



COLUMBIA BASIN GROUNDWATER MONITORING GUIDE

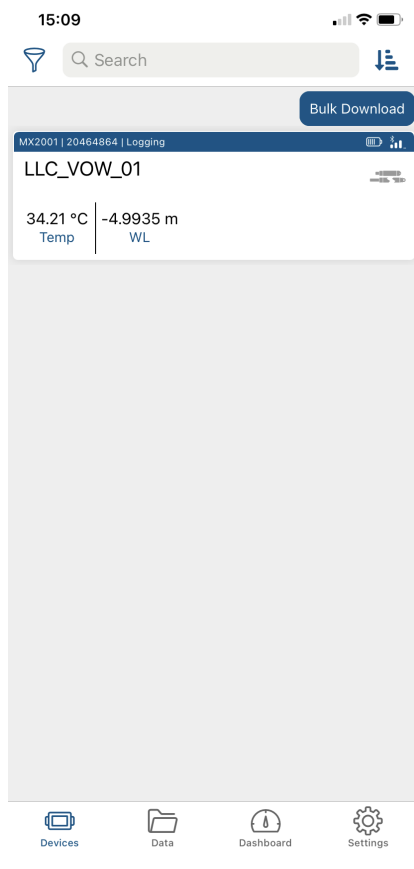
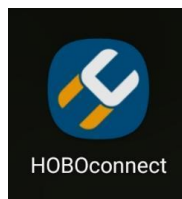
HOBConnect App User Guide

Equipment Model: MX2001

Questions? Contact groundwater@livinglakescanada.ca

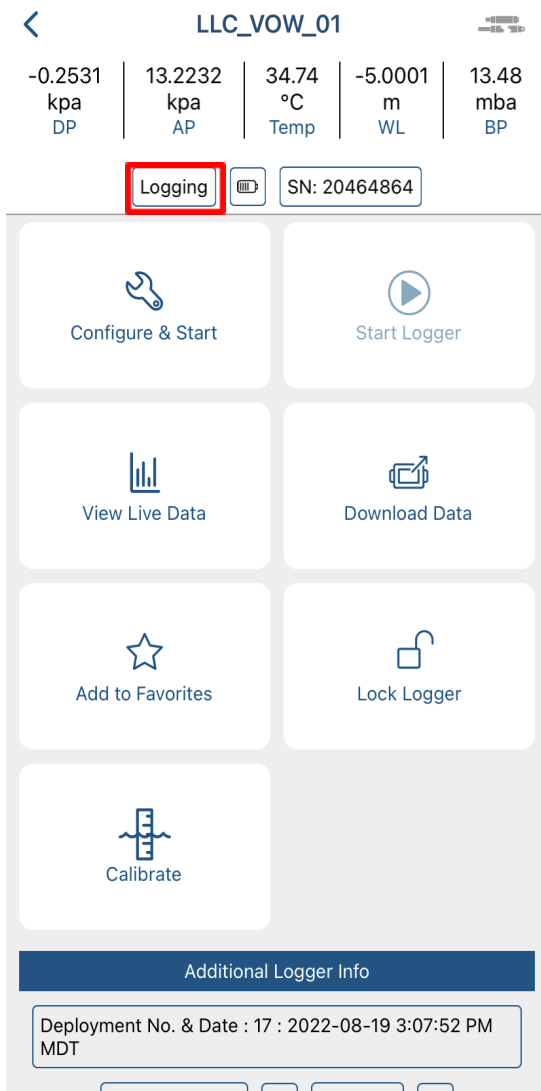
These instructions are simplified. The manufacturer's Uses Guide for HOBConnect can be downloaded: <https://www.onsetcomp.com/support/manuals/24371-hoboconnect-ug/>

Step 1: Connect to Logger



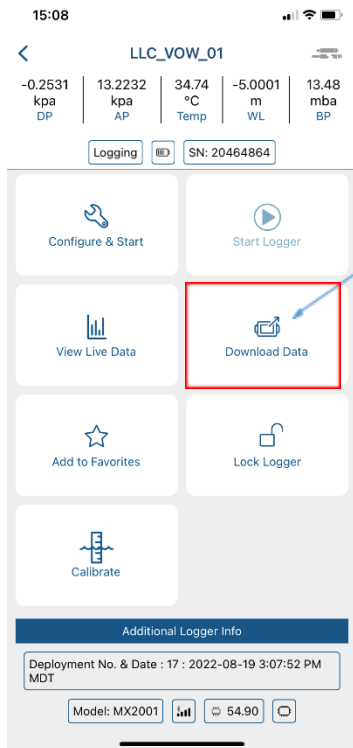
1. Open **HOBConnect** on your device.
Found in the app store. Compatible with Android, ISO and Windows.
<https://www.onsetcomp.com/products/software/hoboconnect>
2. If prompted, enable Bluetooth in your device settings.
 - a. The logger should appear on the HOBConnect screen when the "Devices" tab is clicked (Note the Living Lakes Volunteer Observation Well Number should appear).
 - b. This takes a moment. If the logger does not appear in the list, make sure your device is within range of the logger. Try moving closer to the well and ensure Bluetooth is enabled.
3. Select your logger from the list by clicking it.
 - a. If the logger appears on the screen, but you cannot connect to it or if you are experiencing persistent connection problems, close HOBConnect and power cycle the mobile device (turn it off, wait a minute, and turn it back on). This forces the previous Bluetooth connection to close.

Step 2: Ensure logger is connected and check the status

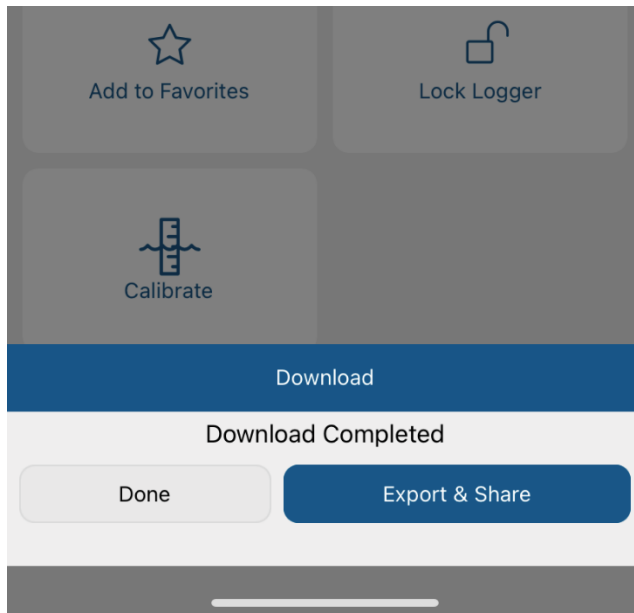


4. Look at the sensor readings on the main screen (Note the water level may be a negative number depending on what was used as a reference water level). The water level is the distance from the top of the well casing to the water surface in the well.
 - a. If the logger is not connected these values will be inaccurate. Readings are updated every minute while the logger is connected, logging, and in range. If the logger is stopped the sensor readings display as "--". If the logger is stopped, contact the Program Manager.
5. Check the status of the logger
Review the following:
 - a. Battery Level: battery bar
 - b. Current Status: logging
6. Contact the Program Manager if the batteries are low (< 50%), the logger is not configured or not logging.
7. Return to the main menu by pressing the arrow in the top left corner. The arrow may be blue or white depending if you are on an iPhone or an Android.

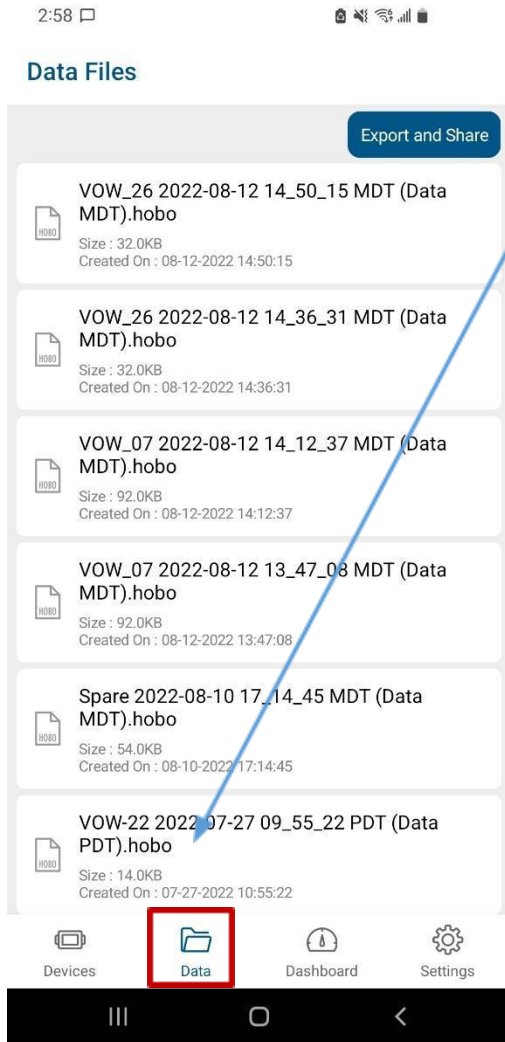
Step 3: Download the data



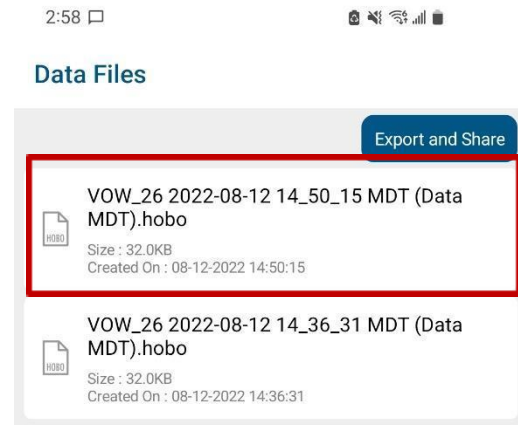
8. Press the “Download Data” button on the middle of the screen.
 - a. A message will appear saying “Download Completed”. Click “Done”, verify the data before exporting (see step 4).



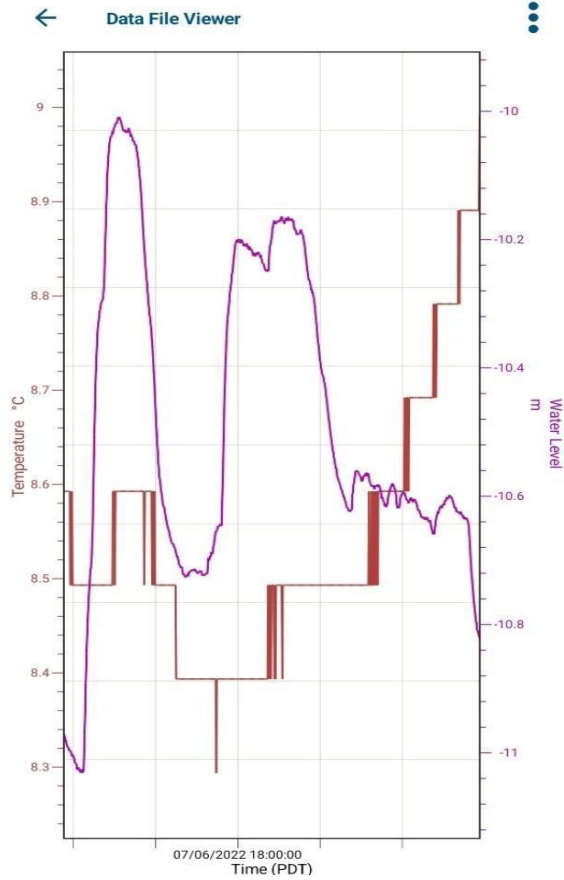
Step 4: Verify the downloaded data



9. Go to the main menu at the bottom of the screen and select “Data”.
 - a. A “Disconnect from logger” message will appear.
10. Press “OK”.
11. In the Select Data menu select the file you just read out.
 - a. The “Created On” time should match the time you read out the data.
 - b. Select your downloaded file.



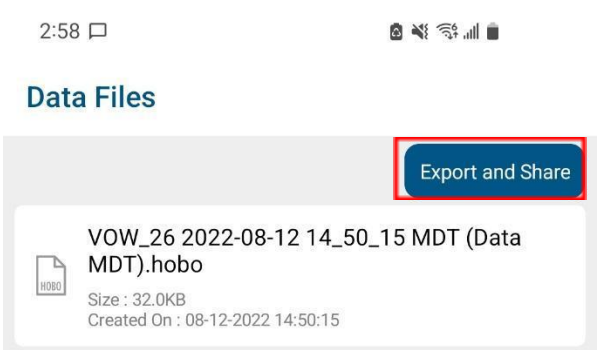
12. Review the data in the graph.



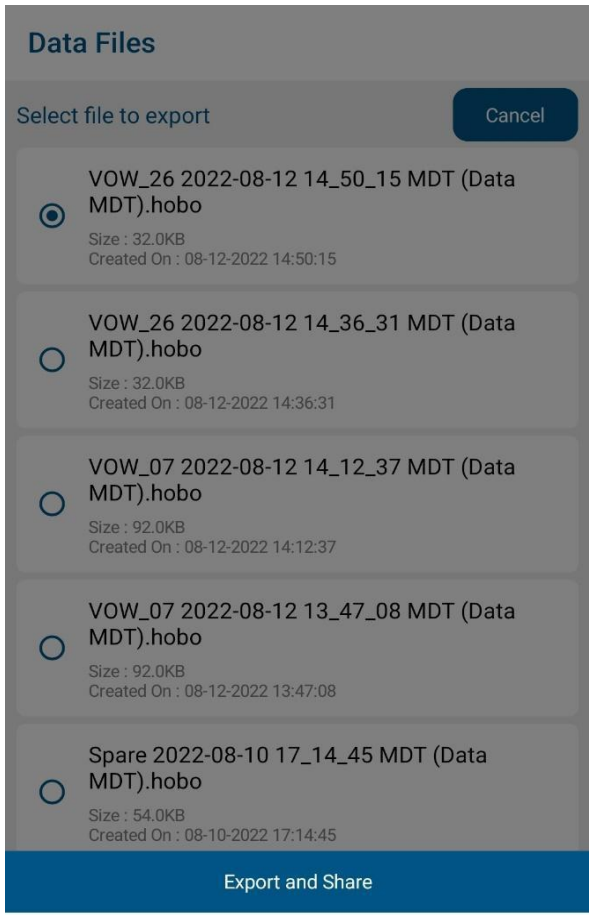
Note that the water temperature is shown in red and the water level in pink.

- c. If the water temperature is constant it will appear as a straight line.
- d. If the water temperature is fluctuating red vertical black lines may appear on the graph. This is due to small temperature changes and the temperature scale on the graph.

Step 5: Send the data files to Living Lakes Canada (this does not have to be done at the well site and can be done at a later time).



- 13. Ensure you have a data connection.
 - e. Select “Data” Icon on the bottom of the screen
- 14. Select Export and Share on the top right corner of screen



- 15. Select your recently downloaded file.
- 16. Ensure you are exporting the file as “XLSX”
- 17. Hit “Export”.
- 18. Send file to groundwater@livinglakescanada.ca.
- 19. Repeat and change the file format to “HOBOfile” and send to the same email. Note that the water level in the readout is the distance below the top of the casing (bTOC). Please send both .hobo and .xlsx files to Living Lakes.
- 20. If you would like a graph of the data for yourself send yourself the data in the image format.

