

# The KHV Wipe out Letter

- Mid West Pond & Koi Society website
- Ron Weynschenk (10 year dealer)
- Keep QT up and running
- Few host fish for bacteria
- Heater

# What about the Show Tank?

- Can't use previous setup
- Japanese garden
- Bead filter and pump too costly
- No bottom drain and pond vacuum
- Spike Cover's design
- Upgrades to Spike's design: landscape timber, bottom drain, diffuser

# Researching Working Designs

- Visit local stores
- Kenneth Wong's tanks (thanks Kenneth)
- Jim community.webshots/user/dallas75248
- Mike Singleton at [www.livingjewels.com](http://www.livingjewels.com)
- Contractor bid: \$ 550 for labor only

# Shopping Experience

- Identify “Bill of Materials”
- Timber: wait for sales at Home Depot
- eBay: bottom drain, liner, pump
- Barrels: thanks to Gary, none at PepsiCo
- Plumbing: AES, Dickson Brothers, Lowes
- Given by members: Springflo, matting
- Crushed corral: PetSmart

# Building Experience: Preparation

- Moving the fence and adding a gate
- Adding an electrical circuit
- Tree roots and other obstacles
- Rain: mud, drainage, sump pump, wet timber
- Concrete tiles and pebbles

# Building Experience: Tank

- The ground is not level + rain sensitive
- The rebars are bent
- The timber is not straight + rain sensitive
- Use a powerful hammer drill (thanks Gary)
- Use a special long wood drill bit
- Suggest concrete collar + laser level

























# Building Experience: Plumbing

- Cutting the barrel top
- Sizing the bulkhead holes (thanks Kenneth)
- Leaks in connections
- Aligning the bottom drain pipe to first barrel (a three dimensional puzzle)
- Cleaning the barrels (draining, disconnecting)
- Use flexible pipe









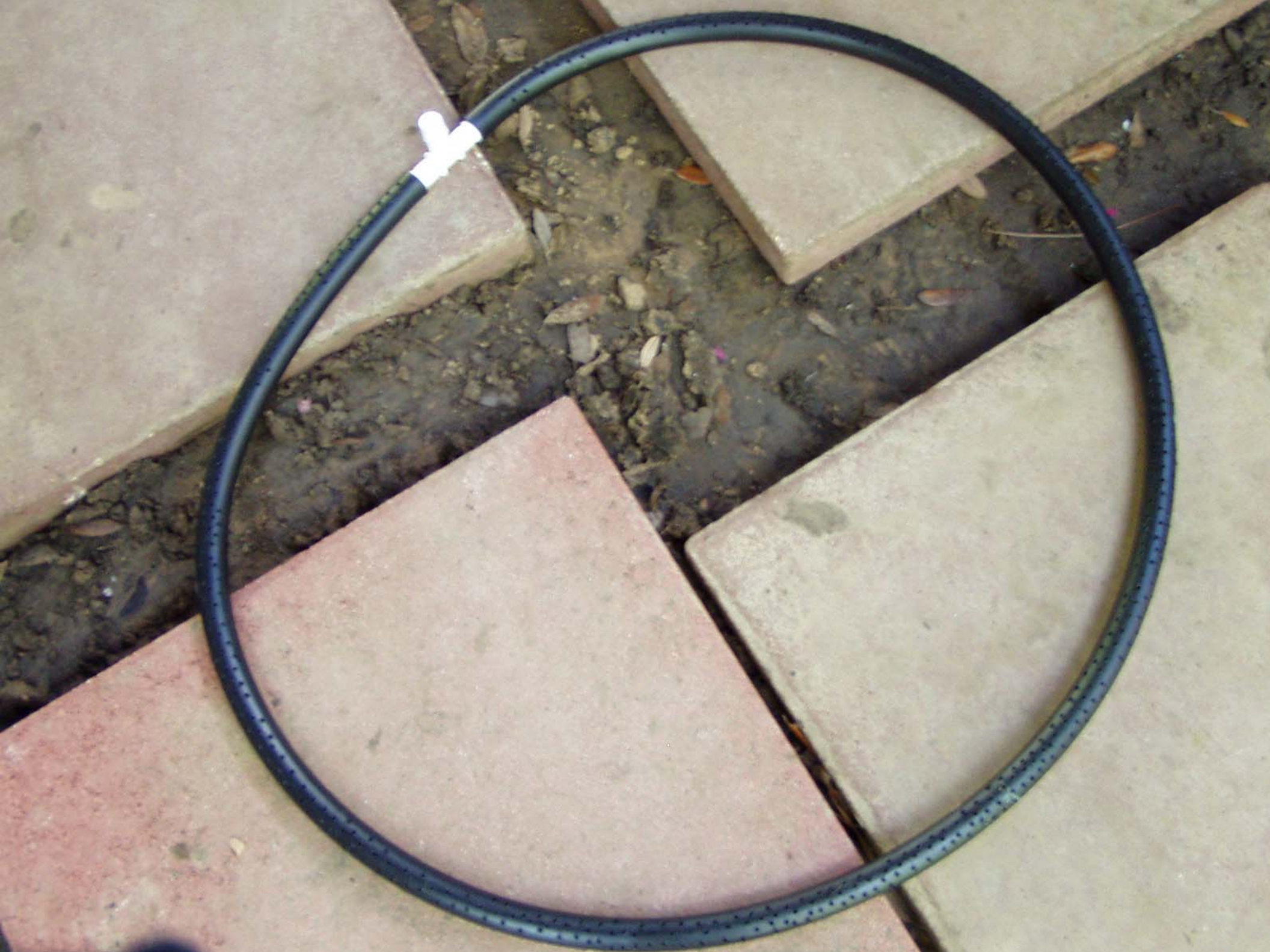




# Building Experience: Air Supply

- Hard pipe from air pumps (1/2 inch)
- Air manifold from Aquatic Eco Systems
- Air rings: bottom drain, filter barrels

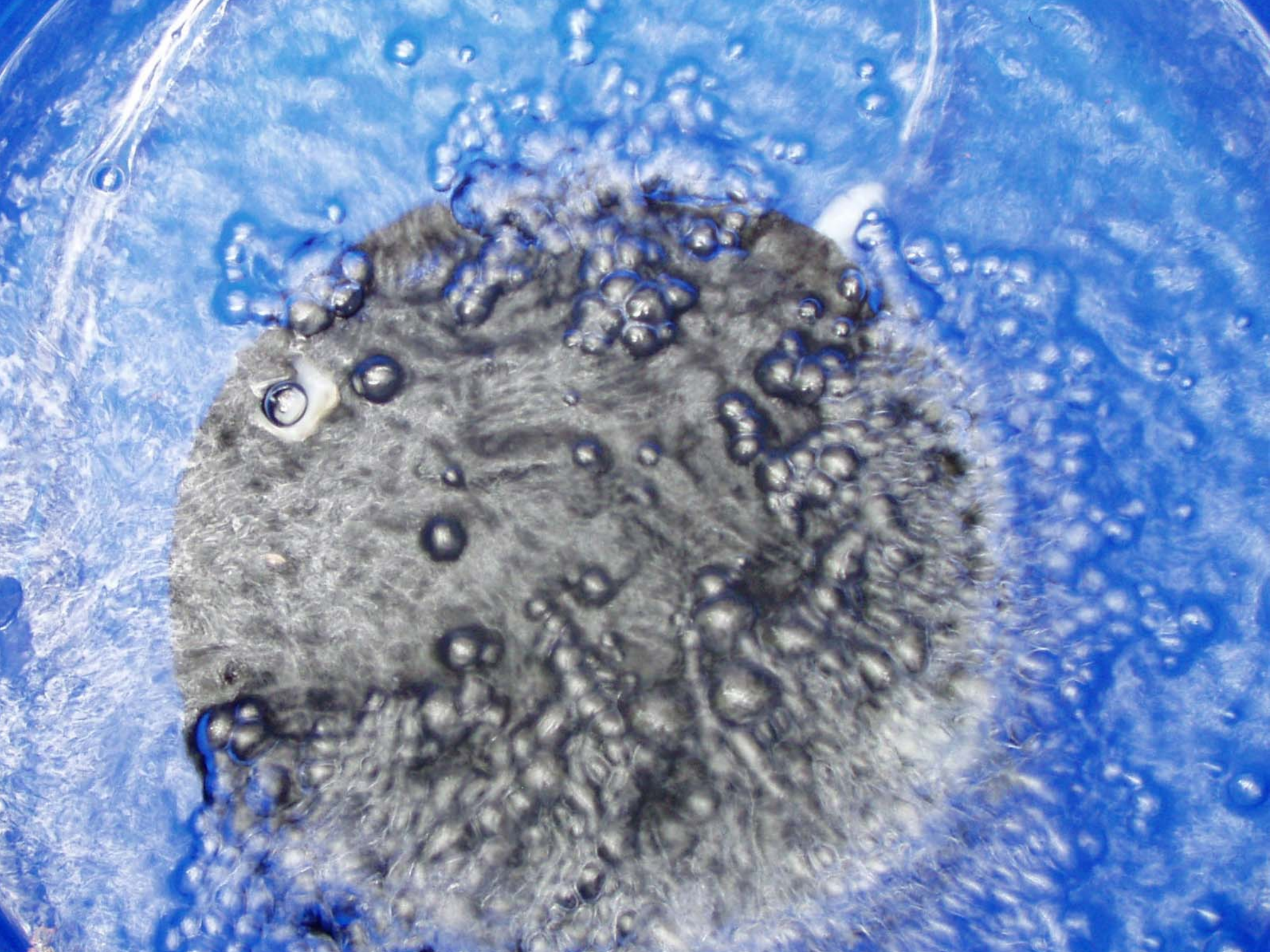


















# Building Experience: Water

- Insulation boards
- Liner laying and taping
- Bottom drain hole
- Air ring attachment
- Corners pushed out by water!
- Brackets to the rescue



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# Building Experience: Extras

- Wood frame
- Net cover
- Tarpaulin cover
- Heater (to come)
- UV Light (to come)
- Overflow (to come)



















# Operating Experience

- Two koi spawning – eggs block filtration
- Adding ClorAm-X and Baking Soda
- Move the koi out and clean everything
- Draining: spigots and pumps
- Wet vac to the rescue
- Need to detach first barrel
- Avoid spawning: young koi (thanks Kathryn) or extra tank



