**Leader Fishy**

The “Leader’ Fishy name is taken from the type of fish found in the reservoirs, It incorporates all of the leading components of a permaculture design & satisfies most of the five leading design ideals.

placement (N40°51'32.82"; W119°19'56.27"; Altitude: 1224.8 m)

Technology in the design:

Vortex Wins turbine

Tesla Glass tile solar panels

passive rain water catchment

greenhouse

solar heat pump

straw bale infil

Led lighting

water purification system

Composting toilet

hydraulic floor heat

methane collector

passive cooling by induction/solar fans

Support activities

Home

gardening

solar collection

water collection, heat, gardens, and house needs

inputs and Maintenance

inputs would be on the front end with the materials for constructing the building in the winter there may be times when utilizing the fire place would require acquisition of fire wood, Soil for the green house, maintenance for composting toilet will have to be changed out of 50 gallon barrels when they become full enough to replace. The full ones would be placed in storage until the summer heat when placed on there sides to start decomposing & letting off methane for collection.Once the compost ready it can be used to feed fruit nut trees & bushes Other maintenance would be cleaning solar tiles for maximum solar acquisition



Primary materials solar tiles, straw bales, clay, construction grade lumber, storage building/s, pond liner, water circulation pumps, solar panel electrical system and back up batteries, a cost estimate of 150 sq. ft. Major Dimensions would be 12.192 m x 9.144m x 6.096 m x 3.675m depth of storage buildings

A summary of the environmental impacts that may occur are as follows. Digging deep enough holes to accommodate the storage containers which may or may not need a cement foundation underneath, the acquisition of straw from a local farmer and the construction materials may entail the use of a large semi truck for the delivery of the materials and what ever impacts the burning of fossil fuels would leave. Utilizing local clay may be as simple as utilizing the clay dug out for the storage buildings other wise the clay material would have to be acquired from a local landscape company. Other impacts would be methane production of the nominal sort coming from the composting toilets. Other impacts may be unforeseen such as the digging and design of the ponds and or water tanks .