



Boat Washing Station as means to
address the threat of Aquatic Invasive
Species (AIS) in the Abitibi-
Témiscamingue Region

COST SUMMARY



OBVT
Organisme
de bassin versant
du Témiscamingue



Boat Washing Station

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Background

This document was drawn up in order to facilitate the installation of boat washing stations wherever necessary.

The document that served as the starting point for this initiative was issued by the Regional Land and Natural Resource Commission (CRRNT) and can be viewed at the following link :

http://www.obvt.ca/fichiers/juin2014_CRRNT_EspeceAqua-envahissantes_FINAL.pdf

In 2015, *l'Organisme de bassin versant du Témiscamingue* (OBVT), Témiscamingue's watershed authority, installed a **mobile** boat washing station on its territory. This was made possible due to the involvement of various stakeholders working together in the installation group:

- Témiscaming and Kipawa Municipalities
- Opemican National Park
- Algonquin Community of Wolf Lake First Nation (WLFN)
- Tee Lake Cottage and Home Owners Association (Témiscaming),

OBVT would also like to highlight the important contribution of the followings parties: Abitibi-Témiscamingue Outfitters Federation, Member of the National assembly of Quebec - Luc Blanchette, Quebec Wildlife Foundation (*la Fondation de la faune du Quebec*), Taggart Bay Lodge Outfitters and 3 Seasons Camp Outfitters as well as those of Zec Restigo, Kipawa, Dumoine and Maganasipi.

The OBVT project description is available at:

http://www.obvt.ca/activites/projets_majeurs

In short, the system chosen by the installation group is a pressure washer connected to a 1000 litres reservoir. A pump allows direct water intake from a waterway should there be no access to running water. It is thus possible to install virtually anywhere! (See picture on page 6, figure 1).

Important Steps

While working on this project, the OBVT had to conduct some in-depth researches on the different types of existing stations (permanent and mobile), and intends to offer support on demand within its capacities and as time allows.

It is very important to keep in mind that cleaning effectiveness relies on systematic inspection and a wash by a competent person that has received minimum training. Here too, the OBVT can provide resources and training if needed. (see [Appendix 1](#)).

Displaying stickers on washed boats to authenticate the date of wash creates an incentive to owners and spreads the word between boaters, to encourage them to wash their boat. It is also a good monitoring system.

Signs (temporary or permanent, depending on the type of station) need to be installed along roads to indicate the location of the station.

A questionnaire can give very relevant information and can be filled out during a wash, without adding time to boaters' stops (see Appendix 2).

It is important to follow regulations. For instance, wash stations must be set up at least 30 meters from waterways to avoid water contamination (even with a closed circuit).

Note: As long as there is no regulation in place to enforce boat washing, it is hard to charge a fee for it. Since the wash is done on a voluntary basis, awareness must be closely tied to it. With this in mind, voluntary contribution is possible and awareness brochures should be distributed (contact OBVT if needed).

Cost Summary of a Boat Washing Station

At the request of many partners interested in installing a boat washing station on their territory, a summary budget was drafted for three types of washing stations: a mobile station such as the one installed by OBVT, a mobile station with running water, a permanent station, or a pressure washer only. These costs are provided for reference, they do not include taxes and they may slightly differ now compared to the given year. We must add to these costs the hours of planning, of coordinating and the labour (wash operator).

Mobile Boat Washing Station

Material	Prices, OBVT 2015 (taxes not included), may vary by supplier	
	No access to running water	Access to running water
Enclosed Trailer 6 x 12 feet, back doors and side door	6 300,00 \$	6 300,00 \$
Spare Wheel	165,00 \$	165,00 \$
Tow Bar	21,95 \$	21,95 \$

Boat Washing Station

Tow Ball 2-5/16 inches	14,95 \$	14,95 \$
Vehicle-Trailer Connector	55,90 \$	55,90 \$
Honda Gas Pressure-Washer. 13 horse-power, 4 gallons per minute cold-water supply, maximum pressure 3500 psi	1 534,50 \$	1 534,50 \$
100 feet Hose with Spray Gun	375,00 \$	375,00 \$
Reel	394,80 \$	394,80 \$
Reel Cart	180,00 \$	180,00 \$
36 inch Connector Hose (Pressure-Washer Tank)	24,95 \$	N.A.
Couplings	29,95 \$	N.A.
1000 litres Reservoir	324,50 \$	N.A.
12 feet 4 hp Honda Water Pump with suction	579,00 \$	N.A.
Discharge Hose for Water Pump (2 x 50 feet in length)	377,90 \$	N.A.
Total	10 378,40 \$	9 042,10 \$

Table 1: Cost of a mobile boat washing station

Below are two pictures of the OBVT mobile boat washing station:



Image 1: Picture of the OBVT mobile boat washing station.

Other open trailers models are available (see picture). You may consult the OBVT for suppliers and prices that have been researched.



Image 2: Picture of a mobile washing station in an open trailer.

Permanent
Boat

Washing Station

Guiding prices listed below refer to the CRRNT report available at the following link: http://obvt.ca/fichiers/juin2014_CRRNT_EspeceAqua-envahissantes_FINAL.pdf. OBVT conducted preliminary research that showed similar numbers. Costs may vary each year.

Material	Prices (CRRNT, 2013)	
	With Operator	Self-Service
Washing System	3 000,00 \$	5 000,00 \$
Shelter	2 000,00 \$	2 000,00 \$
Operator Training	400,00 \$	N.A.
Plumbing and Electricity	3 800,00 \$	3 800,00 \$
Engineering	4 300,00 \$	4 300,00 \$
Gravel, Cement, Waste Station	10 000,00 \$	10 000,00 \$
Total	23 500,00 \$	25 100,00 \$

Table 2: Cost of a permanent boat washing station.

The operator's salary must be added to the total cost of a permanent boat washing station with operator.

Pressure Washer Only

Some people were interested in obtaining the cost for a pressure washer only. They are as follows:

Material	Prices, OBVT 2015 (taxes not included), may vary by supplier
Honda Gas Pressure-Washer. 13 horse-power, 4 gallons per minute cold-water supply, maximum pressure 3500 psi	1 534,50 \$
100 feet Hose with Spray Gun	375,00 \$
Reel	394,80 \$
Reel Cart	180,00 \$
Total	2 484,30 \$

Table 3: Cost of pressure washer only

Be careful, this type of washing station requires more handling: taking the washer in and out every day, reconnecting the parts, etc. In addition, cleaning effectiveness requires a systematic inspection and a wash by a competent person that has received minimum training. Otherwise, an effective wash is not guaranteed. The OBVT can provide resources and training if needed (see [Appendix 1](#)).

For any additional information contact

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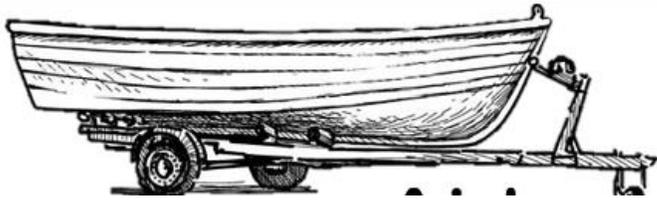
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Appendix 1: Full Inspection



Check List for Inspection and Wash of Motor Boats

Boats

- Hull
- Walls
- Floor
- Ladders
- Lights
- Antennas
- Depth Sensor
- Holding Tanks
- Ballast
- Water Intakes
- Engine : Foot, Propellers, Mounts

Trailer

- Underframe and Hollow Spaces
- Rollers and Boat Support
- Axles
- Fenders
- Lights
- Licence plate and Support
- Cables
- Wheels and Tires

Equipment

- Fishing Equipment
- Nets
- Anchors
- Ropes
- Buoys
- Electric Motor
- Life Jackets
- Water skis, etc.

Appendix 2: Questionnaire



QUESTIONNAIRE

BOATERS HABITS REGARDING THEIR BOATS

GENERAL INFORMATION	
Place of Residence	
Reason for your trip (fishing, vacation, relocation, etc.)	
Are you travelling on more than one waterbody with your boat?	Yes No
Which ones? (in order of priority)	- - - - -
What is the last lake that you travel on with your boat?	Lake: City: Province:
How long does your boat stay <u>out of the water</u> between two uses? (in days)	<7 days 7 to 14 days >14 days
Are there aquatic invasive species in the lakes that you regularly visit?	Yes No I don't know
Are you familiar with the issue of aquatic invasive species (AIS)?	- 1 2 3 4 5 +
Are you aware of any AIS present in the Abitibi-Témiscamingue Region or in your region of origin? If so, what are they?	

Boat Washing Station

STATION DE LAVAGE DE BATEAUX		
Do you have a habit of washing your boat prior to heading to a new waterbody?		
Do you think this method is an effective way to limit the spread of AIS?		
Would you be willing to pay to have access to a boat washing station?		
What would you consider to be a reasonable amount to pay for a boat wash?		
How much time would you be willing to spare for a boat wash?		
In your opinion, where would be the best place to install a boat washing station?		
Would you like to receive information on aquatic environments and OBVT activities?	Yes	No
	First and Last Name: Organization represented: Street Address: City and Postal Code: Province: Tel: e-mail:	
Other Comments		
Thank you for your participation! This questionnaire is confidential		

