



## **Public Interest Advisory Group Year 1 Report**



**April 2002**



**International Lake Ontario - St. Lawrence River Study**  
**Étude internationale sur le lac Ontario et le fleuve Saint-Laurent**



May 1, 2002

Commissioners:

As the Study completes Year 1, the Public Interest Advisory Group (PIAG) is pleased to submit their Year 1 Report to the International Lake Ontario – St. Lawrence River Study Board and to the International Joint Commission.

The PIAG Year 1 Report was written with the objective of describing PIAG activities, accomplishments and findings from the inception of the Study in December 2000 to the end of Year 1 defined as March 31, 2002. It is a summary of the data and information collected by the PIAG, and reflects the thoughts and opinions of the PIAG and the people who attended public meetings and filled out survey questionnaires. Every attempt was made to ensure that the public's impressions, opinions and feedback were accurately captured. The opinions and thoughts do not necessarily reflect those of the International Lake Ontario – St. Lawrence River Study Board. Any mention of, or reference to, statements contained in this report should not be construed as their endorsement.

Questions regarding this report can be directed to Arleen Kreusch in the United States at (716) 879-4438 or Amanda Morelli in Canada at (613) 992-5727.

Ce rapport est également disponible en français.

Respectfully submitted,

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Attachment

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## **Acronyms**

cfs	Cubic feet/second
cms	Cubic metres/second
ft.	foot/feet
IJC	International Joint Commission
PIAG	Public Interest Advisory Group
TWG	Technical Work Group
U.S.	United States

# **International Lake Ontario - St. Lawrence River Study**

## **Public Interest Advisory Group**

### **Year 1 Report**

#### **Executive Summary**

In December 2000, the International Joint Commission (IJC) formed the International Lake Ontario – St. Lawrence River Study Board to assess and evaluate the methods and criteria used to regulate outflows from Lake Ontario through the St. Lawrence River. The IJC also appointed a bi-national Public Interest Advisory Group (PIAG) to ensure the continuous involvement of all interests throughout the study.

The 22-member volunteer PIAG participates in all aspects of the study, working to ensure effective communication between the study team and the public and ensuring input from the public is considered. PIAG membership is equally made up of American and Canadian members. PIAG members were selected based on their knowledge and experience in one or more interest areas associated with the lake and river system. Individual PIAG members are assigned to the various Study Technical Work Groups and the PIAG Chairs are members of the Study Board.

During their first year, the PIAG served as a speaker's bureau, giving 30 presentations to various associations in the United States and Canada. The PIAG held three advertised public meetings in various locations along the Lake Ontario-St. Lawrence River System, along with round table discussions prior to each meeting with selected invitees. The combined attendance for all of these meetings is approximately 1,115 attendees. A detailed summary of questions and comments received at the public meetings is provided in this report.

Over 230 responses were received to the PIAG questionnaire that was distributed during PIAG public outreach activities. The survey was designed to provide the PIAG with input on public concerns regarding coastal/shoreline erosion, recreational boating, and environmental and wetland concerns. Responses were analyzed by the PIAG members and are presented in detail in this report. This information is provided to the Technical Work Groups and to the Study Board as part of the process to integrate ongoing public input during the Study. The PIAG has identified a need to develop a clearer understanding of the Great Lakes System particularly in the Lake Ontario-St. Lawrence River System area. The public hold many misconceptions regarding the system and the amount of change in water level that is actually brought about by regulation.

During the first year, a newsletter and a website were developed to assist in keeping the public informed about Study activities. The Study database now contains over 3,000 people who have indicated that they have an interest in the Study.

The results of the first year of public outreach and interactions will be used to direct the PIAG activities in subsequent years.

## **1. Public Interest Advisory Group, Who are we and what do we do?**

To emphasize the importance of public outreach, consultation, and participation during the International Lake Ontario-St. Lawrence River Study, the International Joint Commission appointed a 22-member bi-national Public Interest Advisory Group (PIAG) for the Study. The co-chairs of the PIAG are members of the Study Board. PIAG terms are 18 months with the ability to be reappointed and remain a member throughout the Study. A list of the current membership, their location along the system, and their affiliation areas is in Appendix A.

The mission of the Public Interest Advisory Group (PIAG) is to

- Advise the public about the details of the Study in each of the sectors being investigated;
- Gather from the public their views and experience concerning water levels in the sectors that interest them;
- Advise the Study Board on the responsiveness of the Study process to public concerns;
- Advise the Study Board on public consultation, involvement and information exchange;
- Serve as a conduit for public input to the Study process, and for public dissemination of Study outcomes;
- Serve as liaison to and participate in the activities of Technical Working Groups as Public Interest Advisory Group members desire; and
- Provide a public liaison function to the Study Board through Public Interest Advisory Group co-chairs who serve as members of the Study Board.

The PIAG's objective is to ensure that the results of the Study reflect the interests and the "natural knowledge" of the public.

The PIAG held their initial meeting in January, 2001 in Burlington, Ontario to outline the actions that they would like to complete during their first year. Their second meeting was held in March, 2001 in Rochester, New York, to develop a survey to gather information from the public and outline a presentation to be used during informational meetings with local groups around the Lake Ontario-St. Lawrence River System. The PIAG's multi-year work plan was presented to the Study Board in July, 2001 and approved.

Members of the PIAG are on each of the following Technical Work Group (TWG) teams:

- The Coastal Processes TWG;
- The Commercial Navigation TWG;
- The Hydrology and Hydraulic Modelling TWG;
- The Recreational Boating and Tourism TWG;
- The Water Uses TWG;
- The Hydroelectric Power Generation TWG; and
- The Environmental TWG.

Work plans for each TWG are developed with PIAG input.

The PIAG met in March, 2002 to discuss their Year 2 Work Plan, the Year 1 Report, and the development of an educational video.

## **2. Public Meeting and Survey Results**

### **2.a Public Meeting Summaries**

The PIAG conducted thirty meetings with the public (total attendance approximately 1,115) during Year 1 as part of the International Lake Ontario - St. Lawrence River Study. A summary of the organizations, meeting locations, and attendance are included in Appendix B. The primary focus of the PIAG's public contact was with general public interest groups and individual citizens, specifically: shoreline/riparian landowners; recreational boaters; and environmental groups. The PIAG developed a 56-slide presentation that gave an overview of the Lake Ontario-St. Lawrence River System, provided insight into the concerns of various users along the system and explained why the Study is being done. Meeting participants were given the opportunity to express their concerns, ask questions, and were encouraged to complete the PIAG Year 1 Survey. A listing of the major concerns expressed and questions asked during the three public meetings follows:

#### **Public Meeting in Clayton, NY**

##### **Afternoon Workshop - The following concerns were raised:**

- Thousand Islands Area Regional Association conducted resident survey. Top concern was water quality; also concerned about marshes and wetlands; prefer stable water levels; received comment that "when flows are increased due to high Lake Ontario levels, someone forgets to turn off the tap."
- Study links water level management to decline in Northern Pike; another study from Cornell researchers values contribution of Northern Pike fishery to area economy at \$24 million per year.
- Fall drawdowns affect muskrat, a "keystone" species in the local ecosystem. Lack of cattails may force muskrats out of wetland areas.
- The Plan of Study does not look at any potential measures to remediate wetlands. This issue should be addressed by Study.
- Investigations by The Nature Conservancy show that barrier beaches on eastern Lake Ontario have been starved for sand supply for the last 12 years. The impact of water levels on sand movement is still unclear. Need to determine the interaction between coastal processes, wetlands, fisheries and wildlife.
- A growing body of evidence suggests that climatic trends causing wet and dry water supply cycles last for a substantial period of time. No one knows how long each cycle may last. These trends are not necessarily related to "climate change". Study should consider worst-case scenarios.
- A good hydraulic and hydrologic model could be an important public communication tool. This will help people understand the impacts various regulation scenarios could have on other interests. We will not get very far as long as people believe their interest will win if they lobby hard enough.

- More extensive monitoring of water levels at different points in the river is needed to fine tune regulation decisions.
- People of NYS and USA have an interest in St. Lawrence River, not just people in the region. Study needs to be supported by all who have an interest.
- The U.S. Army Corps of Engineers has been asked by Congress to study enhancements to navigation in the Great Lakes System. We must find out what the impacts of additional dredging in the St. Lawrence, and other modifications for navigation, would have on regulation. We are undertaking a major review; one hand of government must know what the other hand is doing.

**Evening Open Meeting** - The following points were noted:

- Concerns about water diversions to the Southwestern United States.
- There was some confusion regarding the hydraulic relationships between water levels on Lake Ontario and various locations along the St. Lawrence River to Montreal.
- Studies are needed to look at how new structures at the outlet of Lake St. Louis and below Montreal Harbour could be used to regulate water levels in these parts of the system.
- Public notification is needed in advance of regulation decisions that cause abrupt changes in river water levels.

**Question (Q.):** Will 12-month navigation be considered in the Study?

**Answer (A.):** Yes, in the individual impact studies, particularly shoreline erosion.

**Q.:** Will the U.S. Army Corps of Engineers Great Lakes Navigation Study be considered?

**A.:** We are concerned about the navigation study. PIAG will take action to get more information.

### **Public Meeting in Greece, NY**

**Afternoon Workshop - Questions and Comments:**

**Q.:** When did the clock started ticking for the five years (for the Study)?

**A.:** December, 2000.

**Q.:** Are there public members on the Technical Work Groups?

**A.:** Yes.

**Comment:** Loss of life should be added as a concern regarding high water levels.

**Q.:** How much can you control the outflow with the dam?

**A.:** Maximum outflow is 8,782 cubic metres/second (cms) or 310,000 cubic feet/second (cfs); higher outflows bypass the dam and go over the spillway. If you increase the flow 850 cms (30,000 cfs), you can lower the lake by 2.5 centimetres (1 inch) in one week.

**Q.:** If the dam wasn't there, and there was no control what would be the difference?

**A.:** 10 or 11 centimetre (about 4 inches) difference, which is the difference between the present level and the pre-project level.

**Q.:** Does the Study take into account the algae problem for the Great Lakes Basin and Lake Ontario? Will the Study cover water quality issues?

**A.:** No for the basin, yes for the Lake as a part of the research performed by the Environmental or Water Uses Technical Work Groups.

**Q.:** Where does the interest of major corporations with water intakes get taken into consideration.

**A.:** The Water Uses Technical Work Group will look at municipal, industrial, and domestic water intakes.

**Q.:** When you make a recommendation, who do you present the information to?

**A.:** A report will be prepared for the IJC.

**Q.:** Does the IJC have to implement your recommendation?

**A.:** There will be a series of public hearings describing the recommended proposal and presenting the alternatives. If the public likes the plan, it will move forward. If the plan is not approved we would continue to use Plan 1958D. The Technical Work Groups are in place to find out if the plan can be changed to the benefit of all interests. It is a challenge to put all interests on the table.

**Q.:** How will it be quantified as to the public's support or lack of support?

**A.:** We want the public involved throughout the process. We are taking an aggressive approach to involving them through newsletters, website, and media coverage throughout the Study. There are PIAG members on all of the Technical Work Groups.

**Q.:** The Technical Work Group approach is good. What happens with the feedback you receive from the public as the Study develops?

**A.:** The surveys we are handing out will provide feedback. We will then keep adjusting based on the feedback and bring our progress back to the public. Workshops will be put together for the public to participate in. Open houses will be held to show what the Study has done and to solicit feedback. The survey will be reviewed to look at the interests of riparians, recreational boaters, and environmental interests to see how the water levels affect each particular group.

**Q.:** Who are you asking to complete the surveys?

**A.:** Any group where we have a presentation. We have received 140 back, which will be compiled into a database. The most valuable information is in the text field. This information will be shared with the Technical Work Groups.

**Q.:** Are Technical Work Group meetings open to the public?

**A.:** Yes, performance indicators are being developed. We can post the Technical Work Group meetings on the website. Meetings are held all around the system.

**Q.:** Can someone from the Rochester area be on the Environmental Technical Work Group?

**A.:** E-mail Mark Bain. PIAG members try to keep informed of the status of all Technical Work Groups.

**Q.:** To what extent can the outflow from Lake Ontario be controlled?

**A.:** In theory, the outflow is completely controlled; except for what would pass through the Long Sault Dam. The inflow and therefore the levels are not controlled.

### **Evening Open Meeting - Questions and Comments:**

**Q.:** The level dropped 20 centimetres (8 inches) in a couple of weeks in the fall. Why does the lake level drop by a foot and a half or more during September and October?

**A.:** The lake naturally declines in the fall due to a lack of runoff. This past summer was unusually dry and hot, leading to increased evaporation. Also, in the fall, additional outflows are provided to help ships leaving the system through Montreal Harbour.

**Comment and Q.:** Continual studies are being done. The Study fails to include the marshes. The marshes are necessary for cleansing the water. If you pull the water out a cattail cannot do its work. Wells are going dry and the marsh is being drained. A consultant did a \$88,000 (U.S.) study of water levels in Braddock Bay to determine where six-foot water levels are, but water levels now are lower than this. To study this isn't enough - the fact is the water levels are too low. What about water in marshes? Need water over the cattails.

**A.:** The Technical Work Groups are studying the environment and the wetlands. Braddock Bay is one of the wetlands that will be studied. Suggested contacting Mark Bain.

**Comment:** I am concerned about fish spawning, the swamps, and waterfowl. The introduction of foreign species out of ballast water is very destructive. The water was down so low this year I couldn't take my boat out. There is a great deal of destruction around bridge abutments because of the ice jams.

**Comment:** It will be difficult to maintain a balance that will keep everyone happy. I have pictures of my property during Hurricane Agnes during early damage; severe damage. I have boated in Braddock Bay since 1957. Low levels in wetlands are not only a function of water level, but also silt from runoff. Bays are building up sediment that does not get flushed out. I prefer levels at long-term average.

**Comment and Q.:** Water quality has been decreasing over the past seven years and algae growth is a major concern. What Technical Work Group is addressing this situation?

**A.:** This question was raised during our afternoon roundtable. The issue should be covered by Environmental or Water Uses TWG.

**Comment:** I am concerned about low levels between Clayton and Cape Vincent. I have to withdraw my boats in August. The fishing season is way down and has degenerated. I lost my dock because the water level is so low that ice forms and then damages it.

**Comment:** In mid-August, water levels decline too rapidly. I used to fish in the Long Pond Road area. If the water levels stayed higher longer I could boat past Labor Day. Now I need to go fishing in other areas. I consider levels unnaturally low.

**Comment and Q.:** In the 1950's I used to drive my truck down the beach. Where did the beach go?

**A.:** There is insufficient water coming in and this was a dry season. The other lakes are way below their long-term average. When there is high water, there are sandbars. Now all of the sand has moved out into the lake.

**Comment:** Silt in the bay is a result of chemicals released in the 60's and 70's, which killed vegetation and left sludge. I stress educating people about proper use of property and the value of vegetation.

**Comment:** Opposed diverting water to Southwestern U.S.

### **Public Meeting in Burlington, ON**

#### **Afternoon Workshop - Q. and A.:**

**Q.:** Regarding information that has been gathered through the mapping of coastal topography and bathymetry applied from Hamilton Harbour to where the Niagara River comes in and from that point over towards Toronto, it appears no further information is required. Is there a need for more information in that area or is there nothing to study?

**A.:** To evaluate needs through topography and imagery for the entire system; the cost to cover both shores to Trois-Rivières was estimated at \$5 million (Canadian). Due to budget restrictions, Technical Work Groups examined only the areas lacking information or in need of concentration. A contractor was hired to collect and investigate data. It was found that some areas had a lot of information but from Hamilton Harbour to Niagara it was lacking and needed work. As a result, over the first year, a priority was made to look at this deficient area. Basically, the shoreline from Burlington through to the east end of Toronto has been somewhat protected and is hardened. This area is not as sensitive to water level fluctuations as is the shoreline from here to Niagara, which is erosion prone. The view of the Study Board was that the response to changing water levels from here to Niagara was needed. More analysis of water levels is needed to study erosion rates. A driving force in this study is that the high water levels experienced around the lake over the last 10 years have increased erosion. If levels were dropped, the impression might be that the erosion would decrease, but not necessarily. You have to understand the dynamics. Specific areas of the shoreline are to be studied. From here to Toronto are many high priced properties. However, we also have to look at how wetlands respond. Information on water depths is needed to examine the impacts of changing water levels.

Recent detail on bathymetric data is available at the Royal Botanical Gardens. Aerial photos are being reviewed at the Canada Centre for Inland Waters.

**Q.:** Regarding basic information on the Lake Ontario shoreline, who was contacted for information?

**A.:** The Conservation Authorities and municipalities between Toronto and Niagara have been contacted. A lot of regional data is in place but exactly who has what needs to be organized.

**Q.:** When I first found out about the Study through a newsletter and when I received the map shown today on the slides, I was disappointed that aerial photography was planned for the south shoreline of Lake Ontario from Grimsby to Hamilton but no bathymetry work. The shoreline in this area is eroding. Years ago, profiles were done but as federal and provincial money disappeared the Conservation Authorities were unable to provide funding and it was discovered that the instruments being used were beyond the detection level from year to year. This is seen as a gap, which comes up frequently in conversation. The erosion is occurring because of the down cutting of the lakebed. The information on this is old and the rate of erosion is unknown. The second gap relates to local planning concerns and we do not know what is happening in terms of local fisheries issues. The levels of quality control and quantity control continue to be debated, especially with restraints on resources. We are not sure of what we are to be protecting and we also are lacking a biologist on staff. Any comments?

**A.:** Those messages will certainly be taken back. With regards to the fisheries, the relationship between water levels and fisheries is one issue. Other implications exist.

**Q.:** Is the erosion problem in Hamilton Harbour a priority?

**A.:** We are still investigating all of Lake Ontario. Once that is done, characteristic sites will be selected. There is insufficient funding to cover the entire lake. Erosion data will be considered when reviewing these sites.

**Q.:** How much regulation is actually occurring or are lake levels changing due to seasonal variations or level variations?

**A.:** It is a combination of both, based on water supply conditions, i.e. low supplies and low levels. The output is generally made on a weekly basis. However, daily changes can happen and some short-term changes do occur due to critical water level intakes that are needed. Supplies in the water level situations basically dictate the flow but deviations are needed. The regulation was developed in 1958. As soon as the regulation started, supplies began that were never experienced earlier. Deviations occurred when wet conditions were encountered in the 1970's and 1980's. In the new Study, various extremes will be reviewed to develop a modified plan. Historic averages and projected levels are charted to show water level variations before and after seaway construction. A lot of variation occurred during construction. The variation has been reduced from eight feet to less than six feet, and the target is four feet. Water supply since the 1960's has been fairly extreme and the 1.2 metre (4-foot) target could not be achieved. It is actually the dam that has caused the range of fluctuations to be squeezed considerably. When you squeeze the range of levels on the lake, the flows will change in the St. Lawrence River.

Consideration of many details will be incorporated with the new plan. In the presentation, a slide was shown to illustrate the control of flows. If the flow is altered at the Moses Saunders Hydropower Dam to effect a two centimeter change and enough extra water is let out at the Dam to lower the lake over one week, this is an example of an artificial change versus a natural change. Holdbacks or releases will impact the various water levels. For example, holdbacks over and above normal controls made to increase levels in Lake Ontario would impact other bodies of water and would either raise or lower lake levels in other areas of the St. Lawrence.

**Q.:** How long does it take to store the water? Is it a gradual process?

**A.:** It is done on an opportunistic basis. If there is a lot of precipitation then you can store a bit extra on the lake. The spring thaw offers an opportunity. These opportunities, however, are fairly short-term and will depend on supplies.

**Q.:** I think the reality is that we cannot be storing now at this part of the lake because of shipping on the seaway at the lower part of the Montreal Harbour where problems are occurring.

**A.:** There is a very small opportunity now for storing water. At present, approximately one third of a centimetre per week can be stored with the rain over the last few weeks. The lake is already going up naturally.

**Q.:** I understand that the goal of the RAP (Remedial Action Plan) is to keep a 1.2 metre (4-foot) range throughout the year. Does that relate to the average mean of Lake Ontario at 74.7 metres (245 ft.)? Does that translate to trying to keep it from 74.1-75.3 metres (243-247 ft.)? How does that work?

**A.:** It is set as a goal not to go above. Under the existing plan, it is preferred for the lake to stay around a 1.2 metre (4-foot) range. Under the new plan, that number may change.

**Q.:** What are people asking for on the low end (of the range)? It is the lower water that affects the boaters. I've heard some comments that the Rochester area has erosion. What type of level are they looking for? Basically, the north shore boaters don't have major problems with the average. When you get substantially below the average that is when problems start to occur. Can you give us a minimal level that is acceptable with the boating community?

**A.:** In July, levels are fine. At the end of August, Frenchmen's Bay and other small bays and rivers start to have problems. The need for a range from May 1 to October 31 is starting to be better understood. Most clubs expect a drop after that time. A 74.7 metre (245.1 ft.) maximum and 74.2 metre (243.4 ft.) minimum range is desired.

## **Discussion**

Participants continued to discuss items of interest. Concerns on the management of wetlands were expressed.

- **Cootes Paradise**

Regarding fish and wildlife habitat restoration, work continues on the marshes at Cootes Paradise and Grindstone Creek. A fishway has been constructed at the Desjardins Canal in an effort to control carp movement. Through the Remedial Action Plan, one goal is to restore Cootes Paradise as a wetland and to increase emergent and submergent vegetation. In response to earlier discussion on the change in ranges from eight feet historically to four feet at present, it was noted that without such a range problems are presented for wetlands. Two to three successive years are needed to re-establish aquatic vegetation. A lake level of 74.4 metres (244 ft.) is preferred during the growing season, which coincidentally corresponds to the boating season. Wetlands are very important to fish farm areas. Higher water levels are needed to enhance spawning. Degraded wetlands need to be restored.

The regulated treatment of the lake was compared to the similar management of a reservoir and was considered disturbing. With regards to cycles, if a series of lows could be achieved for three years, it is probable that the wetland at Cootes Paradise could be restored and a strong plant community established to the point of where it could survive other conditions and future shocks of water levels. Within one year, Grindstone Creek could be turned into an instant marsh if proper growing conditions were available. Exposure to water during germination is critical in the early growing season. Plants will become better established with high water levels. Wetlands rely on exposure and periods of flooding. The compression of water levels, dynamics, characteristics and the level needed to get the best exposure are points not to be overlooked. It was expected that two to three dry years at Cootes Paradise are needed to get 10 years of good wetland conditions. It was requested that these concerns be considered as an environmental issue for future planning.

It is a challenge to reconcile goals of the wetlands when in conflict with goals of water retention for other purposes. The idea of controlling Cootes artificially was raised.

- **Rattray Marsh**

Rattray Marsh is located between Burlington and Toronto. It is an unprotected area with a natural shingle beach where the water fills in by rain and sediment falls in when the pressure is too great. If water levels in Lake Ontario stay low, there is no opportunity for build up, then the birds and fish are lost. Neighbours are concerned with dredging. Low levels cause a problem. With low levels, the shingle bars cannot build up and only a river is achieved. High levels are not a problem because the wetland spreads nicely. It was noted, however, that a winning condition for one wetland can be a loss for another.

- **Conclusions**

Wetland discussions were very informative. It was noted that various wetlands respond in different ways. Both good year experiences and bad should be detailed in order to

review the conditions needed for wetlands to flourish. The required elevations are recognized but exactly how representative this information is to other wetlands is unknown. Characteristics of the four major wetlands need to be further studied to learn more on how they relate to the basin.

Basically, water levels will be controlled artificially, similar to a reservoir, whether regulated for environmental concerns or for shipping. The fact remains that dams exist across the river. The environment will experience adverse effects. It is a complex situation. There certainly are limits. The regulation plan by itself will not solve everything. However, the integration of various interests and economic relationships would be considered.

The balancing decisions are based on serving several purposes. Trade-offs are needed and in reality, flows are deviated from the plan. Running different scenarios over a course of time will help to determine what some of the trade-offs might be. The upstream controls the system. The objective is to get an appreciation of the system as a whole since upstream and downstream perception of controls and costs can contrast dramatically. The primary goal is to preserve the integrity of the system.

#### **Evening Open Meeting - Questions from the Audience:**

Comment cards were gathered for discussion and questions were raised.

**Q.:** You said you could control to within four feet. Is that correct?

**A.:** No. The amount of water coming from the Great Lakes varies over high years and low years. Since the project has been in operation, they have lowered the upper part 60 centimetres and they have raised the bottom 60 centimetres (24 inches). That is over a long period. In a given year, the lake normally moves up 50 to 60 centimetres (20 to 24 inches). The amount that can be controlled for a given inflow varies from high flows to low flows.

**Q.:** In the Study, are you looking at the effects of global warming?

**A.:** Yes that is certainly one of the elements being considered by the environmental group. Recently, at a meeting in New York, a retired climatologist expressed interest and commented that he felt we were coming into a cycle now that could run as long as ten years.

**Q.:** I noticed all the low levels occurred in the mid-1920's to mid-1930's. Any comments?

**A.:** When somebody like the climatologist says something like that, connected to the 1930's, we will have to really try to see how much we can control. In response to asking how much we can control, for example, one of the sensitive areas downstream is Lake St. Louis with the water intake for the City of Montreal. Another is Montreal Harbour, the major navigation center. If they don't keep a little water back in Lake Ontario over the summer, then in the fall down at Montreal they are running the ships aground. So, there

is a certain amount of control possible. But just to give you an idea on the scale of what they deal with, early in last summer they had 7 centimetres (2.8 inches) of extra water. Then as the summer went by and the levels were so low, some ships that were given clearance to come in to Montreal were then told they are short 15 centimetres (6 inches). At that point, they can call the Control Board to send down a block of water to raise the level just so much.

**Q.:** I understand that you are saying you need some controls. Staggered barrages have been built on other rivers with the same problem. Any comments?

**A.:** Studies on this were done 30 years ago. Montreal sells itself as being an open-sea harbour and if you start telling these deep-sea captains that they have to go through two locks, to get to Montreal... You have to have keep the water up to get around it.

**Q.:** When you raise the water two centimetres (0.8 inches), it comes up 30 centimetres (12 inches), so in high water you are making more power. Do you have any kind of an agreement with the power companies?

**A.:** Yes, they were the ones who guided us through the original development of the plan.

**Q.:** How does this relate to Cootes Paradise?

**A.:** At Cootes Paradise, a number of factors are considered stressors. One major stressor is water levels. At the start of the growing season, exposed mudflats, and we saw this in 1999 in a portion of the mudflats, the seed bank that is there, will suddenly blossom and plants start to grow. Even if the water level is coming up, as long as the growth stays head above water, that growth will continue. If you have a condition where year after year, you come so close to that seed bank being exposed, but if not exposed, you don't have growth. So the low water level regime is important to the Cootes Paradise marsh. It can make a difference of seeing a 15 to 50 percent increase in emergent aquatic vegetation formed under those conditions. If water levels in Cootes Paradise marsh, or any other marsh, didn't fluctuate and once in awhile we had a high regime in order to drown some of those tall standing plants, we would have only cattails. It is a limiting factor as to how much of the marsh is formed depending on water level fluctuations. A good place to see the impact of water levels is at the mouth of Grindstone Creek, where you have similar mudflats. Restoration of the marsh is limited if water levels do not cooperate.

**Q.:** What are the effects of re-licensing the power plant operations?

**A.:** Re-licensing does not have anything directly related to this Study.

**Q.:** From your slides, it says that 85 percent comes from the upper lakes. If everything is regulated, what good will it do us? Is there anything to look forward to?

**A.:** In any river project like this, Mother Nature is always in charge. We have to live with what she gives us and 85 percent of that is coming down from the Great Lakes. So with the regulation plan, we will take into account the different levels of supply from the upstream area. If, for example, we have 7,000 cms (247,200 cfs) available, we will control that to satisfy all criteria. If we have 8,000 cms (282,400 cfs), the plan will be slightly different. Each time the effort will be to satisfy the whole system the best we

can. We have to remember that we have many contradictory interests. The objective of the 1993 study was driven by people thinking that control dams would help water level fluctuation issues. The conclusion from that study was that building dams was not the solution. You could certainly reduce the range of water level fluctuations on the upper lakes but in order to do so you also have to change the outflow further downstream.

**Q.:** What are the impacts of low water levels for boating on the upper lakes?

**A.:** At the western end of Lake Ontario, water levels are an issue for boaters. This is not so much a problem here but boaters would like to see higher water levels, clean water and fish in the water. We need to widen the range. It is probably a long-term educational issue and compromise is needed as we go along. Seasonal fluctuations can be a concern.

**Q.:** Regarding the municipal water requirement, are we at the low end of a 30-year cycle?

**A.:** In terms of a short-term or long-term cycle, where we are, is an issue to be examined. There is a study underway in the boating community and critical lows and highs will be examined. One-page position papers should be drafted by the various interest groups to outline the dynamics to be studied.

**Q.:** Does anybody regulate the Chicago diversions?

**A.:** Yes. From a U.S. Supreme Court decision that predates the Boundary Water Treaty of 1909, they have the right to take out a certain amount of water, 91 cms (3,200 cfs). Due to concern expressed from both sides, a clause outlines that a specified amount be capped.

**Q.:** Is diversion done by the state of Illinois?

**A.:** Yes.

**Q.:** Are studies being done for the other four Great Lakes?

**A.:** Yes.

**Q.:** Is there funding?

**A.:** Yes, through the IJC.

**Q.:** How much does the evaporation vary from year to year?

**A.:** In terms of millimetres per year, in this area, on a dry summer it might amount to 300 millimetres (12 inches) and for a wet summer 100 mm (4 inches). There is a lot of variability. No numbers are confirmed. That number will be researched for next meeting. The Royal Botanical Gardens or Guelph University may have information available on that number. Pan evaporation sites would vary a lot. There is no way to define this throughout the entire Great Lakes. Temperature, evaporation losses and water temperature are factors to be considered.

The Public Interest Advisory Group thanks those who participated in their meetings for their involvement and comments. Over the course of the next four years, other presentations will be provided and progress will be reported.

## 2.b Year 1 Survey Results

A survey (see Appendix C) was made available during PIAG meetings for the purpose of providing a vehicle for feedback following the meetings. It was not the intent of the survey to obtain a sampling with any specific statistical power. Rather, many people do not care to make public comments at the meetings plus they and others want time to put their thoughts together before raising questions or making comment. All information received on the survey was captured in an MS Access database. Comments from the comment section of the survey are listed in Appendix D.

The initial Year 1 Survey was designed to solicit input in any or all of three categories:

- Coastal/Shoreline Erosion
- Environment and Wetlands
- Recreational Boating

The main body of the survey was divided into two parts. The first part asked members of the public to identify the geographic area of the system where they resided or where they used the system. They were also asked to approximate the critical high and low water levels that caused them problems or hardships for their area or use. The second part of the survey asked for their comments in the three areas of concern identified as well as additional general comments they would like to offer.

### **Part One**

Approximately 230 surveys were returned to PIAG. About 90 percent of these were from the U.S. and virtually all of the returns received were from the public/stakeholder meeting audiences. The results of survey returns by geographic area are indicated in Table 1. Unfortunately, both from the perspective of meetings held and surveys completed Year 1 involvement of the public in West and North Shores of Lake Ontario and Lake St. Francis is substantially less than other geographic areas of Lake Ontario and the St. Lawrence River.

**Table 1**

<b>Geographic Area</b>	<b>Responses</b>	<b>(% of Total)</b>
Lake Ontario - South Shore	114	(50)
Lake Ontario - West Shore	2	( 1 )
Lake Ontario - North Shore	0	( 0 )
Lake Ontario - East Shore	50	(22)
St. Lawrence River - 1000 Isles to Lake St. Lawrence	36	(16)
St. Lawrence River - Lake St. Lawrence	14	( 6 )
St. Lawrence River - Lake St. Francis	1	(<1)
St. Lawrence River - Lac St. Louis/Montreal	3	( 1 )
St. Lawrence River - Lac St. Pierre	7	( 3 )
No Location Given	3	( 1 )
<b>Totals</b>	<b>230</b>	<b>(100)</b>

Among all 230 respondents to the survey, 152 (66%) indicated a specific **high** critical water level, 99 (43%) indicated a specific **low** critical water level and 87 (38%) indicated **both** specific critical high and low levels. The distribution of those identifying critical water levels survey results across and within geographic areas is identified below in Table 2.

**Table 2**

	<b>No. of Responses</b>	<b>Identified Critical Levels</b>		
		<b>HIGH</b>	<b>LOW</b>	<b>BOTH</b>
<b>GEOGRAPHIC AREA</b>				
Lake Ontario - South Shore	114	78 (68)	37 (32)	37 (32)
Lake Ontario - East Shore	50	29 (58)	20 (40)	16 (32)
1000 Isles to Lake St. Lawrence	36	30 (83)	21 (58)	20 (55)
Lake St. Lawrence	14	11 (79)	13 (93)	11 (79)
Lac St Louis/Montreal	3	1 (33)	1 (33)	0 (0)
Lac St. Pierre	7	2 (29)	6 (86)	2 (29)
No Location Given	3	1 (33)	1 (33)	1 (33)
Totals	230 <sup>2</sup>	152 (66)	99 (43)	87 (38)

These results were consistent with those in other parts of the survey. Responses above fifty percent within an area appeared to indicate a significant concern by the public. For example, 58-68 percent of Lake Ontario (South and East shores) residents indicated a specific high critical level, while only 32-40 percent specified low critical levels. Residents on the St. Lawrence River above the Moses-Saunders Dam demonstrated concerns for both high levels (79-83 percent) and low levels (58-93 percent). Respondents from Lac St. Pierre were most concerned with low critical levels (86 percent).

It was apparent that our survey left many respondents confused as how to determine their specific high or low critical level (i.e., vertical *vs.* horizontal measurements). The numerical results were certainly less useful than was their interest in identifying their critical levels. Among those respondents sharing some common levels (Lake Ontario and the uppermost reaches of the St. Lawrence River), most wanted a less than a four-foot range. Not surprisingly, Lake Ontario south shore residents favored an upper limit somewhat lower than that preferred by upper St. Lawrence River respondents.

## **Part Two**

The second part of the survey asked members of the public about their general concerns and other information they might care to share with us, in their own hand, in four categories (see Table 3). The respondents made at least some comments on every survey returned. The approximately 20,000 words of comments were entered into the MS Access database. The complete text of these comments has been collated and sorted by category and geographic area.

<sup>1</sup> Percentage of responses within the specific geographic area.

<sup>2</sup> Responses from areas without any indication of levels (3 - Lake Ontario - West and North and Lake St. Francis) were not included in Table 2

They appear in four separate attached reports (Appendices D.1 through D.4). Table 3 shows the distribution of the category comments received across all of the geographic areas.

**Table 3**

<b>Comment Category</b>	<b>No. of Comments</b>	<b>(% of Total)</b>
Shoreline Erosion/Damage	152	(66)
Recreational Watercraft Problems/Concerns	149	(65)
Environmental Observations/Concerns	110	(49)
Additional Comments	160	(70)

PIAG members with special interest and knowledge in the various categories reviewed the four reports individually and collectively. These comments are meant to give readers an overview of the various and diverse needs and opinions about desirable water levels within the parameters of study as tabulated through January 14<sup>th</sup>, 2002. Any surveys returned after that date will be summarized in the PIAG year 2 report. Comment summaries follow:

#### **Coastal/Shoreline Erosion Comments Summary**

Respondents from Lake Ontario largely favored having lower water levels rather than higher levels, detailing individual circumstances of property damage and highlighting the years in which the most damage occurred.

On the east shore, respondents favored lower levels. Ten respondents noted erosion and loss of land including beaches and points, three noted loss of dunes, three loss of banks, two loss of trees, two damage to stairs, three the need to move buildings, and others damage to docks, boat ramps and decks. The most significant damage was attributed to circumstances in 1972, 1973, 1995 and 1996.

On the south shore, basically all respondents favored lower water levels. Forty-one respondents described loss of land including beaches and frontage, 34 noted damage to break-wall structures including rip-rap, 15 described damage to homes, nine described loss of trees, and others described damage to docks (eight), stairs (six), hills and bluffs, boathouses, decks, boat hoists, ramps, boats and launches. Damages were described as happening in 29 of the last 52 years, but the years in which the most damage was indicated included 1973, 1993, 1996, 1997, 1998 and 1999.

From the west shore, the one respondent noted problems with high water levels and cited break-wall damage in 1998.

Among the respondents from the St. Lawrence River - Lake St. Lawrence region, seven of nine cited soil and shoreline erosion problems. These problems were associated with high water levels, high flow rates and ship's wakes.

In the St. Lawrence River - Lake St. Peter region, all four respondents favored lower water levels, damages were cited in 1993, 1994, 1997 and 1999, and the problems noted included basement flooding, shoreline erosion, dock damages and ship wakes.

In the region of the St. Lawrence River from the Thousand Islands to Ogdensburg, eight respondents cited problems with high water levels and two noted low water problems. Damages were described as affecting docks, seawalls, buildings and banks, and as occurring primarily in 1973, 1993, 1994 and 1997.

While respondents generally urged lower water levels, survey results suggest that there may be some common position as far as the operational range of a regulation plan. It may be possible to maintain water at levels fully useable for boaters from May to September and then beginning to drop levels immediately thereafter, for the winter and spring, rather than dropping the levels significantly in July and August. The exact range of levels would be determined by the TWG's.

Finally, there is a general consensus that is in error by the participants of the survey on how the lake and river interact. This leads to a misjudgment on how fast the regulation plan can affect changes in levels on the lake. Put another way the mechanics of the regulation plan are not understood.

### **Environmental Comments Summary**

The theme for Lake Ontario survey respondents was high-water erosion and environmental damage. Lake St. Peter and Thousand Islands to Ogdensburg respondents indicated low water decreases spawning and vegetation conducive to fish. In the Lake St. Peter area it was indicated that cattail growth is over-taking area mudflats.

As with most issues concerning the water levels of Lake Ontario and the St. Lawrence River, there were concerns about high water affecting certain aspects of the environment, low water affecting others and constant levels causing damage as well.

#### **Lake Ontario - East Shore:**

Many were concerned about erosion of dunes, loss of bank vegetation, as well as other natural features with high levels. Vehicular damage to dunes and bird nesting is a problem. At low levels, there is less fish spawning and a loss of fresh water supplies.

#### **Lake Ontario - South Shore:**

High water had destructive impacts on public and private property including environmental detriments such as the destruction of dunes, spawning areas, waterfowl nesting sites and wetlands. Low water has drained wetlands and impacted wetlands and fish spawning. Algae problem is worse every year.

#### **St. Lawrence River - Thousand Islands to Lake St. Lawrence:**

Low water levels have affected spawning areas, other habitat and in the fall lead to greater weed growth. Interest was shown in greater fluctuation as well as higher levels. Loss of wetlands due to fluctuations in water level.

St. Lawrence River - Lake St. Lawrence:

Seaweed clogs everything. Seasonal timing and abruptness of the water level changes are critical. Two large wildlife management areas are located here. Some interests adversely affected by high levels, others at low levels.

St. Lawrence River - Lake St. Peter:

Wetlands have been completely changed. Cattails have encroached and reduced the number of plant and bird species since there are not the wide fluctuations as there was before the Seaway. Primarily low water issues.

St Lawrence - Lake St Louis:

Three individual comments stated that during low water intervals, people cannot launch boats.

In conclusion, wildlife picks its own areas and suffers when we interfere.

**Watercraft/Recreational Boating Comments Summary**

**Lake Ontario - Upper St. Lawrence River**

Adequate Water Depth - Slow Speed and Calm Water:

Generally throughout the area of study adequate water for 95% of recreational boaters operating at slow speeds with small swells, normally in a channel or approaching docks is loosely interpreted as between two to three metres (8-10 ft.) of depth.

Floating Docks:

Where floating docks exist in an area and approaches to the docks have a consistent minimum adequate depth then moderate fluctuations of the water level are generally not a problem. In a few areas where a fixed break wall exists, high water may make the break wall ineffective.

Low Water Safety Issues:

Low water can cause damage to keels, rudders, shafts and props due to running aground. In addition to the potential of major expense it is first and foremost a matter of safety. Grounding or other damage generally reduces or makes steerage and control of the craft ineffective. This can cause collisions with other vessels or objects and restrict the ability of the craft and the crew to reach a harbour of refuge, safe anchorage or docks.

Weeds growing to within two metres (six ft.) of the water surface can have the same dangerous affect.

High in the Spring - Low in the Fall:

Recreational boaters generally realize the affect of higher water levels in the spring and water levels too low in the fall. The reduced depth is normally felt starting in mid-August. In

some cases people report that the early high water causes damage to docks even to the point of water over the docks. In other cases areas feeling the affect of greater than average drop of the water levels will restrict their usage in late August and September and in some cases need to be hauled out of the water earlier in the fall season than desirable.

#### Silting, Sandy Bottom and River Mouths:

Harbours and channels located at creek and river mouths create their own problems. Sand bottoms, spits and points experience shifting and unpredictable water depths. Boaters are frustrated but understand the nature of the shifting sand and silting problem. Often in the 'pond' areas a greater water depth to assist boat passage would be devastating to the riparians who are often one in the same. Dredging in most areas is only a short term and expensive solution.

#### Fluctuation is too Large:

At the risk of interpreting hundreds of individual comments, most boaters experience various degrees of problems with both high water (normally in the spring) and low water (normally in the fall). While people can design some flexibility into floating docks and ramps that could handle a four-foot range, the reality of bottom depth (low) and flooding (high) in many areas is beyond the capability of design control factors.

### **Lower St. Lawrence River**

#### Pleasure Boating and Tourism on Lac Saint-François:

Lac Saint-François is the reservoir above the Hydro-Québec powerplant at Beauharnois, and as such is maintained at its normal operating level virtually continuously. Peaking and ponding sequences can cause rises and falls in the level either daily or over a weekend in the order of 20 cm. Hydro-Québec's operating permit allows them just 30 centimetres (12 inches) of variation annually, whereas natural variation before construction of the first powerplant in 1928 was about 1.5 metres (5 ft.).

Pleasure boaters find this an ideal arrangement, and take advantage of it from early in the spring until late in the autumn. Fishers and water-fowl hunters also consider the lake one of their favourite haunts due to its constant level.

Most of the tourism around the lake is associated with the environment at two main centres, the Lac Saint-François Wildlife Area on the right bank, and Cooper Marsh on the left bank, both of them about 20 kilometres (12 miles) downstream from Cornwall. Although as managed marshes they are isolated from the lake by dykes, the constant level in the lake facilitates control of the marshes and enhances waterfowl movements back and forth.

#### Pleasure Boating and Tourism on Lac Saint-Louis:

Flow out of the lake is controlled by the rock sill at the head of the Lachine Rapids, so the levels are a direct function of the discharge going over this natural layout. In 1999 and again in 2001, summer water levels have been very close to record low levels recorded about 65 years ago, in the range of elevation 20.7 metres (68 ft.), corresponding to a flow leaving the Moses-Saunders powerplant of about 6,200 cms (218,860 cfs). At the average summer level of 21.5

metres (71 ft.), or a Moses-Saunders discharge of 7,000 cms (247,100 cfs), boaters, marinas and yacht clubs can operate normally, and obstacles in the lake are known and located so navigation is routine.

As the level falls below 21.5 metres (71 ft.), the problems arise progressively. At first, deep draft sailboats cannot get in or out of the harbours, or if they do, they run the risk of hitting obstacles in the lake that they would normally go over safely. Next, shallower draft sailboats and larger powercraft are hindered in their movements. Finally, as in 1999 and 2001, with the levels about 80 centimetres (31 inches) below average, the harbours and lake are limited to usage only by shallow draft runabouts or hunting and fishing boats. Serious problems were encountered in launching boats in the spring, and even worse in trying to get them out in the autumn. The disappointment and economic loss to the marina and yacht club operators is obvious.

One other major impact of this situation on the industry is the loss of interest by the boat owners in pursuing their activity any longer. The summer period is very short in Québec; people have always made full use of the summer, and in this industry, it scares everyone when you invest thousands of dollars on a boat that you can't sail where you want to because the water is too low.

Tourism on the lake is associated mostly with boating, say fishing and hunting, with some birdwatching in the wetlands on the south shore. Recent low water levels did allow some regeneration of vegetation on the exposed mudflats which was interpreted as an advantage for shorebirds.

The collective preference is to maintain the lake at 21.5 metres (71 ft.) with a Moses-Saunders discharge of 7,000 cms (247,100 cfs) or greater over the summer and into the autumn to allow safe removal of the boats from the water. High spring flood levels must exceed 22.5 metres (74 ft.), corresponding to a Moses-Saunders discharge of 10,500 cms (370,650 cfs), before they cause any damage to harbour works. Levels below this value down to 21.5 metres (71 ft.) are considered as improving boating operations.

Residents of the islands in the Lachine Rapids and operators of rapids-shooting tour boats would have requirements similar to those for Lac Saint-Louis, and would benefit from the same criteria described above.

One respondent suggested construction of the Lachine Rapids Power Project, that was last proposed in the 1980's. It includes a dam at the head of the rapids that would maintain Lac Saint-Louis at elevation 21.5 metres (71 ft.) all year long. The project was refused by the provincial government on environmental grounds, in particular concerning the wildlife conservation areas on the islands in the rapids.

One of the key attractions for pleasure boating is the presence of an ample supply of sports fish in the lake. The low waters of the last two to three years are suspected of having severe negative effects on fish spawning. For example, during the summer of 2001, over 25,000 carp died as they all tried to spawn on the reduced area spawning beds in Lac des Deux Montagnes, Lac Saint-Louis and down as far as Québec City.

### Pleasure Boating and Tourism in Montreal Harbour Reach:

Chart datum in Montreal Harbour is elevation 5.55 metres (18.2 ft.), normally corresponding to the lowest level possible, while average summer levels are about 6.5 metres (21 ft.). During the summers of 1999 and 2001, water levels were below chart datum for long periods, with daily minimums of 5.4 metres (17.7 ft.). With about a metre of water missing in the reach, pleasure boating was virtually shut down for all except small runabouts and fishing boats. Rapids-shooting tours were alright, since they operate out of the main harbour, so have lots of water for their shallow draft jet-boats in the harbour area, and encountered problems only when they went up the Lachine Rapids.

The preference in this reach is to maintain a summer level of 6.5 metres (21 ft.), which would require the same Moses-Saunders flow of 7,000 cms (247,100 cfs) as described for Lac Saint-Louis. Spring flood damage to marina and yacht club works begins at elevation 7.5 metres (25 ft.), corresponding to a local discharge of about 12,000 cms (423,600 cfs). Occurrence of such conditions are complicated by the varying contribution to the flows around Montréal Island from the Ottawa River, so it is not possible to suggest a corresponding Moses-Saunders discharge.

### Pleasure Boating and Tourism on Lac Saint-Pierre:

Similar to the other reaches immediately upstream, flow out of the lake is controlled by the natural bathymetry of the outlet, so the levels are a function of the discharge. However, the situation is complicated by the presence of tidal level changes which come up the St. Lawrence and are damped out in the lake. Low-tide average summer level is 4.3 metres (14 ft.), and the waterfront infrastructures are built to function at this level.

Low water levels over the last three summers, 1999, 2000, and 2001, down to 3.7 metres (12 ft.), caused severe difficulties for marina operators and sailing schools on the lake. Some were shut down. Preferred water level is that corresponding to a 7,000 cms (247,100 cfs) or greater Moses-Saunders outflow, which would give a low-tide water elevation of 4.3 metres (14 ft.) or above.

Another aspect of the impacts of sustained low water levels on the boating industry in the area of the Lac Saint-Pierre, is in reference to the majority of marinas being located on the shores of smaller streams feeding the lake. The outfalls of these streams become jammed with sand when the water levels or currents are too low to keep them clear. During the peak boating season, boaters can find themselves stuck in the stream or unable to come back in. This has resulted in many requests for dredging rivers, with the well known financial and environmental costs associated with these operations, particularly for the disposal of the sediments.

Flooding by high water is not a major concern, since most of the shore works take into account the occasional ice jam at the lake outlet that can raise the levels several metres. High discharges in the order of 11,000 cms (388,300 cfs) in 1993-1994 and again in 1997 were inconvenient at times, but caused little damage.

## **Additional Comments Summary**

As previously mentioned, seventy percent (70%) of the respondents provided some feedback to PIAG in this category. Many comments were simply a continuation from another category, and quite similar in nature. More often, respondents made general comments in this category, expressing their feelings and opinions on the manner in which water levels were being regulated. Comments here were more apt to be interpretive of the causes of problems and to place blame on those they believed to have caused them.

The review of the comments in this section leads this author to conclude that there are clearly defined "*information gaps*" and "*trust gaps*" between the public and the regulating bodies. We must examine, understand and bridge these gaps if we are to communicate with the public effectively during this ongoing study process.

The public seems to be well aware that there are differing concerns and desires throughout the system and that everyone cannot be happy all the time. This has been repeated to them many times over the years - many feel they have been beaten over the head with this concept. However, few understand *why* this is so. Few understand how the system works and don't understand the terminology used when attempts are made to explain it. There exists both a lack of understandable information and an abundance of misinformation.

We are always using the terms of *average* and *long-term averages*. To most people, the term average is not interpreted as - the mean value,  $[\Sigma n_0 \dots n_i]/n$ , or the sum of the values, divided by the number of the values, etc., etc. To many, average means ordinary, like "that's a pretty *average* looking person". Our usage of *long-term average* in describing water level control has led many to believe that it is the guide that water levels are supposed to adhere to. Most of those who have an understanding of the term *average*, think of a single value when we refer to the *long-term average* water level for a location (i.e., a *long-term average* for Lake Ontario might be 75 metres (245.5 ft). They are not interpreting it as a *long-term average* for that day of the year. Most believe that the levels are "above average" in the late spring/early summer and "below average" in the fall/winter seasons. Therefore, when they are told in early June that water levels are at their average level, they simply don't believe it and think someone is deliberately trying to mislead them. Many are unfamiliar with the manner and magnitude of the natural rise and fall of water levels throughout the system - throughout the year.

Another area of wide spread misunderstanding is timing and impact of the St. Lawrence River Power Project. Some think it happened as early as 1940. Others believe regulation began in 1952 with the Orders of Approval, in 1956 with the authorization for a regulation plan or in 1958 (i.e., Plan 1958D). Many have expressed a desire to see an unbiased and understandable comparison of pre-project vs. post-project levels and conditions. The lack of such an understandable presentation/comparison has but reinforced the widely held belief that water levels on Lake Ontario have been held *artificially higher* since regulation began. Since the public also generally associates higher water levels with shoreline damage, dune erosion and selected environmental impacts, it is believed that these damages have been *artificially caused* as well. Until the public has a clearer understanding of pre-project and post-project conditions, they will be unable to grasp just what can and cannot be accomplished with regulation plan changes.

There were quite a number of misunderstandings about the system that surfaced through the public's comments in this survey/questionnaire section such as:

- Low water levels occur in the Thousand Isles area because the water levels are raised in Lake St. Lawrence to aid shipping.
- Water levels drop sharply in the Brockville area each year in August because of the additional water released at the Iroquois Dam.
- Low water levels occur in Lake St. Louis because Hydro Quebec holds the water back at Beauharnois.
- Lake Ontario levels cannot be adjusted in March/April because the St. Lawrence River is still frozen. Lake Ontario levels have to be lowered before November 15-25 before the river freezes.
- Present regulatory strategy is to go into winter with high Lake Ontario levels.
- Since the 1950's Lake Ontario has been kept 0.5-0.6 metres (1.5-2 ft.) higher for shipping and hydropower interests.
- Homes have been built up north where they never were before (Montreal) and now those people complain about flooding.
- By regulation, Lake Ontario was supposed to be kept at 73.8-75.0 metre (242-246 ft.).  
Why then is it being kept in the 74.4-75.3 metre (244-247 ft.) range?
- Lake Ontario levels have varied 0.9 metres (three ft.) each year over the past five to six years.
- The U.S. Army Corps of Engineers makes up the average levels and they don't compare with local observations.

These are but a sampling of the comments received. It is clear that many misunderstandings exist. They create a communication barrier or "*information gap*" between the public and the Lake Ontario - St. Lawrence River Study personnel who are trying to exchange information with the public. Only a thorough, understandable and ongoing educational program can bridge this gap. This "*information gap*" is not the public's fault. It is our failure to communicate effectively.

Additionally, comments from our survey as well as those received during our meetings with the public reveal an entrenched distrust for water level regulators - the "*trust gap*". Much of this, of course, results directly from the "*information gap*". People simply will not trust what they do not understand. Unfortunately, this level of distrust appears to have built up in many layers over the years. It will likely take both an independent and authoritative voice to lower these communication barriers. It will not happen overnight. This process should begin as soon as possible in order to establish open avenues of communication ***during*** the Study. If we hesitate and wait until near the conclusion of the Study to initiate this process, it will be too late.

### **3. Public Awareness Tools**

#### **3.a Website**

The website for the Study and PIAG is [www.losl.org](http://www.losl.org). It has received over 3,000 visitors since it was made public in July, 2001.

#### **3.b Newsletter**

The first volume of the Study and PIAG newsletter, the *Ripple Effects* was published in July 2001. Distribution is available by mail or electronically. On the U.S. side, an initial mailing of 2,878 copies was made with a request to send a postcard back if the recipient wanted to remain on the mailing list. Letters were sent to over 200 friends of the St. Lawrence River and 10,000 recipients of the Great Lakes Water Levels Bulletin to ask if they would like to be added to the Study mailing list. On the Canadian side *Ripple Effects* were mailed to over 1,700 recipients. Letters were sent to 1,250 recipients of the Great Lakes Water Levels Bulletin in Canada to ask if they would like to be added to the Study mailing list. Attempts are being made by the communications team to network with other organizations to expand the Study mailing list.

## Appendix A

### Public Interest Advisory Group Members and Affiliation

<b>PIAG Member</b>	<b>Affiliation</b>
<b>Daniel Barletta</b> Rochester, NY, U.S.	Grandview Beach Association South Shore Advisory Committee Lake Ontario Levels Oversight
<b>Bruce Carpenter</b> Rome, NY, U.S.	New York Rivers United Great Lakes United
<b>Dalton Foster</b> Massena, NY, U.S.	International Water Levels Coalition Wilson Hill Association
<b>John Hall</b> Burlington, ON, Canada	Hamilton Harbour Remedial Action Plan
<b>Marc Hudon</b> Québec, QC, Canada	Stratégies Saint-Laurent
<b>Elaine Kennedy</b> St. Andrews West, ON, Canada	Cornwall and District Environment Committee
<b>Michel Lamontagne</b> Montreal, QC, Canada	Ville de Montréal
<b>Cpt. Ivan A. Lantz</b> Montreal, QC, Canada	The Shipping Federation of Canada
<b>Sandra Lawn</b> Prescott, ON, Canada	
<b>Thomas McAuslan</b> Mexico, NY, U.S.	Port of Oswego
<b>Anthony McKenna</b> Olcott, NY, U.S.	
<b>John Osinski</b> Albany, NY, U.S.	New York Power Authority
<b>Fred Parkinson</b> Beaconsfield, Montreal, QC, Canada	
<b>Bea Schermerhorn</b> Hammond, NY, U.S.	Save the River International Water Levels Coalition
<b>Sally Sessler</b> Sandy Creek, NY, U.S.	Private Landowners' Committee of Ontario Dunes Coalition
<b>Max Streibel</b> Greece, NY, U.S.	Rochester Harbor Town Planning/Advisory Committee South Shore Collaborative
<b>Henry Stewart</b> Rochester, NY, U.S.	Lake Ontario South Shore Council International Great Lakes Coalition South Shore Advisory Committee
<b>Michel Turgeon</b> Montreal, QC, Canada	Administration portuaire de Montréal

PIAG Member	Affiliation
<b>Paul Webb</b> Iroquois, ON, Canada	International Water Levels Coalition
<b>Stephanie Weiss</b> Clayton, NY, U.S.	Save the River
<b>Al Will</b> Hamilton, ON, Canada	Ontario Sailing Association

## Appendix B

### Public Interest Advisory Group Meetings

<b>Audience - Organization</b>	<b>Location</b>	<b>Date</b>	<b>Approx. No. of Attendees</b>
Marine Corps League (Det#685) Annual Installation Dinner Meeting	Massena, NY	May 12, 2001	60
Press conference at Lachine Marina	Lachine, QC	Jun 01, 2001	20
International Water Levels Coalition Annual Meeting	Rockport, ON	Jun 02, 2001	57
AGM of ZIP committee Ville-Marie	Montreal, QC	Jun 06, 2001	52
AGM of ZIP committee Des Seigeuries	Varenne, QC	Jun 07, 2001	50
AGM of Great Lakes United Board	Windsor, ON	Jun 09, 2001	20
AMG of ZIP committee Haut-Saint-Laurent	Quebec	Jun 12, 2001	72
Private Landowners committee of the Ontario Dunes Coalition	East Shore - Lake Ontario	Jun 23, 2001	5
Wilson Hill Association Annual Meeting	Louisville, NY	Jul 12, 2001	55
Grandview Beach Association	Greece, NY	Jul 2001	60
North Rainbow Shores Association	East Shore - Lake Ontario	Jul 14, 2001	15
Berthierville Marina	Lac St-Pierre area	Jul 21, 2001	20
Friends of Sandy Pond Beach	Sandy Creek, NY	Jul 26, 2001	12
Ontario Dunes Association	Sandy Creek, NY	Aug 02, 2001	50
Ile Perrot Marina	Ile Perrot, QC	Aug 04, 2001	35
Greece Rotary Club	Greece, NY	Aug 2001	80
Sailing Club - Pointe Du Lac	Lac St-Pierre area	Aug 17, 2001	5
Louisville Marina	Lac St-Pierre area	Aug 18, 2001	7

<b>Audience - Organization</b>	<b>Location</b>	<b>Date</b>	<b>Approx. No. of Attendees</b>
Lake Ontario South Shore Council	Hamlin, NY	Aug 21, 2001	20
PIAG General Public Meeting	Clayton, NY	Aug 22, 2001	53
North Rainbow Shores Association	East Shore - Lake Ontario	Aug 25, 2001	20
Renshaw Beach Association	East Shore - Lake Ontario	Aug 26, 2001	30
Environmental Management Council - St. Lawrence County	Canton, NY	Sep 19, 2001	15
Big Rideau Lake Association	Rideau Lake - Ontario	Sep 22, 2001	15
PIAG General Public Meeting	Rochester, NY	Oct 11, 2001	40
PIAG General Public Meeting	Hamilton, ON	Nov 08, 2001	20
Save the River Annual Winter Meeting	Alexandria Bay, NY	Feb 09, 2002	60
ECO Museum	Ste. Anne de Bellevue, QC	Mar 13, 2002	36
Upper St. Lawrence ZIP Administrative Committee	Valleyfield, QC	Mar 19, 2002	31
Grandview Beach Association	Greece, NY	Mar 19, 2002	100
<b>30 Meetings</b>		<b>Total =</b>	<b>1,115</b>

## Appendix C

### International Joint Commission

International Lake Ontario - St. Lawrence River Study  
Public Interest Advisory Group

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We are asking for your help in describing the water levels that affect you and your area within the Lake Ontario/St. Lawrence River system. At this point we are specifically requesting your input in any (or) all of the following categories:

- I. Coastal/Shoreline Erosion
- II. Recreational Boating
- III. Environment and Wetlands

It is important that members of the public contribute to the current Lake Ontario/St. Lawrence River Study. You have essential information that needs to be included in the overall studies.

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The following definitions have been developed to help you fill out the questionnaire. Please review them.

**Critical High Water:**

- 1) When water levels are sufficient to cause damage to shoreline property and/or erosion.
- 2) When water levels overrun docks causing damage or cessation of business operations.
- 3) When some shoreline environments can be damaged by high water, or suffer if they do not have high water levels.

**Critical Low Water:**

- 1) When low water conditions do not allow use of docks, prevents launching, causes boat damage in normally safe area, or curtails business operations.
- 2) When some shoreline environments can be damaged by low water, or suffer if they do not have low water levels.

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Since the International Lake Ontario - St. Lawrence River Study Board is charged with evaluation of the problems associated with fluctuating water levels in the Lake Ontario/St. Lawrence River system, it is important that you indicate the **DATE** and **LOCATION** of your observations.

**Date:** \_\_\_\_\_ **Location:** \_\_\_\_\_

(examples: In Lake Ontario – Toronto, Rochester, Kingston, Oswego, etc. St. Lawrence River – 1000 Islands, Brockville, Ogdensburg, Morrisburg, Cornwall, Montreal, Trois Rivieres, or distance in miles/kilometers upstream or downstream (N, E, S, W) from a well defined point on the lake/river.)

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From where your water level is today – measure or estimate the vertical distance up to your critical high level and down to your critical low level. Please indicate inches (in) or centimeter (cm).

The distance from today's level ***up to my critical high level*** is approximately \_\_\_\_\_

The distance from today's level ***down to my critical low level*** is approximately \_\_\_\_\_

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#### **Additional questions and comments**

Does the wind's direction have any effect on the conditions you observe? Yes \_\_\_\_ No \_\_\_\_  
If so, from which direction? \_\_\_\_\_

Have you experienced shoreline erosion? Yes \_\_\_\_ No \_\_\_\_ If Yes, what year (s) did you experience the greatest erosion?  
\_\_\_\_\_. How many ft/m? \_\_\_\_\_.

Have you personally experienced shoreline property damage? Yes \_\_\_\_ No \_\_\_\_ Do you know the month/year? \_\_\_\_\_  
Can you describe the damage?

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Continued on back side

Have you had problems with fluctuating water levels and the function of your recreational watercraft, docks or marina operations? Yes  No  . Can you describe the problems and the dates they occurred?

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Are you aware of situations in which fluctuating water levels have an environmental impact in your location (such as in fish spawning beds, waterfowl nesting sites, dune erosion, wetland degradation, etc)? If so, please describe what you have observed. If you can, please indicate the type of wildlife or plants involved. Also include the month and the year of the observed impact.

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**Additional comments on the above issues, or anything else you may be concerned about:**

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Would you like to be informed of further developments regarding the International Lake Ontario/ - St. Lawrence River Study? Yes  No  . If yes, please tell us how to reach you (Name/Address/Phone/Fax/E-mail).

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It is very important that the information you have provided be returned to the Public Interest Advisory Group (PIAG) so we can make it available to the Technical Working Groups researching this information.

Your information can be returned in any of the following methods:

- 1) Give it to the program director of the group/association sponsoring the PIAG program.
- 2) Give it to the PIAG member who just gave the program to your group/association.
- 3) Mail, fax or e-mail it to either chairmen of the PIAG. Their addresses/numbers are as follows:

**United States Residents:**

Dalton Foster  
4 Butternut Ridge  
Massena, NY 13662  
Fax: (315) 769-6232  
E-mail: [dpfoster@twcny.rr.com](mailto:dpfoster@twcny.rr.com)

**Canadian Residents:**

Fred Parkinson  
298 Oakdale Ct.  
Beaconsfield, Quebec Canada H9W 1X2  
Fax: (613) 995-9644  
E-mail: [parkolas@sympatico.ca](mailto:parkolas@sympatico.ca)

**Thank you for your help!**

## Appendix D

### D.1 PIAG Year 1 Survey - Coastal/Shoreline Erosion Comments

Location	Wind Direction	Damage Year(s)	Damage Description
<b><i>Lake Ontario - East Shore</i></b>			
Lake Ontario Montario Point, Mannsville, NY and wind destroyed our sandy beach. Since large boulders and top soil to hold back the	SW	March 1973	Combination of high water that year one had to put in lake.
S. of Monterio Pt. - Rhenshaw Bay area especially 1974 to date - 95-96 blocks are		95-96	Constant erosion of beach - being moved and eroded -
Rainbow Shores, Town of Sandy Creek dune in front of my camp was lost by erosion, of my camp foundation. In the late 1980's and rip-rap put in to replace the 1970's damage of continued erosion.	W, NW	3/73	Approximately 40 ft. of the leaving only eight in front Spring of 2001 some of the had to be replaced because
North of Sandy Pond - Lake Ontario inundation and erosion has been ongoing problem. beachfront. The previously sandy beach filled current changes also, Homes are in danger of			Loss of shoreline via Every year results in less with rocks suggesting collapse.
Lake Ontario - North of Sandy Pond Channel high water combined with severe storms	W	70-76,95,96	Extensive erosion due to conditions out of west.
Lake Ontario- North of Sandy Pond Channel combined to take 1/7th of property depth and put in around 1976.	W	70-75, mid 90's	High water and storms undermine protective wall
Lake Ontario - North of Sandy Pond College put rip-rap in front, we put them in front the same contractor to keep the pounding sand and our house away.	W		The same year Oswego of our place. We also used water from washing the
E. Lake Ontario (Mexico Bay, 2 miles south) casing and cover - 4 ft. dia. cement. Lake well; its clarity, odor, non-potable.	NNW, W	Yearly	Minor wear and tear on well level affects water level in

Oswego Co. @ Selkirk State Park  
undermined my wall which was below water level.  
the beach area by 30 ft.

July 4, 1997      High water & wind  
Intense erosion has reduced

<b>Location</b>	<b>Wind Direction</b>	<b>Damage</b>	<b>Year(s)</b>	<b>Damage Description</b>
Jefferson Park, Sunset Bluff (Lake Ontario) including trees and vegetation and soil steps down to beach. Also the beach with rocks. Basically loss of frontage.	W	1972	Loss of shoreline sand bank becoming close to cottage, disappeared and was left	
Sunset Bluff so bad as to take away good trees. Spring water too high. March the level rises.	w	1972	The bank we live on eroded 1972 and through to now	
Southwick Beach have been about four years (summers) where been allowed to approach 3 feet above average needed to prevent compromising erosion since	W	6/72	Can't remember but there Ontario Lake levels have and sandbags/rocks were 1972.	
Sandy Pond point (3 ft.)	W	1972	Washed away part of my	
Lake Ontario shoreline. It required adding fill and concrete shoreline	W, NW	1976	We lost 10 feet of front block and stone in front of	
Lake Ontario - Montario Pt. camp - off a barge which broke loose - stones windows). Drainpipe was exposed 10 ft.	SW, W	5/72-5/73	Railroad ties were behind were everywhere (to the (boulders, too)	
N. Rainbow Shores - Pulaski, NY recently. Loss of land & cottage moved 2x in movement of rip-rap.	W & N		Dock & boat ramp damage 55 years. Constant loss &	
N. Rainbow Shores Rd. - So. Sandy Pond moved in order to be saved from going into when the water levels are high, and the wind is lose a little bit more property - sometimes it's a few feet - it happens almost every year.	West	1973	Summer residence had to be the lake. Every Spring, strong out of the west we few inches - sometimes it's a	
N. Rainbow Shores (Sandy Creek) washed out, water splashed on cottage - came	NW, W	73, 93, 98	40 ft. sand dune completely through walls.	
Jefferson Co., Town of Ellisburg large flood. Damage has been occurring built on the mouth of the Salmon River.	West		It started in the 70's with the since the breakwall has been	

Jefferson Co. - East Shore - Lake Ontario  
of cubic yard concrete blocks was destroyed  
was washed into the surf.

W/SW 1996 A newly installed bulkhead  
by overriding wave action &

Lake Ontario - just north of Sandy Pond -  
starting to be moved and eroded.

95-96 Breakwall blocks are

Location	Wind Direction	Damage Year(s)	Damage Description
Lake Ontario - N. Sandy Pond concrete walls 36" high - You let the water go down  be let down middle of October - We lose a  because there is no water. Also - our shore line  the lake is dropped too soon.	W-up; E-dn		No damage - I have  a month too soon - should  month of boating season  wells also are low because
Lake Ontario - Woodville, NY - Sunset Bluff	West	10/2000	Bank erosion
Lake Ontario - Montario Point 1986: Stones and debris washed back over the in the house. Raised the cottage 2 ft. to	WSW	1973	Spring of 1973 & Spring  lawn 65'. Flooding occurred protect property.
So. Sandy Pond - Lake Ontario Took big pieces of the dune & sea grass out	W	Fall 1995	Big waves on Lake Ontario.  - trees down also.
Sunset Bluff (3/4 m North of Southwick State) away. I am on a 15 ft. high bluff. During hi  have a beach until Labor Day.			Early 90's. My stair washed water summers we may not
lake side of house.	NW, W	May 1992	Collapse (near) of deck on
Renshaw Bay (near Sandy Pond) N. Parsons feet in width	W		Loss of sandy beach - 30
Sandy Island Beach at North Sandy Pond for 30 years except 2000, 2001. Undercut  built in 1993-4. Current process is considerable water.	W, NW		Dune erosion for most years  dune walkover structure  build-up due to very low
Eastern end of Ontario just north of outlet from wall (2 levels of cinderblock), eroded land  from vacation, dock of house was almost others giving. Deck corner near collapse.	NW	5/92	Water flooded behind sea  behind it and when I arrived gone. One support gone and
Sandy Pond (North Pond) South East end feet of beach on the dune system	West		We have lost as much as 15
<b><i>Lake Ontario - South Shore</i></b>			
Rochester (West Irondequoit) levels have (over the past 10 years) almost  breakwall and caused severe erosion of the 25 protect.	NE		Fluctuating high water  completely destroyed my ft. hill it was designed to

Payne Beach - Hilton, NY  
house, stone outdoor fireplace. Flooded  
our four bedroom cottage.

NE 1973 Lost flower beds & steps to  
entire yard & crawl space of

Oswego  
protections.

East 1993 All my rip-rap shoreline

Location	Wind Direction	Damage Year(s)	Damage Description
Rochester barriers and yard erosion. The following year less basis.	NE	1973	Washed out shore line but on a continuous/regular
Between Youngstown, NY and Wilson, NY washed away. Stone was placed to protect one		winter 2000	Ten tons of stone was end of a seawall.
Lake Ontario, Sodus Bay, Sodus Point, NY carpets, furniture; deck, and dock destruction; winds at that time.	SE, SW, S	Spring 1993	Water damage - floors; wall and windows from
Lake Ontario South Shore, Niagara County; for metal stairs leading up from water was partially - making it and stairs unusable. The repairs impossible without very significant and retaining wall(s).	N, NW	1999/2000	A 12 x 12 concrete landing undermined and has fallen extent of erosion makes expensive construction of
on and off; it is constant. The problem is the is pure cement and it's eroding constantly and			This erosion damage is not lake is too high. Our shore badly.
30 Mi. Point (30 mi. east of Nia. River) 30 ft. lost between 1961-73 for a total of 55 coastal/shore line.	NE	1973-86	Lost 25 ft. in addition to the ft. (5,500 sq. ft.) of lost
Town of Yates (5 miles west of Point Breeze) several trees. As a result we installed a reinforce it in 1991.	NE	April 1973	Lost dock, boat hoist and concrete wall then had to
Rochester, NY jams in the creek that runs the length of my flooding of my home	N	3/93	High water levels led to ice property, which leads to
Payne Beach, Hilton, NY, Lake Ontario homes? If yes, no, we had no damage. If no, then yes, we lost 20 ft. of front lawn.	NW, N, NE		By property, do you mean by property, you mean land,
Hamlin, NY on beach all summer before hi-water. Bank rock work began & continues.	NE	Mar-Apr 50-51	Sand beach gone. Kept boat badly eroded, frontage lost,
Lake Ontario - Rochester (Greece lake front) damaged. Correction cost \$25,000	NW to E	winter 1992	Concrete breakwall was
shoreline embankment; also our stairs down	E		Extensive. We lost 15 ft. of to beach.

Lake Ontario	NW	June 1972	Took away trees and land
Lake Ontario	N	1974	1974 was the worst 20 ft.
Since then about 1 ft. per year. 10 years ago			
destroyed, now I have a 20 ft. cavity.			my breakwall was

Location	Wind Direction	Damage Year(s)	Damage Description
960 Lake Road, Webster, NY 14580 to patch/repair erosion undermining of foundation \$20,000 +			\$5,000 spent in 1999-2000 breakwall; estimate for new
Lake Ontario (4 mi. east of Old Fort Niagara) eroded shoreline well above tones of rip rap.	NE	1998	Lake so high wave action My yard slipped in the lake.
Hamlin, NY behind the NW corner of my breakwall and a considerable expense among many others water.	NW, NW		The wave action washed out endangered my lawn. It was over the years due to high
46 Lakeside Blvd., Hilton, NY (west of were 2 foot or less washed into lake.		4/98	I had rip rap and stones that
Hamlin, NY Rochester being washed into Lake and eroding shoreline	East	1973	Lake walk had to be rebuilt Rocks for retaining wall are
Grand View Beach - Lake Ontario (Rochester, window trim	Northeast	April 1993	Damage to yard, siding and
Williamson Township, 2 miles west of bank between large rocks, plus a black locust tree		1998	10' wide by 6' deep into went over onto beach area.
1 mile west of Lakeside Park wiped out - we are on a bluff and when the steps (~\$10K) came down		1999	Our dock and steps were bluff eroded the dock and
1.8 miles East of 4 Mile Creek, Town of Porter extremely high and constant wave action caused turn causes our breakwall to collapse. The properly in Massena, NY.	N	March 10, 1997	The water level was erosion of land, which in water was not metered
Lake Ontario, Olcott Beach 20 ft. of my property. Destroyed my cribs and had to buy more rocks for protection and from high water Winter of 1998.	N, NE	March 1986	Washed out and erosion of which was my protection they are getting damaged
Rochester, NY breakwall & landscaping ended up in my front	N & E	1993	Lost 20% of installed lawn.
Rochester - Lake Ontario threatened breakwall and our residence which is 20 ft. Significant water in basement, challenging house		7/4/98	Loss of beach (60') behind breakwall.

foundation.

<b>Location</b>	<b>Wind Direction</b>	<b>Damage Year(s)</b>	<b>Damage Description</b>
Lakeland Beach, Kendall, NY - Orleans Co. I lost all 40' in 2 days. 1993 - High water stone. 1997 - Destroyed my L---? Ramp - on my rocks - \$3,000.	NW-N-NE	4-73,4-93,4-97	1973 was Hurricane Agnes - cost me \$4,000 to rebuild forced me to install gabions
Lake Ontario approx. 22' across affecting 6-8' deep into my lot.	NE	1997-1998	I lost a section of bank
Hamlin Lakefront		Winter 97-98	Rocks thrown up on lawn
Oak Orchard-On-The-Lake, Orleans Co., NY		1980's	Undermined Sea Wall
Sodus Bay but we had water & debris up to our 1990-92.			I don't remember the year foundation. It was around
Lake Ontario - Rochester eroded - \$12,000 to get replaced.	NE	1994/1999	One corner of breakwall
Wilson, NY	NE		Continual erosion
Orlean Co. of beach and breakwall - all the sand that more disappeared never to return.	NE	1971-1973	March 17, 1972 - Lost 20 ft. was in the water 150' or
Little Sodus Bay (Fair Haven Bay) washed away & slip filled in with silt.	NE	5/89 & 5/90	Shubbery, trees & lawn
Lake Ontario - Oak Orchard from 79-84. Then again in 96.	NE		Have experienced damage
Lake Ontario several osage orange trees & a black walnut + is very expensive land for lakefront.	N, NE, NW	1994-98	Lost 15 ft. of boat launch - 25 ft. of backyard. - Which
Youngstown, NY		1998	Loss of property
Rochester, NY damage to retaining wall	NE	1973	April to July - Storm
Hamlin, NY rocks thrown into our yard & water splash	All but S		We lost 19 ft. of land & had as close as 38' to the house.
Neighbors had to board windows. Our the high water.			Gabions were taken out by
Lake Ontario lakefront embankment top to shoreline beach partially	E, NE	March 1998	Wooden stairway from damaged at beach level.
Rochester, NY damage to my seawall - broken concrete, holes in my property.	NE	94-98?	High water and wave undermining of patio, sink
Sodus Bay, Sodus Pt., NY	Mostly S D.1-11	4/46	Cottage lake porch floor

destroyed. Cottage had to be moved in 1951.

Location	Wind Direction	Damage Year(s)	Damage Description
Rochester - Genesee River outlet buildings in "U" shape at lakeshore next to the Coast caused exposed columns under shoreline Bldgs. inspected and considered safe. Barriers, then cost of \$80,000 by assessing residents. 1998 barriers & boulders and repairs. We still need repairs but this takes lower priority after our	NE	4/93, 3/98	This is a condo - 14 Guard. 1993 - High water #1 & #14. These were boulders were installed at a - Over \$100,000 for more \$20,000 to finish beach devastating fire of 1999.
Rochester, NY (Where Gen. River runs into lake) came into 4 buildings nearest the shore. I live Harbor, Rochester, NY My condo has 8 1998 (248.5 ft.)	N & NE	1993,1998	April 22-23, 1993 - Water at (Westage at the Harbor) buildings. Storm March 21,
Point Breeze, NY area (1 mile east of Oak tolerate NE storm. Waves came over 8 ft. Cracked cement and dragged dirt/grass from biggest hole approx. 8 ft. wide and 3.5 ft. thousand dollars to repair concrete and replace rolled money for same.	NE	April 1998	Water level too high to rocks/cement breakwall. yard leaving holes in yard - deep. Needs several rock. I don't have the
Hamlin, NY water was over the top of the rocks holding undermined and pulled out away from the	NE	1993	In the summer of 1993 the the shoreline. The rock was shoreline.
Rochester (Greece - live on lakeshore) ft. at a depth of 12" to 15" as wave action built in 1952.	NE	1973	Water covered area for 350 undermined shore protection
Rochester Thirty Mile Point/Golden Hill State Park lost to the Lake Feb. - May 1998. We have which is made up of a shale rock surface. The a point where it fractured and collapsed into rowboat that had been stored upside down for the from the water edge a good 30 ft. from the	E, NE N, NE	1973 5/98	Lost many feet of shoreline. About 5 ft. of frontage was 100 ft. of frontage all of water undercut the ledge to the water. I also lost a winter and was back away waters edge when we went

south in January. The Lake was "low" when  
1998 than in the previous 12 years combined.

we left. We lost more in

Hamlin, NY  
limited erosion whenever high winds & storms

NE

We have experienced  
come from the northeast.

Little Sodus Bay - Lake Ontario  
covered & water in lower level of residence.

S

4/99

Shoreline flooded - docks

<b>Location</b>	<b>Wind Direction</b>	<b>Damage Year(s)</b>	<b>Damage Description</b>
Lake Ontario Shore Line (5.5 miles east of the ft. long concrete wall to stop erosion. Wall still years of lake action.	Northeast		In 1978 we installed a 104 in good condition after 23
Kendall, NY (halfway between Hamlin State	North		Erosion. The earth is gone!
Lake Ontario-Somerset (Niagara County) 1974. 1980-2001 rebuilt part of the wall twice.	NE		Installed retaining wall in
occurring on the east side of the wall threatening the			Significant erosion is
Somerset, NY soil - loss of 50-ft of shoreline x 100-ft.	N, NW	1950-2000	integrity of the front wall. Erosion of 100,000 cu. ft. of
Parma, NY (Hilton Beach) erosion was a problem - water was too high.	NW, NE	Spring 1973	Spring 1993. Shoreline
Hamlin, NY sandy shoreline & 30' front yard. 1950's lost & cement retaining wall - trees and shrubs.	NE	52, 73, 93	In 1921 when built - 90' of sand; 1970's lost more sand 1990's more front yard.
7 miles east of Niagara River outlet to Lake broke my concrete dock in half. On several bank.	NW, NE	?	Damaged and eventually occasions lost 1 - 3 feet of
Kendall, NY ft. along shoreline. Waves were crashing over onto the flat area of our lawn.	NW-N-NE	3-17-75	Loss of land of 15-ft. x 80- out 8-ft. bank and breaking
Sodus Bay (Sodus Point) building.	NE	3/73	Sand built up 3' against
Olcott, NY 1973. We have a fence that is marked out in foot plus three sections in 29 years.	NE	Since 1973	We have lost 31 ft. since 10 ft. sections - have lost 1
Hamlin, NY back 50 ft. in 1952, loss of frontage due to frontage due to erosion. Water was washing road. Both times required damage to house to joist over half the structure. Rebuild entire of lawn and property at lake side.	N, NW	1952	Our house had to be moved erosion. 1973 again lost under the house across the be rebuilt including floor lakeside of house. Erosion

Location	Wind Direction	Damage	Year(s)	Damage Description
<p>Hamlin, NY (Lake Ontario) Sandy Creek Area shoreline damage several times over the past property here on Lake Ontario. The worst spring of 1974 (?). At that time I lost about received about \$5,000 from the US Government was necessary to repair the damage. My and large quarried stones were put in place to I've had additional stones and plastic 1995 (?). Plus a concrete cement block wall.</p>	NE, NW			<p>I have experienced serious 38 years I have owned the erosion happening about the 30 ft. of beach front. I for the restoration work that lake front yard was refilled help prevent future erosion. webbing put in place in</p>
<p>Hamlin, NY shoreline (1973). Erosion of soil from surge stone and gravel behind rip-rap wall. destruction of dock (all 1973).</p>	N, NE	73, 93, 99		<p>Damage to masonry walls at behind wall (1973). Loss of Destruction of boat launch -</p>
<p>Hamlin Beach get through. It has happened all seasons, others.</p>	N - NE	Every Year		<p>Breakwall damage - waves some years worse than</p>
<p>Lake Ontario damage each year to whatever I use for</p>	NW & NE	1993		<p>Destroyed breakwall &amp; protection.</p>
<p>Lake Ontario shoreline (see my address) 98. Other house - 1 mile from here on damage to home and property. 93 &amp; 98 recent heavy spray causing erosion on beach and basement.</p>	NE, E, W		<p>1972 worst, recently 93 and shoreline. 1972 extensive storm induced water (wave), in yard and water inside of</p>	
<p>Lake Ontario - Town of Porter - Ransomville front door. Some trees are missing.</p>	W			<p>Lake moving in towards the</p>
<p>1531 lake Road, 3 miles east of Fort Niagara since we bought in 1954.</p>	E, NW			<p>We have lost over 100 foot</p>
<p>Grand View Beach - Lake Ontario (Rochester, to be replaced</p>	N,NE,NW	3/73 - 5//93		<p>Concrete pier &amp; support had</p>
<p>Lake Ontario (2 mi. east of Pt. Breeze) June, average erosion of one foot since 1952, property.</p>	N		<p>Every year, April through the first year we own the</p>	
<p>Youngstown, NY</p>	E, W			<p>Some undermining of my</p>

seawall faster.

Olcott, NY  
ice 10 years ago. Loss of shoreline property

NW-N-NE

Loss of dock due to shore  
up until year 2000.

Location	Wind Direction	Damage	Year(s)	Damage Description
Wilson, NY approximately 10-12 ft. of lake shoreline due to occurred about 4 years ago when the lake present rate we lose a large portion of our opportunity to build there.			Since 1992	Since 1992 have lost erosion. Most of the erosion level was so high. At the property before we have an
Barker, NY land plus a row of trees. After a large retention experienced underwashing of land leaving large areas the wall.	NW, N		Since 1974	The loss of 40 ft. plus of wall was erected we of land washed away behind
Niagara Co. rocks between rip-rap rocks and shifting of '98, so damage was done in '97-'98, although moved here in '92 was in '93.	NE			Removal of dirt and small rocks. Repair was done in highest water since we
Rochester, NY Lake Ontario - Kent, NY property to high water. Another 50 ft. and we 2 miles W. 30 mile Point, Lake Ontario 1980's Lake Ontario (1.5 miles east of Wilson, NY) Steps washed out despite boulders, which have	NE	Mar-Apr 93		Moved my breakwall. We lost 16 ft. of lakefront would have lost our house. Boat house destroyed in the Shoreline trees destroyed. been scattered
Lake Ontario, Kent, NY (1.5 miles east of Oak cliff about 10-12 feet above water level. Boulders that were placed in the 1970's rolled considerable erosion of the cliff took place. We placed costing \$8,000. At that time the water the rocks nearest the lake. Since that time the the top of those rocks when the water is calm.	NE or NW	7/8/01		Our property has a shoreline The lake bottom is rocky. out toward the water and had a new rock revetment level was above the top of water has been well below
half way between Wilson and Olcott, NY break walls installed. They have tipped over approximately 20 ft. has occurred behind where the walls Rochester (Hamlin) wall that I covered with cement. The current	NW	E	March 1998	Had concrete retaining or and erosion of were. I have a gabion retaining
			April 1993, 1998	

damage each year. In April of 1993, and  
damage and considered moving out.

Lake Ontario (Youngstown/Wilson)  
chunks broke and fell

spring lake levels do some  
1998, I suffered much

NW 1972 Approximately 10 feet deep

Location	Wind Direction	Damage Year(s)	Damage Description
footings, 2 porches, warping and dry rotting. 1970's of more footings.	NW		Early 1950's lose of additional damage and loss
Hilton, NY (west of Braddock Bay) in had to be pulled back up periodically. In breakwall using rebar and concrete.	NE		The rocks that were trucked 1997 I put in a massive new
1/2 mile NE of Sodus Point on Charles and high wind in spring (always in the spring)	N/NW	1997	Combination of high water carried huge timbers 10 x against the cement and steel
10's, railroad ties, electric poles, etc., crashing foundation and were thrown up against the floors, walls, shifting of windows and doors and plumbing as well as furnishings. 1993 - was amount of land - never to be replaced!			cottage causing cracked inside damage to electric only loss of a tremendous

### ***Lake Ontario - West Shore***

Stoney Creek, ON winter of 1998 was extremely higher than large contributing factor to the washing away	NE	1998	The water level during the average and is most likely a of our breakwall.
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### ***No Location Given on Survey***

year 1998 or '99 (last 20 ft. or 30 ft. of bank)			The next worse was in the
minor because we put a large rock wall up.			Our erosion has been fairly

concern

### ***St. Lawrence River - Lake St. Lawrence***

St. Lawrence River (Lake St. Lawrence)	West		Soil erosion
Lake St. Lawrence - Wilson Hill water two ties high better than 1 foot	West	Early 60's	I put in a railroad tie break
Lake St. Lawrence	E		Oil spill
Wilson Hill - Lake St. Lawrence bank	SW		Shoreline erosion at the

<b>Location</b>	<b>Wind Direction</b>	<b>Damage Year(s)</b>	<b>Damage Description</b>
Lake St. Lawrence eroded up to 9 ft. along the shoreline. The pasture land and needs stabilization. No been done since the project flooding.	SW, NE	Apr-May '98	Strong northeast winds shoreline here was former shoreline stabilization has
Lake St. Lawrence - Wilson Hill Wilson Hill Island, Lake St. Lawrence for 37 years and any wind from the north  Sometimes serious until I paid for rip-rap out erosion. Now with rip-rap the erosion is far less at all.	W W, N	2000-2001 1964-2001	Spring I have been at this location causes the erosion damage. of pocket to control the serious. NYPA did no work
10 km downstream from Morrisburg 0.5 m over the period 1959 to 2001.	E. W		Shoreline erosion has been
Lake St. Lawrence and May. June and July it is still high. August have no beach and dock damage).	West		Water is very high in April and September just right (I

### ***St. Lawrence River - Lake St. Peter***

Pointe du Lac, Lake St. Peter shorelines eroded by the ships' wakes.	E, W	1997	Dock swept away and the
Contrecoeur of property shoreline.	SSW	April 1999	Basement flooding. Erosion
Louiseville, Lake St. Peter significant, but it generates sediment during high  in the navigation channel in the small river  low years, there is not enough draft for boats in dredge, but cannot get permit.	NE		Erosion of the shores not water years which deposits leading to Louiseville. In the channel - will have to
Sorel Islands continuously with shoreline regression varying  the project was built. During years with high rapidly erode the silt and clay shorelines.	E	1993, 94, 97	Many islands being eroded between 3 and 60 m since water, the ships wakes

### ***St. Lawrence River - Thousand Islands to Ogdensburg***

Chippewa Bay - 1000 Islands seawalls and on portions of man-made part of	SW & N	93-94	Caused erosion behind island.
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Alexandria Bay, NY  
docks to become frozen in. Spring thaw  
staving to be ripped out.

SW, NE  
4-5 yrs ago  
High water in winter caused  
("ice-out") caused docks,

Location	Wind Direction	Damage Year(s)	Damage Description
Millens Bay - 1000 Islands flooding in storage hut.	NE	1997	Water above dock &
Wellesley Island damaged - some lost	N, NE, W	1970's	Decking around boathouse
1000 Islands - Clayton spring rains caused bluff damage due to run off.	SW, ENE		I am on a bluff/severe
Clayton, NY destroyed 40 ft cedar crib type dock - tore the damaged the crib construction.	N, E	1992	High winds and waves decking off the cribs - then
Brockville Narrows (across from Channel posts 1903. After Seaway system opened on cribs made of cedar logs & filled with work done in winter. Inspected winters until property 1984. Boat house received beams), cribs & walkway 1986. Redoing and floor 1991. Ice damage less since large to protect seaway locks. Pressure treated used replacement. Internal floor & supports cedar. Low caused damage to metal boat from rock in slip.	NE		Boat house built on cedar 1956; boat house was built rocks from channel blasting 1982. My family purchased replacements of sills (32 ft. replacement of dock, slip & icebergs have been blasted since 1986 repair & water level last 2 years
St. Lawrence River, 1000 Islands docks boathouses and seawalls. Waves from behind the bulkhead.		72-73	High water damages our ships & boats washed out
St. Lawrence River - Thousand Islands to cover top of dock.	NNE & SSE	07/1976	High water caused oil spill
T.I. Park, Wellesley I, NY	NE		Storms destroyed docks
St. Larwrence River (next to Cedar Point S.P.)	NE	Spring	Loss of the bank rocks.
Chippewa Bay, New York experienced seawall damage, spring and fall. We live Chippewa Bay.			Over the years we on the St. Lawrence
1000 Islands - Clayton damage. Also levels less than 1 foot above chart unusable and/or causes boat damage.	E, W	5/93, 5-7/73	Docks and electrical datum makes docks/slips



## D.2 PIAG Year 1 Survey - Environmental Comments

Location	Environmental Comments
<b><i>Lake Ontario - East Shore</i></b>	
Sandy Pond, Oswego Co. dune system along the lake in the area of Sandy tern nesting in the area.	High water has caused significant erosion of the Pond. Water levels above ~ 247-ft. have impacted
Jefferson Co., Town of Ellisburg has moved out from shore.	Shoreline erosion every year except 1999. Sand
N. Rainbow Shores (Sandy Creek) (rare) affected - not as many as before - observed	Yes: dune erosion; wetlands - bog buckmoth Fall 1998 - water high in Spring.
Southwick Beach beach grasses patches that have been gobbled beach erosion; then, further wind erosion years to build/repair.	Since 1972 there have been many poplar trees and with the associated dunes that have been lost to occurred due to the dune erosion. The dunes take
Lake Ontario - Montario Pt. swallows nesting.	The dunes blew away and affected the sand
S. of Monterio Pt. - Rhenshaw Bay area no beach - water breaks over the retaining wall been a time when the water went down. We continue	Dune erosion - I have lost about 60 ft. - We have we were forced to put in in 1976. There never has can't walk along the water edge - no beach - 76 -
North of Sandy Pond - Lake Ontario water levels appear to be affecting available dunes that were not previously impacted by wave erode.	Dune erosion has been most notable. Increased sand for aeolian transport and washing away induced action. Vegetation is lost as these dunes
Lake Ontario - North of Sandy Pond Channel have been eroded continually for the last 20 allows wind to move sand away.	Large dunes on the north of Sandy Pond Inlet years. High water allows plant erosion, which
Lake Ontario- North of Sandy Pond Channel eroded plants so that wind can blow sand away.	Dunes have disappeared because high water has
Cape Vincent, NY the low water experienced some Springs caused DEC would have better details on this.	I fish with charter captains who strongly believe much damage to that years spawning success - the
Sandy Pond, NY	Late summer and fall - low water - high algae.

Spring high water and cormorants eating fish in  
pond.

## Location

N. Rainbow Shores Rd. - So. Sandy Pond melts and high winds combine. Worst year of land every year.

Lake Ontario - North of Sandy Pond beach - extreme lack since 1994. Loss of beach

North Sandy Pond  
traditional low level times after August and several hydraulics.

Sandy Pont (Oswego County)  
levels in Lake Ontario drop. Most of the impossible to navigate watercraft onto the pond they

Sandy Pond  
entrance to Lake Ontario. Sand bar from the bar.

E. Lake Ontario (Mexico Bay, 2 miles south of Salmon River) vulnerable to adjacent property owners negative impacts on wetlands.

Sunset Bluff (3/4 m North of Southwick State Park) grows on my beach. Some years, like 2001, become the norm, plant growth would be likely.

Sunset Bluff  
place eroded plants, roots of grass March 1972

Jefferson Park, Sunset Bluff (Lake Ontario) property to erode includes trees - willow, 1972 and after caused by Hurricane Agnes! throughout the 1970's. Most damage occurs in April

Lake Ontario  
Every year has resulted in a degree of shore and

Lake Ontario - Sandy Pond sand dunes, up to 3-4 feet per year. Camps, of the dunes are being lost since the Seaway doesn't permit lower water (below 74.5 m) needed

## Environmental Comments

Dune erosion - occurs every Spring when the ice was March to June of 1973 but we lose a little bit

Dune erosion loss due to high water. Lack of since 1980's.

In 1987 and 1999 wells went dry during the other years. Wells on shoreline follow lake

Since 1990 every year by late August the water channels on Sandy Pond make it almost get choked up with weeds and start drying up.

Navigation of opening to the lake and silting of opening to island less than 2 feet of water to cover

Wetlands (Snake Creek) outfall easily blocked; "unhindered" interference which exacerbates

High water in Apr, May, and June means nothing the beach remains. If 2001 lake levels could

Trees were removed by surge of water and this

High water causes dune erosion. Bank on front of popular, cottonwood, etc., beach grasses, etc.

Most recent years 2000, 1998. High water - Sept.

Dune erosion has been continuing since 1976. dune erosion.

Whenever water levels are above 75 m we lose stands of hardwood trees, and the priceless beauty maintenance of historically high water levels to naturally replenish the dunes.

Renshaw Bay (near Sandy Pond) N. Parsons Rd.

Dune erosion on-going

**Location**

Sandy Pond (North Pond) South East end has pretty much stopped any erosion and years. We can lose 15-20 feet of sand shore!!

Eastern end of Ontario just north of outlet from North Sandy our beach have caused huge, stabilizing old trees dunes. Lake threatens to break through to bay for many shore migrating birds. Such an totally change the environment of the bay to say in summers for 65 years, and my father years have the lake levels risen so high. We are because there is no place to walk and the only way to trespass on others' property.

eliminated by high water. Incomparable damage large trees.

N. Rainbow Shores - Pulaski, NY most every Spring.

Sandy Island Beach at North Sandy Pond water (and high waves).

Lake Ontario - just north of Sandy Pond - channel inlet not gone down since '74.

Lake Ontario - N. Sandy Pond spawning bass beds because the water was too low

Lake Ontario - Montario Point the Spring have disappeared.

So. Sandy Pond - Lake Ontario and dune grass disruption from high water.

Spring and each Fall.

**Environmental Comments**

We have a stone break wall at our cottage and it damage but our beach property gets hit hard many easily. At times we are down by up to 30 feet of

Rising water levels up and down what is left of to die and/or tumble off dunes. I live on protected on other side, totally destroying nesting habitats occurrence - and it looks like "when" vs. "if" will nothing of destroying property. I have lived here before me, since 1907. Never until the last 30 now discouraged from using the lake front get to sandy beach we always enjoyed is to

Waterfowl nesting sites (great blue herons, etc.) to dunes (very fragile) and all flora, including

Dune erosion, plants & trees - oak, white birch -

Continuing over years of dune erosion due to high

Dune erosion/Beach erosion: The water level has 2001 - I noticed that there were almost no this Spring.

Dune erosion. Swallows nesting in the dunes in

Dune erosion - Storms in Spring. Dune cherries Sea weeds - spawning beds from low water each

***Lake Ontario - South Shore***

Rochester, NY exists, it affects all of the above.

Hamlin, NY played their hands".

Long Pond & Cranberry Pond when high water

Over 50 years - hi-water environmentalists "over-

Lakeland Beach, Kendall, NY - Orleans Co.  
which is just to the west of me, is under water - No  
takes place all other times is gone.

Grand View Beach - Lake Ontario (Rochester, NY)

In all the high water years Bald Eagle marsh,  
land or cattails - Lake water takes over - whatever  
No first hand knowledge

Location	Environmental Comments
46 Lakeside Blvd., Hilton, NY (west of Rochester) water ruined spawning area up creek and	Sandy Creek news articles have indicated high destroyed some wetlands for ducks and geese.
Hamlin, NY geese no long nest here - wetlands area 4 miles waves at least 20 feet.	Water fowl nesting sites, wetland degradation, east of Hamlin Beach. Shoreline eroded by
Rochester - Lake Ontario	None
Rochester - Genesee River outlet account for our periodic "alewife" problems!	I wonder if fluctuating water levels could possibly
Payne Beach - Hilton, NY been adversely impacted in the variety and over the last 20 yrs. of widely fluctuating flooded out. The frog population has dwindled to (and to much increased pollution). The decreased as has the snapping turtle population. repeatedly flooded and destroyed.	Rose Marsh at the east end of Payne Beach has numbers of waterfowl. This impact has happened water levels. Nests are either high and dry or almost zero due to inconsistencies in water levels Eastern Painted turtle population has also Nesting areas for these species have been
Lake Ontario - Rochester the land to be washed into Lake Ontario - entire	Long Pond - high water causes large portions of west spit washed away.
Orlean Co. has changed dramatically - silver bass & white species in about 10 years.	Since the mid-60's fishing the lake @ our location perch were plentiful - we have not caught either
Hamlin, NY resolved with rock barrier.	Wetlands east of Hamlin Beach - apparently
Point Breeze, NY area (1 mile east of Oak Orchard) continue to suffer severe erosion of the cliffs. spent \$30,000 to try to save 3 yards.	Parts of our street are high above the lake and Neighbors have banded together at one end and
Little Sodus Bay (Fair Haven Bay)	I don't see any problems at all in this area.
Lake Ontario - Oak Orchard	Not aware
Barker, NY know something wrong is/going to happen. natural beauty - wildlife and habitat along the	Exact dates and times are only kept by those who The past almost 30 years has proved to lessen the Lake Ontario shoreline.
Lake Ontario to secure soil erosion. When (shubs & geese & ducks nesting on the banks.	Mostly lose a lot of crownvetch & dogwoods. Try weeds taken out by storm - we see very little

Hamlin, NY

Low water has drained my wetland

Location	Environmental Comments
Hamlin, NY Swamp) was effected by the high water.	The wetlands at the end of our road (Yantz
Rochester, NY related to water level.	We have a terrible algae problem - may not be
Sodus Bay	No
Lake Ontario water is full of dirt	When the water is high or erosion takes place the
Lake Ontario (1.5 miles east of Wilson, NY) beach at all - it brought in tons of seaweed which	The water was so high all summer we had no coated everything and prohibited any swimming.
Didn't recede at all until season was over.	
Lake Ontario abutting my property. Winds blow islands of by high water - sand bars driven into Bay.	High water has destroyed wetlands in ponds cattails away. Braddock Bay has been destroyed
7 miles east of Niagara River outlet to Lake Ontario level years in the Spring it's common to see have nests down at the beach/dock.	Years blend together after a while but on low lake Canadian geese, mallards & purple martins all
Lake Ontario-Somerset (Niagara County)	None Observed
Kendall, NY (halfway between Hamlin State Park & Pt.	Not aware
Lake Ontario Shore Line (5.5 miles east of the Niagara River) shoreline during the month of July	Heavy seaweed about 20 ft. wide collects on our
Thirty Mile Point/Golden Hill State Park launch. High water keeps the Creek water and the Creek is dry or fouled with algae	Golden Hill Creek flows into the Lake at the boat replenished for fish spawning in the spring. Low and muck.
Hamlin Beach Rd. Hamlin has most definitely eroded over	Open shoreline just west of western town Beach last ten years.
Hamlin, NY be a marshy area. As time went on and the is now dry.	1985 - now to the west of my house there used to shoreline eroded away, the marsh drained out and
Somerset, NY have affected trout streams in the Golden Hill	Have observed in the past that low water levels State Park Etc. (Somerset area).
Parma, NY (Hilton Beach) up and down the shoreline I do not see a (-) areas for the wildlife spawning, nesting, etc.	Right now we are at low water levels and driving impact on wildlife at all. There is still plenty of
Rochester (Greece - live on lakeshore) varying levels and provide the majority of habitat.	No problems as swamp lands can adjust to

**Location**

Hamlin, NY houses (see pictures). Yet the Army Corps of of our breakwall, they want us to put sand erosion of lower part of breakwall. On top they

1/2 mile NE of Sodus Point on Charles Point/Crescent Beach fowl nesting sites but dune erosion is constant

Bluffs and all along the South Shore of the lake. other weeds.

Lake Ontario shoreline (see my address) 98. Other years also - do not have that data

1.8 miles East of 4 Mile Creek, Town of Porter wildlife.

3/4 mile East of Oak Archard, Lake Ontario  
Lake Ontario (2 mi. east of Pt. Breeze)

vegetation and tall trees on property.

Lake Ontario - Town of Porter - Ransomville Road gray - elongated body, very long beaks about 3-4 the sea gulls longer legged then sea gulls seen

Canadian White Geese and a couple of swans in

Lake Ontario, Kent, NY (1.5 miles east of Oak Orchard River) considerably over the 7 years we have lived here.

Hamlin, NY  
We no longer have alewives, which always kept did they disappear from lake? Zebra mussels to the lake. - they clogged our water intake

Rochester (Hamlin) washed out.

Lake Ontario - Kent, NY front of my home the first night I lived here.. fishing has changed.

Somerset, NY erosion and loss of a great deal of land and

**Environmental Comments**

No fish can spawn in the water in front of our Engineers won't let us put extra protection in front bags on top of breakwall. No consideration for would be useless if the bottom falls out!

Have not observed any impact on fishing or water at Charles Point, Crescent Beach, Chimmage Also an influx of, what I call, water lilies and

Flooding of marsh lands and habitat 1972, 93, and readily available.

No noticeable impact has been detected on

Not aware re: my 200 ft. water front

High water causes the most damage.

Erosion is a problem every year. Loss of

I am seeing unusual birds - long-legged, blue or inches shorter legs with oval bodies, larger than spring, summer, and fall. Lots of geese and spring and late fall.

Higher cliffs just to the East of us have eroded considerably over the 7 years we have lived here.

Sports fishing demands for salmon & trout, etc. the seaweed & algae at a minimum. What year introduced by foreign ships - not a good addition pipes, etc.

1998 the Yontie Creek water marsh area was

On Sep 2, 1990 I counted 110 fishing boats in Now I rarely count six at a time. Obviously the

Not aware of any mentioned. The main one is

elimination of beach area for swimming.

**Location**

Rochester, NY  
understanding that the spawning areas in the St.

**Environmental Comments**

Not especially in my area although it is my  
Lawrence River are impacted.

***St. Lawrence River - Lake St. Lawrence***

Wilson Hill Island, Lake St. Lawrence  
our dock area is about useless. Fish in dock

We are very aware results - seaweed so dense that  
area have left. Dead fish mixed with seaweed.

Lake St. Lawrence  
drying out spawning beds and exposing  
early low levels of both 1997-98, the small local  
been seen. The local nesting common  
in 1999-2000 along with the larger raptors.

In 1997 the water levels dropped abruptly in May,  
nesting waterfowl to land predators. After the  
population of Blanding's turtles have no longer  
mergansers, loons and other waterfowl did return

Lake St. Lawrence - Wilson Hill  
large impact.

With Wilson Hill Game preserve connected to it -

Lake St. Lawrence

Much more of a weed bed closer to shore

St. Lawrence River (Lake St. Lawrence)  
waste on shore

More Canadian geese eating grass and depositing

St. Lawrence Lake

yes

***St. Lawrence River - Lake St. Peter***

Sorel Islands  
regular ice jams in Lake St. Peter which caused  
maintained the shore wetlands. Without this  
taken over by cattails, arrowheads, etc.

Before construction of the seaway, there were  
very high water levels - 10 to 12 foot rises - which  
water level fluctuation, the wetlands have been

Pointe du Lac, Lake St. Peter  
shore that has dried to form a smooth, hard  
race along shoreline, killing what vegetation

Low lake levels have created wide mudflat along  
surface. Four-wheel all-terrain vehicle operators  
there is left, and scaring away all the birds.

Contrecoeur  
September, there are no waterfowl in the Contrecoeur

For several years now during August and  
Archipelago due to the low water levels.

Contrecoeur  
was good. Now there are no more catfish.  
the shoreline, the islands are diminishing. At the  
further out to get into deep enough water for the

The tributary used to be navigable, and fishing  
Erosion along the river has scoured out trees on  
marina, they had to move the floating docks  
boats.

Location	Environmental Comments
Louiseville, Lake St. Peter since construction of the seaway. The cattails	Vegetation on the shores has changed completely are taking over everywhere.
<b><i>St. Lawrence River - Thousand Islands to Ogdensburg</i></b>	
1000 Islands - T.I. Park, NY have noticed declining cattails, therefore	In the years 1998 - 2001 - In the bay near us we declining nesting such as red-wing blackbirds. absent as well.
Bull frogs once heard regularly there - have been	No fish.
Fishers Landing, 1000 Islands St. Lawrence River - Thousand Islands Wellesley Island, NY spawning areas in the back bays of the river. Wildlife sufficient water.	Caused wetland degradation Low levels have significantly effected fish habitat is destroyed in some areas by lack of
Chippewa Bay - 1000 Islands size of cattail marshes - Oak Island area.	Lack of fluctuations have caused an increase in
St. Lawrence River (next to Cedar Point S.P.) Brockville 10 ft. from shore, similar to a tide.	None near here. Large sections of shoreline are virtually dry 6 to
1000 Islands, Ivy Lea Brockville Narrows (across from Channel Marker on Stoven spawning grounds, perch, small mouth bass, side, next to boathouse.	No personal observations Loss of weed beds in front of boat house affecting pike, and minnows in shallow warm water on east
Oak Point, NY - 75 45 W 44 31 N 3 Mi. east of Cape Vincent Heros left our area. Wave action is more	I have not observed such on the river. When the water receded the ducks and Blue prominent.
Schermerhorn Landing to very low in fall. Cattail areas are drying up spawning where they have for decades.	Water level changes are going from low in Spring and turning into fields, northern pike are no longer
St. Lawrence River, 1000 Islands (such as Otter Creek) too low for efficient	Yes. The low Spring water levels keep the creeks spawning.
1000 Islands Millens Bay for the past 5 years - maybe caused	There has been no perch or pike ice fishing in by lower water levels.

**Location**

Millens Bay - 1000 Islands

Cape Vincent  
in June. Also impacted by extremely excessive

Cape Vincent, NY  
more natural fluctuations in water levels. I'd  
to placate all the users & their own self  
doing is a political exercise, I opt for higher

1000 Islands - Clayton  
shoreline & depths less than 10-ft.

Chippewa Bay, New York  
years ago - loon nest sites disappearing. I haven't  
bass around our docks.

**Environmental Comments**

It must affect the spawning beds.

Low water levels eliminating fish spawning beds  
zebra mussel infestations.

For autumn northern pike production, we need  
prefer to see this approach used instead of trying  
interests. But understanding that what you are  
levels.

No, except for increased milfoil woods around

Bull rushes in many areas where they weren't  
seen a bass bed in years. Fewer perch and rock

### D.3 PIAG Year 1 Survey - Watercraft/Recreational Boating Comments

Location	Watercraft/Recreational Problem Description
<b>Lake Ontario - East Shore</b>	
Oswego Co. @ Selkirk State Park	Cannot dock on lake
Sandy Pond - Lake Ontario difficult to navigate from marina (Jones) to	During last five years - low water levels make it
Pond to Lake Ontario via the channel.	North Sandy Pond and sometimes from North Sandy
Eastern end of Ontario just north of outlet from North Sandy Pont at inlet (outlet) because of drift of	Sailboat, which draws 24" running aground in North sand at channel from lake. August 2001
So. Sandy Pond - Lake Ontario bottom at the end of 90 ft. dock. Very low water lake access.	Fall almost each year low water on the Pond - hit in channel between S. Sandy & No. Sandy Ponds - no
Jones Marina, Sandy Pond navigate from our marina (Jones) to the North one time in high water over docks were under	During the high and low water levels, it is difficult to Pond and sometimes to the channel into the lake. At water.
North Sandy Pond marina launching in North Sandy Pond area.	Low water preventing effective lake access and
Sandy Pont (Oswego County) time getting onto Lake Ontario because of shallow	By mid to late August most boats will have a hard water conditions.
Sandy Pond Sunset Bluff (3/4 m North of Southwick State Park) waves. We know this when we buy here.	Too low for comfortable access from my dock!! On the beach we can have no watercraft due to storm
Sunset Bluff Sandy Pond (North Pond) South East end dock and lift positions in April and can be jacking docks and lifts out to get enough water to float	We live on open lake and cannot moor boats or docks The problems occur every year. We try to estimate up docks that are under water by June and moving our boat in August.

## Location

Jefferson Park, Sunset Bluff (Lake Ontario) possible from beach due to drop off from banks room to access water with automobile and trailers. beach. Water is up against the bank. No

Sandy Pond, NY  
driving boat from dock (Fall 2000)

Lake Ontario - just north of Sandy Pond - channel inlet our cottage because of loss of beach. The

North of Sandy Pond - Lake Ontario

Sandy Pond  
years - entrance to Lake Ontario from Sandy  
thus damaging motors & props. - It needs to

Lake Ontario - North of Sandy Pond Channel  
channels. Change noted each summer for last 6 - 7

Lake Ontario- North of Sandy Pond Channel  
caused channels to become more shallow and

Lake Ontario - Sandy Pond  
water conditions.

Pulaski, NY

Lake Ontario - North of Sandy Pond  
Problems taking boats through channel.

Henderson Harbor, NY  
- I've lost several charters - boat is on bottom  
mid-August. Water is so low I can't get out of  
prop damage - loss of Charter Revenue - you

Lake Ontario - East Shore - Pine Grove

Lake Ontario - N. Sandy Pond  
boating season started. By Labor Day we didn't

## Watercraft/Recreational Problem Description

No docks or marinas. Launch of watercraft not from erosion of beach. Also high water prevents High water prevents use of the beach because is NO personal or recreational use of beach.

Water level low in late August and fall - difficulty

We haven't been able to keep a small boat in front of water comes up to the breakwall.

We use canoes and do not experience such problems. Sandy Pond water level has been low for a number of Pond has been treacherous. Boats have gone aground be dredged.

High water allows water action to fill in water  
years.

Each summer high water and storms have moved & narrow.

Our boats are small enough that we can adapt to low

Shallow water - water too low to use channel to lake.  
Water is too high to safely put boat in water.

For the past 4-5 years water is TOO LOW! This year in the MUD. I haven't been able to use my boat since slip or navigate the channel into the lake. Excessive add it up!

Late summer - too low to operate  
April 15th the water was too low even before the  
have enough water to float a pontoon boat.

## **Location**

Sandy Island Beach at North Sandy Pond  
boating season in and exiting North Sandy Pond.  
channel to lake (dredged 2000). High water

Henderson Harbor, NY  
since the end of August.

Cape Vincent, NY  
September that have dropped enough to make fall  
years.

Henderson Harbor, NY  
9/29/01, not possible to use slip for any

N. Rainbow Shores (Sandy Creek)

N. Rainbow Shores Rd. - So. Sandy Pond  
water & sections floating away - can happen

Chaumont Bay  
water beyond the end of August each year.

Renshaw Bay (near Sandy Pond) N. Parsons Rd.

Lake Ontario - Montario Pt.

Sandy Pont (North Pond), Oswego Co., NY  
cause problems - impossible to get our boat into  
we keep our boat (Jones Marina).

channel as sand drift into bay widens.

N. Rainbow Shores - Pulaski, NY  
related). Late summer (low water) boat

## **Watercraft/Recreational Problem Description**

Low water last few years significantly shortened

Unable to access own property, several marinas, or  
causes extensive dune erosion.

Have not been able to get in or out of my boat house

Have most years experienced water levels by mid  
fishing and using my boat a hardship - been here 33

Obviously at the present level, which was reached on  
watercraft.

Do not have dock on lake.

High water causes problems with docks being under  
every year.

Low levels prevent me from keeping my boat in the

No boat or dock

Don't have a big boat - just a canoe and rowboat.

Every year in late summer and fall, low water levels  
our dock or up Little Sandy Creek to the marina where

Sailboat must detour around an island to get to

Early summer (high water) dock destruction (storm  
launching.

## ***Lake Ontario - South Shore***

half way between Wilson and Olcott, NY  
track for boat. Due to high water levels, large  
track, no longer able to keep boat at home on

Had 40 feet of boat dock, power winch, dolly and  
trash in rough water and erosion have lost dock and  
shore.

## Location

Lake Ontario - Town of Porter - Ransomville Road water back just 3 years ago. Those rocks, large lake. Sometimes we have water from the lake

Rochester (Hamlin)  
April and May of 1993 and 1998, we traveled to witnessed massive shore erosion, docks under

Lake Ontario  
large pieces of old foundations (concrete)

Rochester, NY

Lake Ontario - Rochester period.

Lake Ontario, Kent, NY (1.5 miles east of Oak Orchard)  
13 mi. West of Genesee River

Lake Ontario - Oak Orchard problem.

Orlean Co.  
live with - this year's algae seems much worse unusable.

Rochester, NY  
retrieve our watercraft. If the water level is is too low to launch.

Sodus Bay, Sodus Pt., NY  
which endangered the safety of the Whaler tethered

Sodus Bay  
my dock at Fowler's Marina in Sodus Bay.

46 Lakeside Blvd., Hilton, NY (west of Rochester)  
7393 Sandy Harbor Drive (Sandy Creek),  
jetty & beach (1998) low water necessitated we

## Watercraft/Recreational Problem Description

My husband put large rocks on the bank to hold the 500 lbs. or larger are now working their way into the splashing the lake front windows.

I also own a boat and travel Lake Ontario. Both in Toronto and the Thousand Islands. We continuously water, etc.

Unable to keep docks due to erosion of sand.

Tough getting boats out when we continuously get moving in & out.

Unable to float in late August & September  
Too high water - Docks were under water 3-week

We don't have a dock.

High water

Dawson's Creek channel - lower - not a serious

Other than high-low water levels, which we learn to than before - began 7/1/01 through 8/7/01 - marine rail

We spend a lot of money setting up to launch and unexpectedly high or low, we cannot launch. Now it

Dock flooded in June and July 1989, also in 2000 to the dock.

Currently, at the level as of 8/25/01, I can just get to

I am a member of the Brockport Yacht Club located at Hamlin, NY 14464. High wave washed out part of had to dredge creek in 1999.

## Location

Little Sodus Bay (Fair Haven Bay)  
erosion problems. The lows in Sept. & Oct.

Point Breeze, NY area (1 mile east of Oak Orchard Creek at Black North is closed this year? Due to

2 miles W. 30 mile Point, Lake Ontario

Lakeland Beach, Kendall, NY - Orleans Co.  
"low" 244-243-242 ft., I adjust my dock -

Lake Ontario, Sodus Bay, Sodus Point, NY  
even with a hoist.

Little Sodus Bay - Lake Ontario  
year seems to get/have lower water levels.

Lake Ontario

Hamlin, NY  
lake water overflowed Newco Dr. along parkway

Lake Ontario South Shore, Niagara County; Olcott, NY  
August) due to low levels. We continuously battle

Hamlin, NY

Lake Ontario (2 mi. east of Pt. Breeze)  
watching your property wash away.

Hamlin, NY  
were unable to launch our boat.

Lake Ontario-Oak Orchard Creek Point Breeze  
of Oak Orchard Creek/Pt. Breeze, NY (this has

Thirty Mile Point/Golden Hill State Park  
State Golden Hill Marine Launch. Received

the lake is 12 inches lower than it was at that

Hamlin, NY  
dock needs to be lowered every summer.

Sodus Bay  
bottom is flat - we experience this each fall.

## Watercraft/Recreational Problem Description

The highs in May & June when above 246.3 cause  
when below 244.8 stop activity completely.

Don't know why the free launch on Oak Orchard  
pollution water level - sign just says unsafe area.

Docks

My boat house was flooded '73,'93,'97. When water is  
Lake Ontario is 800' deep - I can always use my boat.  
Spring - high water - not able to keep boat at our dock

Aug through Oct - yearly = 1999, 2000, 2001. Each

At worst, I have to use more track to get my boat out.  
Earlier conditions never returned (low water). 1972  
- damnedable mess!

Both years our sailboat "grounded" (towards late  
algae growth as Lake level drops over summer season.

No watercraft

These are minor problems when you consider

The last couple of years, 1999-2000, by August we

Low water effecting deep draft sailboats at the mouth  
been aggravated by silting).

I have a 24 ft. inboard-outboard boat. I use the NY  
prop damage September 10, 99. Right now, 12/19/01  
time.

In general, the water level fluctuates every year. The  
From August on the boat is difficult to launch.

Low water at the dock - can't move dock out as

## Location

Hamlin, NY  
launch even a canoe. In 1999 Corps of  
prevailing bank. We were denied permission to do this

Hilton, NY (west of Braddock Bay)  
scrapes over the rocks. I also have a sailfish that I

Lake Ontario-Somerset (Niagara County)  
water levels I have had to modify the dock 3-4  
Hill) suffers from both high and low water level

Brockport YC - Hamlin, NY  
high that I had to wear boots to get to my boat -

Rochester (Greece - live on lakeshore)  
but no one can adjust to high water.

1/2 mile NE of Sodus Point on Charles Point/Crescent  
have not caused a problem with docks and  
bay, not on the lake shoreline. We can

Lake Ontario shoreline (see my address)  
problems. People from inland usually are the biggest  
(which they don't understand).

30 Mi. Point (30 mi. east of Nia. River)  
water launching. Some ramps cannot be used -

10 Miles East of Oak Orchard River  
Hamlin Beach State Park - low water levels and  
Ok at normal levels.

Rochester  
inconvenience of dock access.

1.8 miles East of 4 Mile Creek, Town of Porter  
it caused problems with boat docking on the  
boat from Fort Niagara boat launch.

3/4 mile East of Oak Archard, Lake Ontario  
eroded, leaving no beach and no cover for

## Watercraft/Recreational Problem Description

Due to need for rock placements, etc., - no longer can  
Engineers allowed us to build gabions to hold  
after the 1970's erosion - why?

When water is low, usually in the fall, my canoe  
can't launch in low water.

I have a wooden dock on wheels. Due to fluctuating  
times over the last 30 years. Local marina (Golden  
changes.

One Spring, about 10-12 years ago, the lake was so  
dock floated up about 4".

I can always make adjustments to handle low water

The fluctuating water levels are a horrible problem but  
marinas and boats as they are located in the protected  
compensate low water by extending docks, etc.

People that live here get their boats out without  
complainers of low water or dredging necessities

Permanent boat launch ramps were not built for low  
ramps were built at time of high water.

Where boat is docked at marina - 2 miles west of  
winds cause silt to be deposited at mouth of marina.

Low has been much better than high even with an

In the fall (Sept.-Oct.) the water level has been so low  
lower Niagara River and made it hard to remove the

Only problem with low level is that lake stone is  
revetment.

## Location

Lake Ontario - Rochester (Greece lake front property)

Hamlin Beach

Kendall, NY  
any craft; my boat ramp is being washed away.

Olcott, NY  
nominal level.

Hamlin, NY  
replaced with a different design not as vulnerable to  
our shore wall.

Rochester, NY  
246.3'.

Lake Ontario

Somerset, NY  
majority of property owners who pay property  
water.

Rochester, NY  
at docks is a problem.

7 miles east of Niagara River outlet to Lake Ontario  
lower anyway, so it may be slightly more

My boat's only a 16' aluminum with 50 HP

Sodus Bay (Sodus Point)

Grand View Beach - Lake Ontario (Rochester, NY)

Rochester - Lake Ontario  
boats and docks. Low water merely results in

## Watercraft/Recreational Problem Description

Frequently in the fall (late Aug. - Sept.) the lake level falls too low. But then is left too high going into winter so that our spring high level causes shoreline problems, especially when we get "northeasters".

High water with storm conditions leaves boat in sling hoist in jeopardy - especially in the middle of the night when worst waves (rogues) can come in.

We can't walk along the shoreline; we cannot launch

Everything from docks under water to 2 feet below

Dock and boat launch destroyed in 1973. Have  
wave action. In 1993 & 1999 we sustained damage to

Too high in Braddock's Bay when water level gets to

Fluctuation is too large.

I do not have a watercraft (as is the case with the  
taxes). Our beach area has been eliminated by high

Generally mid to late September each year, low water

By fall/late summer on normal years, the river/lake is  
difficult to launch at Ft. Niagara but never impossible.  
motor - no big deal!

High water level in '73 flooded my marina.

Low water prevented the launch of my watercraft  
I have a catamaran and my neighbors have motor  
deeper docking or mooring from the shoreline.

Location	Watercraft/Recreational Problem Description
<p><b>Lake Ontario - West Shore</b></p> <p>Stoney Creek, ON was especially disappointing, as we knew that conserving of water for the St. Lawrence. We were enjoy our beach.</p>	<p>We did not have a beach in the summer of 2000. This the levels were higher than normal due to the fortunate this past summer, 2001, we were able to</p>
<p><b>St. Lawrence River - Lake St. Lawrence</b></p>	
<p>Lake St. Lawrence 10 km downstream from Morrisburg 1998, particularly 1969, 1973, 1993, 1997-8</p>	<p>Water is too high in spring - April, May, June. Low water levels in various years between 1967 and</p>
<p>Lake St. Lawrence craft to be damaged</p>	<p>When water is low, old stumps, rocks, shoals cause</p>
<p>Lake St. Lawrence - Wilson Hill boats.</p>	<p>Had to lower dock twice about 8" each time to dock</p>
<p>Lake St. Lawrence</p>	<p>Could not get boat off lift</p>
<p>Lake St. Lawrence in early August. Docksides were dry, marked stranded. Sailboats at the St. Lawrence Yacht Club and boat ramps became unusable.</p>	<p>Extremely low water levels ended the boating seasons channels were non-navigable, some boats became were tipped over on their keels. Many public docks</p>
<p>Lake St. Lawrence - Wilson Hill</p>	<p>In fall of 1997 could not get boat out.</p>
<p>Wilson Hill Island, Lake St. Lawrence go the 90 foot length with knee boots with use any boat like 1997-99.</p>	<p>We have 90 ft. cement dock and we used to be able to about 6 inches of water at very end of dock - could not</p>
<p>St. Lawrence River (Lake St. Lawrence)</p>	<p>Hit prop of boat in Wilson Hill ramp marked channel</p>
<p>Lake St. Lawrence with swimming area and boat uses.</p>	<p>When water is low, stumps and large rocks interfere</p>
<p>Wild River</p>	<p>Water too low to get boat off runway</p>
<p>St. Lawrence Lake</p>	<p>Late summer unable to remove boat from boat lift</p>
<p><b>St. Lawrence River - Lake St. Louis</b></p>	
<p>Notre-Dame-de-L'Ile Perrot, Lake St. Louis low water level.</p>	<p>Some of the mooring sites could not be used due to</p>

## Location

Ille Perrot Marina  
outboard motorboats. Had to change marinas.  
Lake St. Louis  
floating docks.

## Watercraft/Recreational Problem Description

### ***St. Lawrence River - Lake St. Peter***

Sorel Islands  
access to chalet difficult. Dock is out of water,

Pointe du Lac, Lake St. Peter  
to the docks for the sailboats. Must walk and  
water to sail. Lost many clients at the sailing

Louiseville, Lake St. Peter  
through with our boats, cannot take clients

Contrecoeur  
reach our property in the summer.

Contrecoeur  
cost. Number of boaters moved to marinas

Pointe du Lac, Lake St. Peter  
to get out to water deep enough to go

Water level too low to allow use of even small

The water level is so low that we cannot install the

High water is not problem. Low water levels make  
must wade through soft, deep mud to reach shore.  
Water level in the lake is so low that there is no access  
drag boats through the mud to get into deep enough  
school.

Low water level in the lake means that we cannot get  
fishing, hunting or for tourism, i.e., bird watching.

Water level too low in the channel, impossible to

Had to move floating docks further out at considerable  
with deeper water.

Water level too low. Had to walk up to 100 m in mud  
windsurfing.

### ***St. Lawrence River - Thousand Islands to Ogdensburg***

Schermerhorn Landing  
40' boats. The fall of 1999 I had four 40's  
wait for a southwest wind to raise the water level.

Just about every fall the level is too low to haul 30' to  
when the water was too low to haul them. I had to

Wellesley Island, NY  
Sept. throughout the fall. Same for Fall 1999,  
till ice.

My boathouse has less than 6" of water from mid-  
2000, 2001. As year-round resident, I need my boat

1000 Islands  
and out of boat house.

Fall of 2000 water levels down causing problems in

## Location

Chippewa Bay - 1000 Islands bottom. Owner could have moved docks to

Fishers Landing, 1000 Islands SeaRay at my dock. My Dad ruined a prop on

Chippewa Bay, New York were promised, guaranteed, assured water levels truth.

St. Lawrence River, 1000 Islands

1000 Islands, Mallorytown, Rockport had to utilize floating docks. Doesn't stop taxes

St. Lawrence River at Treasure Island draft and haul-outs. August to October. Docks and money.

1000 Islands - Clayton

Brockville Narrows (across from Channel Marker on snow. Last 3 years has made operation of hp Honda short shaft 4 stroke engine very

Densmore Bay, Wellesley Island recreational boat.

3 Mi. east of Cape Vincent 3rd week of Sept. This year (2001) I had to pull

1000 Islands - T.I. Park, NY Hutchinson boat - about Labor Day because the We would like 2 months more use.

Cape Vincent

Alexandria Bay, NY use of boathouse slips for 3 boats. This level in

1000 Islands - Clayton

Cape Vincent, NY opportunities.

## Watercraft/Recreational Problem Description

Low water levels & floating docks grounded on river deeper water.

There is getting to be too little water to float my 19' his 25' SeaRay a few weeks ago.

Problems with skiff slides - when Seaway built we would remain constant. Robert Moses did not tell the

Low water levels in Aug - Dec. in our boathouses.

Fluctuating water levels mess up docking. We have from going up and real estate prices dropping.

Water level too low. Difficult without dredging for and anchors need constant re-adjustment costing time

Required to pull boat due to low water levels

Too much water released at Montreal. Lack of rain & boat lift located inside boat house slip and use of 15 hazardous to boat & motor.

By September it is difficult to use our dock for our

Last year (2000) I was able to leave my boat in until my boat off the 3rd week of August.

Lately we have to put up for the season - our 22' water level is too low to back out of the boathouse.

Low water levels every fall.

Low water is a big problem. Current level prevents the past several years has caused the same problem.

Not when levels are 1.5 - 4.0 feet above datum.

Levels currently seriously diminish launch & docking

## Location

Wellesley Island  
allow in-water tie up.

Escott, 15 mi. west of Brockville  
motor - Summer 2000. Unable to swim off island

Clayton, NY  
because of low water. Autumn weather favors the  
favor jet-skis.

Goose Bay - 1000 Islands  
shortly after Labor Day - generally a 36" drop - this

T.I. Park, Wellesley I, NY  
to land or enter boat house. May - June: the  
cannot get in or get out of boathouse doorways.

1000 Islands, Ivy Lea

Brockville  
levels to drop dramatically, August 1st.

St. Lawrence River - Wellesley Island  
water level drops so low that docking becomes

St. Lawrence River (next to Cedar Point S.P.)  
with a boat.

Oak Point, NY - 75 45 W 44 31 N  
power boat is usually out of the water by the  
other boating is rowing a shell which I put in the  
higher water in my universe - there is less risk to

Alexandria Bay, NY  
full season.

Clayton, NY  
weekend following Labor Day as we couldn't float  
used to run our boat into the boathouse.

Rose Bay - between Cape Vincent & Clayton  
of low water levels. This is the second year

Fineview - Wellesley Island  
and the pontoon by the end of September  
going to Ivy Lea.

## Watercraft/Recreational Problem Description

Water level in boathouse gets too low each fall to

Unable to access docks except with small outboard  
dock - Summer 2000.

Have to lay up deep draft boats early in autumn  
use of larger, more protected boats. Water levels

Each Fall the water level drops drastically or  
leaves my boat stuck on the boat hoist.

August - low water; boats may not have enough water  
water is too high - docks are submerged and boats

Low water precludes access to some docks

Water is being released at Iroquois Dam causing water

Every year from approximately mid-August on, the  
difficult and in September, impossible.

No docks involved, but it's a long haul to water today

Low water has had no detrimental effect on us. Our  
time the water is too low to remain at the dock. My  
water when I use it. Lower water is preferable to  
dock and shoreline from ice.

Summer 1999, 2000, Fall 2001. Could not use dock

This year our boating activity was terminated the  
our 18 1/2 ft fiberglass I/O boat off the trolley system

I now lose 2 months of boating (Sept & Oct) because  
I've had to pull my boat by Labor Day.

We have had to put our wooden boat up by Labor Day  
because of such low water in the boat house and water

**Location**

Millens Bay - 1000 Islands  
lucky because our dock goes out further. Most  
August.

1000 Islands  
they just open the gates and I am unable to

Clayton  
props, fiberglass.

**Watercraft/Recreational Problem Description**

Boat must be taken out in early September. We are  
people around us have to pull up in mid to late

For about the last 5 years - about Labor Day it seems -  
use my boat even through September.

Low water, subsequent pleasure boat damage, i.e.,

## D.4 PIAG Year 1 Survey - Additional Comments

Location	Additional Comments
<i>Lake Ontario - East Shore</i>	
Lake Ontario- North of Sandy Pond Channel water levels. Certainly government doesn't seem to	Shore owners property is being sacrificed by the high water levels. Certainly government doesn't seem to be interested in helping.
Cape Vincent, NY - it seems most would be best served if the and several inches below average the remainder	If "PLAN" is able to have some control on the water level water levels were several inches above average May-Sep of the year.
Henderson Harbor, NY troublesome thing, the present levels certainly are equipment into the fall season. Dockage is severely	While low water on my property is not a very troublesome to recreational boaters who use their impacted.
Jefferson Co., Town of Ellisburg I may have to build it this year again. Lake The erosion is nor symmetrical - it works very ponds in the system.	I had to build a retaining in 1972. It was rebuilt in 1998. levels have been constantly eroding shoreline every year. different. Sand dunes are collapsing into the river and
N. Rainbow Shores (Sandy Creek) 1960's - most adjustments seem to be keeping naturally. Boaters got used to high levels, did not	Water levels have been on high side of average since mid levels higher rather than allowing levels to go low dredge to keep access clear.
boats on the seaway. Reason why. They run water? Bottoms covered with growth which shipping mfg. I see no pumps for sewage at the soon cover the bottom. The worst threat is the our country. Now on power, to get the most possible and dredge out your tail race. When exercises, and shoreline community suffer. Beside the ships can't get past Montreal they better world. I have a lot more that I think but if you can	A few things that really need to be done. Stop all foreign ill light dirty boats. Don't our laws (ban) dumping bilge fall off in fresh water. Have ruined our Great Lakes ports. No place for garbage bags to be dumped, they will smuggling of atomic or other destruction to the center of power out of water you keep your head water as high as the powers that be want more money they use many the power that is lost by lowering the head. The truth is if start dredging like they do on rivers in the rest of the set me straight I wish you would.

## Location

N. Rainbow Shores - Pulaski, NY have continued to wreck havoc on the building front, the building had to be moved twice, to the

Lake Ontario - Montario Pt. had lost to protect them. Sandbags were the late summer, which continues to this day.

Lake Ontario Montario Point, Mannsville, NY 13661 in 1966 it was a beautiful sandy lake front.

rocks most of year, except late summer early question whether we would have bought it and

S. of Monterio Pt. - Rhenshaw Bay area  
We have lost easily 60 ft. Never seen low water '76. Put in a seawall in '76 - now the water area will lose a great deal and further depress the

Rainbow Shores, Town of Sandy Creek June or July. The water levels drop in September the water levels did not drop until August.

North of Sandy Pond - Lake Ontario beaches. I understand that beach erosion is a exacerbated on my property due to increased depend on the dune ecosystem. My beachfront for recreation, my structures are in peril, and keep me informed of your actions.

Henderson Harbor, NY boathouse. By late August or September the the slip. This year by mid September, there was an excess of two feet. Water levels vary seems to have occurred starting 5-6 years ago.

## Additional Comments

Since the purchase of this property in 1945 the lake levels which originally was on a sand dune. As noted on the point where there is no property left to move toward/on.

Everyone brought in boulders to rebuild the frontage they issued, too. We had a lovely beach at that time only in

When my deceased husband and I bought our summer lot Since the high water in 1973 we now have high water and fall. Had the lake been like it has been since then I erected our summer home.

Have had constant erosion since the Seaway was built. to allow sand dunes to rebuild. Bad erosion in '74 and breaks over it. If the beautiful beach is destroyed the area.

In the past few years we have had little or no beach in and October when the property is not in use. This year

I am very interested in what we can do to protect our natural process, however, this process has been greatly water levels. Dune erosion affects flora and fauna that has been severely impacted. Very little beach is available some of my neighbors buildings are near collapse. Please

In Spring, water levels are often over my walkway in the water level is so low that I can't get my boat in or out of no water in my boathouse where a month earlier there was between 3-4 feet seasonally. Why the extremes? This

Lake Ontario - North of Sandy Pond Channel kept high. In addition to my personal loss, the district.

Our property will eventually disappear if water levels are value loss will reduce tax payments to our govt. & school

## **Location**

N. Rainbow Shores Rd. - So. Sandy Pond water levels have caused us to lose a lot of beach. We feel there is a lack of concern for lake 1973 we probably will lose our summer

Pulaski, NY  
August. A lot less problems would be avoided if the September.

Sandy Pond, Oswego Co.  
It is one of the few remaining on the south natural shoreline (no breakwall with fill behind erosion and damage. Most of the breakwalls which the years. Our part of the pond has a shallow we can't use our dock or the marina where our based on damage to natural areas such as the dunes structures who complain when those structures are structures were put there for 1 of 2 reasons: been or, 2) to increase the size of someone's dictate policies for regulating water levels.

Lake Ontario - North of Sandy Pond as a result of the high lake level.

Sandy Pond, NY  
Inability to drive boat to Greens Point - sand has of Snake Island - concern that water will

North Sandy Pond  
concern is poor access to the lake caused by areas.

Sandy Pond  
Impaired traffic flow.

Sunset Bluff (3/4 m North of Southwick State Park) ft. of bluff. Lake Ontario has a "natural

## **Additional Comments**

We don't feel low lake levels are even an issue. High property over the past 40 years. We no longer have a property owners. If we have another Spring like that of residence as we have no room to move.

The lake level is reduced every year in the middle of reduction in lake levels could be started the middle of

The cottage has been in my family for over a 100 years. shore of Sandy Pond that has open water frontage and a it). The natural shoreline protects the property from shouldn't be there anyway, have experienced damage over sand bottom and when the level drops below ~245.5-ft. boat is stored. I believe that future policies should be rather than based on people living behind man-made damaged. Those people have got to understand that those 1) so that something could be built where it shouldn't have front yard. Neither one of these should be justification to

When lake is real rough the water still sprays up real high

Channel going out into Lake Ontario, sand shifting. drifted into the pond and created a sand bar on west side become impossible for boating.

My main concern is wells around shoreline and secondary low levels in marinas and other sheltered back water

The dredging done two years ago was insufficient.

I came here in 1943. Since then we have lost about 8-10 pattern" of hi/lo levels. 1940's lo. 1950's hi. 1960's lo.

1970's hi. 1980's lo. 1990's hi. 2000-01 level  
feet of beach throughout the winter and did  
beach would be lovely, but the wetlands, the  
boaters, electric power producers, and Montreal

is satisfactory. Sunset Bluff maintained approximately 15  
not lose it to high water in Apr/May. Of course more  
marinas built in the 1970's in high water years, power  
Harbor need water.

## Location

Sunset Bluff  
Northwest, takes a toll on properties. It's  
have lived here a long time - 30 years. We saw a  
coming back like it was 50 years ago.

Jefferson Park, Sunset Bluff (Lake Ontario)  
recreation and personal enjoyment besides loss of  
and therefore demand reassessment to lower  
extremely lower and have never returned to those  
canals, marinas, and channels occurred as  
development took place in the 1970's. People have a false  
water levels in the 1970's. Watercraft has  
inboard/outboards that are high performance  
destroy marsh and wetland habitat leaving it open  
were larger dunes and wider beaches. Please

Lake Ontario  
erosion is held down to a minimum

Oswego Co. @ Selkirk State Park

Sandy Pond  
needing refuge from Lake Ontario storms. Docks are

So. Sandy Pond - Lake Ontario  
a minimum e.g., say from 14" above the levels  
level for HIGH.

Henderson Harbor, NY  
studying - they need to wake up and realize that the  
demand. Hydropower generation should not =  
SELL or SHIP our water resources in  
ridiculous idea I've seen.

Sandy Island Beach at North Sandy Pond  
Ontario Dune Coalition (of 30 +/- federal, state,  
interest, such as Nature Conservancy, etc.) I

## Additional Comments

Lake levels should remain low. The wind from the West,  
about time somebody listened to the land owners. We  
lot happen keeping the lake level low ensures the sand

High water also prevents intended use of property for  
property. This should change the value of the property  
value and less taxes! Prior to 1972 water levels were  
levels - why? In those years occasional dredging of  
commonplace and maintenance. Also a lot of  
sense that the water levels are low now compared to high  
increased in size and draft from 16 ft. outboards to 30 ft.  
needing deeper water. Continued erosion of dunes will  
to the lake. Looking at the history 40-50 years back there  
lower the water level to prior 1972!

If lake is at this or no more than + 5 feet level then

Zebra mussels have cleaned the water in our area.  
This area would be a likely storm shelter for boats  
available at several marinas.

It would be nice if the water level swings could be kept to  
at 9/27/01 for LOW to say a level of 24" above today's

The people regulating (IJC) don't need to spend \$\$  
water is a diminishing resource with an ever increasing  
economic loss to us. DO NOT AUTHORIZE anyone to  
Supertankers to foreign countries - this is the most

As vice chair (and alternating for years as chair) of the  
local government, private property groups, others with  
relate to different "constituencies" with widely varying  
D.4-6

conditions and interests. My comments here are

Sandy Pond (north - facing Lake Ontario)  
Pond are eroding down at a rapid rate due to high  
lake.

personal, reflecting my own circumstances - not TODC).

The sand dunes facing Ontario on the East near Sandy  
water levels. I am in favor of lower water levels on the

## Location

Lake Ontario - N. Sandy Pond  
for shipping, why don't they build a dam past

Lake Ontario - Montario Point  
Conservancy with beautiful dunes that are abused by  
DEC formerly erected sign warning people to stay

stabilize our shore line. We have lost all access

Lake Ontario - just north of Sandy Pond - channel inlet  
in front of our home. If the erosion continues  
losing their homes and cottages over the coming

Sandy Pond (North Pond) South East end  
fast in July and August. I have to move 100 ft.  
depth that could be stable would be ideal for  
Pond since 1965 and know the water well enough  
get safely out into the Lake on some days in

Renshaw Bay (near Sandy Pond) N. Parsons Rd.  
which will cause demolition of 40 cottages. I  
placed on former sandy beach. The water

Jefferson Co. - East Shore - Lake Ontario  
continual degradation of sand beach & extensive  
The constant high water levels increase the  
replenish the dunes, this process will eventually  
property values, which could have an economic

Southwick Beach  
dunes for future generations to admire and enjoy

Sandy Pont (North Pond), Oswego Co., NY  
suffers from low water levels every fall and late  
normal even during summer and occasionally

## Additional Comments

If you have to maintain a certain water level at Montreal  
Montreal toward the ocean?

My cottage is adjacent to 17 miles of Wildlife  
people using the area for camping, landing boats, etc.  
off the dunes and other limitations.

We have had to put in both a seawall and rip rap to try to  
to the beach on which we grew up.

We can no longer walk down the beach or keep a boat out  
at the rate it has, I am frankly concerned about people  
years if nothing is done.

I wish we could plan on the water level not dropping so  
of dock and 3 lifts to higher water. A "mid point" of  
recreation & the environment. I have been on Sandy  
to keep my boat and prop safe in low water but I cannot  
August and into September (23 ft. boat).

The level of Lake is close to breaking in back of cottages,  
have enclosed photo which shows boulders brought in and  
level must be lowered.

As a 27 yr. owner of shoreline property, I have seen a  
erosion of the dunes despite attempts to stabilize them.  
erosion of the sand dunes. Without low water levels to  
destroy the barrier beach eco-system. This may degrade  
impact locally if this valuable tax base is depleted.

If the current philosophies continue there may be no  
since their demise has continued since 1972.

Our shoreline, in fact, the entire shore of North Pond,  
summer. The past few years, water level has been below  
in the spring. Even though our property has a natural  
D.4-8

shoreline, we never experience shoreline erosion or

storms.

property damage even as a result of the most severe

Location	Additional Comments
<b>Lake Ontario - South Shore</b>	
<p>in the Kuckville area (Point Breeze). Our and we are considering some type of breakwall. time. We have been told that at one time there</p>	<p>We recently purchased our property (Nov. 2000), we are shore has eroded about 20 feet more than our neighbors. The first estimates are far more than we can afford at this time. We have been told that at one time there were grants given to help offset the cost.</p>
<p>Lake Ontario</p>	<p>Lake Ontario should never be over 245 ft. high. This year with all the other Great Lakes being so low it is unbelievable what is being done with Ontario. The shore owners are being sacrificed. I may live long enough to see my home on Ridge Road become lake front property again.</p>
<p>stone. We have been fortunate through the years</p>	<p>A large breakwall was built in 1994. Our beach is all as compared to our neighbors to the east and west of us. doing.</p>
<p>Thanks for the excellent job the organization is</p>	<p>The residences on the south shore of Lake Ontario in Rochester - Lake Ontario</p>
<p>Rochester have been here for over 70 years. They levels would not be encouraged.</p>	<p>were built with an expectation that artificially high water</p>
<p>Rochester - Genesee River outlet block planter wall was damaged.; 250' fencing east and west parking lots destroyed; ca. 4 garage completely destroyed; fencing fell again; catch basins also in courtyard.</p>	<p>We also own a home on Lake Road, Ransomville, NY I have written many times to IJC and Board of Control for nothing ever resulted except I get answers to my letters corrections are ever forthcoming. I can see clearly that if probably be happy with high water levels. With some adjustments for years!) and boaters and shipping would Lower lake levels and save hundreds of homes. I have owned this property since 1957.</p>
<p>Rochester, NY</p>	<p>4/93 -500' x 35' beach lost to high water; 100' concrete fell down due to soil erosion of hill; ca. Catch basins on floors ruined. 3/98 - Entire beach lost; planter wall damaged again; water entered front buildings both times -</p>
	<p>We south shore residents get the brunt of high water</p>

levels when north & east spring storms hit our  
shoreline.

## Location

Rochester, NY (Where Genesee River runs into Lake) Lakefront buildings. We have used highway future. I think we are OK now if the Lake cost us a total of about \$160,000 since 1993 and over an area of 30 ft. x 500 ft. The US Corps of water away. There may be other ways to do it

1 mile west of Lakeside Park problem addressed.

Olcott, NY shoreline during the winter damaging docks

Barker, NY beach to swim from. The shore is blocked by beauty and the reason for living by the water. the land that they paid extra for because it was

Hamlin, NY shoreline protection is willow trees. I have a In 1973 I was involved in Operation For-Site. My current revetment covers 300 ft. of shoreline a look.

Niagara Co. seems to err on high side.

Grand View Beach - Lake Ontario (Rochester, NY) damaging to my property. Lower levels would

46 Lakeside Blvd., Hilton, NY (west of Rochester) Yacht Club) and hope to have water regulated at (8/2/01). Your doing fine but in winter I would

Oswego & Cayuga Co. shores and bird nesting than about water levels per se from the first known nesting at Sandy Pond in beach (specimen was deposited in NYS Museum,

## Additional Comments

The two storms eroded our shoreline - right up to the barriers and large boulders to secure our buildings in the doesn't get over 248 ft. with NE winds. The work has we still need to replace the sand beach with good sand Engineers and local people advised us on how to keep the but the costs are too high.

Would like to see algae problem and zebra mussels

Problems with fluctuating levels - No beach, ice builds on and any shore structure.

We can no longer enjoy lakefront living by having a retention walls - boulders and the like - eliminating the The need for power and money has cost the homeowner more costly to buy lakefront property.

I have been on the lakeshore since 1964. The best willow tree - has been in and out of the water since 1964. Designed gabion breakwalls for 30 miles of shoreline. - over 1,200 tons of boulders installed by me. Come have

We realize a balance is required; however, the Corps

Maintaining a level near the current level would be least be easily tolerated during the winter months.

I live on the lake and sail on it (member of Brockport 245.3 feet - not too high, not to low - so at 245.66 today like it foot lower especially when northeaster's hit.

I am more interested about vehicular damage to the dunes e.g., in 1984 or '85 a dead piping plover juvenile (chick) over 25 years was found lying in an ATV track on the

Albany).

## Location

Hamlin, NY  
high water problem in the Spring. It's when the damage. The homeowners have seen it happen go in the Fall. Even with the lack of rain this to touching our land again and the waves did

Brockport YC - Hamlin, NY  
years have created no problems for me  
algae along the shore which interfere with

Rochester, NY  
thick smelly seaweed rotting on our beaches and  
living on the lake in the summer. High water,

Sodus Bay, Sodus Pt., NY  
245' until Oct. 1.

Wilson, NY  
State of NY would issue me a permit for minor  
high water levels. Usually after June it is OK

Sodus Bay  
very valuable to me and I would hate to see it  
another time if I still have my home and property.

Rochester, NY  
During the winter months 244 ft. would protect

2 miles west of Pultneyville  
have a concrete wall pinned to the rock lake

Lake Ontario  
soil - \$25,000. Lost \$2,000 worth of seed,  
covered in seaweed & mud. Spent \$30,000 on rocks  
only have 2-ft of beach.

Point Breeze, NY area (1 mile east of Oak Orchard  
overwhelming several days already. We cannot let  
algae is so deep at our shoreline just east of Oak

## Additional Comments

If the water was lowered enough in the Fall there is not a water is left too high in the Fall that causes high water many times. The lake should always be as low as it can year, when we had a north wind blow the lake was close cause land slash.

Generally the range of water levels over the past fifteen personally. A concern is water quality, concentrations of boating and swimming - and smell!

The past 2-3 years have brought on the algae problem - floating just offshore. This problem takes away the fun of however, can be dangerous and devastating.

It would be beneficial to have the lake level maintained at

My erosion won't be a big problem at this stage if the bank protection. Erosion occurs mostly in Spring during except for the usual storms.

I am concerned more with high levels. My property is destroyed. My recreation and fishing can be done at

An ideal level for the boating season would be 247 ft. riparian interests.

I do not have a dock and the lake bottom is stone here. I bottom so high water is of little concern.

Lost \$8,000 in docking. Lost over 3,200 cubic yards of crownvetch & dogwoods. Lost most use of beach & boulders to protect waterfront. When water is down

Algae problem worse every year. Stench has been our children swim in Lake Ontario because the rotting

Orchard Creek. I am worried it will never clear up.

Neighbors putting cottage up for sale.

## Location

Lake Ontario - Town of Porter - Ransomville Road they were 20 years ago? When we moved here blooming then the ice boom would be let go West towards Canada. Now we don't have schools close to shore. Now we can't see them frequently! Why? We are seeing more rodents. population. There are considerably more bugs because suggestions? What type of plants would help owner to help protect our lake and our property?

Hamlin, NY with basic factors. Wildlife picks its own areas

there first!!). Early days (1923 - on) on Lake High water spoiled it all! Political power

Little Sodus Bay (Fair Haven Bay) June & July - and the lows in August , period should be between 246.5 and 245.0 ft. trouble 1.) in the Spring when water levels are 245.0 ft. I am the President of the Bay with 200 property owners, 5 marinas, Village of Wedge), and Corps of Engineers.

Orlean Co. better - The algae bloom worries me, Temp.; pollution is a big concern. Swimming is a no-no this spill over "upwelling".

Lake Ontario, Sodus Bay, Sodus Point, NY higher but no more than that. I am a property

Lake Ontario South Shore, Niagara County; Olcott, NY (above 80) days when breeze comes from N, low lake levels, and stench increases until

## Additional Comments

Why is there less fish or are they bigger and deeper than 20 years ago, the spring would be warm and flowers were and there would be dead fish as far as you could see East - that and the large salmon etc., would be swimming in that often. Even the large "Goldfish" are not seen as We do not feed the birds because of the rodent the smaller birds aren't staying around. Do you have any keep the lake banks in tact? What can I do as a property Why does Canada have more beaches than the States? Indians did very well before our time and our meddling & sufferers when we interfere (Irondequoit deer were Ontario were beautiful - beach, swimming, boating, etc. grabbers upset the applecart!

I feel the Lake Ontario weekly highs are too high in May, September and October are too low. The range for this The marinas and property owners in Fair Haven Bay have above 246.0 ft and 2.) in the Fall when water is below Betterment Association, for 10 years, and I have contact F.H., Chamber of Commerce, Fire Dept./, DEC (Les

The lake elevation over the past 7 years has been much water clarity; zebra mussels; phosphates - in general year. The lake looks and smells like a big black septic

Levels for today seem to be good, could be 4-6 inches owner in Sodus Point and Crescent Beach, NY

Odor has often been substantial, particularly on hot Northeast. Late summer algae blooms are exacerbated by mid-September when temperatures begin to cool.

Town of Yates (5 miles west of Point Breeze) correspond with our own experience of 45 like to have sound limits installed and enforced aggravation.

The Army Corps of Engineers average water levels do not years. They seem to be considerably higher. We would on jet ski boats. They are an annoying and unnecessary aggravation.

## Location

Payne Beach, Hilton, NY, Lake Ontario far, more important than a few having problems have a tremendous investment. There are boating, shipping, and power. I understood the lake However, it varies from 244 to 246 ft., never going would never have any problems. I've always between 244 & 247 ft., not 242 to 246 ft..

Lake Ontario way" borders our property. Our property has a would lose about 2 ft. of dirt. We finally for property that does not belong to us.

Oak Orchard-On-The-Lake, Orleans Co., NY  
Lakeland Beach, Kendall, NY - Orleans Co. property to floating my boat. Lower water can be say they are losing money because of low water high. I pay out for it out of my pocket. I'm about May 1. Why does it stay high all summer -

Lake Ontario - Oak Orchard  
If above 247' & NE wind I could lose  
boating access.

Hamlin, NY  
washes up on our frontage in the lake. It lasts and washes out and returns again. It smells so occurred long before the Zebra Mussels were found in

7 miles east of Niagara River outlet to Lake Ontario for this area considering how much they rape couple of years ago showed me pictures of disgrace! Don't tell me you can't lower the lake, you when it was real high & you were worried about

## Additional Comments

I believe that the loss of peoples, land, and homes, is far, getting their boats in the water. This is our home. We thousands like us. Our interests should come before level was supposed to be kept between 242 & 246 ft. below 244 ft.. If it could be kept between 242 & 246 ft., I been curious as to why the lake is always somewhere

We have lived at this address for 4 years. The "right -of-breakwall, there is none on the right-of-way. Each year it decided in 2000 to build a breakwall at the cost of \$3,000

Stink after storms from seaweed  
I - being a life long boater - cannot equate losing my dealt with - higher water ruins everything. When people they are not making as much as they do when the water is the real loser! P.S. Lake Ontario always peaked on or this hurts.

Each year I lose some shoreline. It varies by water level. shoreline. 245' seems to be optimal for erosion control &

Every year for as long as I can remember, the algae sometimes all summer (2000) and other times it comes in bad we cannot have windows open. This problem Lake Ontario.

The hell with the Power Authority. They don't do enough us for! Lower the Lake! An old timer that passed away a how much space was behind our houses and it's a lowered it 1 foot in a month in January a few years ago law suits.

## Location

Lake Ontario-Somerset (Niagara County) years and have seen many negative results in I mean nothing, the control board says will been gradually high 18 - 24 inches for the consideration of the average taxpayer along the it is gone and never returned.

Kendall, NY (halfway between Hamlin State Park & Kendall, NY 14476-9706. 2) There is so much possible), that I am discouraged from doing so. protective wall would be? I haven't seen a wall that

Thirty Mile Point/Golden Hill State Park Rochester and the Niagara River for the past 50 that distance. One could walk the shoreline in 90's. The water was at levels where it was those stones and pebbles are gone. At my problem. These protective stones are gone. I prop damage. The boat launch is only 1.5 miles

Somerset, NY  
Ontario shoreline property owner, the shoreline has is very important to me; is crucial to my

Hamlin, NY  
160 ft. long was lost. Further to my west on due to erosion, and when the wind blows even to this day.

Lake Ontario (2 mi. east of Pt. Breeze) of Pt. Breeze since 1952. Spring erosion is a the lake shallower and wider. Building and but nothing stops the lake for long. The lake owners need more consideration. Please, please,

## Additional Comments

I have lived along Lake Ontario shoreline for all of my 59 the "control" of Lake Ontario's water level. Nothing, and convince me that since the late 1950's the water level has benefit of shipping and electric power only without lakeshore. I had 20 - 30 feet of shore in the 40's and 50's,

- 1) Location of property is 16557 Banner Beach Road, red tape involved in erecting a protective wall (if that's
- 3) Does anyone know what the best design for a holds up for < 10 years.

I have been near or on the southern shore between years. There was always a rock/pebble beach for most of the 90's; that beach has been mostly nonexistent in the late impossible to walk the shore. Today even at low times property, when there is a beach to absorb the waves no have about a 24" margin between shore erosion and boat from my residence. Good Luck!

I am glad to have this study being done. As a Lake eroded considerably since 1990. The 250 ft. of shoreline business.

In 1993 an area of shoreline between 4 & 12 ft. deep and state land a point was wiped out (40 ft.), many trees fell in from the northeast, more land and trees are consumed

We have owned the property on Lake Ontario 2 mi. east problem every year and erosion is self promoting making maintaining break walls costs tens of thousands of dollars, level can and must be controlled better. The lakeshore

please. Thank you.

## Location

Hamlin, NY  
begrudge us property owners the right to save our  
wish to have. It seems it would be cheaper for  
for us to rebuild our homes! This property is not  
been in our family since 1921 when it was

2 miles W. 30 mile Point, Lake Ontario  
boathouse, which was moved back 3 times.  
erected; shale beneath disintegrated and spent \$7,500  
around end - washing out dirt.

## Hilton, NY (west of Braddock Bay)

Lake Ontario - Rochester (Greece lake front property)  
in lake many days of the season. Impact of  
strategy seems to always favor high water going into  
necessary. The deviation always seems to be above  
term average to go up.

Kendall, NY  
break the wave action. The jetties are at Hamlin

Hamlin, NY (Lake Ontario) Sandy Creek Area  
regulated. This has kept erosion at a  
placed on the beach front.

Sodus Bay  
season. We need 245.75 ft. to utilize our dock.

September instead of August, it would be

1/2 mile NE of Sodus Point on Charles Point/Crescent  
occurs in early to late Spring and keeping the  
rock formations (not a breakwall) placed 30 -  
wave action and cut down tremendously on  
prevailing Northwest winds along the south shore  
the government would help us a bit.

## Additional Comments

Surely the marina owners cannot in good conscience  
homes - just so they can retain the many boat slips they  
them to dredge out their marina basins than it would be  
a permanent residence - only a summer cottage, but it has  
built.

Lived here since 1963. Had property since 1952 with  
Through the years, many storms. 1975 - breakwall  
reinforcing it in 1993. Storm in 1998 over the top and

This looks like a good, well-managed study.  
Algae impact on water quality & smell. Unable to swim  
poor water quality flowing into Lake Ontario. The  
the fall/winter and hope the level can be dropped if  
long-term average which seems to be causing our long-

I would like to see jetties put up and out into the lake to  
State Park and seem to be working.

This year the Lake Ontario water level has been carefully  
minimum. The beach is presently eroded up to stones

The water level is reduced too soon in the summer/fall  
If the water level could be lowered starting in mid-  
advantageous to us.

The greatest damage to businesses and property owners  
level lower at that time would greatly help all of us. Also  
50 ft. out from the shoreline would greatly break-up the  
erosion of the shoreline of property owners etc. The  
give us a tremendous problem but there are solutions if

## Location

1531 lake Road, 3 miles east of Fort Niagara through tractor tires that did not hold - this was blocks (cement) and on other 300 feet furnace and blocks slide into lake. We have sold 400 with rock at a cost of \$3,000 (2001). Perhaps if understand our concerns. This spring while For the cement work federal Gov. gave us not included.

Lake Ontario shoreline (see my address) controls are causing the long-term average to where they did not exist, therefore, when levels are toward Montreal. Much money has been spent on thinking!

30 Mi. Point (30 mi. east of Nia. River) \$30,000 between 1961-1986. In 1986 a rip-rap of \$7,673. It has been repaired twice since.

10 Miles East of Oak Orchard River boulders and concrete the past couple years know that will change - it always does.

Rochester farther when lake levels are low. This is a plus on

What have we got now, nothing. The water Now they are covered by big boulders. Bring the I can't afford to spend any money for I have a years.

15 miles west of Rochester, NY our area. Breakwalls are safe from erosion

Lake Ontario - Rochester front is adequate (as measured distance from house

## Additional Comments

My husband and son (I'm not sure of year) placed steel done on 600 feet. In 1975 we placed 300 feet of 3 x 4 blocks were placed. The cement blocks have turned over and on remaining 200 feet we have the shore line done people in charge could see what we have tried you could waiting for permit and paperwork we lost 5 feet more. \$5,000; this just covered cement - labor and form material

It has been my observation from years of experience that rise artificially. Also, homes have been built up north critical here, we listen to excuses about flooding up studies already. It would be nice if they could be forward

Personal property loss is estimated to be in excess of retaining wall was built to protect our shore line at a cost 1993 - \$950 and 1998 - \$750 for a total of \$9,373.

Other than costing thousands of dollars over the years for have been tolerable with water levels on average but I

I have witnessed small ski watercraft have to stay out the noise and wake issue.

When we built this house we had a nice beach and sand. level is too high. We had steps leading to the beach. water level down so we on the beach can enjoy our beach. husband in the nursing home. He has been there for 8.5

Water levels in mid to late August are most desirable for damage at this level.

Presently the lake level is down, therefore, our beach

However, each spring we worry how far up the  
as the wind direction does seem to shift sand  
We can be reached at this Edgemere Dr. address

to shoreline). Currently there is approximately 75 ft.  
water will come, depending on snowfall, rain, and winds,  
distribution. The property is a summer cottage for us.  
July and August. Our permanent residence is Victor, NY.

## Location

Lake Ontario, Olcott Beach  
no raising the levels of Lake Ontario with  
levels. Water is never let out fast enough when  
because the Indians are getting flooded out around

1.8 miles East of 4 Mile Creek, Town of Porter  
first Annual Public Meeting is 9/13/01. This  
There doesn't seem to be any future long range  
to their states, i.e. South West States. 3) Our  
seems to be an opportunity to capture wind  
power source in the future when this  
monitor incoming freighter from other countries to  
country, i.e. zebra mussels, drugs, illegal immigrants.  
Ontario have inefficient septic systems and are

3/4 mile East of Oak Archard, Lake Ontario  
revetment across 200 ft. of our property to protect  
stone cover of the 3-5 ton interlocking revetment  
boulders.

Rochester (Greece - live on lakeshore)  
corrected during the winter when river is frozen,  
December to allow for excessive snow and wet  
the spring winds, thaws, and rains. Before the  
Lake level must be lowered to 242' and 243' to  
conditions wave action 2 - 6 ft. Med. Storm  
the wind action is 8 - 10 ft.

We want our beach front back the way it was.  
craft are larger and in more numbers. We too  
comes first.

Lake Ontario, Kent, NY (1.5 miles east of Oak Orchard) When the lake is rough the water looks quite muddy. I

## Additional Comments

Water is down in all the Great Lakes and there should be  
property owners suffering damages from these higher  
level is high and then we are told that it can't be let out  
Montreal. It's about time property owners get relief.

1) On page 8 of the Ripple Effects brochure it states the  
periodical was not received until December 2001. 2)  
discussion about the fact other states want to divert water  
country needs to find alternative power sources. There  
power from the winds across Lake Ontario as an alternate  
technology is refined. 4) Is there security in place to  
insure undesirable activity can't be brought into our  
5) How many "cottages" and/or homes along Lake  
allowing septic/sewage into the lake.

Continuing issue of low water level - we installed a  
against high water erosion. With low water, we lost the  
rocks, leaving nothing on our beach but these large

The height of the water in March/April can not be  
consequently the height of the lake must be reduced by  
spring. All damage is done in March/April when we get  
river freezes, between November 15 - November 25, the  
prevent spring erosion. The Corps has stated: Normal  
conditions wave action 6 - 8 ft. Serious Storm condition

Over 50 years we've experienced erosion to our property.  
It is not the fault of the property owners that the small  
have a boat that we use on the lake, however, our property

assume that it is caused by dirt that has washed  
disturbance of the lake bottom?

Rochester (Hamlin)  
shipping and hydroelectric and the revenue  
Canadian taxpayers? I wonder how public  
what costs are being passed on to the taxpayer

into the lake over time - more than just a normal

I am concerned that too much emphasis is being placed on  
they generate. What are high like levels costing US and  
municipalities and industry on the shoreline survive and  
because of high water levels.

## Location

Lake Ontario (1.5 miles east of Wilson, NY) we used to have a nice beach. The past 5 to because of the high water level, which has itself.

Lake Ontario (Youngstown/Wilson) 1970's has now deteriorated from erosion.

Hamlin, NY unaffected until water levels exceed 246.5 ft. above severe windstorm. Once water level exceeds 247.5 a continuing basis if there is any significant experienced greater damage.

Lake Ontario - Kent, NY eroding shoreline - Cost \$70,000.

Shady Harbor Drive - Hamlin, NY sandy beach between our stone breakwall and shoreline to breakwall. We have a lawn from house within 10-15 ft of our breakwall, and that is only suffer shoreline erosion, just shifting sand.

Rochester damage to shoreline.

Hamlin, NY years. The volume of algae/seaweed has been impossible to launch motor craft from the shoreline. owners from swimming in the lake for a portion of during the past 3 summers & steps need to be

Little Sodus Bay - Lake Ontario since 1996. In that time I've been flooded twice year (2001) - the water level after August has some of my customers to find other means of feet so several of my clients have needed to

## Additional Comments

My family has owned this property for over 50 years and 10 years we have had little or no beach to speak of considerably diminished the enjoyment of the lake water

The revetment work done by Army Corps of Engineers in We will lose more shoreline at present rate.

Our shoreline is now hardened and therefore largely sea level. After that, damage is sustained with each ft. we are highly vulnerable and sustain damage on almost wave action. In 1973 we were relatively unprotected and

In 1993-94 we had a bulkhead constructed to protect the

We are fortunate to live on a shoreline that generally has a the lake. Our beach probably averages 100 ft from front to breakwall - only very rarely does the lake reach during prolonged storms from the northeast. We do not

If the water is 1 foot higher than the average it causes

We have observed an increase in algae buildup in recent extremely large at times which made it virtually Also, the buildup of algae restricts & prevents cottage the summer season. This problem has become critical taken to clean up the lake.

I've owned a marina on Little Sodus Bay in Fair Haven in the Spring - 1996 & 1999. Last year (2000) and this caused me to close several of my boat slips & required launching. Presently the depth in my launch is less than 3 have their boat hauled elsewhere. 125-ft. from shore I'm

down to 37" of water & the drive unit on most clear water conditions have also caused the problem.

of the boats hit in places. The low water in union with the inshore =12" & under weed growth to become a real

## Location

Somerset, NY  
Engineers controls the lake level and thereby outflow of water. Reports should show the long prior to the management of the levels by the should be maintained at the averages determined integrity are absent from the people in power.

Rochester, NY  
docking is not practical at my current location -

Sodus Bay (Sodus Point) hazard. I also have a lakefront home in Webster when the lake is at or above 247-ft in June or early in the Spring when big storms are more shore is most vulnerable. High water is

## Lake Ontario

mussels that are destroying everything.

Hamlin Beach  
many lake owners and has damaged the  
Internationalists should be held accountable for trillions  
We've paid to have our breakwall redone - new  
our wine rack hit on each wave hitting rock with  
clean up trees, pieces of dock etc., behind our

## ***Lake Ontario - West Shore***

Flamborough Township, ON  
too low for crop irrigation. Farm pond level in  
normal, 1.8 m.

## Additional Comments

I believe the lake level problem is a fraud. The Corps of establishes the long-term average as it manipulates the term average from 1900 to 1940 as established by nature Moses Dam and the St. Lawrence Seaway. The level from 1900 - 1940. However, I know that honesty and

For my boating needs, once levels drop below 244.7-ft, Sutters Marina, Irondequoit Bay, Rochester, NY

In '73 large islands of floating cattails were a navigation where I've spent \$25,000 to control erosion which occurs above 246-ft in March. Lower levels (even up to 246-ft) likely are damaging. That is the time of the year when the usually in June, but the level in March is most critical.

I believe it is an environmental crime to hold back water and artificially raise the level of Lake Ontario. It is a bigger environmental crime to allow foreign vessels into our Great Lakes. They have destroyed commercial fishing (sea lamprey). Now we have zebra

Damming up St. Lawrence River to help some has hurt environment and other life. The State, Fed., and in damages. 1) I've busted my chops with sandbags. 2) rip-rap - on top of other previous jobs. 3) The glasses in "high" water. 4) Cracks in foundation. 5) We've had to garage.

Summer 1999, August 2001, water level in farm ponds November 2001 normal distance from low level to

## **Location**

Stoney Creek, ON  
change of water level to our waterfront. We  
causes shifts in the shoreline, however, as  
between water level and the extent of our beach.  
of how sensitive shorelines are to your water

## **Additional Comments**

This document attempts to illustrate the impact of the  
understand that water level is not the sole factor which  
illustrated by these photos there is a strong correlation  
We hope that this document will remind your committee  
level determination decisions.

## ***No Location Given on Survey***

Keep it low in the winter

## ***St. Lawrence River - Lake St. Francis***

Lake St. Francis  
Lake St. Francis. Hydro-Québec keeps the  
power out of the plant at Beauharnois.  
daily peaking and ponding operations.

There are not really any problems with water levels on  
reservoir as high as possible, and steady, to get maximum  
Maximum variation in lake/reservoir is + or - 20 cm with

## ***St. Lawrence River - Lake St. Lawrence***

Lake St. Lawrence - Wilson Hill  
years.

Lake St. Lawrence  
protection & use, as wildlife are on private

10 km downstream from Morrisburg  
to avoid critical high and low water levels.  
Ontario.

Lake St. Lawrence  
Wild River  
since 1939. I have noticed erosion in several  
out of Waddington toward Ogdensburg and  
the point above it is also nearly eroded.

Low levels has affected our water supply several different

The road across from Lot #326 should be opened for fire  
properties and the existing causeway.

Water levels should be established for Lake St. Lawrence  
This can be done by control of water outflow from Lake

Ideal water level for me is 235 feet  
I have lived in the summertime on the St. Lawrence River  
places. If you want to see real erosion drive about 7 miles  
view the house which has lost about half its frontage and

## **Location**

Lake St. Lawrence  
high/low outflow rates, peaking and ponding as well  
Abrupt changes are environmentally  
negatively impacted when the levels fall below 240  
problems begin to occur at levels below 238.5 ft. at  
the ships' bow wave draw-outs from the bays.

Wilson Hill Island, Lake St. Lawrence  
Canada Village on Canadian side, enjoyed better  
Ontario being so low that the water is held back in  
least 12 inches over a 24 hour span which  
get your boat off your lift at these times.

## ***St. Lawrence River - Lake St. Louis***

Notre-Dame-de-L'Ile Perrot, Lake St. Louis  
put our floating docks in the water. Where  
covered with plants. The shoreline no longer

Lake St. Louis  
level all year long and would keep the shores

Île Perrot Marina  
holding the water back above Beauharnois so

## **Additional Comments**

Lake St. Lawrence is subject to much variation from  
as wind set-up, particularly from either the ENE or WSW.  
disruptive in the late spring. Recreational boating is  
ft. at Long Sault. Significant domestic water intake  
Long Sault and are further exacerbated by east winds and

All have in this area of Lake St. Lawrence and Upper  
water conditions in the last 2 years on account of Lake  
our area to do this. They raised and lowered the water at  
means bad boating conditions like you may not be able to

The water level in Lake St. Louis is so low that we cannot  
there used to be water, now there is a 200 ft. wide mudflat  
can be used.

A dam across the Lachine Rapids would give us a steady  
clean.

Everybody around the marina says that Hydro Québec is  
that Lake St. Louis goes down.

## ***St. Lawrence River - Lake St. Peter***

Port of Montréal, Contrecoeur  
river have been too low for the ships. They  
loaded at Québec, or came from their ports of  
shipping companies.

Pointe du Lac, Lake St. Peter  
water in the Great Lakes so the St. Lawrence  
all the extra water, so we get flooded.

During the years 1999, 2000, 2001, the water levels in the  
could not come up-river with their full load, so either off-  
origin with less cargo. Both solutions are costly for the

Everyone knows that during dry years "they" keep the  
dries up. In wet years it is just the opposite, "they" dump

## Location

Sorel Islands  
only a few plant species now. Fewer kinds of  
surface of Baie des Graces.

## Additional Comments

The wetlands have been completely changed. There are  
birds. The cattails have encroached on most of the

### ***St. Lawrence River - Thousand Islands to Ogdensburg***

Chippewa Bay, New York  
birds including loons. They are noisy and dirty  
another oil spill because safe guards are not in

Cape Vincent, NY  
tap of the Great Lakes. Without it, we  
control & we'd all accept whatever level she set. (I'd

Escott, 15 mi. west of Brockville  
problems of low water affect property values. How  
market value goes down because docks are almost

Clayton, NY  
along the water. I have been personally injured  
few similar injuries. Have devised several  
facing boards, safety ropes, "geriatric pole",  
only partially preventable. Maintaining  
preventing injuries - especially in recreational boaters

Brockville  
boating not maintained through to October 31?  
1st and drops significantly every day until there  
problem holding the level through July? Lifetime

St. Lawrence River - Wellesley Island  
the summer of 2000. You will see that July 1,  
started. By September 30 we only had 6  
pictures of ice damage that took place in the  
the shipping channel. Solutions: dredge Port of

Get rid of ski doos. Among other things they chase water  
and impact greatly on the environment; freighter speeds;  
place.

It's a shame that someone had to put a valve on the outlet  
wouldn't be doing this. Mother Nature would be in  
like to see the results of this survey)

Our interest is for shore property and 2 islands. The  
can they raise assessed values (and taxes) when the  
not accessible.

I am concerned with personal injuries occurring on and  
falling into a boat at low water, and I have treated quite a  
safety innovations to prevent these injuries - ladders, long  
etc. Most injuries are multi-factorial, and therefore, are  
adequate water levels in the system is one factor in  
and waterfronts.

Why are realistic, appropriate water levels to permit  
Water is being released at Iroquois Dam starting August  
is no water by September 1st. There seems to be no  
resident on water at Brockville.

Attached you will find a water level chart I compiled for  
we had thirty inches of water and then the water dumping  
inches of water . Very unacceptable. Also are enclosed  
Spring of 2001 caused by the "Ice-Breaker" opening of

mid-August, therefore leaving more water until

Montreal, refrain from massive dumping of water until

later in Fall.

## Location

Clayton, NY neighboring areas that no consideration or little river despite the fact that we pay the highest tax more consideration should be given to the are being penalized through low water levels for residents that build their residence on the flood plain shipping industry to keep down river and Lake St. payloads. With today's computer technology the 4 ft. as identified in Plan of Record 1956.

Fishers Landing, 1000 Islands connected to power companies. Should get

1000 Islands, Mallorytown, Rockport had to vacate our island and bring two of our Day or we wouldn't have been able to float up the same way in 2000. Had to purchase a Ontario shore across from our island in the 1000

Chippewa Bay - 1000 Islands management (compared to water level fluctuations had an effect on spawning beds for pike spawning - more mono-culture cattail beds.

Millens Bay - 1000 Islands season is cut short because of low water. Also, levels (low) creating problems for motors, etc.

3 Mi. east of Cape Vincent cannot use your boat. We miss the best part of should give us some more advance notice move our boats. Some people only use their high and dry.

## Additional Comments

It appears to the recreational boaters whom reside in our consideration is given to the tax paying residents of the rate of any residents in the North Country. Thus we feel people who reside on and use the river. We also feel we errant issuing of building permits to Lake Ontario shorelines of Lake Ontario and the profitability of the Lawrence at levels to accommodate larger freighter river level should be controlled to a tighter parameter than

Should get people on the Control Board that are not year-round (especially winter-time) control established.

With the water levels dropping so drastically in 1999, we boats down to our Prescott boathouse right after Labor them into the boathouse. WATER TOO LOW!! Ended pontoon craft in order to get to our usual landing on the Islands.

Loss of wetlands because of rigorous water level before the Seaway established in 1950's). Seems to have fishery. Consequential less grass level, wet levels, later

It is a difficult problem, but here most of our summer weed growth multiplies greatly in the Fall due to water

It is sad when you can only sit and look at the water and the boating and fishing season (the Fall). I also think they when they draw the water down to give us ample time to cottages on weekends and come back to find their boats

## Location

St. Lawrence River (next to Cedar Point S.P.) If too much goes, we may lose the row of damage occurs in early spring, especially during moving at a faster speed mow. If we lose much and eventually jeopardize the cottage. The best our high spring level. Since the river was more damage. If the water could be kept at the

Densmore Bay, Wellesley Island Fall. June, July are adequate. August begins to boat.

Brockville Narrows (across from Channel Marker on Also the water and shore birds have less suitable largely destroyed swamp areas around Molly's area. I strongly recommend regulations to do St. Lawrence since round Gobi have been found back Osprey.

1000 Islands 100 years. I would like to see a graph of levels higher. In that time a lot of marinas and docks think it's right that those who built homes on a flood else. I really used to enjoy my boat in September

T.I. Park, Wellesley I, NY when in late August the water in the South Bay,

Goose Bay - 1000 Islands After Labor Day if the level was taken down by 1/2 and OK boating during the Fall. Before to the end of the year target. Lower water levels

Alexandria Bay, NY

## Additional Comments

Over the past two years I noticed more loss of bank rocks. protective soil/rock holding trees at top of bank. This high waves from passing freighters. It appears they are more, the trees will fall and with that more bank erosion water level would be half way between today's level and regulated, people got used to higher water, but it brings 1/2 way point it would be the best solution.

The fluctuating water levels vary greatly from Spring to vary downward and by September it is difficult to use our

The effect of zebra mussels on habitat for small fish. food for their babies. Low water levels last 3 years have Gut and Lily Bay as well as areas around Islands in that more thorough dumping of ballast before ships enter the in the Trent Waterway system. Finally, continue bringing

We are always shown graphs of water levels for the last for the past 50 years when the water levels were held were built because of the higher water levels. I don't plain are able to dictate low water levels for everyone and October.

I run a non-profit boating school. Our program is at risk Wellesley Island drops too far to use our boat ramps. The main issue is the sudden drop in the water level. of the year-end target it would provide water down stream freezing in November, the water could be lowered again during the winter seems to be a good idea.

I live in close proximity to the American shipping channel. Freighters traveling above the permitted speed

limits (particularly at night) cause water levels in my small bay to drop 15-18 inches in 1-2 minutes' time. This precipitous drop in such a short time has ripped the mooring cleats off my boats, damaged my docks, and roiled the water excessively. Low water levels greatly magnify this effect and disturb the shoreline causing erosion.

**Location**

Wellesley Island, NY  
I'm aware of the Lake Ontario south shore  
too close to the lakeshore and now complain  
more significant than devaluation of river  
economic stimulus provided by shipping and

**Additional Comments**

Being a former resident of Monroe County (Roch. area),  
group & their arguments. I also know many have built  
because of this fact. Erosion and/or devaluation isn't any  
property because of low water levels. We also need the  
tourism interests in the area.