

### ProMoss™ Technology For Closed Loop Applications

By: Steve Oswald , Kriss Water Treatment

- Naturally softens water by removing positively charged ions like calcium, iron, magnesium and zinc
- Stabilizes water pH
- Removes organic contamination from all surfaces the ProMoss™ treated water touches
- Inhibits and removes scale
- Decreases corrosion on surfaces the ProMoss™ treated water touches

#### Case Study – Closed Chilled Water Loop

A large (6000 gallon) chilled water loop had experienced microbiologically induced corrosion due to the presence of ethylene glycol introduced when cooling coils were brought on line in the spring. While cleaning, flushing and retreating the system improved the situation, large amounts of iron remained and it was suspected that organic contamination remained in the system. ProMoss™ was selected to be used in this application to clean and remove the iron from the system, stabilize the chill water pH and assist in dispersing organic contamination. The photo below shows the remarkable effectiveness of ProMoss™ over a nine-month period. Today, the system continues to run clear and clean thanks to the effectiveness of natural water treatment; ProMoss™!



# Taking Care of My Hot Tub with SpaMoss® and Little Else!

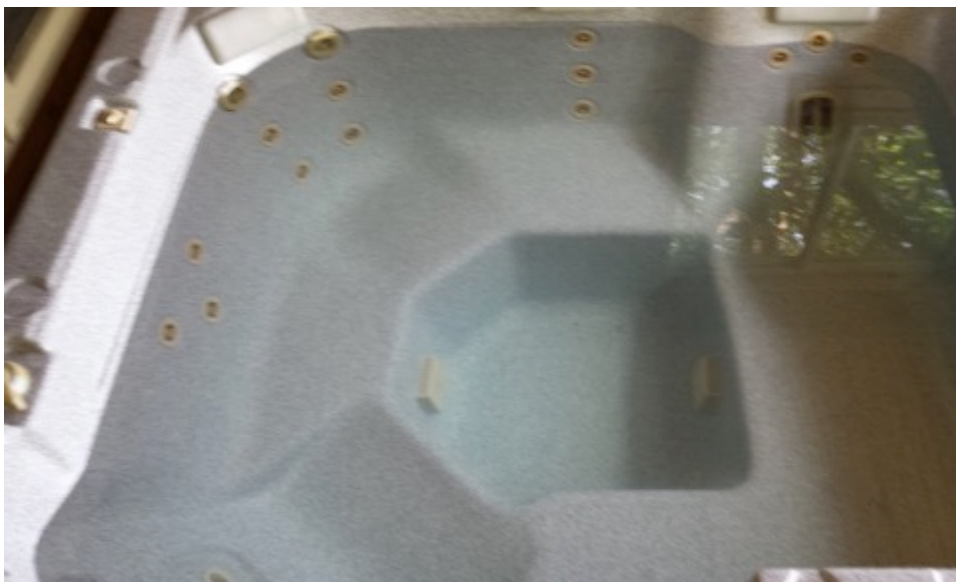
By: Gina Chavez, Chief Operating Officer

We're a busy family of four (five if you count Eugene, our dog). With work, kids in school, sports and other activities, I don't want to spend a lot of time taking care of the hot tub AND I want it to look and smell great whenever we want to use it. I see the store shelves full of bottles upon bottles of products for hot tubs, but in our years of product testing, our customers' experiences and in my humble experience, the best thing is to keep it simple – LESS is MORE.



- At water change time, use **Breakaway® flush** (I skipped this step ONCE – never again).
- Fill the spa using the **StartNaturally® filter** (I use well water and then because it's more convenient, I top off the water level with softened water from the indoor tap).
- Use **pH down** to achieve 7.2 on initial fill and then I don't chase it.
- Use **SpaMoss®** and change it once a month. When I change it, I rinse off the cartridge filter-it's dirty
- After each use of the spa, add a cap of **brominating granules**.

Full disclosure: We aren't daily users... weekly at best. Usually used by 2-4 people (adults and kids) who don't wear a lot of body and hair products and if they do – they have to take a shower first (because otherwise that's gross – this isn't a bath tub!).



What if the tub goes bad? On the occasions when we do have a party with lots of users, spilled food and beverage, and other debris, foam, cloudiness and smell are usually the main issues. I wash off (with hot water) the filter a few times each day for a few days and add a cap of bromine after each filter wash. (If it's really bad, I might wet vac the foam off, but I think I've only needed to do that once.) The tub recovers in 2-4 days. I accept this time for filtration, oxidation and SpaMoss® to work, rather than adding foam out, perfume, clarifier, etc. and then soaking my family in chemical soup.



Vance Fiegel, Co-Founder and Chief Scientific Officer, has been invited to speak at the 14<sup>th</sup> Annual World Aquatic Health Conference being held in Denver from October 18-20, 2017. He will be speaking in the Advanced Chemistry session on October 18<sup>th</sup> and the title of his presentation will be "The Relationship Between Organic Load, Disinfection Byproducts and Spaghnum Moss". Vance last spoke at this conference in 2013 and is looking forward to the opportunity to present to this audience once again.

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Our spa water reflects the trees outside one of the windows above the spa. I use Breakaway® flush, StartNaturally® filter (not pictured), pH down, bromine, and SpaMoss®