Cleaning Black Encrusted Silver
Items required for this process

1. Tin Foil
2. Small container (I use aluminum loaf pan)
3. Stove top Pan
4. Water, Salt, pH down pool chemicals
5. Dish washing detergent
6. Fine soft brass jewelers brush or toothbrush
7. Stainless steel jewelers mix or small aquarium stones
8. Strainer
9. Tumbler
Before starting, remove any clasps or anything with iron in it. Make sure none of the silver is plated.
Gather your black incrusted jewelry
Wrap Jewelry in Aluminum Foil
Place in aluminum loaf pan
Ingredients will be Water, Salt, and pH up or pH down pool chemicals.
Bring 1+ cup of water with 1 teaspoon salt added to a boil. Pour water into loaf pan and then add heaping tablespoon of pH up or pH down to water.
Note color of water as the process works
Remove foil from jewelry. Here you see the chemical interaction result.
Use fine soft brass jewelers brush or Toothbrush to clean remaining oxidation from items
Use Jewelers Mix Stainless Steel Shot or small aquarium rocks in tumbler
Place tumbling mix into barrel
Put your silver in with the mix. This is a good time to double check there is no iron going in with it.
Add 1 or 2 drops of dishwashing detergent.
Here I also add my silver that is just a little tarnished and needs to be cleaned. Then fill with water to approximately $\frac{1}{4}$ to $\frac{1}{2}$ inch above mix. Do not fill to top.
Cover, seal, and place barrel on tumbler. Run for 3 to 4 hours
The barrel will look like this when you open it.
But under all that white soap you will find very black dirty water.
Pour the contents into a strainer and rinse thoroughly with clean water.
Here is the result. If not clean enough, put the items back into the tumbler for a few more hours.
Before and After Results