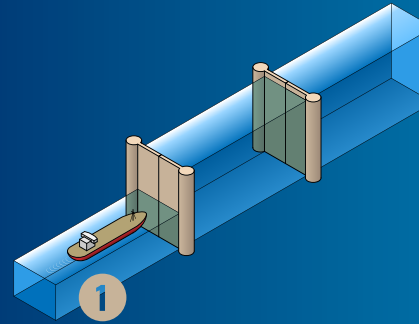


# Lock Double Draining Explained

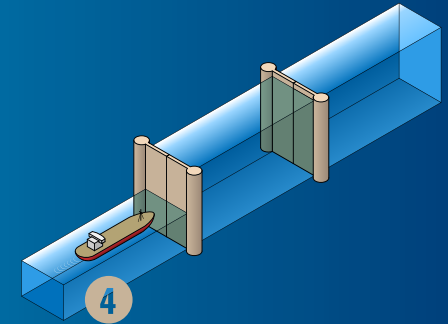
The New York State Canal Corporation plays an important role in mitigating the spread of aquatic invasive species (AIS). In 2023, we continue to work with the state Department of Environmental Conservation (DEC), to modify a pilot procedure at two adjacent Champlain Canal Locks with knowledge gained from the 2022 pilot year. The affected locks and double draining might vary or be adjusted during navigation season due to information we gather. The procedure double drains the locks to reduce the potential AIS spread in the Lake Champlain Basin.

Draining a lock creates strong water currents outside the lock. The currents help push invasive species away from the lock, limiting their spread upstream toward Lake Champlain. In 2023, we will adjust lock draining to start turbulence in the water from the draining and follow that shortly with a second adjustment to create further turbulence and add speed to the draining water pushing it further away from the lock. The greater speed and turbulence from two adjustments during the same draining helps create an environment to discourage invasive species from then entering a lock during opening.

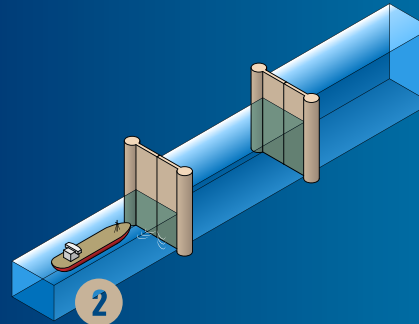
During double draining, locking through will take approximately 40 minutes, instead of the usual 20. To learn how you can help mitigate the spread of AIS, visit DEC's webpage, Protect Your Waters from Aquatic Invasive Species at <https://www.dec.ny.gov/animals/48221.html>



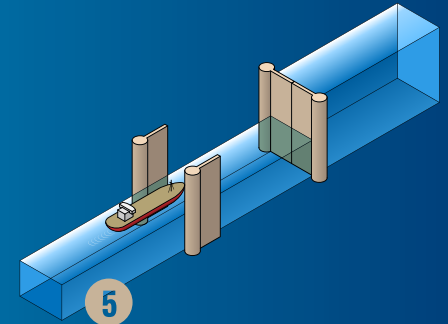
1 Boat traveling northbound approaches the entrance lock gate. (Also illustrates a refilled lock for southbound travel example)



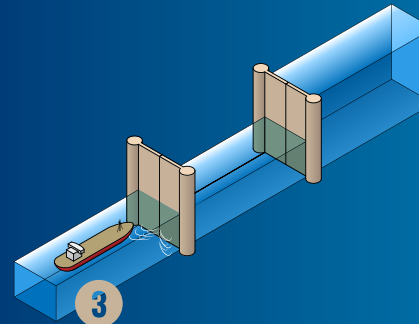
4 Lock refills. Steps 2-3 repeat followed by Steps 5-6



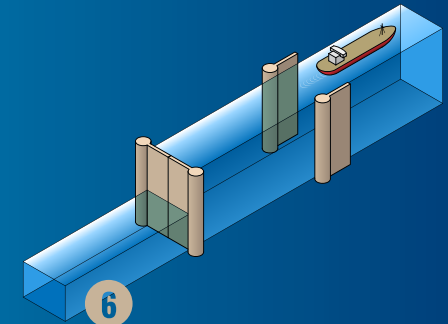
2 Lock water is lowered with first adjustment creating turbulence at the bottom of the lock gate



5 Boat enters lock. Lock is filled



3 Lock water continues to lower with a second adjustment creating greater turbulence



6 After lock water is raised, exiting gates open and boat leaves

**Note:** Southbound travel will vary from northbound. At the entrance lock gate, boat approaches a full lock. Steps 2-3 happen. Lock is refilled, as described in parenthesis in Step 1, and boat enters lock. Then Steps 2-3 repeat with boat in the lock and at end of Step 3 boat exits.