

Philosophy

Food

Energy

Water

Food



Freshwater or Saltwater?

BOTH

17 Different Ingredients to a Low-Cost Successful Operation

Heat Source

Energy

Water Treatment

Natural vs. Artificial

The logo for AquaGreen is a horizontal oval with a blue-to-green gradient. The word "Aqua" is in black and "Green" is in green, both in a bold, serif font.

AquaGreen

“aquaculture the green way”

Using Green Technologies to Help Restore the Gulf

Company Overview



- ✓ **Established 2008**
- ✓ **Freshwater and saltwater operations**
- ✓ **Recirculating aquaculture technologies**
- ✓ **Water reuse and effluent management**

Aqua Green is an inland aquaculture site





Sustainable Inland Aquaculture

Model



Fish production

```
graph TD; A[Fish production] --> B[Effluent (processed water)]; B --> C[Solids-free high nutrient effluent]; B --> D[Solids]; C --> E[Recycle]; C --> F[Greenhouse based aquaponics]; C --> G[Spray field application]; F --> H[Vegetables]; F --> I[Macroalgae]; F --> J[Marsh plants]; D --> K[Energy source]; D --> L[High nutrient compost]; G --> M[Hay]; G --> N[Row crops];
```

Effluent (processed water)

Solids-free high nutrient effluent

Solids

Recycle

Energy source

High nutrient compost

Greenhouse based aquaponics

Spray field application

Vegetables

Macroalgae

Marsh plants

Hay

Row crops



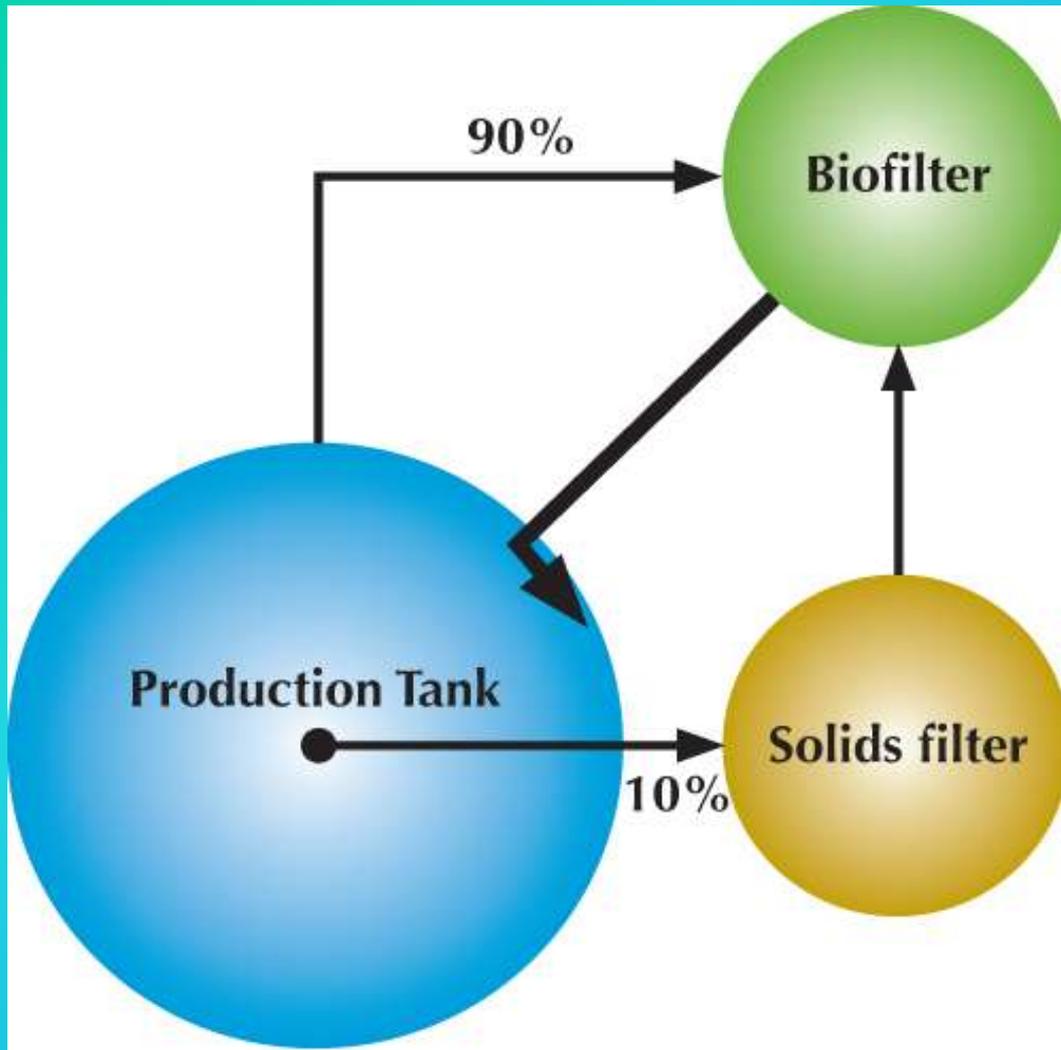
Ponds



Net pens or cages



Raceways



Recirculating Aquaculture Systems



- ✓ **Environmental control (temperature, salinity)**
- ✓ **Minimal discharge, water conserving**
- ✓ **Concentrated effluent for aquaponics**
- ✓ **Reduced predation and disease outbreaks**



AquaGreen

Freshwater operations

“aquaculture the green way”











大亞洲
GRAND ASIA MARKET



Freshwater effluent



Agricultural spray field



DEPARTMENT OF FISHERIES
& ALLIED AQUACULTURES





“aquaculture the green way”

Marine operations





Quarantine Room





Egg incubation



Live feeds



Experimental



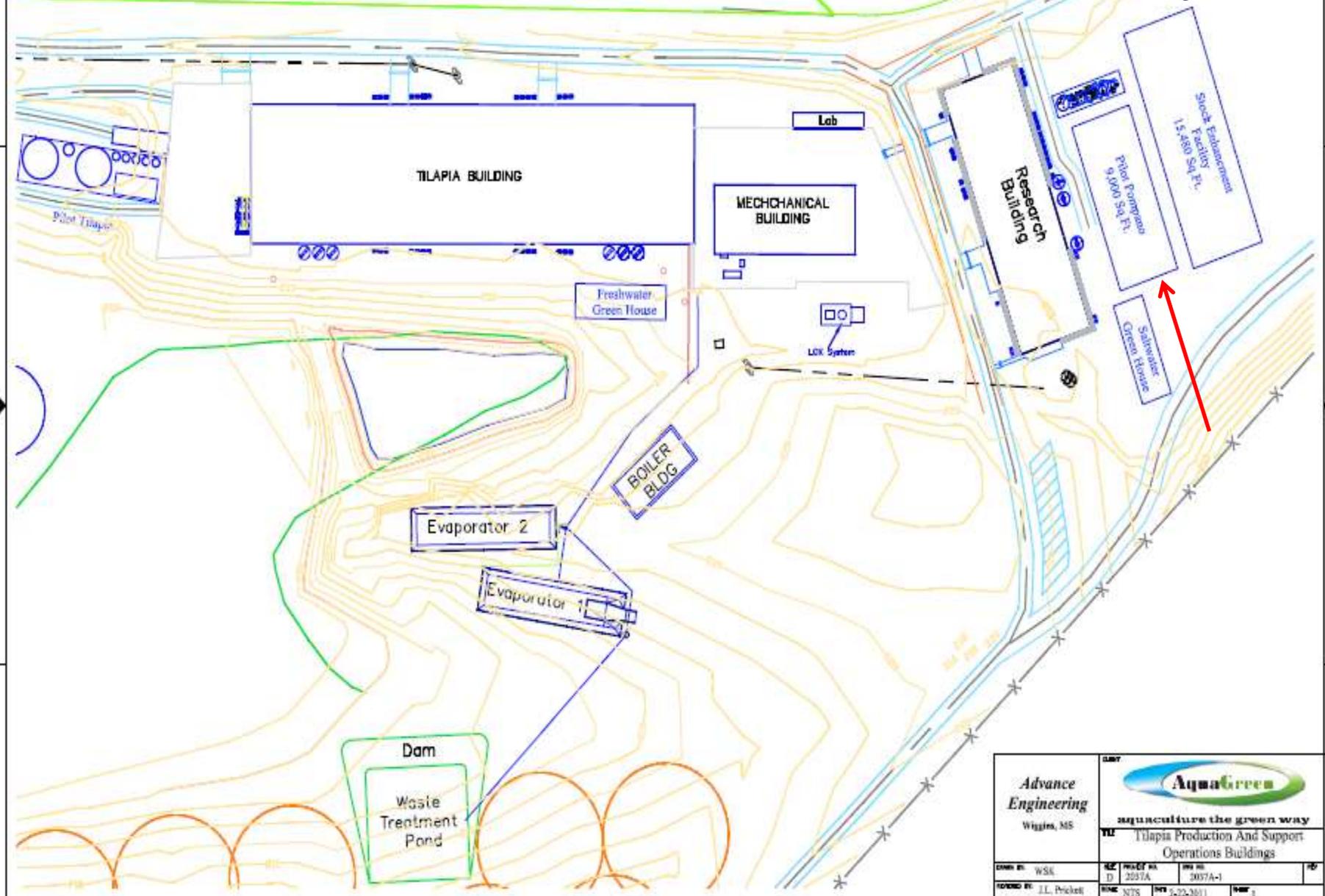
Larval production



Broodstock reproduction and juvenile production

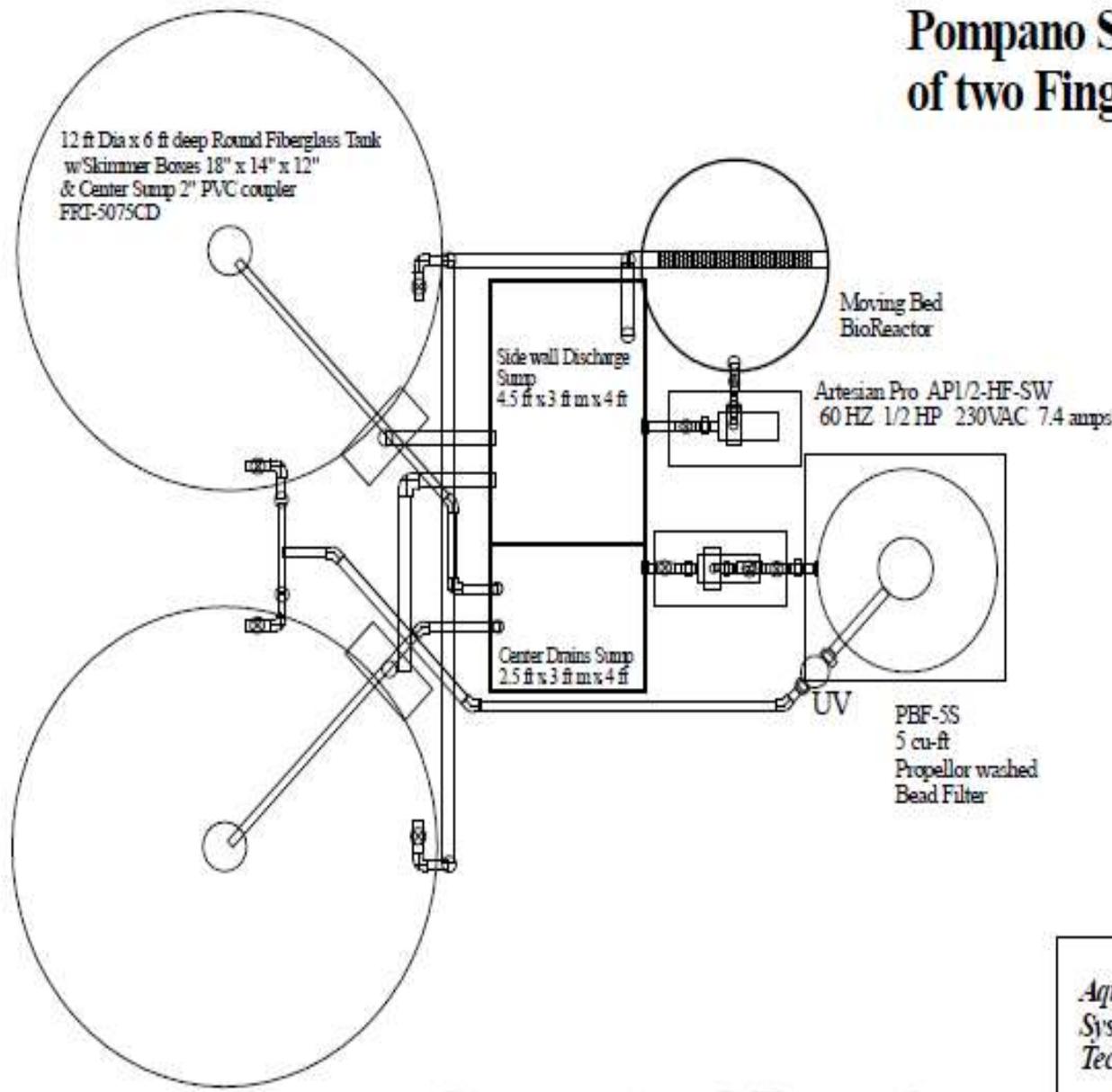


Pilot Scale Marine Finfish Production Facility



Advance Engineering Wiggins, MS	 aquaculture the green way		
	TIL Tilapia Production And Support Operations Buildings		
DRAWN BY: WSA CHECKED BY: J.L. Prickett	REV: D DATE: 2/22/2011	PROJ NO: 2007A-1 DATE: 2-22-2011	SHEET NO: 1

Pompano Single Production Pod of two Fingerling Tanks



Conceptual Drawing

<i>Aquaculture Systems Tech. LLC</i>	Aqua Green Pompano Demonstration Facility		
	Fingerling Tank Pod Plan View		
Drawn by: JME		DWG. NO. 2.0 Fingerling Pod Plan View	
Date: 12/20/10		Scale: 3/8" = 1'	Page No.



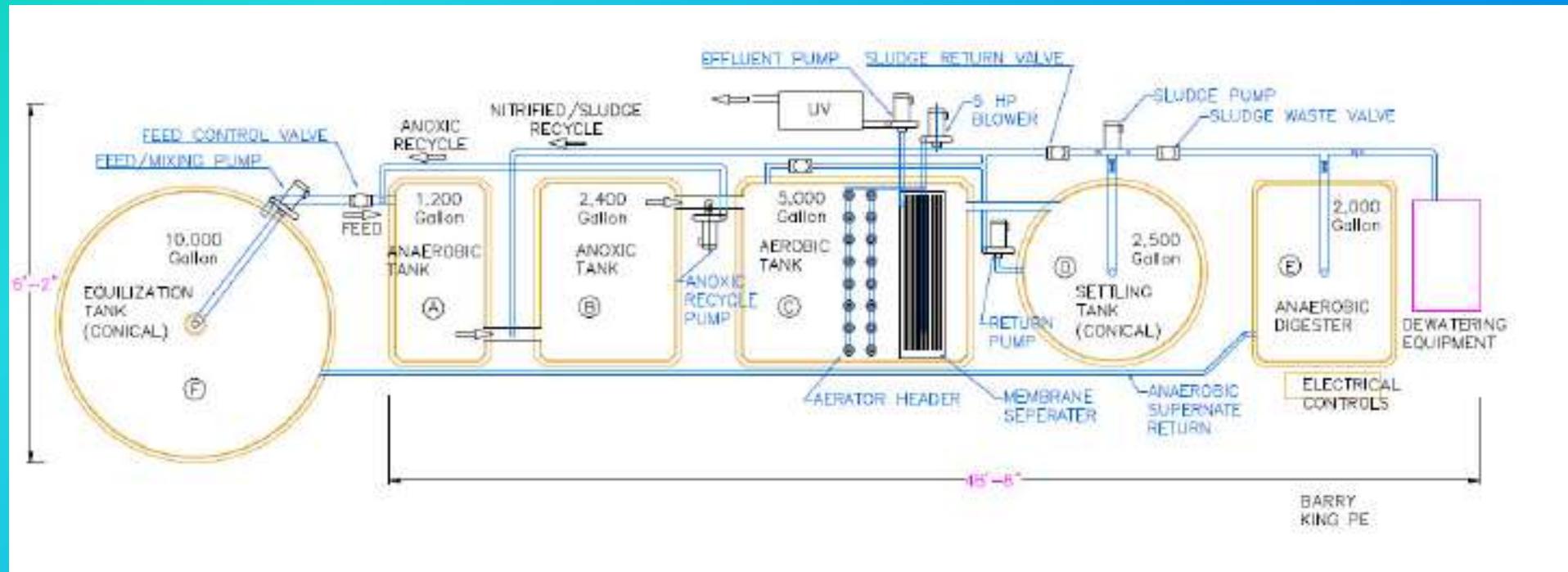
Saltwater effluent



Greenhouse covered evaporation ponds



United States Department of Agriculture
National Institute of Food and Agriculture



Wastewater treatment plant



MOTE MARINE LABORATORY

www.mote.org



Gulf Restoration

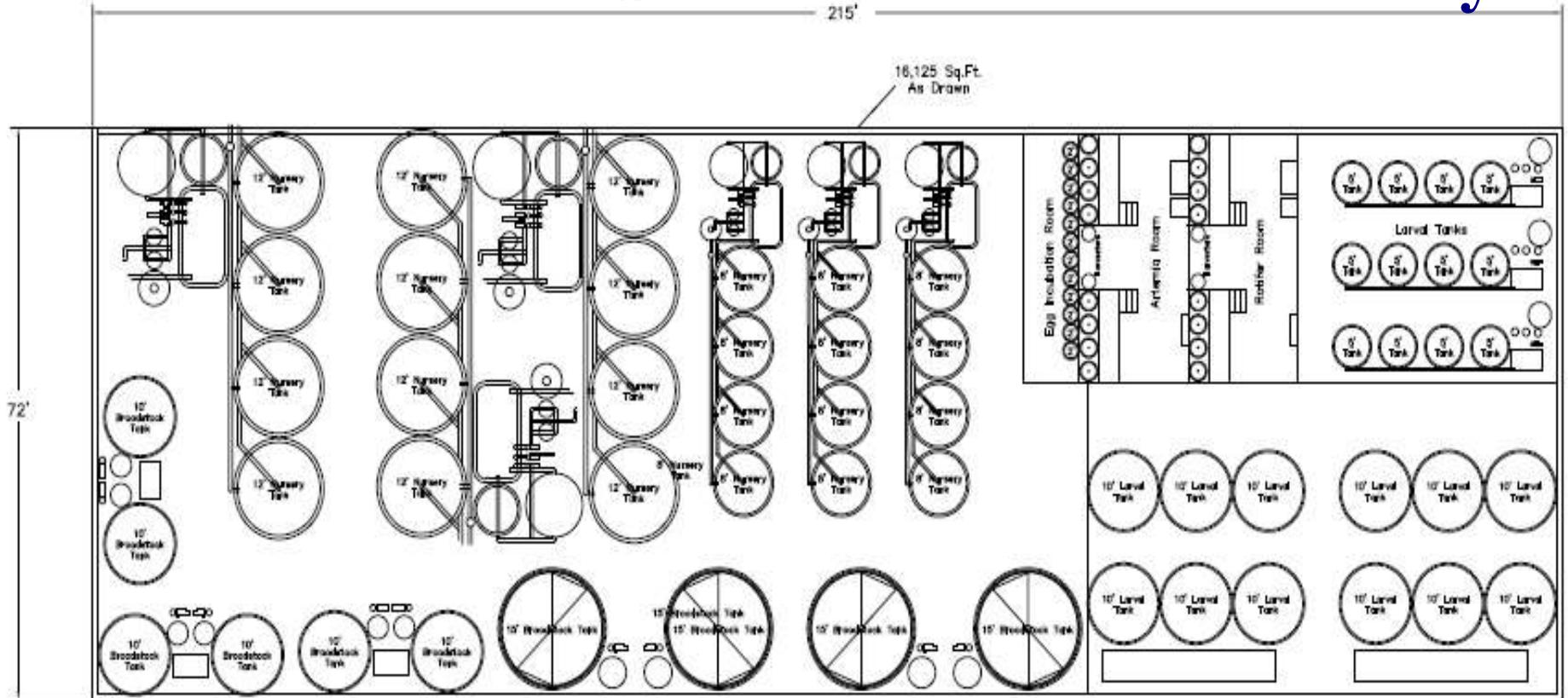
Aqua Green is fully operational and capable of producing millions of juvenile fish to restock Gulf waters



Species Available for Restoration

	Species	Habitat	Availability
	Red drum <i>Sciaenops ocellatus</i>	Inshore	September-November
	Spotted seatrout <i>Cynoscion nebulosus</i>	Inshore	August-November
	Cobia <i>Rachycentron canadum</i>	Offshore, pelagic	June-October
	Southern flounder <i>Paralichthys lethostigma</i>	Inshore	March-June
	Florida pompano <i>Trachinotus carolinus</i>	Offshore, surf	April-October
	Atlantic croaker <i>Micropogonias undulates</i>	Inshore	September-November

Marine Finfish Stock Enhancement Facility



Advance Engineering Wiggins, MS		Aqua Green Stock Enhancement Facility Preliminary Layout	
DATE: WSK	REV: PROJECT NO. 203703	DATE: 203703	REV: 203703
DESIGNED BY: J.L. Prickett	SCALE: NTS	DATE: 6-06-2010	DRAWN: 1

Collaborations



Mississippi Department of Marine Resources



DEPARTMENT OF FISHERIES
& ALLIED AQUACULTURES





- ✓ **Sustainable inland freshwater and marine aquaculture**
- ✓ **Green production technologies**
- ✓ **Water reuse and effluent management**
- ✓ **Quality seafood products**
- ✓ **Established state of the art facilities for restoration purposes**