<https://www.orange.wateratlas.usf.edu/datadownload/disclaimer.aspx>

* Raw data with water quality metrics
* Unique ID (used in website name): WBODYID
* Lakewatch parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Characteristic** | **Characteristic Code** | **Units** | **Sample Fraction** |
| Nitrogen | TN\_ugl | ug/l | Total |
| Phosphorus as P | TP\_ugl | ug/l | Total |
| Secchi disk depth | Secchi\_ft | ft | Total |
| Chlorophyll a, uncorrected for pheophytin | Chla\_ugl | ug/l | Total |

* Selected all lakes and ponds from all water atlases
  + Selected all 9280 stations – this led to an error
* Selected all lakes and ponds from all water atlases and the 4 parameters above
  + Selected all 8816 stations – this led to an error
* Selected all lakes and ponds from **CHNEP** atlas and the 4 parameters above
  + Selected all 1658 stations
* Selected all lakes and ponds from **Hillsborough** atlas and the 4 parameters above
  + Selected all 1729 stations
* Selected all lakes and ponds from **Lake County** atlas and the 4 parameters above
  + Selected all 1807 stations
* Selected all lakes and ponds from **Manatee** atlas and the 4 parameters above
  + Selected all 59 stations
* Selected all lakes and ponds from **Orange** atlas and the 4 parameters above
  + Split N and P in one file, Secchi/Chlorophyll in a second (too big to do all 4)
  + Selected all 2494 and 2588 stations
* **Pinellas** 377 stations
* **Polk** 1645 stations
* **Sarasota** 90 stations
* **Seminole** 1234 stations
* **Tampa Bay Estuary** 2211 stations

<https://maps.wateratlas.usf.edu/atlasoflakes/>

* Attributes table with Permanent\_Identifier and WBODYID
* Use download button to download database
* Drag and drop .gdb folder into open QGIS
* Access lakes attribute table
  + This version of the attributes table does not have Permanent\_Identifier
  + It has COMID, which is similar, but not the same
* GIS source: <https://gis2.waterinstitute.usf.edu/arcgis/rest/services/Atlases/FAOL/MapServer>
  + None of the file types will open in QGIS and the online Arc viewer doesn’t let you download the attributes table
  + Downloaded .lyr file and opened in ArcMap through UF Apps
    - This file is only images and sources the attributes from the waterinstitute site
* Sent a message asking for help: <https://wateratlas.usf.edu/contactus/>
  + Couldn’t locate data with PermanentID