

Soil & Water Conservation District

Caitlin Stewart, MS

Manager, Hamilton County Soil and Water Conservation District

Lake Monitoring the hyperdrive version!





Technician

Katie WhitKovits

takes a chlorophyll sample.

A long time ago in a galaxy far, far away....

A Brief History of the LMP

Program established

Lab analysis

1996

2019

1993

2008

FLLOWPA

ELAP

Fleeing Tatooine: Procedure

- 19 lakes, May October, deepest
- Field data
 - Weather trends
 - YSI Pro DSS
- Water sample collection
- Analytical parameters





Verification Process	Complete	Notes/Comments				
Field Data						
Are all field visits recorded with sites, dates, times,	X					
and analyst properly identified?						
Are all photos and other data properly linked to field	\boxtimes					
visit records?						
Are field visits properly linked to field data from	\boxtimes					
instrumentation (example, multi-parameter						
probes)?						
Are field measurements be linked to a recorded	\boxtimes					
calibration record or quality control check?						
Are all field visits, environmental observations, and	\boxtimes					
instrument data accounted for?						
Are the field data file finalized with appropriate	\boxtimes					
notes/qualifications?						
Analytical Data						
Are sample collections cross-linked to field site visits	\boxtimes					
by site, date, time, and sampler?						
Did the laboratory provide all expected data in	\boxtimes					
laboratory reports (with lab quality control samples						
and data flags)?						

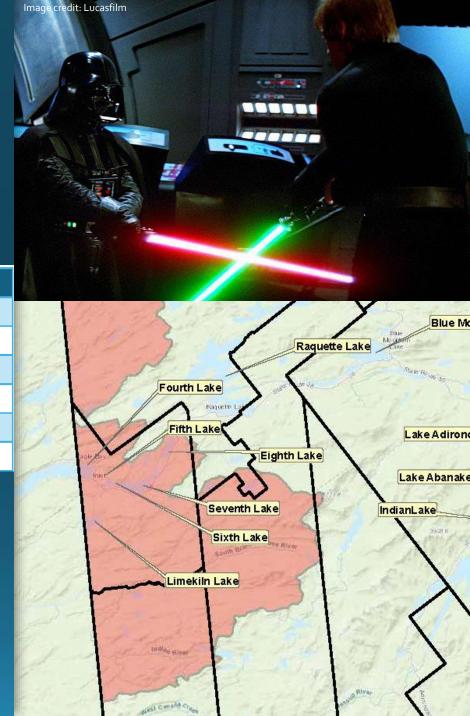
The force is strong with QAQC

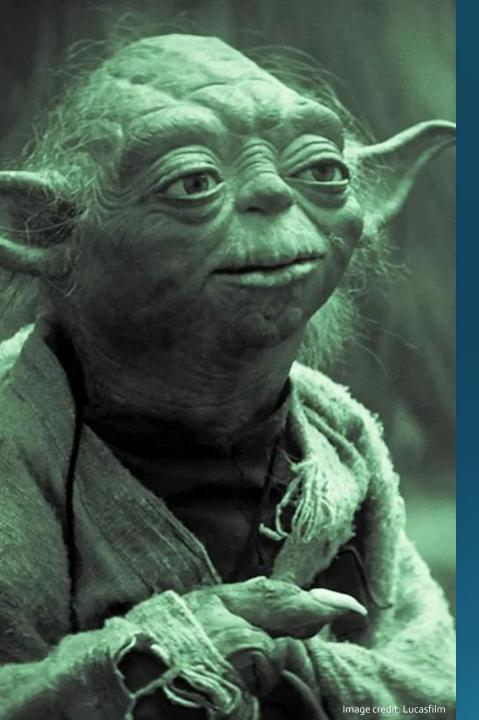
- QAPP
- ELAP
- SOPs
- DUAR



Return of the Jedi: <u>Black River Watershed Lake Results</u>

Lake	pH Condition	Alkalinity	Transparency	Chloropnyll- <i>a</i>
Fourth	Circumneutral	Increase	Decrease	Moderate
Fifth	Slightly acidic to circumneutral	Low sensitivity	Decrease	Moderate
Sixth	Circumneutral	Increase	Decrease	Moderate
Seventh	Circumneutral	Increase	Decrease	Low
Eighth	Circumneutral to slightly alkaline	Increase	No trend	Low
LimeKiln	Slightly acidic to circumneutral	Increase	Decrease	Moderate





Do or do not. There is no try Conclusions

- Circumneutral pH
- Increasing alkalinity
- Decreasing transparency
- Variable chlorophyll *a*

Working to manage and promote the wise use of natural resources in Hamilton County since 1965



Staff

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