

## Sustainable Community Development

### *Culturally Sensitive Sustainable Eco-System Integration of Aquaculture and Agriculture*

#### **Integrated Eco-System Project Components and Benefits**

##### Comments:

Integration of fish, gardens, animals, soil remediation, greenhouse, and an eco-system is ideal low cost organic food source and also serves as an ideal outdoor classroom for wide range of science, environmental studies, and nutrition topics.

The various eco-system components will vary to some degree between the programs at Civitan Foundation, CARE Partnership and Healing By Returning to Our Traditional Roots. Likewise, not all components will be implemented at the same time. However, in aggregate, this approach provides a highly efficient and sustainable eco-system

As much as possible, the elementary and middle school children, their families and the community members will take a lead in the management of the fish farms, gardens, animals and eco-system. Technical expertise will be integrated into the eco-system maintenance plan, such as how to monitor aquaculture water's pH, alkalinity, hardness, temperature, oxygen, and nutrients levels of nitrates and phosphorus.