC; one BUI expect to be removed in next six months; and two additional BUIs expected to be removed in 2022); the Buffalo River AOC (1 BUI expected to be removed in next six months; and one additional BUIs expected to be removed in 2022); and continued progress at the Niagara River AOC and in St. Lawrence River AOC at Massena/Akwesasne. Javier also discussed EPA Region 2 efforts with respect to the Nutrients Objectives and Targets Task Team, as well as the Lake Ontario Partnership's engagement in the CSMI priority setting for 2023.

Joy Mulinex (Ohio Lake Erie Commission) thanked federal, state and other partners involved in the delisting of the Ashtabula AOC and described the benefits and successes of this delisting, including 500,000 cubic yards of sediment and 14,000 pounds of PCBS that were removed and the return of recreational users to the river. Joy also spoke to nutrient management work being done in relation to Ohio's H2Ohio initiative, including: a new wetlands sampling protocol and monitoring of H2Ohio's wetlands to better understanding the movement of phosphorus through different wetlands; a watershed study examining which agricultural best management practices in Ohio are most effective at dealing with nutrient reductions; and funding of harmful algal bloom research initiative.

Carl Platz (U.S. Army Corps of Engineers, USACE) provided several updates on USACE projects and initiatives related to several GLWQA annexes and related work, including:

Supporting working being undertaken for the ten Areas of Concern (AOC) noted in Great Lakes
Restoration Initiative Action Plan III, including dredging and capping projects in the St. Louis
River AOC; construction of three habitat restoration projects in Clinton River AOC; completing a
contaminated dredging project at Lake George East in the Grand Calumet River AOC; awarding
new contracts to help complete management actions and remove BUI's; and planning and

- technical support, along with significant strategic navigation dredging, which helped accelerate actions and help delist the Ashtabula River AOC in 2021.
- Undertaking research evaluating the toxicity and bioaccumulation potential of PFAS in aquatic ecosystems in support of the Chemicals of Mutual Concern Annex.
- Completing a demonstration project in the Maumee River watershed in 2021 to maximize the
  phosphorus reduction benefits of a "key optimal wetland", which includes features that will
  permanently keep phosphorus on land. The research and monitoring phase is now underway
  and the interagency team will investigate phosphorus reduction under a variety of scenarios and
  answer questions related to legacy phosphorus and storage capacity thresholds.
- Working closely with the States of Illinois and Michigan to gather data, conduct modeling, and
  initiate multiple design activities for the Brandon Road Project in support of efforts under the
  Aquatic Invasive Species Annex. USACE will also soon be commencing initial efforts to evaluate
  the feasibility of implementing a barrier to impede upstream movement of Grass carp in the
  Sandusky River in collaboration with the Invasive Carp Regional Coordinating Committee.
- Initiating the Great Lakes Coastal Resiliency Study, following federal funds to be received in
  fiscal year 2022 and the execution of a cost sharing agreement. USACE is currently coordinating
  the scope, schedule and budget with the coastal program managers from all eight Great Lakes
  states which are serving as non-federal sponsors for the study and collectively contributing the
  25% cost share requirement.

Jon Altenberg (Great Lakes Saint Lawrence Cities Initiative) noted the Cities Initiative's advocacy and focus on water equity and water infrastructure funding. He also spoke to the Cities Initiative program helping cities strengthen coastal resilience, including the first ever regional survey that documented needs of coastal cities on a binational level throughout the Great Lakes, and work with cities within five states (and expanding that into Canada) to help them deal with these coastal resilience issues. Jon lastly noted plans and efforts for the Cities Initiative moving forward, such as exploring how to leverage blue economy, revitalizing waterfront areas; supporting sustained restoration progress in the U.S. and Canada; the creation of the new Canadian Water Agency; and equipping and enhancing cities' technical and policy support.

# **COMMENTS FROM COMMISSION REPRESENTATIVES**

Jane Corwin (International Joint Commission, IJC) provided several updates from the IJC, including a joint webinar hosted by the Great Lakes Water Levels Board to provide the public with updates on lake levels and regulation strategies; the anticipated release of the phase one report on the expedited review of the Lake Ontario St. Lawrence River Plan 2014 in early 2022 and planning and initial activities for phase two of the review; and a series of community engagement opportunities to be hosted in early 2022 to communicate the phase one report findings and recommendations to the public.

Erika Jensen (Great Lakes Commission, GLC) provided updates related to three GLC resolutions adopted at its 2021 annual meeting. The first resolution focused on a number of actions with respect to mercury contamination and the GLC's desire to continue the conversations under the Chemicals of Mutual Concern Annex on how to advance these actions and reduce the damaging impacts of mercury on human health and fish and wildlife populations in the Great Lakes. The second resolution discussed was nutrient harmful algal blooms, where Erika noted continuing work with the Nutrients Annex to track progress on the U.S. and Canada's commitment to reducing phosphorus and nutrient driven algal blooms in Lake Erie through the GLC's Blue Accounting Erie Stat initiative; and the GLC's commitment to

sharing progress made by the states, provinces and the federal governments towards these commitments for Lake Erie, as well as being ready to expand this work to other nutrient related targets that may be developed in the future. The third resolution Erika discussed focused around climate resiliency.

Jim McCain (Great Lakes Fishery Commission, GLFC) first discussed efforts to keep Grass carp from becoming established within the Great Lakes, including Grass carp research and control (to date 640 Grass carp have been captured and removed from Lake Erie); a field feasibility study for the seasonal barrier in the Sandusky River to block Grass carp from reaching spawning locations within the river; a proposal with Ohio DNR and Lake Erie Committee to fund a barrier through the Army Corps of Engineers Great Lakes Fishery Ecosystem and Restoration Program; and continued work with state, provincial, tribal and federal agencies through the Joint Strategic Plan for Management of the Great Lakes to combat the threat of Grass carp within the basin. Jim then discussed the GLFC's sea lamprey control efforts, including noting the GLFC's release of the 2021 estimate of sea lamprey population numbers across the Great Lakes basin (for Lake Superior and Lake Huron sea lamprey numbers are above the targets; and for Lake Erie, Ontario and Michigan, sea lamprey numbers are meeting the targets at this time). Jim also noted that COVID related restrictions in 2021 are likely to have a negative impact on sea lamprey control, but it will take until 2022 for these impacts to be reflected in the population numbers, as well as reduced the sampling ability and therefore estimates of the sea lamprey population numbers may be less accurate. Jim lastly touched on work to take into consideration declining offshore productivity.

### **COMMENTS FROM OBSERVERS**

Nancy Goucher (University of Waterloo) noted the importance of the work being done by university water researchers who are enhancing the understanding of the threats, as well as identifying new innovative solutions to dealing with water issues. She noted that there are more opportunities to leverage this university-based research to support efforts under the GLWQA.

# **MEETING WRAP UP AND ACTION ITEMS**

GLEC Co-Chairs wrapped up the meeting and a summary of action items were provided by the GLEC Secretariat:

- 1. GLEC members to review and provide input on draft June 2021 GLEC Meeting Summary by December 17, 2021.
- 2. GLEC Secretariat to share draft Progress Report of the Parties for GLEC review and input. Input is due by February 1, 2022.
- 3. GLEC Secretariat to issue call to Annex Co-Leads to begin drafting the 2023-2025 Binational Priorities for Science and Action. The draft Priorities to be presented at the June 2022 GLEC
- 4. GLEC Secretariat to issue a call for speakers for 2022 Great Lakes Public Forum early in 2022.

- 5. Lakewide Management Annex Co-Leads to continue discussion of possible roles for a future Annex 2 Subcommittee and report out at the June 2022 GLEC.
- 6. A meeting between senior managers of the Great Lakes Fishery Commission, responsible for the Lake Ontario fishery, and the U.S. Environmental Protection Agency, and Environment Climate Change Canada leads, responsible for the Lake Ontario LAMP and the GLWQA Nutrient Annex, to discuss the offshore productivity issue; and report back at the June 2022 GLEC.
- 7. Nutrients Annex Co-Leads to consider offshore productivity as they consider Lake Ontario nutrient concentrations and development of phosphorus targets.
- 8. Nutrients Annex Co-Leads to report on assessment of science for Lake Erie Eastern Basin targets at the June 2022 GLEC.
- 9. GLEC to consider and provide comment on the draft SOGL 2022 Assessments presented during the December 2021 GLEC meeting by December 31, 2021.
- 10. GLEC Secretariat to make available the links shared via the December 2021 GLEC meeting chat.

# **GLEC MEETING PARTICIPANTS DECEMBER 1-2, 2021**

- 1. Jon Altenberg, Great Lakes Saint Lawrence Cities Initiative
- 2. Janette Anderson, Environment and Climate Change Canada
- 3. Hannah Arbuckle, Great Lakes Indian Fish and Wildlife Commission
- 4. Antonette Arvai, International Joint Commission
- 5. Kendra Axness, Department of Natural Resources, Wisconsin
- 6. Sean Backus, Environment and Climate Change Canada
- 7. Edlynzia Barnes, U.S. EPA
- 8. Rajesh Bejankiwar, International Joint Commission
- 9. Pierre Béland, International Joint Commission
- 10. Sandy Bihn, Lake Erie Waterkeeper
- 11. Jennifer Boehme, International Joint Commission
- 12. Ryan Bowie, Chiefs of Ontario
- 13. Tanya Brothen
- 14. Eric Brown, Erie County Planning Department
- 15. Tim Bruno, Pennsylvania Department of Environmental Protection
- 16. David Burden, International Joint Commission
- 17. Robert Burns
- 18. Mark Burrows, International Joint Commission
- 19. Shampa Chakraborty, Environment and Climate Change Canada
- 20. Jake Chalmers, Métis Nation of Ontario
- 21. Matthew Child, International Joint Commission
- 22. Gavin Christie, Fisheries and Oceans Canada
- 23. Steve Clement, Environment and Climate Change Canada
- 24. James Clift, Michigan Department of Environment, Great Lakes, and Energy
- 25. David Copplestone, Ontario Ministry of Northern Development, Mines, Natural Resources and Forestry
- 26. Jane Corwin, International Joint Commission
- 27. Jennifer Day, National Oceanic and Atmospheric Administration
- 28. Fe de Leon, Canadian Environmental Law Association
- 29. Melissa De Young, Pollution Probe
- 30. Frances Delaney, Environment and Climate Change Canada
- 31. Donalea Dinsmore, Wisconsin Department of Natural Resources
- 32. Matthew Doss, Great Lakes St. Lawrence Cities Initiative
- 33. Jason Dubois, Health Canada
- 34. John Dungavell, Ontario Northern Development, Mines, Natural Resources and Forestry
- 35. Elizabeth Everhardus, Ontario Ministry of the Environment, Conservation and Parks
- 36. Melissa Fabian Mendoza, Canadian Nuclear Safety Commission
- 37. Amber Falkner
- 38. Pamela Finlayson, Environment and Climate Change Canada
- 39. Nancy Finley
- 40. Bonnie Fox, Conservation Ontario
- 41. Abraham Francis, Mohawk Council of Akwesasne
- 42. Steve Galarneau, Department of Natural Resources, Wisconsin
- 43. Lynn Garrity

- 44. Cristina Giannetas, Ontario Ministry of the Environment, Conservation and Parks
- 45. Raj Gill, Canadian Freshwater Alliance
- 46. Michael Goffin, Environment and Climate Change Canada
- 47. Nancy Goucher, University of Waterloo
- 48. Jill Greenberg, Michigan Department of Environment, Great Lakes, and Energy
- 49. Laura Gynane, Ontario Northern Development, Mines, Natural Resources and Forestry
- 50. Frank Hardy, Biinjitiwaabik Zaaging Anishinaabek
- 51. Gail Hesse, National Wildlife Federation
- 52. Elizabeth Hinchey, U.S. EPA
- 53. John Higham, Transport Canada
- 54. Savanna Higgins, Cole Munro Foods
- 55. Richard Hobrla, Michigan Department of Environment, Great Lakes, and Energy
- 56. Thomas Hoggarth, Fisheries and Oceans Canada
- 57. Jon Hortness, U.S. Geological Survey
- 58. Michael Isham, Great Lakes Indian Fish and Wildlife Commission
- 59. Courtney Jackson, Aamjiwnaang First Nation
- 60. John Jackson, Toxics Free Great Lakes Binational Network
- 61. Erika Jensen, Great Lakes Commission
- 62. Jessica Jock, Saint Regis Mohawk Tribe
- 63. Donald Jodrey
- 64. Zachary Jorgenson
- 65. Norman Joseph, Aamjiwnaang First Nation
- 66. Carolyn Junemann, Maritime Administration
- 67. Jennifer Kanine, Pokagon Band of Potawatomi Indians
- 68. Tyler Kaspar, 1854 Treaty Authority
- 69. Shaffina Kassam, Environment and Climate Change Canada
- 70. Tiffani Kavalec, Ohio EPA
- 71. Carol Kim, Environment and Climate Change Canada
- 72. Rupert Kindersley, Georgian Bay Association
- 73. Susan Klapel
- 74. Roger Knight, Great Lakes Fishery Commission
- 75. Chris Korleski, U.S. EPA
- 76. Gail Krantzberg, McMaster University
- 77. Joe Krieger, National Oceanic and Atmospheric Administration
- 78. Ash Kumar, Environment and Climate Change Canada
- 79. Alesia Kurlek, Environment and Climate Change Canada
- 80. Pamela Lamba, Ontario Ministry of the Environment, Conservation and Parks
- 81. Bob Lambe, Great Lakes Fishery Commission
- 82. Michelle Langan, Fisheries and Oceans Canada
- 83. Javier Laureano, U.S. EPA
- 84. James Lehnen, New York State Department of Environmental Conservation
- 85. Louis Lavoie, Parks Canada
- 86. Henry Lickers, International Joint Commission
- 87. Jessica Lienhardt, Consulate General of Canada in Detroit
- 88. Anastasia Lintner, Canadian Environmental Law Association
- 89. Martin Lowenfish, Natural Resources Conservation Service
- 90. Stephen Marklevitz, Ontario Northern Development, Mines, Natural Resources and Forestry
- 91. John Marsden

- 92. Catherine Masson, Trent University
- 93. Greg Mayne, Environment and Climate Change Canada
- 94. Andrew McCammon, The Ontario Headwaters Institute
- 95. Spencer McCormack
- 96. Daryl McGoldrick, Environment and Climate Change Canada
- 97. James (Jim) McKane, Great Lakes Fishery Commission
- 98. Jennifer McKay, Environment and Climate Change Canada
- 99. Chris McLaughlin
- 100. Sonny Meyers, 1854 Treaty Authority
- 101. Felicia Minotti, Global Affairs Canada
- 102. Tricia Mitchell, Fisheries and Oceans Canada
- 103. Caroline Moellering, Little Traverse Bay Bands of Odawa Indians
- 104. Mohamed Mohamed, Environment and Climate Change Canada
- 105. Joy Mulinex, Ohio Lake Erie Commission
- 106. Phillipe Murphy-Rhéaume, Great Lakes and St. Lawrence Cities Initiative
- 107. Todd Nettesheim, U.S. EPA
- 108. Lori Nordstrom, U.S. Fish and Wildlife Service
- 109. Linda Nguyen, Red Cliff Band of Lake Superior Chippewa
- 110. Carolyn O'Neill, Ontario Ministry of the Environment, Conservation and Parks
- 111. Jacob Orlandi, Environment and Climate Change Canada
- 112. Matt Otto, Natural Resources Conservation Service, Wisconsin
- 113. Paul Parete, Environment and Climate Change Canada
- 114. Scott Parker, Parks Canada
- 115. Matthew Pawlowski
- 116. Heather Pearson, Ontario Ministry of the Environment, Conservation and Parks
- 117. Harold Peterson
- 118. Robert Phillips, International Joint Commission
- 119. Carl Platz, U.S. Army Corps of Engineer
- 120. Rajendra Poudel
- 121. Sarah Quinlan Cutler, Parks Canada
- 122. Solina Quinton, Environment and Climate Change Canada
- 123. Howard Reeves, U.S. Geological Survey
- 124. Jenn Richards, Ontario Ministry of Agriculture, Food and Rural Affairs
- 125. Violeta Richardson, Environment and Climate Change Canada
- 126. Stephanie Rowley, Environment and Climate Change Canada
- 127. Emily Santoro, Ontario Ministry of the Environment, Conservation and Parks
- 128. James Schardt, U.S. EPA
- 129. Lisa Sealock, Environment and Climate Change Canada
- 130. Shannon Seko, Transport Canada
- 131. Althea Serro, Environment and Climate Change Canada
- 132. Victor Serveiss, International Joint Commission
- 133. Jocelyn Sherwood, Environment and Climate Change Canada
- 134. Jenna Shields, Health Canada
- 135. Lora Shrake
- 136. Robert Sisson, International Joint Commission
- 137. Edwin (Ted) Smith, EPA
- 138. Nancy Stadler-Salt, Environment and Climate Change Canada
- 139. David Sweetnam, Georgian Bay Forever

- 140. Kate Taillon, Environment and Climate Change Canada
- 141. Lorne Thomas, U.S. Coast Guard
- 142. Carla Torchia, Environment and Climate Change Canada
- 143. Marc Tuchman, U.S. EPA
- 144. Dave Ullrich
- 145. Jennifer Vanator, Great Lakes Indian Fish and Wildlife Commission
- 146. Sara Varty, Environment and Climate Change Canada
- 147. Jennifer Vincent, Environment and Climate Change Canada
- 148. Allison Voglesong Zejnati, International Joint Commission
- 149. Lizhu Wang, International Joint Commission
- 150. Mike Weimer, U.S. Fish and Wildlife Service
- 151. Rod Whitlow, Six Nations
- 152. Christopher Wilkie, International Joint Commission
- 153. John Wilson, International Joint Commission
- 154. Aaron Woldt, U.S. Fish and Wildlife Service
- 155. Charles Wooley, U.S. Fish and Wildlife Service
- 156. Santina Wortman, U.S. EPA
- 157. Ram Yerubandi, Environment and Climate Change Canada
- 158. Lance Yohe, International Joint Commission
- 159. Don Zelazny, New York State Department of Environmental Conservation
- 160. Jeff Zuercher, U.S. Army Corps of Engineers