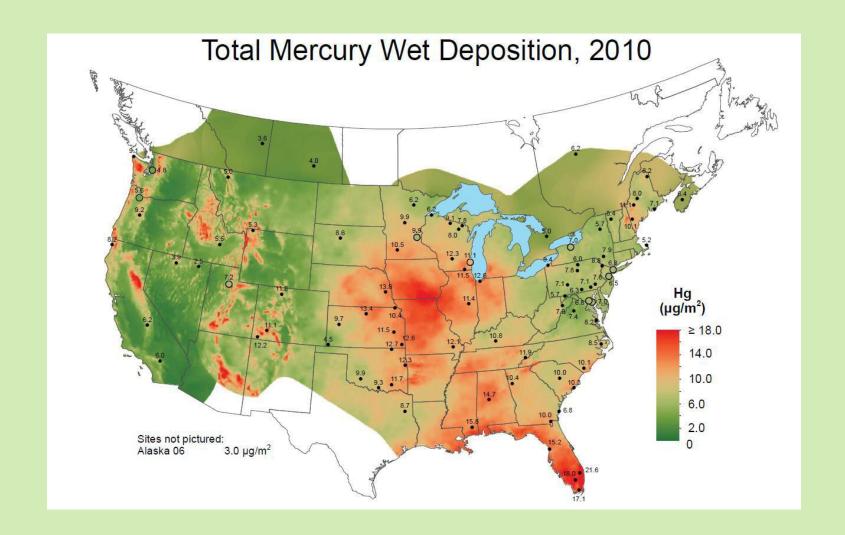


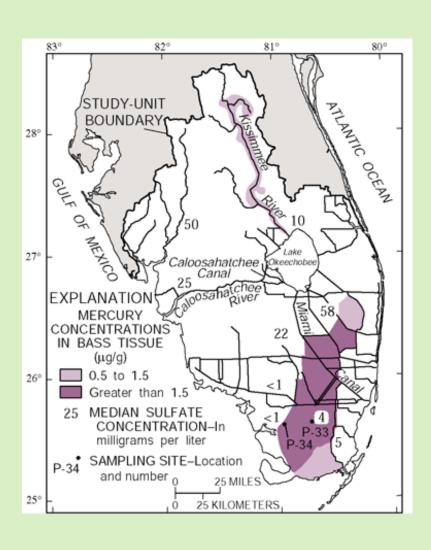
# Background Information

- Mercury contamination at the Tribe.
- Traditional use and Tribal needs.
- Natural occurrence and added sources.
- Mercury Hot Spot in the Everglades.
- Mercury accumulation and correlation with incinerators.
- Management structure and societal values.
- Status of native populations.



http://nadp.sws.uiuc.edu/mdn/maps/.

# Methyl Mercury in Bass





## Phase One

 Determination of the magnitude of the problem. (Average Methyl Mercury in fish over 0.9 ppm) (LMB 3 yrs of age, 0.7 ppm)

Design of solution strategy. (MFMP)

Getting the agencies on board

Moving forward in partnership.



## Community involvement and certification









#### **Native Fish Studies**









#### Fish Control









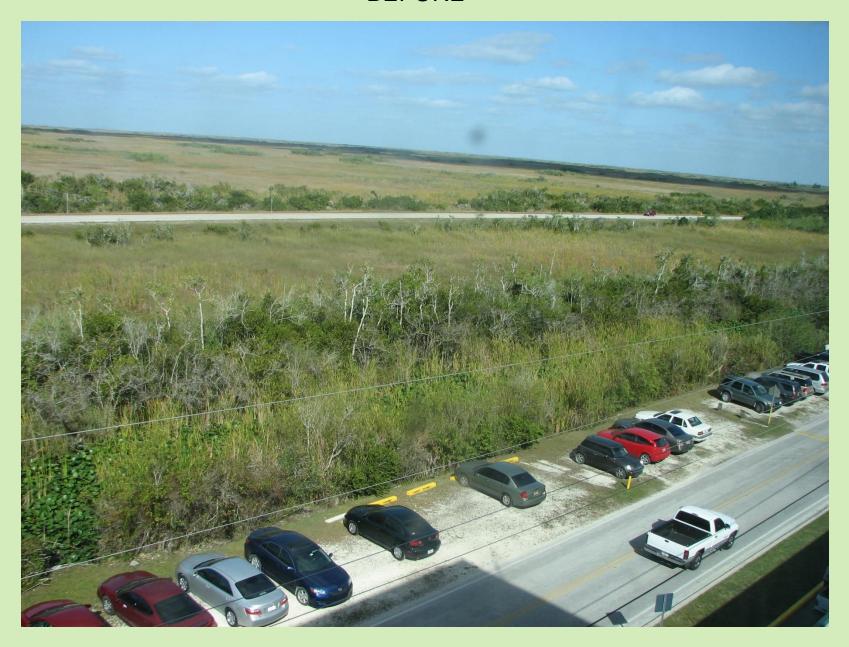
#### **AERATION**







#### **BEFORE**



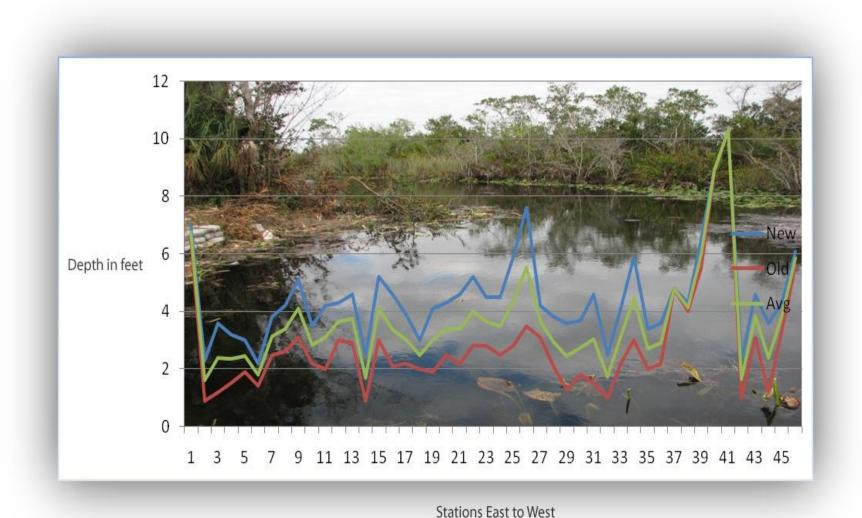
#### **AFTER**



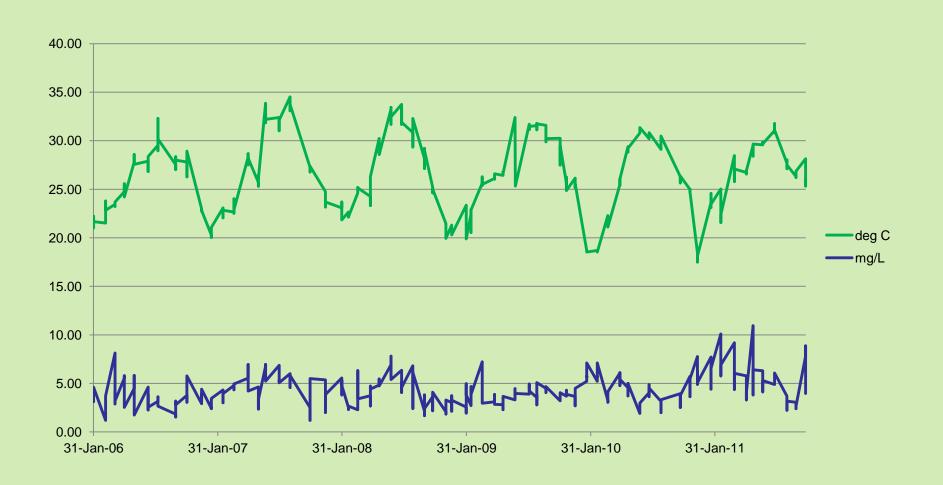
### Results

- ■Over 4,500 cubic yards of aquatic vegetation removed from canal.
- ■Considerable amount of non-aquatic exotic vegetation was also removed (i.e. Brazilian pepper, melalueca sp.)
- •6 tons of exotic fish removed.
- Applied successfully the composting and reutilization of nutrients extracted from the canal by forced air composting.
- ■To date approximately 15,000 native mercury safe fish restocked (sunfish: 30% red ear, 70% blue gill, ~200 large mouth bass).
- Spring 2010: Additional bass and introduction of garfish.
- Average mercury reading after 3 years of restocking is barely 0.2 ppm of methyl Mercury in (LMB) compared to the initial 0.7 ppm.

# Depth of canal



# Temp and O2



## Benefits and Future

- Reestablishment of a fisheries resource that is mercury safe.
- Set an example for oligotrophic fisheries management that is not only game fish oriented.
- Development of a sustainable safe source of protein.
- Rescue other species displaced from the Miccosukee lands by development.

