



*Clean Water – Healthy World*

***Closing the Loop on Sustainable Water Restoration***

Bill Eggers, CEP, CWB, PWS

VP Science & Technology

BS Wildlife Ecology/Zoology, UF 1992

Greater Everglades Ecosystem Restoration – 2019

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Coral Springs, FL





Vision:

Clean Water – Healthy World

AquaFiber's cutting edge AquaLutions™® technology can permanently remove algae and nutrients at scale from surface water more efficiently, effectively and economically than any other.

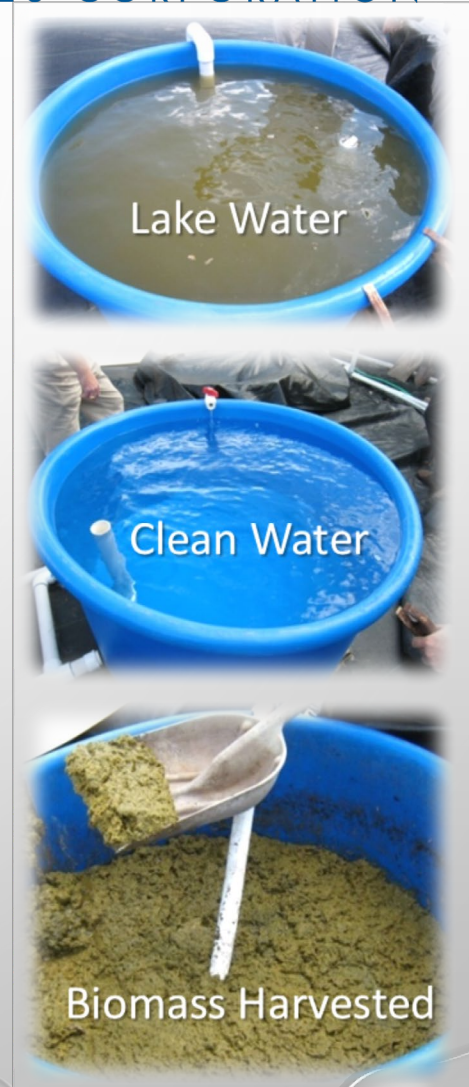






## AQUALUTIONS®™

- TRADE SECRET DISSOLVED AIR FLOTATION BOOKMARKED BY TRADITIONAL METHODS
- HARVEST ALGAE AND CYANOBACTERIA, POLISH TO REMOVE DISSOLVED FRACTION
- WATER QUALITY RESTORATION, NOT JUST NUTRIENT REMOVAL
- IMPROVES ALL TROPHIC STATE INDEX METRICS:
  - PERMANENT REMOVAL OF EXCESS NUTRIENTS
  - CLOSE TO DRINKING WATER CLARITY
  - SATURATED WITH OXYGEN
- LARGE VOLUMES OF BIOMASS USED FOR BENEFICIAL PURPOSE







World • United States • FL • Seminole Co.



50 feet

20 m





## LAKE JESUP OPTIMAL RESULTS - YEAR 2 DUAL NUTRIENT EFFICIENCY

- **TOTAL WATER TREATED**

- (350 DAYS)
- 1.7 BILLION GALLONS

- **MEAN DAILY FLOW**

- 4.9 MILLION GALLONS

- **TOTAL TP REMOVED**

- **2,474.30 LBS (1.12 MT)**

- **TP REMOVAL EFFICIENCY**

- **82.49% ± 15.88 SD**

- **TOTAL TN REMOVED**

- **33,659,91 LBS (15.27 MT)**

- **TN REMOVAL EFFICIENCY**

- **59.08% ± 13.18 SD**



## LAKE JESUP OPTIMAL TP REDUCTION 8<sup>TH</sup> QUARTER

- **TOTAL WATER TREATED**
  - (90 DAYS)
  - 382 MILLION GALLONS
- **AVG INFLUENT TP CONCENTRATION**
  - 0.248 MG/L
- **AVG EFFLUENT TP CONCENTRATION**
  - 0.012 MG/L
- **TP REMOVAL EFFICIENCY**
  - 93.7% TP REMOVAL
  - 721 POUNDS



BIOMASS



EVERYWHERE!





# BIOMASS.... EVERYWHERE!

*“The Bobcat Ballet”*





## LAKE JESUP RESULTS

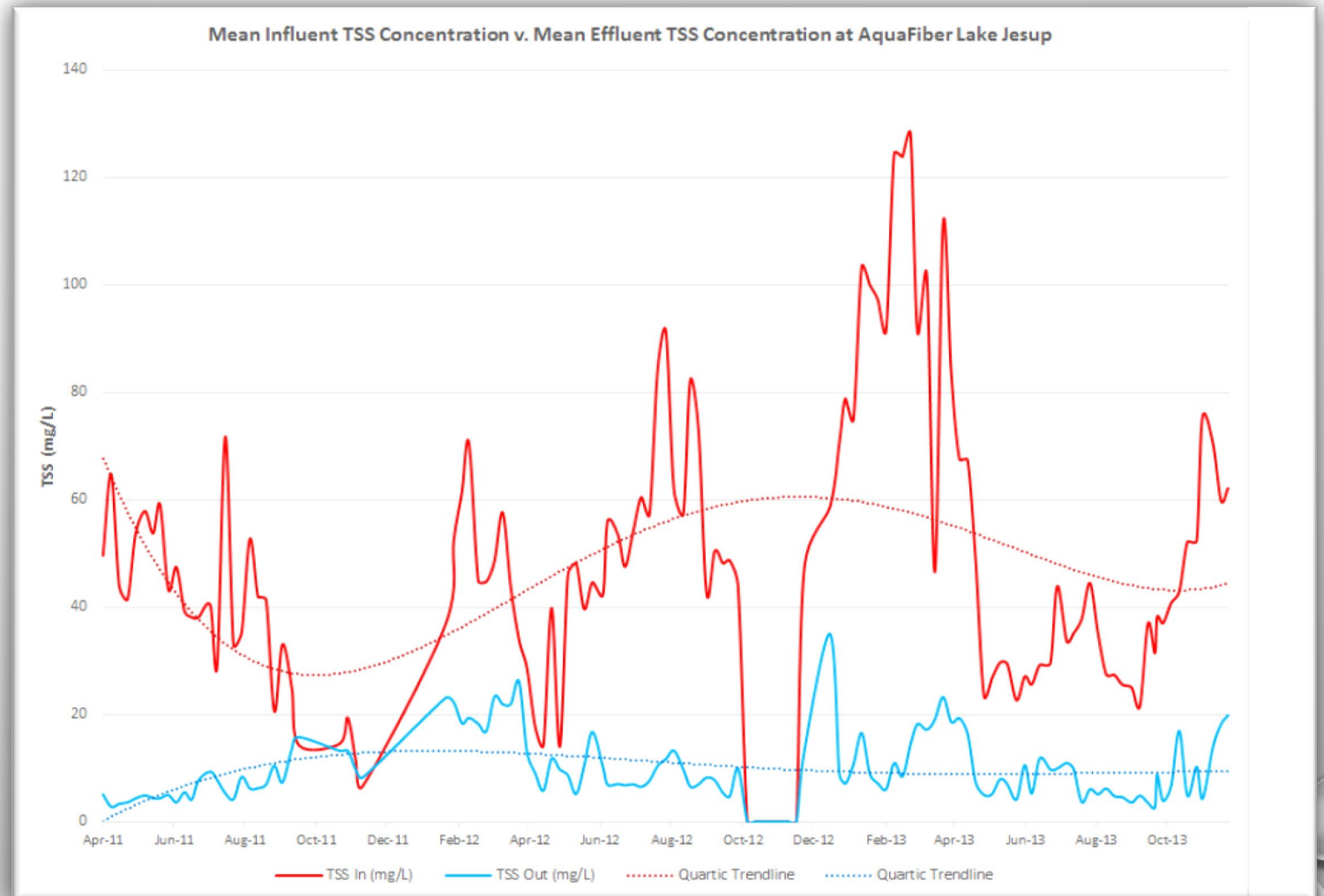
4/18/11 – 4/18/14

### TOTAL SUSPENDED SOLIDS (TSS)

- MEAN INFLUENT CONCENTRATION
  - **46.1 MG/L**
- MEAN DAILY INFLUENT RANGE
  - **8.9 MG/L MIN**
  - **193.2 MG/L MAX**
- MEAN EFFLUENT CONCENTRATION
  - **9.3 MG/L**
- MEAN REMOVAL EFFICIENCY
  - **72.5%**

### TOTAL DEWATERED BIOMASS REMOVED

- **13,402,584 POUNDS (6,079 MT)**
- **1.1 M POUNDS DRY WT**



## TESTED APPLICATIONS

- LARGE IMPAIRED SYSTEMS
- SMALL LAKE RESTORATION
- LEGACY LOAD REDUCTION
- FLOWING WATERS
- INDUSTRIAL WASTE WATER
- MINING WATER
- POWER PLANT COOLING WATER
- STORMWATER SYSTEMS
- WASTEWATER EFFLUENT POLISHING



*AquaKnight Mobile Treatment Trailer*

## AQUAFIBER:

- PROVEN & VERIFIABLE WATER QUALITY RESTORATION
- SCALES LARGE ENOUGH TO RESTORE WHOLE BASINS
- PERMANENTLY REMOVES NUTRIENTS
- PRODUCES FERTILIZER AND ELECTRICITY
- EFFECTIVE AND EFFICIENT
- SMALL LAND FOOTPRINT
- ENVIRONMENTALLY SAFE (CHRONIC TOXICITY TESTING)
- LEAST EXPENSIVE LIFE-CYCLE COST



*Lake Jesup Effluent*



**THANK YOU**

<http://www.aquafiber.com>