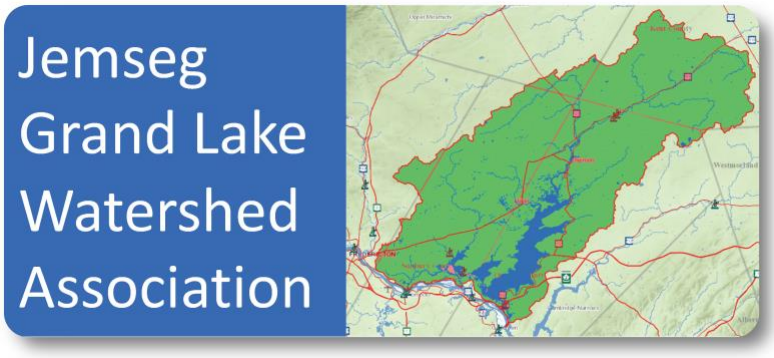
Jemseg Grand Lake Watershed Association
Cumberland Bay Pilot Invasive Plant Patrol Summary
August 29, 2021

by
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September 13, 2021

Jemseg Grand Lake Watershed Association Report 21-05



New Nouveau Brunswick
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JGLWA Cumberland Bay Pilot IPP Summary

August 29, 2021

Event overview:

- Aug 29, 2021 2 pm
- 6 participants
- Launched from Hawker/Kromm dock on Cumberland Bay of Grand Lake at N45°59.2916' W65°58.9032' with one tandem canoe ["mothership"] and 4 solo kayaks
- Estimate lake water level 0.25 m higher than the past 3 summers this time of year [measured off dock mooring pile]
- Surveyed two target areas and had a look at the Landry lagoon
- Viewed three plant species insitu & gathered several samples of each
- Seemed species of interest were not in the NBALA ID cards, so on water ID deferred until back on shore
- On the water for 1 hour, 35 minutes; paddled approximately 2 km
- The following table summarizes our preliminary IDs using LeafSnap app & Native Plant Trust's GoBotony website but expert ID is advisable

Samples Gathered

#	Preliminary ID	GPS Coord [deg-min]	Water Depth [m]	Remarks
1	broad-leaved pondweed [Potamogeton natans]	N45°59.2557' W65°58.9967'	1.5	floating pondweed is another common name
2	American eelgrass [Vallisneria americana]	N45°59.0895' W65°59.4466'	1.3	tape-grass is another common name
3	perfoliate pondweed [Potamogeton perfoliatus]	N45°59.0863' W65°59.8862'	1.3	Clasping-leafed pondween is another common name


#1


#2


#3













Learnings & Recommendations

- Taking a sample beyond hand reach from canoe/kayak proved challenging. Search out alternate "harvest tool":
    - something telescopic?
    - golf ball retriever?
- A team of up to 6 with a "mothership" and 4 solo kayaks worked well, whereby:
    - "mothership" would ideally be a tandem canoe with the most experienced IPP surveyor on board for plant ID & data capture
        - A tandem canoe can easily carry the bulk of tools such as:
            - Specimen cooler
            - Temporary marking buoys
            - Depth tape/rod
            - GPS & maps
            - Selection of specimen harvest devices [snips, rakes, etc]
            - ID tools [ID cards, phone apps]
            - Backup supplies, water, snacks
    - Solo kayaks can quickly move through the target area to find plant species of interest, do preliminary insitu ID & gather specimen & pass off to "mothership" for another ID opinion, packaging & storing in cooler as needed
- Add to NBALA ID cards as new plants discovered
    - We [JGLWA] should do this as needed once we confirm the ID of plants in the table above
    - We [JGLWA] should pass along our sample information to a local guru to validate our preliminary ID [Brad has someone in mind]
- Underwater GoPro footage taken has real potential to find, quantify & ID plants and also can help promote our IPP program rollout
- Recommend planning additional IPP rollouts next year, say based out of Douglas Harbour? Newcastle? Chipman?

- Identify leads for these target areas
- Compile documentation packages, including:
  - Print additional copies of the "NB Field Guide to Invasive Plants: A Resource for Lake Stewardship" & an updated "NB Invasive Plant Patrol Program Plant Identification Cards"; both issued by NBALA [note Hal Mersereau is forwarding the source files for these documents]
  - NBALA Documentation Forms, for field data capture
- Dieter Kromm, from the Cumberland Bay pilot IPP team offers to support these other teams & share 6 aquascopes, next generation harvest rake & depth measurement tool